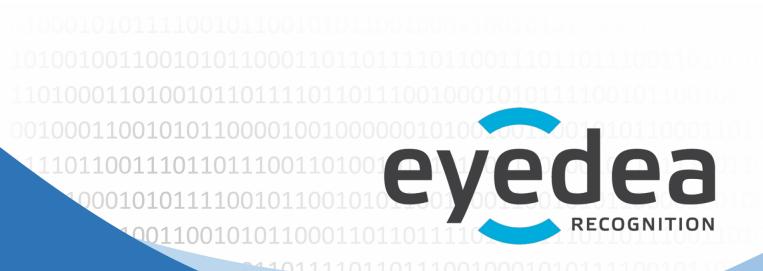
Eyedea MMR SDK

Technical sheet

Version 2.24.0



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B Precision/Recall of Tags Classification



1 What's New

Eyedea MMR 2.24.0

• **REMINDER:** DAT modules are not compatible with the previous versions of the SDK. Inferior accuracy will result from using the new DAT modules with the previous versions of the SDK.

- Added FLOPS counts to the DAT module information table.
- Added new classifier "view8". Allows for improved category and tag classification. See the Developer's Guide for more information.
- Added new tag "tag_truck_is_semi". Allows to disnguish between semi-trucks and straight(full) trucks.
- Added new tag "tag_rider_present". Allows to recognize if a rider is present on animal, bike, kickbike
 or motorbike.
- Added new tag "tag_helmet". Allows to recognize if rider (if present) has a helmet. Only the driving person helmet is considered.
- Improvements of soft mobility category classification.
- Significant improvement in the classification of traffic data from South America.
- Removed explink examples, no longer required to load SDK. See example on how to load MMR SDK.
- Algorithm adjustments for better accuracy of classifiers. Computation time adjustments, mostly decrease in computation time by 20%, slow down possible on 32 bit architectures. Check the Technical Sheet timing table.
- Completely new binary modules for vehicle classification with actual data for 2024/Q4. Based on data from Europe, Americas, Middle East, Africa, and Australia.
- **EOL NOTICE**: We are EOL 32 bit architectures (armv7l, i686, Win32) in December 2024. This is the last release to contain 32 bit packages. In the future, only contractual customers of pre-2025 contracts will receive on-demand 32 bit packages.

Eyedea MMR 2.23.0

- Improvements for initial support of soft mobility category classification.
- Significant improvement in the classification of traffic data from the USA.
- Added "tag_towed" also to the license plate-based modules to recognize vehicles which are being towed.
- Completely new binary modules for vehicle classification with actual data for 2024/Q2. Based on data from Europe, North America, Middle East, Africa, and Australia.

Eyedea MMR 2.22.0

- Improvements for initial support of soft mobility category classification. Added soft mobility benchmark to benchmark sets.
- Added "tag_tank_truck" to recognize tank truck vehicles (cisterns).
- Added "tag_mixer_truck" to recognize mixer truck vehicles (agitator truck, concrete mixer).
- Completely new binary modules for vehicle classification with actual data for 2023/Q4. Based on data from Europe, North America, East Asia, Middle East, Africa, and Australia.

Eyedea MMR 2.21.0



Release date: 2024/12/05

Release date: 2024/06/20

Release date: 2023/12/01

Release date: 2023/06/20

• **BREAKING CHANGE:** Module names changed; customer name dropped from .DAT module name for private releases.

- BREAKING CHANGE: Module path dropped "mmr" suffix. Module path "edftf2lite-mmr" changed to "edftf2lite", module path "edftrt-mmr" changed to "edftrt". In case you previously used internal beta packages with "mmrbox" suffix, this has been dropped as well. This change enables license plate detection-based and road user detection-based recognition in a single package.
- BREAKING CHANGE: Variable names "EDF_COMPUTATIONMODE_CPU|GPU" changed to "ER_COM-PUTATION_MODE_CPU|GPU". These are contained in the new header file "er_type.h".
- Changed name convention ("vehicle", "car"), now entities that are recognized are not only vehicles, but all "road users".
- Added recognition modules based on road user detection. Previously, only license plate-based modules were available. The road user detection .DAT modules have prefix "MMRBOX_". See examples on how to use road user detection-based modules.
- Extended benchmarks with road user detection-based modules, also added benchmark sets with direct comparison between license plate-based and road user-based detection as input to MMR SDK.
- Added "tag_towed" to recognize vehicles which are being towed.
- Road user detection-based modules: added new categories to be recognized for soft mobility scenarios (PEDESTRIAN, KICKBIKE, ANIMAL, TROLLEY).
- Updated example project and wrappers.
- Completely new binary modules for vehicle classification with actual data for 2023/Q2. Based on data from Europe, North America, East Asia, Middle East, Africa, and Australia.
- Extended set of supported makes with rear vehicle model classification.

Eyedea MMR 2.20.0

- BREAKING CHANGE: Module names changed to signalize unification of MMR and COLOR modules. Single module now returns classifications of all tasks. For example, previous module named "MMR_VCMM_PREC_2022Q2.dat" is renamed to "MMR_VCMMCT_PREC_2022Q4.dat" which means it also returns classifications of COLOR and TAGS. Examples were updated to implement this change. Clients no longer need to initialize two library objects to recognize MMR and COLOR.
- Added TAG classification to recognize various traits of the vehicle. For example, to recognize caravans, government vehicles, or vehicles transporting livestock. More information is available in the Developer's Guide.
- Updated example project and wrappers.
- Completely new binary modules for vehicle classification with actual data for 2022/Q4. Based on data from Europe, North America, East Asia, Middle East, Africa, and Australia.
- Extended set of supported makes with rear vehicle model classification. List of makes supporting rear model classification is in table *Model Availability*.

Eyedea MMR 2.12.0

- **BREAKING CHANGE:** On Windows, the MMR SDK DLL file was renamed from "eyedentify-x64-MT.dll" to "eyedentify-x64.dll" for 64-bit architecture, and from "eyedentify-Win32-MT.dll" to "eyedentify-Win32.dll" for 32-bit architecture. This filename is used in the example inside *loadEyedentify* function. If you are using edf-explink codes inside your app, please update them to the current version. If using wrappers, make sure to update them to the current version.
- **BREAKING CHANGE:** Function definition of *edfFreeCropImage* has changed. The function now consumes state variable as well as the image crop. Make sure to update your app. If using wrappers,





Release date: 2022/12/06

Release date: 2022/06/30

make sure to update them to the current version.

• BREAKING CHANGE: Structure *EdfInitConfig* changed, additional member *num_threads* is added. Make sure to clean up the structure before use, by zeroing all members. In CPU mode, setting *num_threads* to a value larger than 1 can speed up the *edfComputeDesc* function. If using wrappers, make sure to update them to the current version.

- New function to explicitly link MMR SDK added, *edfLinkAPI*. This function can be used to link all other API functions, resulting in less code in client apps. Users can continue to use the previous implementation of linkage.
- New version of MMR SDK with TensorRT backend available for NVIDIA Jetson.
- Updated example project and wrappers.
- Tool *gpu-devices* from examples folder moved to tools folder.
- Improved SDK processing time measurement tool to better reflect real usage of the SDK. Running times reported have increased for GPU versions, but actually are the same as in previous release, where the reported times were overly optimistic.
- Completely new binary modules for vehicle classification with actual data for 2022/Q2. Based on data from Europe (incl. Russia), North America, East Asia, Middle East, Africa, and Australia.
- Added support for caravan make recognition. A future release will contain a yes/no caravan classifier to identify caravans in traffic.
- Extended set of supported makes with rear vehicle model classification. List of makes supporting rear model classification is in table *Model Availability*.

Eyedea MMR 2.11.0

- Completely new binary modules for vehicle classification with actual data for 2021/Q4. Based on data from Europe (incl. Russia), North America, East Asia, Middle East, Africa, and Australia.
- Extended set of supported makes with rear vehicle model classification. List of makes supporting rear model classification is in table *Model Availability*.
- Added information and description of benchmark results table.
- Backend updated, faster computation on selected CPU platforms.

Eyedea MMR 2.10.0

- Bugfix classification accuracy on Nvidia Jetson in GPU mode.
- New product branding as "Eyedea MMR", all "VCL" tags replaced with "MMR"
 - Module path changed, replace "edftf2lite-vcl" with "edftf2lite-mmr" in EdfInitConfig structure, variable module_path.
 - Macro changed, replace "EDF_VCL_CROP_POINTS" with "EDF_MMR_CROP_POINTS"
 - Macro changed, replace "EDF_VCL_CROP_VALUES" with "EDF_MMR_CROP_VALUE"S
- Completely new binary modules for vehicle classification with actual data for 2021/Q2. Based on data from Europe (incl. Russia), North America, East Asia, Middle East, Africa, and Australia.
- Significant improvement on night images.
- New input image format YCbCr NV12 supported.
- Extended set of supported makes with rear vehicle model classification. List of makes supporting rear model classification is in table *Model Availability*.
- Extended Developers Guide with MMR results explained.
- Generation and variation classification licensing added.
- Added category SPECIAL (industrial machines, agricultural tractors). See chapter Task category in Developer's Guide.
- Behavior change: If computation_mode is set to EDF_COMPUTATIONMODE_GPU, but no GPU is





Release date: 2021/11/30

Release date: 2021/06/15

found or the build does not support GPU, error message will be printed and the SDK will call exit. Previously, the SDK would fallback to EDF_COMPUTATIONMODE_CPU without any warning.

Eyedentify MMR 2.9.0

• Module path changed. Replace "edfdeep-vcl" string with "edftf2lite-vlc" in *EdfInitConfig* structure, variable *module_path*.

- Completely new binary modules for vehicle classification with actual data for 2020/Q4.
- Processing speed improvement for FAST modules.
- Extended set of supported makes with rear vehicle model classification. List of makes supporting rear model classification is in table *Model Availability*.
- Added dependency for GPU enabled packages. Please see the Installation Guide chapter in Developers Guide.
- Changed descriptor template sizes (output of *EdfComputeDesc*).
- Batch processing is disabled (see *EdfComputeDescConfig* in SDK Application Interface chapter in Developers Guide).

Eyedentify MMR 2.8.0

- Completely new binary modules for vehicle classification with actual data for 2020/Q2.
- Added new category CYCLE for rear view.
- Added new category MTB for frontal view.
- Category TO1 changed to TO12 trailer O1, O2 (trailers up to 3.5 ton).
- Added new category TRUCK grouped category of LGT, HVT, TO34 (trailers over 3.5 ton) for rear view
- Adding new testing sets for Asia and Middle East.
- Extended set of supported makes with rear vehicle model classification. List of supporting rear model classification is in table *Model Availability*.

Eyedentify MMR 2.7.0

- Completely new binary models for vehicle classification with actual data for 2019/Q4.
- Added new category TO1 trailer O1 (small personal car trailer)
- Improved invariance to camera position top view, view from the same level
- Extended set of supported makes with rear vehicle model classification. (rear model classification supported for "Alfa Romeo", "BMW", "Citroen", "Dacia", "Fiat", "Ford", "Honda", "Hyundai", "Kia", "Lancia", "Mazda", "Mercedes", "Mitsubishi", "Nissan", "Opel", "Peugeot", "Renault", "Seat", "Skoda", "Suzuki", "Tesla", "Toyota", "VW" makes)
- Ubuntu 18.04_x86_64 build with Java 11 support

Eyedentify MMR 2.6.0

- Completely new binary models for vehicle classification with actual data for 2019/Q2.
- Newly added rear vehicle model classification.
 (rear model classification supported for "Alfa Romeo", "Citroen", "Dacia", "Fiat", "Ford", "Honda", "Hyundai", "Kia", "Lancia", "Mazda", "Mitsubishi", "Nissan", "Peugeot", "Renault", "Skoda", "Suzuki", "Tesla", "Toyota", "VW" makes)
- The GPU version build with CUDA® Toolkit 10.0.





Release date: 2020/11/30

Release date: 2020/06/30

Release date: 2019/12/18

Release date: 2019/06/27

Eyedentify MMR 2.5.0-BETA

Completely new binary models for vehicle classification with actual data for 2018/Q4.

- Added support for batch descriptor computation.
- Added support for GPU descriptor computation.
- The GPU version build with CUDA® Toolkit 9.1.
- Added gpu-devices binary which can be used for listing installed CUDA® GPUs.
- Java Wrapper built with the Java version 1.8.0_191.

Eyedentify MMR 2.4.1

- Completely new binary models for vehicle classification with actual data for 2018/Q1.
- Added BGRA image color model support.
- Sentinel Run-time updated to the newest version 7.80.
- Java Wrapper built with the Java version 1.8.0_171.
- Bugfixes in SDK Wrappers.

Eyedentify MMR 2.3.1

- Completely new binary models for vehicle classification with actual data for 2017/Q3.
- Binary models for vehicle classification now support view recognition feature.
 View type (frontal, rear) is now the one of the vehicle classification outputs. Separate binary models for frontal and rear view are not the part of the distribution anymore, one binary model for both views can be used.
- Eyedentify shared library now supports explicit linking only. Example codes for explicit linking are the part of the release package. Static linking was removed.
- Added new structure ERImage for image manipulation which internally uses OpenCV library. ERImage API is defined in the er_image.h and er_explink.h header files.
 EdfImage structure was removed.
- Header file edf_utils.h removed. Contained functions for EdfCropParams structure manipulation (edfCropParamsAllocate, edfCropParamsWrap and edfCropParamsFree) moved to the edf.h header. Remaining functions from edf_utils.h were removed from the public API or replaced by the ERImage API functions.
- EdfCropImageConfig structure updated with antialiasing settings.
- Structure *EdfClassifyConfig* for classification configuration added.

 Function *edfClassify* can be configured using the *EdfClassifyConfig* instance on the input.
- New version of licensing software Sentinel LDK 7.6 used.
- Example image data moved to the package root folder data.
- Java Wrapper built with the Java version 1.8.0_151.

Eyedentify MMR 2.1.0

· Initial release



Release date: 2017/02/08

Release date: 2018/12/12

Release date: 2018/06/27

Release date: 2017/11/13

2 Distribution Contents

The following list is an excerpt from the Eyedea MMR SDK directory structure, highlighting the most important directories and files contained in the software distribution. A brief description of the items is given.

🗁 [Eyedea MMR SDK]	distribution main folder
□ documentation	documentation folder
☐ 3rdparty-licenses	licenses to used 3rd party libraries
🔁 Eyedea MMR SDK - Developer's Guide.pdf	SDK Developer's Guide
Eyedea MMR SDK - Technical sheet.pdf	SDK Technical Sheet
🗁 examples	examples source files
edf-explink	explicit linking support sources
c example-edf-explink	explicit linking example
c example-mmr-API	basic MMR API example
🗁 tools	library tools
pu-devices	utility for GPU devices listing
☐ hasp	software protection binaries
⇔ sdk	Eyedea MMR SDK mandatory data
include	header files
□ lib	Eyedentify library
	recognition modules folder
edftf2lite (or edftrt)	MMR recognition module
□ lib	recognition module shared library
🗅 model	recognition module binary models
	API wrappers
🗅 java	Java API wrapper
□ csharp	C# API wrapper
python	python wrapper
LICENSE.txt	SDK license
README.txt	SDK Readme file





3 Hardware Requirements

3.1 Minimal Requirements

Processor: 1.0 GHz, single core, x86 platform, embedded (i.e. Intel Atom)

or

ARM Cortex-A7, armv7l platform (EOL)

OI

ARM Cortex-A35, aarch64 platform

RAM: 2 GB

Hard disk: 1 GB free space

3.2 Recommended Requirements

Processor: 2.0 GHz, dual core, x86 platform (i.e. Intel i5)

or

AMR Cortex-A15, armv7l platform (EOL)

or

AMR Cortex-A57, aarch64 platform

RAM: 4 GB

Hard disk: 2 GB free space

3.3 Supported GPU Requirements (x64, x86_64)

GPU: NVIDIA® GeForce® GTX 10 series and higher GPU supporting OpenCL

3.4 Supported GPU Requirements (aarch64)

GPU – OpenGL backend: NVIDIA® Jetson® with JetPack 4.2 and higher **GPU – TensorRT backend:** NVIDIA® Jetson® with JetPack 4.6, 5.1, 6.0 and 6.1

IMPORTANT: The OpenGL backend requires the DISPLAY environment variable be set! Problems can appear especially with ssh connection with X forwarding. Setting the DISPLAY environment solves the problem.

This can be done by: export DISPLAY=:0



3.5 Supported Operating Systems

3.5.1 Windows

- Microsoft Windows 7/8/8.1/10/11
 - Win32 (EOL) and x64 platform
 - GPU version supports x64 platform only

3.5.2 Linux

- Ubuntu 18.04 and higher
 - i686 (EOL) and x86_64 platform
 - GPU version supports x86_64 and aarch64 platforms only









4 Input Requirements

The input of the MMR system is divided into two parts: image data and scene specification. The first part, which is in the *Input Image section*, specifies the image capture criteria and the way how to represent the image data. The second part, which is covered in the *Road User Position*, *Scale in Pixels per Meter* and *Image Rotation* sections, describes how to set the input parameters of the MMR system.

4.1 Input Image

The results of the road user classification are dependent on two facts: the way the image was taken and the way the image is stored. Image capture requirements are specified in the *Scene Criteria* section.

4.1.1 Scene Criteria

To get the highest possible recognition accuracy, several rules must be respected during the road user input image data collection. The criteria specify camera scene setting in case of *Road User Alignment* and *Image Borders* paragraphs. The camera capture quality criteria are specified in *Blurred Image* and *Aspect Ratio* paragraphs.

Road User Alignment

The front/back of the road user in the input image should be aligned in the way the license plate is horizontally aligned, in case of road user without license plate, the object should be aligned. The alignment could be done on the user's side or in case of license plate-based MMR using the Eyedea MMR SDK with specifying the rotation compensation parameter (see *Image Rotation*).



WRONG:

The front of the car is not horizontally aligned.



CORRECT:

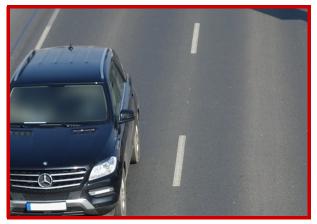
Image with compensated in-plane rotation. The front of the car is now horizontally aligned.

Image Borders

The road user should be sufficiently distant from image borders, should not be cropped or occluded. In case of license plate-based MMR, the surrounding red rectangle in the illustration should not go out of the image and should be fully visible to achieve the best recognition accuracy. In case of road user detection-based MMR, the whole object should not go out of the image and should be fully visible to achieve the best recognition accuracy







WRONG:

The car is too close to the image edge.



CORRECT:

The car is sufficiently distant from image edges.

Blurred Image

The road user in the input image should not be blurred by motion or by wrong camera settings. All details on the road user must be clearly visible for successful recognition.



WRONG:

Wrong camera settings and fast motion causes that the car is blurred.



CORRECT:

The image of the car is very sharp and all the details are clearly visible.

Resolution

Resolution of the input images should be 30 pixels per meter at least. For example, pedestrians should be about 50 pixel tall. Vehicles with 520mmx110mm license plate should be captured with approximately 15-pixel plate width. For more information about the pixels per meter unit see the chapter *Scale in Pixels per Meter*.



15 pixels at least



Aspect Ratio

Pixel aspect ratio should be 1:1. Other aspect ratios are not supported.



WRONG:

Pixel aspect ratio is not 1:1.

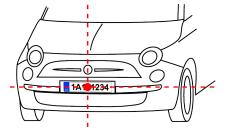
CORRECT:

Pixel aspect ratio is 1:1.

4.2 Road User Position

4.2.1 License plate detection-based MMR

The position of the road user of interest is defined using the 2D point in the image coordinate system. To get the road user position from the image automatically, a license plate detector software must be used (Eyedea LPM, or other). The input of the MMR system defining the vehicle position is then specified as a 2D point representing the center of the license plate in the input image coordinate system.





The license plate detection output, defined as four 2D points representing the corners, is used to compute the license plate center.

4.2.2 Road user detection-based MMR

In this case, the whole 2D bounding rectangle of the road user is used as input. The rectangle is aligned with x and y image axis, and is specified as 2 points, top left corner, and bottom right corner.

4.3 Scale in Pixels per Meter

Only used in license plate detection-based MMR. Regarding the fact that the position of the road user is specified by one 2D point only for correct vehicle localization the scale must be defined. The scale is defined in the pixels per meter – how many pixels in the image represent one meter in the real world.



4.3.1 Description

Scale in pixels per meter is the unit used in Eyedea MMR SDK to define the resolution of the input image with respect to the dimensions of the observed object in real world. We will call this unit using shortened name <code>scale_px_per_m</code> which also appears as the name of the variable in the SDK.

The known <code>scale_px_per_m</code> is used during the input photo preparation where the image data is transformed with respect to the location of the road user. We need the scale unit defined for the front/rear vertical plane of the road user. The vertical plane is illustrated in the <code>Illustration 1</code>.

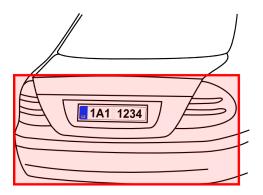


Illustration 1: Horizontal plane on the vehicle's rear where the scale_px_per_m should be defined.

We use the fact that the license plate dimensions are well defined and also Eyedea SDK is usually connected with the detector which is searching for the license plate or one of its parts in the input image, so we compute the *scale_px_per_m* with respect to the license plate dimensions.

When the license plate or its part is detected in the input image, we have the dimensions measured in the image from the detection in pixels. The physical dimensions of the license plate and its parts are defined by law in each country of origin but in many cases the same format is used. Latest OCR software can recognize license plate dimensions in metric system (Eyedea LPM).

The formula below defines the relation between the size of the object (license plate or its part) in the image in pixels and in real world where the result is the *scale_px_per_m*.

4.3.2 Formula

$$scale_px_per_m = \frac{size \ of \ the \ object \ in \ the \ image \ [px]}{size \ of \ the \ object \ in \ real \ world \ [m]}$$

There are several important facts that must be considered to get correct results:

- The *scale_px_per_m* varies across the image due to perspective projection.
- The engine allows error max. +/- 20% in scale_px_per_m. To achieve this a stable scale_px_per_m estimate (i.e. license plate/road user detector) is needed.
- Estimate of *scale_px_per_m* on small objects has higher error than on large ones (especially on low resolution images). It is therefore recommended to estimate the *scale_px_per_m* from license plate width rather than from license plate's letter height.

4.3.3 Use Cases

License plate width

The scale is computed from the measured width of the license plate detection.

$$scale = \frac{license\ plate\ detection\ width\ [px]}{physical\ width\ of\ the\ license\ plate\ [m]} \quad [px/m]$$



License plate's letter height

The scale is computed from the height of the detected license plate's letter.

$$scale = \frac{height\ of\ the\ detected\ license\ plate's\ letter\ [px]}{physical\ height\ of\ the\ license\ plate's\ letter\ [m]} \quad [px/m]$$

License plate's OCR

The scale is computed from the width of the license plates OCR area.

$$scale = \frac{license\ plates\ OCR\ area\ width\ [px]}{physical\ width\ of\ the\ licenseplate's\ letter\ area\ [m]} \quad [px/m]$$

Road user's width

The scale is computed from the width of the road user detection.

$$scale = \frac{width\ of\ the\ vehicle\ detection\ [px]}{physical\ width\ of\ the\ road\ user\ [m]} \quad [px/m]$$

Static camera setting

Scale could be precomputed for the specific static camera setting. In this case the scale must be defined for each possible road user position in the camera image. If the camera is set to observe the road lane(s) we can generate the scales for the camera view using the fact that the road users are always placed on the plane representing the visible part of the road (green plane in the image).

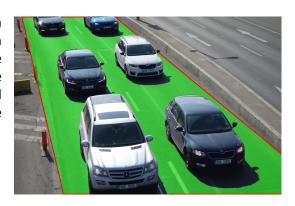
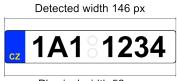


Illustration 2: Road lane with green highlighted plane where cars are placed.

4.3.4 Examples

• License plate width used to get the scale in pixels per meter:



scale_px_per_m =
$$\frac{\text{detected width [px]}}{\text{physical width [m]}} = \frac{146}{0.52} \approx 280 \text{ px/m}$$

Physical width 52 cm

• License plate's letter height used to get the scale in pixels per meter:

Detected height 21 px

Physical height 7.5 cm scale_px_per_m = detected height [px] physical height [m] =
$$\frac{21}{0.075} \approx 280 \text{ px/m}$$



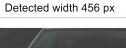
• License plate's OCR used to get the scale in pixels per meter:



scale_px_per_m =
$$\frac{\text{detected height [px]}}{\text{physical height [m]}} = \frac{112}{0.40} \approx 280 \text{ px/m}$$

Physical width 40 cm

• Road user's width used to get the scale in pixels per meter:

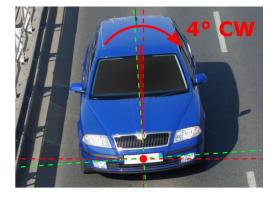


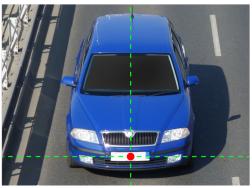


scale_px_per_m =
$$\frac{\text{detected width [px]}}{\text{physical width [m]}} = \frac{456}{1.63} \approx 280 \text{ px/m}$$

Image Rotation 4.4

Only used in license plate detection-based MMR. Road user image, before it could be processed by the MMR SDK, should be be vertically aligned as described in the Vehicle Alignment chapter. In the case of license plate-based MMR, the SDK supports rotation parameter setting during input image preparation. The rotation parameter specifies the clockwise rotation of the input image in degrees. The center of rotation is the specified vehicle position in the image (see Vehicle Position) - center of the license plate. In case of road user detection-based MMR, the client is responsible for the rotation compensation.







5 Binary Models

5.1 Description, Supported Outputs

Classification models are distributed in PRECISE and FAST versions. Also, two detection versions exist, one license plate detection and one for road user detection. The versions differ in evaluation speed, memory requirements and classification accuracy.

View	Frontal/Rear			
Category	Category (BUS, CAR, HVT, LGT, VAN, MTB, TO12, TRUCK, SPECIAL, CYCLE,)			
Make Manufacturer of the vehicle (e.g. VW, Ford, Fiat)				
Model Vehicle instance defined by a bodywork (e.g. Golf, Mondeo, 500)				
Generation	Vehicle mark and first model year (e.g. Mk VI (2019), Mk I (2020))			
Variation	Vehicle trim level and/or body type (e.g. AMG, AMG-Line SUV, Coupe)			
Color	Color of the vehicle bodywork			
Tags	Special vehicle trait, like caravan or fire brigade, etc.			

Binary .DAT module name	View	Category	Make	Model	Generation	Variation	Color	Tags
MMR_VCCT_PREC_2024Q4	2	11	-	-	-	-	10	10
MMR_VCCT_FAST_2024Q4	2	11	-	-	-	-	10	10
MMRBOX_VCCT_PREC_2024Q4	3	16	-	-	-	-	10	17
MMRBOX_VCCT_FAST_2024Q4	3	16	-	-	-	-	10	17
MMR_VCMCT_PREC_2024Q4	2	11	336	-	-	-	10	10
MMR_VCMCT_FAST_2024Q4	2	11	336	-	-	-	10	10
MMRBOX_VCMCT_PREC_2024Q4	3	16	335	-	-	-	10	17
MMRBOX_VCMCT_FAST_2024Q4	3	16	335	-	-	-	10	17
MMR_VCMMCT_PREC_2024Q4	2	11	336	2722	-	-	10	10
MMR_VCMMCT_FAST_2024Q4	2	11	336	2722	-	-	10	10
MMRBOX_VCMMCT_PREC_2024Q4	3	16	335	2713	-	-	10	17
MMRBOX_VCMMCT_FAST_2024Q4	3	16	335	2713	-	-	10	17
MMR_VCMMGVCT_PREC_2024Q4	2	11	336	2722	7122	3186	10	10
MMR_VCMMGVCT_FAST_2024Q4	2	11	336	2722	7122	3186	10	10
MMRBOX_VCMMGVCT_PREC_2024Q4	3	16	335	2713	7101	3171	10	17
MMRBOX_VCMMGVCT_FAST_2024Q4	3	16	335	2713	7101	3171	10	17



Input resolution	Resolution of the input image after cropping.			
Input channels				
Input color space Color space of the input image after cropping.				
D. FLOPS The number of floating-point operations per second (FLOPS) required for				
	descriptor calculation (EdfComputeDesc).			
C. FLOPS	The number of floating-point operations per second (FLOPS) required for the			
	classification calculation (EdfClassify).			

Binary module name	Input	Input	Input	Size ^a	D. FLOPS	C. FLOPS
	resolution	channels	color	[MB]	[GFLOPS]	[MFLOPS]
			space			
MMR_VCCT_PREC_2024Q4 (20241120)	224×160	3	BGR	146	26.46	8.6
MMR_VCCT_FAST_2024Q4 (20241121)	160x120	3	BGR	17	0.11	8.6
MMRBOX_VCCT_PREC_2024Q4 (20240520)	192x192	3	BGR	146	27.21	8.6
MMRBOX_VCCT_FAST_2024Q4 (20240519)	160x160	3	BGR	17	0.14	8.6
MMR_VCMCT_PREC_2024Q4 (20241120)	224×160	3	BGR	147	26.46	8.6
MMR_VCMCT_FAST_2024Q4 (20241121)	160x120	3	BGR	18	0.11	8.6
MMRBOX_VCMCT_PREC_2024Q4 (20240520)	192x192	3	BGR	147	27.21	8.6
MMRBOX_VCMCT_FAST_2024Q4 (20240519)	160x160	3	BGR	18	0.14	8.6
MMR_VCMMCT_PREC_2024Q4 (20241120)	224×160	3	BGR	154	26.46	8.6
MMR_VCMMCT_FAST_2024Q4 (20241121)	160x120	3	BGR	24	0.11	8.6
MMRBOX_VCMMCT_PREC_2024Q4 (20240520)	192x192	3	BGR	154	27.21	8.6
MMRBOX_VCMMCT_FAST_2024Q4 (20240519)	160x160	3	BGR	24	0.14	8.6
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	224×160	3	BGR	180	26.46	8.6
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	160x120	3	BGR	50	0.11	8.6
MMRBOX_VCMMGVCT_PREC_2024Q4 (20240520)	192x192	3	BGR	180	27.21	8.6
MMRBOX_VCMMGVCT_FAST_2024Q4 (20240519)	160x160	3	BGR	50	0.14	8.6

^a Binary model size might differ on Nvidia Jetson using TensorRT backend of MMR SDK.

5.2 Performance – Evaluation Speed

Processing Time: A single vehicle processing (*EdfCropImage* (always processed on CPU) + *EdfComputeDesc* + *EdfClassify* (always processed on CPU)) on:

- CPU1: Intel i7-7700K
- CPU2: AMD EPYC 7402P
- CPU3: Intel i3 10110U
- GPU1: NVIDIA Titan X with Intel i7-7700K
- GPU2 A: Jetson TX2
- GPU2_B: Jetson TX2 float16
- GPU2_C: Jetson TX2 float32
- GPU3: NVIDIA RTX 3090 with AMD EPYC 7402P
- GPU4_A: Jetson Orin AGX
- GPU4_B: Jetson Orin AGX float16
- GPU4_C: Jetson Orin AGX float32
- ARM1: Raspberry Pi 2
- ARM2: Jetson TX2
- ARM3: Jetson Orin AGX
- ARM4: Raspberry Pi 4
- CPUP1: Atom E3845
- ARMP1: ARM Cortex A9 Quad Core





	CPU	GPU	ARM
Binary module name	processing time	processing time	processing time
	[ms]	[ms]	[ms]
FAST VCMMCT MMR (20241121)	5.19 ⁽¹⁾ 7.61 ⁽²⁾ 6.56 ⁽³⁾ 131 ^(P1)	1.93 ⁽¹⁾ 16.7 ⁽² _A) 16.9 ⁽² _B) 18.1 ⁽² _C) 1.95 ⁽³⁾ 17.0 ⁽⁴ _A) 6.10 ⁽⁴ _B) 8.25 ⁽⁴ _C)	436 ⁽¹⁾ 34.2 ⁽²⁾ 11.9 ⁽³⁾ 35.1 ⁽⁴⁾ 431 ^(P1)
PRECISE VCMMCT MMR (20241120)	778 ⁽¹⁾ 1410 ⁽²⁾ 914 ⁽³⁾ 32 900 ^(P1)	8.86 ⁽¹⁾ 949 ⁽² _A) 64.6 ⁽² _B) 100 ⁽² _C) 5.13 ⁽³⁾ 84.8 ⁽⁴ _A) 18.4 ⁽⁴ _B) 19.4 ⁽⁴ _C)	64 700 ⁽¹⁾ 6120 ⁽²⁾ 1650 ⁽³⁾ 5980 ⁽⁴⁾ 58 200 ^(P1)
FAST VCMMGVCT MMR (20241121)	6.55 ⁽¹⁾ 9.37 ⁽²⁾ 8.67 ⁽³⁾ 143 ^(P1)	3.48 ⁽¹⁾ 29.3 ⁽² _A) 32.7 ⁽² _B) 34.1 ⁽² _C) 4.05 ⁽³⁾ 23.5 ⁽⁴ _A) 8.12 ⁽⁴ _B) 8.93 ⁽⁴ _C)	477 ⁽¹⁾ 42.1 ⁽²⁾ 15.0 ⁽³⁾ 41.9 ⁽⁴⁾ 562 ^(P1)
PRECISE VCMMGVCT MMR (20241121)	778 ⁽¹⁾ 1410 ⁽²⁾ 915 ⁽³⁾ 32 900 ^(P1)	10.3 ⁽¹⁾ 955 ⁽² _A) 69.0 ⁽² _B) 105 ⁽² _C) 7.12 ⁽³⁾ 85.5 ⁽⁴ _A) 29.8 ⁽⁴ _B) 30.3 ⁽⁴ _C)	64 700 ⁽¹⁾ 6130 ⁽²⁾ 1660 ⁽³⁾ 6060 ⁽⁴⁾ 58 000 ^(P1)
FAST VCMMCT MMRBOX (20241122)	6.39 ⁽¹⁾ 9.51 ⁽²⁾ 7.99 ⁽³⁾ 170 ^(P1)	2.12 ⁽¹⁾ 18.4 ⁽² _A) 20.3 ⁽² _B) 20.5 ⁽² _C) 2.18 ⁽³⁾ 19.0 ⁽⁴ _A) 6.40 ⁽⁴ _B) 8.89 ⁽⁴ _C)	539 ⁽¹⁾ 43.4 ⁽²⁾ 14.4 ⁽³⁾ 44.8 ⁽⁴⁾ 546 ^(P1)



	CPU	GPU	ARM
Binary module name	processing time	processing time	processing time
	[ms]	[ms]	[ms]
PRECISE VCMMCT MMRBOX (20241123)	804 ⁽¹⁾ 1450 ⁽²⁾ 944 ⁽³⁾ 33 800 ^(P1)	9.28 ⁽¹⁾ 958 ⁽² _A) 65.2 ⁽² _B) 100 ⁽² _C) 5.41 ⁽³⁾ 87.3 ⁽⁴ _A) 24.5 ⁽⁴ _B) 21.9 ⁽⁴ _C)	66 600 ⁽¹⁾ 6140 ⁽²⁾ 1690 ⁽³⁾ 6190 ⁽⁴⁾ 60 000 ^(P1)
FAST VCMMGVCT MMRBOX (20241121)	7.69 ⁽¹⁾ 11.1 ⁽²⁾ 9.96 ⁽³⁾ 182 ^(P1)	3.63 ⁽¹⁾ 29.5 ⁽² _A) 30.4 ⁽² _B) 31.2 ⁽² _C) 4.20 ⁽³⁾ 25.0 ⁽⁴ _A) 8.66 ⁽⁴ _B) 11.0 ⁽⁴ _C)	583 ⁽¹⁾ 50.9 ⁽²⁾ 17.4 ⁽³⁾ 51.2 ⁽⁴⁾ 671 ^(P1)
PRECISE VCMMGVCT MMRBOX (20241122)	805 ⁽¹⁾ 1460 ⁽²⁾ 946 ⁽³⁾ 33 800 ^(P1)	10.5 ⁽¹⁾ 965 ⁽² _A) 69.3 ⁽² _B) 105 ⁽² _C) 7.13 ⁽³⁾ 90.4 ⁽⁴ _A) 30.8 ⁽⁴ _B) 34.4 ⁽⁴ _C)	66 600 ⁽¹⁾ 6210 ⁽²⁾ 1690 ⁽³⁾ 6200 ⁽⁴⁾ 60 000 ^(P1)

Notes:

- CPU1, CPU2, CPU3 and GPU1, GPU3 versions were tested on the Ubuntu 22.04.1 LTS x86_64.
- ARM1 version was tested on the Ubuntu 22.04.1 LTS armv7l.
- ARM2 version was tested on the Jetpack 4.6 running in power mode 0.
- ARM3 version was tested on the Jetpack 6.0 running in power mode 0.
- All tests were done on library versions without licensing protection. With Developer's License (Limited Count) descriptor calculation (*EdfComputeDesc*) takes 25ms longer regardless of platform. That's how long it takes to decrease one count from the HL key. This slowdown does not affect deployment license.

5.3 Category Specification

Categories are defined in Developer's Guide (chapter Task category).

5.3.1 License plate-based detection

Category	Frontal Clas-	Rear Classi-	Frontal	Rear Make	Frontal	Rear Color
	sification	fication	Make	Available	Color	Available
			Available		Available	
BUS	BUS	BUS	YES	YES	YES	YES
CAR	CAR	CAR	YES	YES	YES	YES
CYCLE	_	CYCLE	_	NO	_	NO
HVT	HVT	TRUCK	YES	_	YES	_
LGT	LGT	TRUCK	YES	_	YES	_
MTB	MTB	MTB	NO	NO	NO	NO
SPECIAL	SPECIAL	SPECIAL	YES	YES	YES	YES
TO12	TO12*	TO12	_	NO	_	YES
TO34	TO34*	TRUCK	_	_	_	_
TRUCK	_	TRUCK	_	NO	_	YES
VAN	VAN	VAN	YES	YES	YES	YES

Table 1: Classification availability for vehicle category in frontal and rear view.

^{*} Only recognized if they have frontal license plate, which they typically do not have.

 ⁻ category classification is not supported in current view

NO - category classification is supported but make/color is not available

5.3.2 Road user-based detection

Category	Classification	Make Available	Color Available
ANIMAL	ANIMAL	NO	NO
BUS	BUS	YES	YES
CAR	CAR	YES	YES
CYCLE	CYCLE	NO	NO
HVT	HVT for all views except rear exact (TRUCK for rear exact)	YES except for rear ex- act view	YES
KICKBIKE	KICKBIKE	NO	NO
LGT	LGT for all views except rear exact (TRUCK for rear exact)	YES except for rear exact view	YES
LUGGAGE	LUGGAGE	NO	NO
MTB	MTB	NO	NO
PEDESTRIAN	PEDESTRIAN	NO	NO
SPECIAL	SPECIAL	YES	YES
TO12	TO12	NO	YES
TO34	TO34 for all views except rear exact (TRUCK for rear exact)	NO	YES
TROLLEY	TROLLEY	NO	NO
TRUCK	TRUCK for rear exact view only	NO	YES
VAN	VAN	YES	YES

Table 2: Classification availability for vehicle categories in road user-based detection.

Left and right view classification is available for all categories with the exception of TRUCK. However, the left and right view does not support make classification.

5.3.3 ANIMAL category

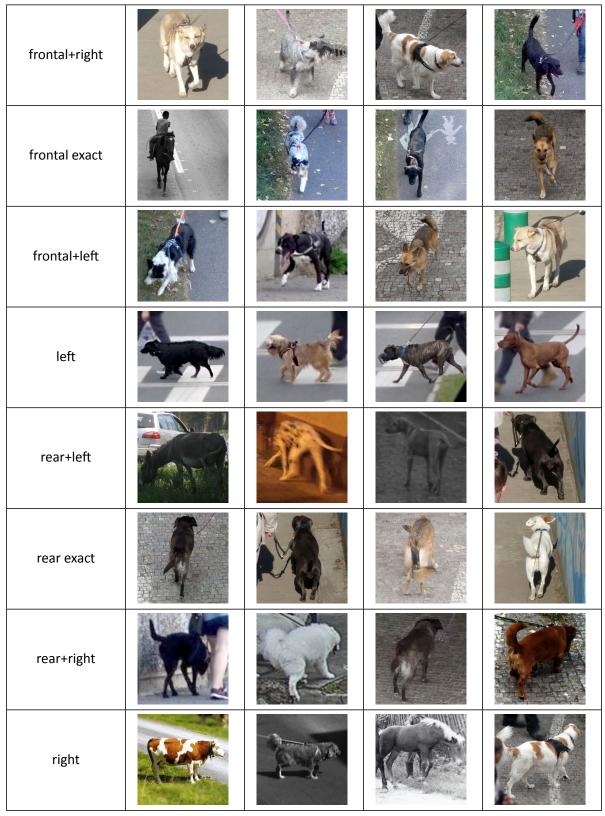


Table 3: Example images with the ANIMAL category from all supported views.

5.3.4 BUS category



Table 4: Example images with the BUS category from all supported views.



5.3.5 CAR category



Table 5: Example images with the CAR category from all supported views.



5.3.6 CYCLE category

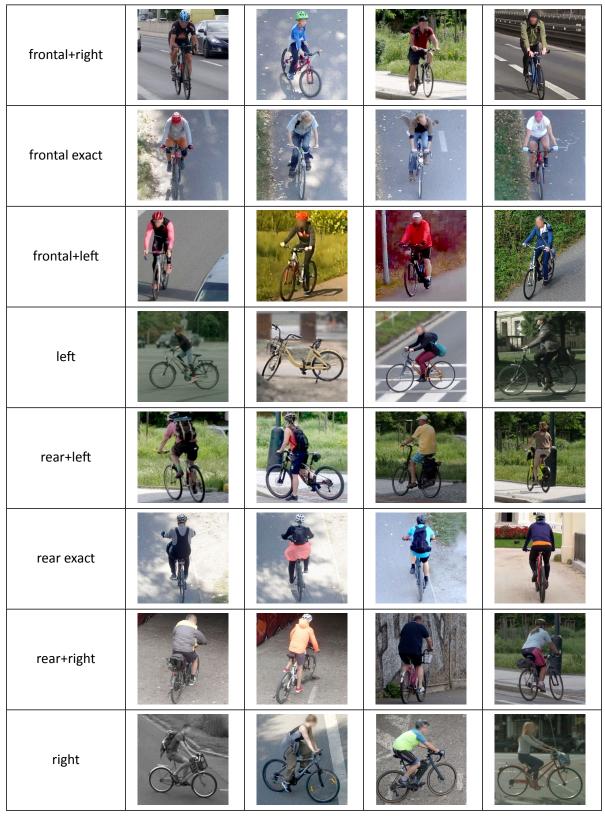


Table 6: Example images with the CYCLE category from all supported views.



5.3.7 HVT category

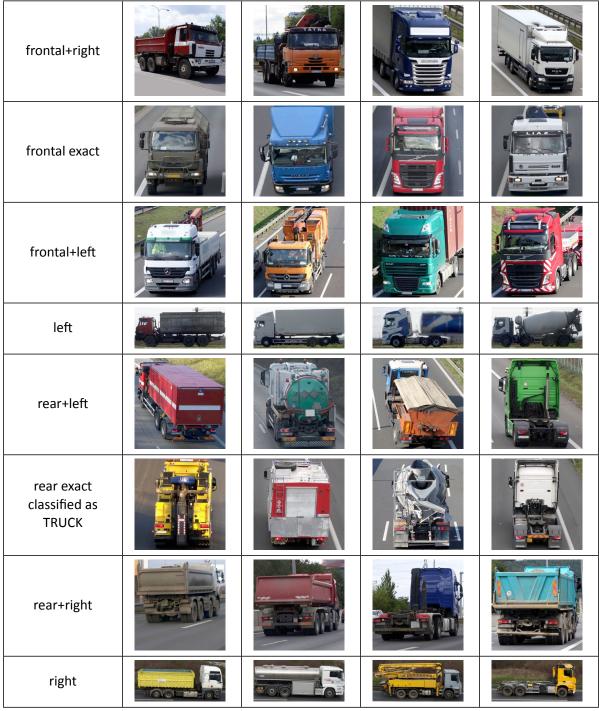


Table 7: Example images with the HVT category from all supported views.

5.3.8 KICKBIKE category

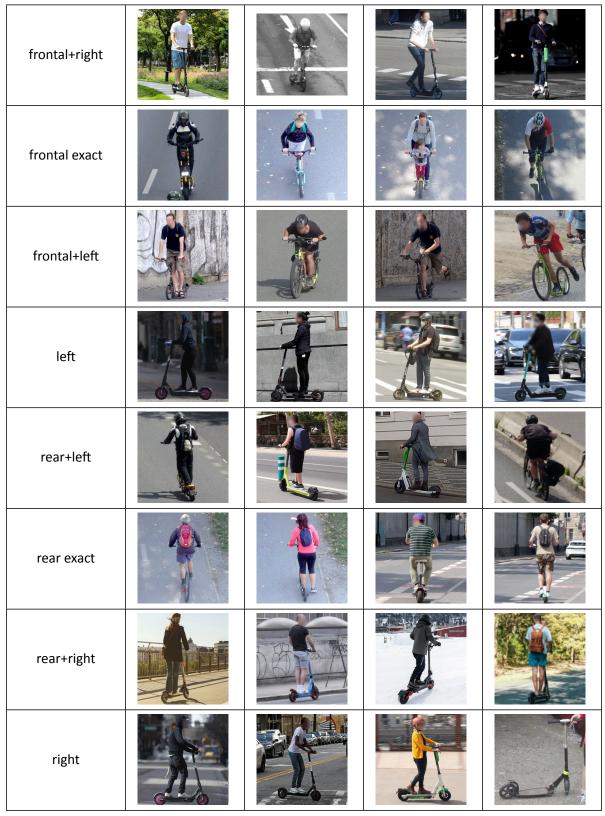


Table 8: Example images with the KICKBIKE category from all supported views.

5.3.9 LGT category



Table 9: Example images with the LGT category from all supported views.

5.3.10 LUGGAGE category



Table 10: Example images with the LUGGAGE category.

5.3.11 MTB category

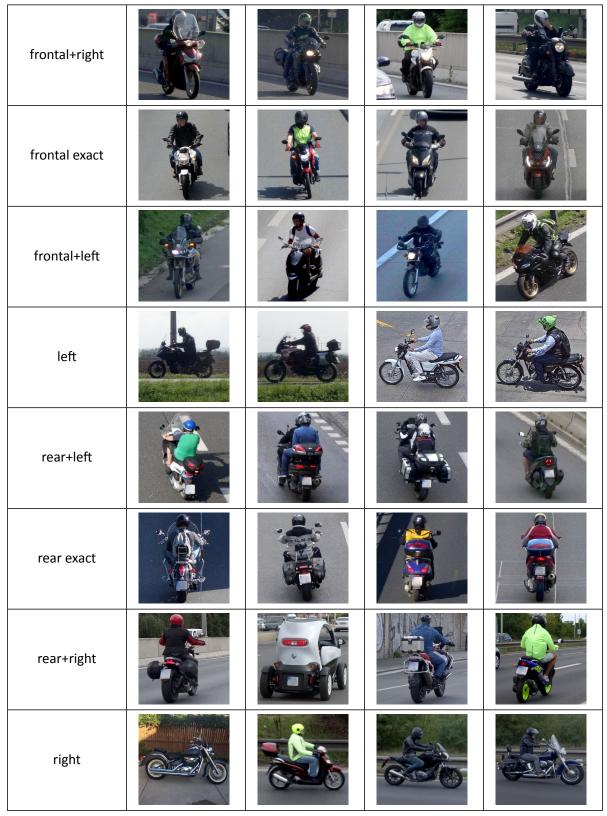


Table 11: Example images with the MTB category from all supported views.



5.3.12 PEDESTRIAN category

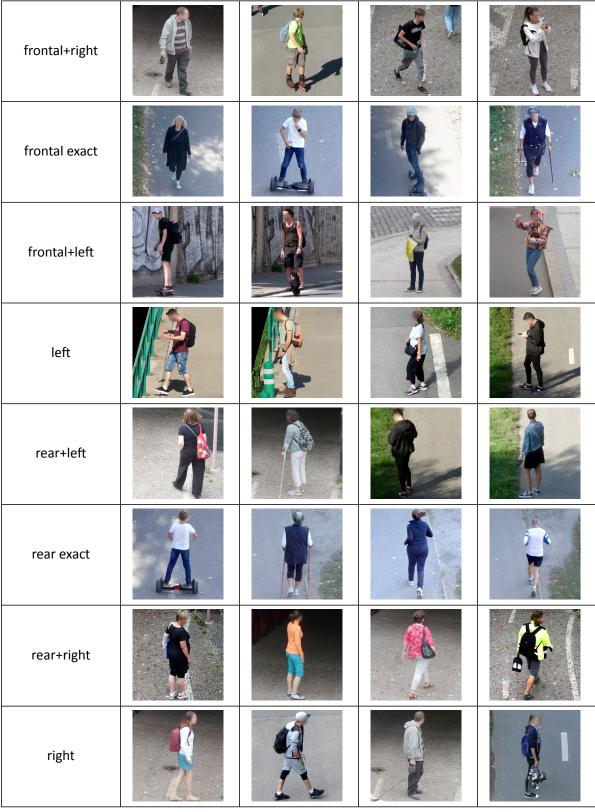


Table 12: Example images with the PEDESTRIAN category from all supported views.

5.3.13 SPECIAL category

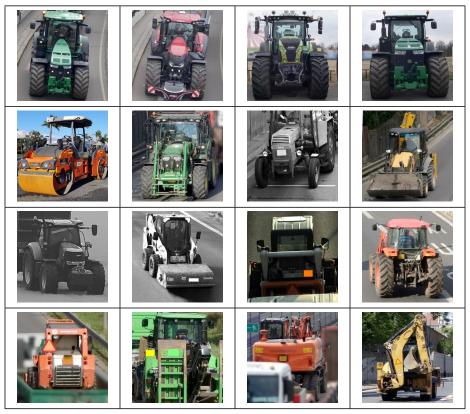


Table 13: Example images with the SPECIAL category.

5.3.14 TO12 category



Table 14: Example images with the TO12 category from all supported views.



5.3.15 TO34 category

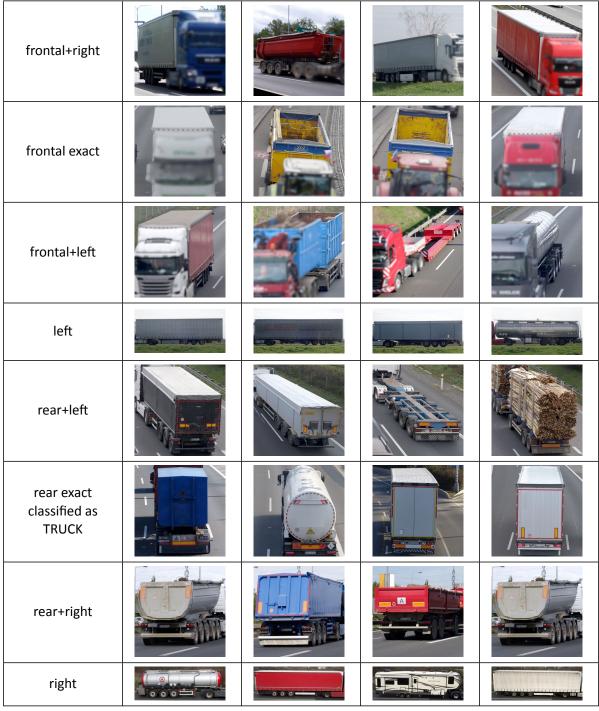


Table 15: Example images with the TO34 category from all supported views.

5.3.16 TROLLEY category

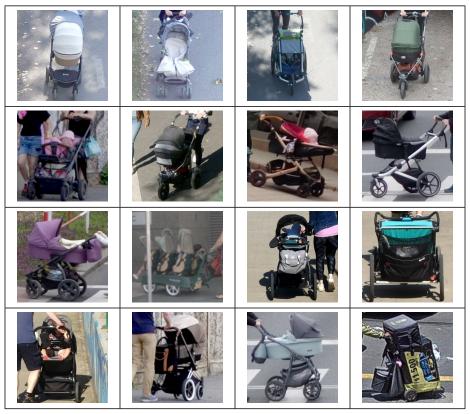


Table 16: Example images with the TROLLEY category.

5.3.17 VAN category

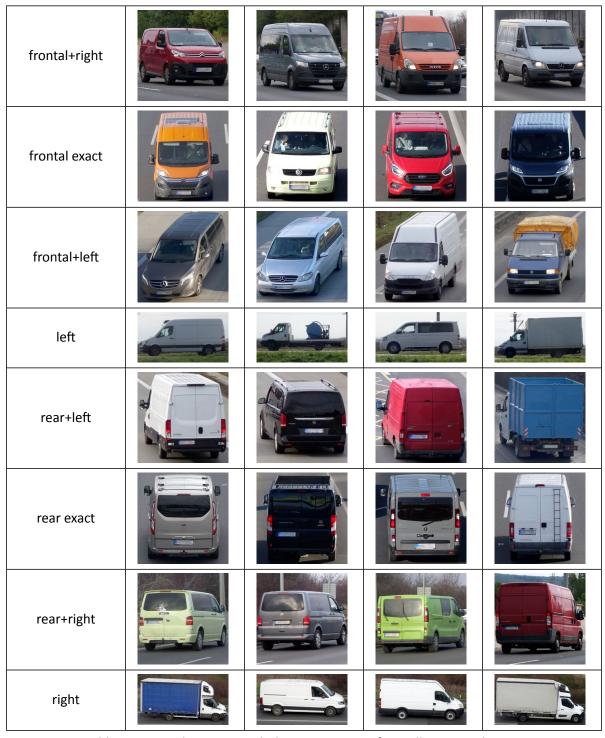


Table 17: Example images with the VAN category from all supported views.

5.4 Make Availability

Make	Frontal Model Available	Rear Model Available
Acura	YES	YES
Adria	YES	YES
Aero	YES	YES
AITO	YES	YES
Aiways	YES	YES
Aixam	YES	YES
Akia	YES	YES
Alexander Dennis	YES	YES
Alfa Romeo	YES	YES
Alpheon	YES	YES
Alpine	YES	YES
Ankai	YES	YES
ARI	YES	YES
Ariel	YES	YES
ARO	YES	YES
Ashok Leyland	YES	YES
Aston Martin	YES	YES
Astra	YES	NO
Audi	YES	YES
Autosan	YES	YES
AutoTrail	YES	YES
Avatr	YES	YES
AVIA	YES	NO
BAIC	YES	YES
Baojun	YES	YES
Bavaria	YES	YES
BeiBen Truck	YES	NO
Benimar	YES	YES
Bentley	YES	YES
Berkhof	YES	YES
Bestune	YES	YES
Beulas	YES	YES
Blue Bird	YES	YES
вмс	YES	YES
BMW	YES	YES
Bobcat	YES	YES
Brilliance	YES	YES
Bugatti	YES	YES
Buick	YES	YES

Make	Frontal Model Available	Rear Model Available
Burstner	YES	YES
Busscar	YES	YES
BYD	YES	YES
Cadillac	YES	YES
Caetano	YES	YES
САМС	YES	NO
CandC	YES	NO
Carado	YES	YES
Caravans Inter- national	YES	YES
Carthago	YES	YES
Case IH	YES	YES
Caterham	YES	YES
Caterpillar	YES	YES
Cenntro	YES	YES
Challenger	YES	YES
Changan	YES	YES
Changhe	YES	YES
Chatenet	YES	YES
Chausson	YES	YES
Chenglong	YES	NO
Chery	YES	YES
Chevrolet	YES	YES
Chien Thang	YES	YES
Chrysler	YES	YES
Citroen	YES	YES
СМС	YES	YES
Concorde	YES	YES
Cupra	YES	YES
Dacia	YES	YES
Daehan	YES	YES
Daewoo	YES	YES
DAF	YES	YES
Daihatsu	YES	YES
Datsun	YES	YES
Deepal	YES	YES
DEMAG	YES	NO
Dennis	YES	YES
Dethleffs	YES	YES
Deva	YES	NO

Dodge YES YES Dongben YES YES Dongfeng YES YES Dothanh YES YES DR YES YES DS YES YES Eagle YES YES Ellagh YES YES Elnagh YES YES Etrusco YES YES Eura Mobil YES YES Exeed YES YES Exeed YES YES Exeed YES YES Farrari YES YES Fatt YES YES Fisker YES YES Ford YES YES Frankia YES YES Frankia YES YES Freightliner YES YES Gaz YES YES Geely YES YES Gonesis YES YES Golden Dragon YES YES Golderyuz YES YES Hafei YES YES Hafei YES YES Hafei YES YES Hager YES YES	Make	Frontal Model Available	Rear Model Available
Dongfeng YES YES Dothanh YES YES DR YES YES DR YES YES Eagle YES YES Eagle YES YES Elllesk YES YES Elnagh YES YES Englon YES YES Eura Mobil YES YES Eura Mobil YES YES Eura Mobil YES YES Everus YES YES Exeed YES YES Exeed YES YES FAW YES YES Fatt YES YES Fiat YES YES Fiat YES YES Fisker YES YES Ford YES YES Ford YES YES Frond YES YES Frond YES YES Ford YES YES Ford YES YES Ford YES YES GAC YES YES Gaz YES YES Gaz YES YES Gaz YES YES Gaz YES YES Genesis YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Goupil YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Halima YES YES Heuliez Bus YES YES Hes Higer YES YES HES HES HES HES HES HES HES HES HES H	Dodge	YES	YES
Dothanh YES YES DR YES YES DS YES YES Eagle YES YES ElBlesk YES YES Elnagh YES YES Englon YES YES Etrusco YES YES Eura Mobil YES YES Everus YES YES Exeed YES YES Exeed YES YES Exeed YES YES Fatture YES YES Fatture YES YES Ford YES YES Ford YES YES Foton YES YES Freightliner YES YES Freightliner YES YES Gaz YES Gaz YES Gaz YES Genesis YES Gillig YES YES Goupil YES YES Great Wall YES YES Great Wall YES YES Haima YES YES Haima YES YES GUES GUES YES GUES GUES GUES GUES GUES GUES GUES GU	Dongben	YES	YES
DR YES YES DS YES YES Eagle YES YES Ellagh YES YES Ellagh YES YES Ellagh YES YES Elnagh YES YES Englon YES YES Eura Mobil YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES FAW YES YES Fatt YES YES Fiat YES YES Fiat YES YES Fiat YES YES Ford YES YES Ford YES YES Foton YES YES Freightliner YES YES Freightliner YES YES Gaz YES YES Gaz YES YES Gaz YES YES Geely YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Great Wall YES YES Great Wall YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Helliger YES YES Higer YES YES HES Higer YES YES HES Higer YES YES	Dongfeng	YES	YES
DS YES YES Eagle YES YES Elblesk YES YES Elnagh YES YES Englon YES YES Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES FAW YES YES Fatt YES YES Fisker YES YES Ford YES YES Ford YES YES Ford YES YES Freightliner YES YES Freightliner YES YES Gaz YES Gaz YES Gaz YES Gaz YES Gaz YES Gaz YES Geely YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Guleryuz YES Hafei YES YES Haima YES YES Halima YES YES Heuliez Bus YES YES Higer YES YES	Dothanh	YES	YES
Eagle YES YES EIBlesk YES YES Elnagh YES YES Englon YES YES Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES Exeed YES YES Faw YES YES Farari YES YES Fiat YES YES Fisker YES YES Ford YES YES Foton YES YES Freightliner YES YES Freightliner YES YES Gaz YES YES Gaz YES YES Gaz YES YES Geely YES YES Gillig YES YES Gillig YES YES Goupil YES YES Great Wall YES YES Hafei YES YES Haima YES YES Haima YES YES Heuliez Bus YES HES Higer YES YES HES HES HES HES HES HES HES HES HES H	DR	YES	YES
ElBlesk YES YES Elnagh YES YES Englon YES YES Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES FAW YES YES Farrari YES YES Fiat YES YES Fisker YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES Gaz YES YES Gaz YES YES Geely YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Hes	DS	YES	YES
Elnagh YES YES Englon YES YES Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES Exeed YES YES Faw YES YES Farrari YES YES Fiat YES YES Fiat YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES Freightliner YES YES Gaz YES YES Gaz YES YES Geely YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Hafei YES YES Haima YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES Higer YES YES HES HES HES HES HES HES HES HES HES H	Eagle	YES	YES
Englon YES YES Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES Exeed YES YES FAW YES YES Farari YES YES Fiat YES YES Fisker YES YES Ford YES YES Ford YES YES Frond YES YES Frond YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Gely YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES Higer YES YES HES HES HES HES HES HES HES HES HES H	ElBlesk	YES	YES
Etrusco YES YES Eura Mobil YES YES Euro Liner YES YES Everus YES YES Exeed YES YES FAW YES YES Farrari YES YES Fiat YES YES Fisker YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Gely YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Great Wall YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES HES Higer YES YES HES HES HES HES HES HES HES HES HES H	Elnagh	YES	YES
Eura Mobil Euro Liner Everus Everus Exeed YES FAW YES Ferrari YES Fist Ford YES Frond YES Frond YES Frond YES Ford YES YES Ford YES YES Ford YES Ford YES YES Ford YES YES Freightliner YES YES Gaz YES YES Gaz YES YES Gaz YES YES Goldely YES YES Golden Dragon YES YES Golden Dragon YES YES Golden YES YES Golderyuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES YES Heuliez Bus YES YES YES YES Higer YES YES	Englon	YES	YES
Euro Liner Everus Everus Everus Exeed YES FAW YES FERRATI FERRATI FIST Fiat YES Ford YES Ford YES Foton YES Frankia YES Freightliner YES YES Gaz YES Gaz YES Geely YES Genesis YES GMC YES YES GMC YES YES Goupil YES Great Wall YES YES Haima YES YES YES Heuliez Bus YES YES YES YES YES YES YES YE	Etrusco	YES	YES
Everus YES YES Exeed YES YES FAW YES YES FAW YES YES Ferrari YES YES Fiat YES YES Fiat YES YES Fisker YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Gely YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES HES HES HES HES HES HES HES HES H	Eura Mobil	YES	YES
Exeed YES YES FAW YES YES FAW YES YES Ferrari YES YES Fiat YES YES Fisker YES YES Ford YES YES Ford YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Goupil YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Hawal YES YES Heuliez Bus YES YES Higer YES YES HES HES FREIGHT YES YES HES HES HES HES HES HES HES HES HES H	Euro Liner	YES	YES
FAW YES YES Ferrari YES YES Fiat YES YES Fiat YES YES Fisker YES YES Ford YES YES Foton YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Gely YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES HES HES HES HES HES HES HES HES H	Everus	YES	YES
Ferrari YES YES Fiat YES YES Fiat YES YES Fisker YES YES Ford YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES HES HES HES HES HES HES HES HES H	Exeed	YES	YES
Fiat YES YES Fisker YES YES Ford YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES HES HES HES HES HES HES HES HES HES H	FAW	YES	YES
Fisker YES YES Ford YES YES Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Hawal YES YES Heuliez Bus YES YES Higer YES YES HES HIger YES YES	Ferrari	YES	YES
Ford YES YES Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Haima YES YES Hawal YES YES Heuliez Bus YES YES HES HES Freightliner YES YES Freightliner YES YES GAC YES YES Geely YES YES Genesis YES YES Genesis YES YES GOUPIL YES YES GOUPIL YES YES Haima YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES	Fiat	YES	YES
Foton YES YES Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES HES Higer YES YES	Fisker	YES	YES
Frankia YES YES Freightliner YES YES GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Heuliez Bus YES YES Higer YES YES	Ford	YES	YES
Freightliner GAC YES YES Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES Hafei YES YES Hawal YES YES Heuliez Bus YES YES YES YES YES YES YES YE	Foton	YES	YES
GAC YES YES Gaz YES YES Geely YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Frankia	YES	YES
Gaz YES YES Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Freightliner	YES	YES
Geely YES YES Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	GAC	YES	YES
Genesis YES YES Gillig YES YES GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Gaz	YES	YES
Gillig YES YES GMC YES YES GOMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Geely	YES	YES
GMC YES YES Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Genesis	YES	YES
Golden Dragon YES YES Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Gillig	YES	YES
Goupil YES YES Great Wall YES YES Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	GMC	YES	YES
Great Wall Great Wall Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES YES Higer YES YES	Golden Dragon	YES	YES
Guleryuz YES YES Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Goupil	YES	YES
Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Great Wall	YES	YES
Hafei YES YES Haima YES YES Haval YES YES Heuliez Bus YES YES Higer YES YES	Guleryuz	YES	YES
Haval YES YES Heuliez Bus YES YES Higer YES YES		YES	YES
Heuliez Bus YES YES Higer YES YES	Haima	YES	YES
Higer YES YES	Haval	YES	YES
···ge·	Heuliez Bus	YES	YES
	Higer	YES	YES
Hino YES YES	Hino	YES	YES

Table 18: Makes availability for frontal and rear view. Part 1.



Make	Frontal Model Available	Rear Model Available
Hobby	YES	YES
Holden	YES	YES
Honda	YES	YES
Hongqi	YES	YES
Hozon	YES	YES
Hummer	YES	YES
Hunaghai	YES	YES
Hymer	YES	YES
Hyundai	YES	YES
IC Bus	YES	YES
IFA	YES	NO
Ikarus	YES	YES
IKCO	YES	YES
Indcar	YES	YES
Infiniti	YES	YES
International Trucks	YES	YES
Irisbus	YES	YES
Irizar	YES	YES
Isuzu	YES	YES
Itineo	YES	YES
Iveco	YES	YES
JAC	YES	YES
Jaguar	YES	YES
Jeep	YES	YES
Jetour	YES	YES
JMC	YES	YES
John Deere	YES	YES
Jonckheere	YES	YES
Jonway	YES	YES
Kabe	YES	YES
Kaipan	YES	YES
Kama	YES	NO
Kamaz	YES	NO
Karosa	YES	YES
Karry	YES	YES
Karsan	YES	YES
Kenbo	YES	YES
Kenworth	YES	NO
Kia	YES	YES

Make	Frontal Model Available	Rear Model Available
King Long	YES	YES
Knaus	YES	YES
KTM	YES	YES
Lada	YES	YES
Laika	YES	YES
Lamborghini	YES	YES
Lancia	YES	YES
Land Rover	YES	YES
Landwind	YES	YES
LDV	YES	YES
Leapmotor	YES	YES
LEVC	YES	YES
Lexus	YES	YES
Li Auto	YES	YES
LIAZ	YES	NO
Liebherr	YES	NO
Lifan	YES	YES
Ligier	YES	YES
Lincoln	YES	YES
LMC	YES	YES
Lotus	YES	YES
LTI	YES	YES
Lucid	YES	YES
Luxgen	YES	YES
Lynk and Co	YES	YES
МАСК	YES	NO
Magma	YES	YES
Mahindra	YES	YES
MAN	YES	YES
Maple	YES	YES
Marcopolo	YES	YES
Maserati	YES	YES
Maxus	YES	YES
Maybach	YES	YES
MAZ	YES	YES
Mazda	YES	YES
мсі	YES	YES
McLaren	YES	YES
McLouis	YES	YES

Make	Frontal Model Available	Rear Model Available
Mercedes	YES	YES
Mercury	YES	YES
MG	YES	YES
Microcar	YES	YES
Mini	YES	YES
Mitsubishi	YES	YES
Mobilvetta	YES	YES
Morelo	YES	YES
Moskvitch	YES	YES
Multicar	YES	YES
Naza	YES	YES
Neobus	YES	YES
Neoplan	YES	YES
New Flyer	YES	YES
New Holland	YES	YES
Niesmann	YES	YES
Nio	YES	YES
Nissan	YES	YES
Oldsmobile	YES	YES
Oltcit	YES	YES
Opel	YES	YES
Optare	YES	YES
Ora	YES	YES
Otokar	YES	YES
Pagani	YES	YES
PAZ	YES	YES
Perodua	YES	YES
Peterbilt	YES	NO
Peugeot	YES	YES
Piaggio	YES	YES
Pilote	YES	YES
Plaxton	YES	YES
Plymouth	YES	YES
Polestar	YES	YES
Pontiac	YES	YES
Porsche	YES	YES
Praga	YES	YES
Prevost	YES	YES
Proton	YES	YES

Table 19: Makes availability for frontal and rear view. Part 2.

Make	Frontal Model Available	Rear Model Available
Puch	YES	YES
Qoros	YES	YES
Radar	YES	YES
Rapido	YES	YES
Ravon	YES	YES
Renault	YES	YES
Rivian	YES	YES
Riviera	YES	YES
Roewe	YES	YES
Roller Team	YES	YES
Rolls-Royce	YES	YES
Rover	YES	YES
Saab	YES	YES
Samco	YES	YES
Samsung	YES	YES
Santana	YES	YES
Saturn	YES	YES
Scania	YES	YES
Scion	YES	YES
Seat	YES	YES
Secma	YES	YES
Sehol	YES	YES
Setra	YES	YES
Shacman	YES	NO
Shelby	YES	YES
Sinotruk	YES	NO
Skoda	YES	YES
Skywell	YES	YES
Smart	YES	YES
Sojen	YES	YES
Solaris	YES	YES
SOR	YES	YES
Soueast	YES	YES
Ssangyong	YES	YES

Make	Frontal Model Available	Rear Model Available
Sterling	YES	NO
Steyr	YES	NO
Streetscooter	YES	YES
Subaru	YES	YES
Sunlight	YES	YES
Sunlong	YES	YES
Sunsundegui	YES	YES
Sunwin	YES	YES
Suzuki	YES	YES
Swift	YES	YES
SWM	YES	YES
SYM	YES	YES
Tank	YES	YES
Tata	YES	YES
Tatra	YES	YES
TEDOM	YES	YES
Temsa	YES	YES
Tesla	YES	YES
Thaco	YES	YES
Thairung	YES	YES
Think	YES	YES
Thomas	YES	YES
TMT	YES	YES
Tofas	YES	YES
Togg	YES	YES
Toyota	YES	YES
TPC	YES	YES
Trabant	YES	YES
Traum	YES	YES
Triumph	YES	YES
UAZ	YES	YES
UD	YES	YES
Van Hool	YES	YES
Vauxhall	YES	YES

	Frontal	Rear
Make	Model	Model
	Available	Available
VDL	YES	YES
VEAM	YES	YES
Venucia	YES	YES
Victory	YES	YES
Vinaxuki	YES	YES
Vinfast	YES	YES
Viseon	YES	YES
Volare	YES	YES
Volgren	YES	YES
Volvo	YES	YES
Voyah	YES	YES
VPG	YES	YES
vw	YES	YES
Wartburg	YES	YES
Weinsberg	YES	YES
Weiwang	YES	YES
Weltmeister	YES	YES
Western Star	YES	NO
Westfalia	YES	YES
Wey	YES	YES
Wright	YES	YES
Wuling	YES	YES
XEV	YES	YES
XPeng	YES	YES
Youngman	YES	YES
Yuejin	YES	NO
Yutong	YES	YES
ZAZ	YES	YES
Zeekr	YES	YES
Zetor	YES	YES
ZhiDou	YES	YES
Zhongtong	YES	YES
Zotye	YES	YES
ZX Auto	YES	YES
		

Table 20: Makes availability for frontal and rear view. Part 3.

5.5 Model Availability

Make	Frontal Model Available	Rear Model Available
Acura	YES	YES
Adria	NO	NO
Aero	NO	NO
AITO	YES	YES
Aiways	YES	YES
Aixam	YES	YES
Akia	NO	NO
Alexander Dennis	YES	YES
Alfa Romeo	YES	YES
Alpheon	NO	NO
Alpine	YES	YES
Ankai	NO	NO
ARI	NO	NO
Ariel	NO	NO
ARO	NO	NO
Ashok Leyland	NO	NO
Aston Martin	YES	YES
Astra	NO	NO
Audi	YES	YES
Autosan	NO	NO
AutoTrail	NO	NO
Avatr	YES	YES
AVIA	YES	NO
BAIC	YES	YES
Baojun	NO	NO
Bavaria	NO	NO
BeiBen Truck	NO	NO
Benimar	NO	NO
Bentley	YES	YES
Berkhof	NO	NO
Bestune	YES	YES
Beulas	NO	NO
Blue Bird	NO	NO
вмс	YES	YES
BMW	YES	YES
Bobcat	NO	NO
Brilliance	YES	YES
Bugatti	NO	NO
Buick	YES	YES

Make	Frontal Model Available	Rear Model Available
Burstner	NO	NO
Busscar	NO	NO
BYD	YES	YES
Cadillac	YES	YES
Caetano	NO	NO
САМС	NO	NO
CandC	NO	NO
Carado	NO	NO
Caravans Inter- national	NO	NO
Carthago	NO	NO
Case IH	NO	NO
Caterham	NO	NO
Caterpillar	NO	NO
Cenntro	NO	NO
Challenger	NO	NO
Changan	YES	YES
Changhe	NO	NO
Chatenet	NO	NO
Chausson	NO	NO
Chenglong	YES	NO
Chery	YES	YES
Chevrolet	YES	YES
Chien Thang	NO	NO
Chrysler	YES	YES
Citroen	YES	YES
СМС	YES	YES
Concorde	NO	NO
Cupra	YES	YES
Dacia	YES	YES
Daehan	NO	NO
Daewoo	YES	YES
DAF	YES	NO
Daihatsu	YES	YES
Datsun	YES	YES
Deepal	YES	YES
DEMAG	NO	NO
Dennis	YES	YES
Dethleffs	NO	NO
Deva	NO	NO

Dodge	YES	
	TES	YES
Dongben	NO	NO
Dongfeng	YES	YES
Dothanh	NO	NO
DR	NO	NO
DS	YES	YES
Eagle	NO	NO
ElBlesk	NO	NO
Elnagh	NO	NO
Englon	NO	NO
Etrusco	NO	NO
Eura Mobil	NO	NO
Euro Liner	NO	NO
Everus	YES	YES
Exeed	NO	NO
FAW	NO	NO
Ferrari	YES	YES
Fiat	YES	YES
Fisker	YES	YES
Ford	YES	YES
Foton	YES	YES
Frankia	NO	NO
Freightliner	YES	YES
GAC	YES	YES
Gaz	YES	YES
Geely	YES	YES
Genesis	YES	YES
Gillig	NO	NO
GMC	YES	YES
Golden Dragon	NO	NO
Goupil	YES	YES
Great Wall	YES	YES
Guleryuz	NO	NO
Hafei	NO	NO
Haima	NO	NO
Haval	YES	YES
Heuliez Bus	NO	NO
Higer	NO	NO
Hino	YES	YES

Table 21: Makes with model availability for frontal and rear view. Part 1.

Make	Frontal Model Available	Rear Model Available
Hobby	NO	NO
Holden	YES	YES
Honda	YES	YES
Hongqi	YES	YES
Hozon	YES	YES
Hummer	YES	YES
Hunaghai	NO	NO
Hymer	NO	NO
Hyundai	YES	YES
IC Bus	NO	NO
IFA	NO	NO
Ikarus	YES	YES
IKCO	NO	NO
Indcar	NO	NO
Infiniti	YES	YES
International Trucks	YES	YES
Irisbus	YES	YES
Irizar	YES	YES
Isuzu	YES	YES
Itineo	NO	NO
lveco	YES	YES
JAC	YES	YES
Jaguar	YES	YES
Jeep	YES	YES
Jetour	YES	YES
JMC	YES	YES
John Deere	NO	NO
Jonckheere	NO	NO
Jonway	NO	NO
Kabe	NO	NO
Kaipan	NO	NO
Kama	NO	NO
Kamaz	NO	NO
Karosa	NO	NO
Karry	NO	NO
Karsan	NO	NO
Kenbo	NO	NO
Kenworth	YES	NO
Kia	YES	YES

Make	Frontal Model Available	Rear Model Available
King Long	NO	NO
Knaus	NO	NO
KTM	YES	YES
Lada	YES	YES
Laika	NO	NO
Lamborghini	YES	YES
Lancia	YES	YES
Land Rover	YES	YES
Landwind	NO	NO
LDV	YES	YES
Leapmotor	NO	NO
LEVC	NO	NO
Lexus	YES	YES
Li Auto	YES	YES
LIAZ	NO	NO
Liebherr	NO	NO
Lifan	NO	NO
Ligier	YES	YES
Lincoln	YES	YES
LMC	NO	NO
Lotus	YES	YES
LTI	NO	NO
Lucid	YES	YES
Luxgen	YES	YES
Lynk and Co	YES	YES
МАСК	YES	NO
Magma	YES	YES
Mahindra	YES	YES
MAN	YES	YES
Maple	NO	NO
Marcopolo	NO	NO
Maserati	YES	YES
Maxus	YES	YES
Maybach	NO	NO
MAZ	NO	NO
Mazda	YES	YES
мсі	NO	NO
McLaren	NO	NO
McLouis	NO	NO

Make	Frontal Model Available	Rear Model Available					
Mercedes	YES	YES					
Mercury	YES	YES					
MG	YES	YES					
Microcar	NO	NO					
Mini	YES	YES					
Mitsubishi	YES	YES					
Mobilvetta	NO	NO					
Morelo	NO	NO					
Moskvitch	NO	NO					
Multicar	NO	NO					
Naza	NO	NO					
Neobus	NO	NO					
Neoplan	YES	YES					
New Flyer	NO	NO					
New Holland	NO	NO					
Niesmann	NO	NO					
Nio	YES	YES					
Nissan	YES	YES					
Oldsmobile	YES	YES					
Oltcit	NO	NO					
Opel	YES	YES					
Optare	YES	YES					
Ora	YES	YES					
Otokar	YES	YES					
Pagani	NO	NO					
PAZ	NO	NO					
Perodua	NO	NO					
Peterbilt	YES	NO					
Peugeot	YES	YES					
Piaggio	NO	NO					
Pilote	NO	NO					
Plaxton	YES	YES					
Plymouth	YES	YES					
Polestar	YES	YES					
Pontiac	YES	YES					
Porsche	YES	YES					
Praga	YES	NO					
Prevost	NO	NO					
Proton	YES	YES					

Table 22: Makes with model availability for frontal and rear view. Part 2.

Make	Frontal Model Available	Rear Model Available
Puch	NO	NO
Qoros	YES	YES
Radar	YES	YES
Rapido	NO	NO
Ravon	NO	NO
Renault	YES	YES
Rivian	YES	YES
Riviera	NO	NO
Roewe	NO	NO
Roller Team	NO	NO
Rolls-Royce	YES	YES
Rover	YES	YES
Saab	YES	YES
Samco	YES	YES
Samsung	YES	YES
Santana	NO	NO
Saturn	YES	YES
Scania	YES	YES
Scion	YES	YES
Seat	YES	YES
Secma	NO	NO
Sehol	NO	NO
Setra	YES	YES
Shacman	NO	NO
Shelby	NO	NO
Sinotruk	YES	NO
Skoda	YES	YES
Skywell	YES	YES
Smart	YES	YES
Sojen	NO	NO
Solaris	NO	NO
SOR	YES	YES
Soueast	NO	NO
Ssangyong	YES	YES

Make	Frontal Model Available	Rear Model Available
Sterling	NO	NO
Steyr	NO	NO
Streetscooter	NO	NO
Subaru	YES	YES
Sunlight	NO	NO
Sunlong	NO	NO
Sunsundegui	NO	NO
Sunwin	NO	NO
Suzuki	YES	YES
Swift	NO	NO
SWM	NO	NO
SYM	NO	NO
Tank	NO	NO
Tata	YES	YES
Tatra	YES	YES
TEDOM	NO	NO
Temsa	YES	YES
Tesla	YES	YES
Thaco	YES	YES
Thairung	NO	NO
Think	NO	NO
Thomas	NO	NO
TMT	NO	NO
Tofas	YES	YES
Togg	YES	YES
Toyota	YES	YES
TPC	NO	NO
Trabant	NO	NO
Traum	NO	NO
Triumph	NO	NO
UAZ	YES	YES
UD	NO	NO
Van Hool	NO	NO
Vauxhall	YES	YES

Make	Frontal Model Available	Rear Model Available						
VDL	YES	YES						
VEAM	YES	YES						
Venucia	NO	NO						
Victory	NO	NO						
Vinaxuki	NO	NO						
Vinfast	YES	YES						
Viseon	NO	NO						
Volare	NO	NO						
Volgren	YES	YES						
Volvo	YES	YES						
Voyah	YES	YES						
VPG	YES	YES						
vw	YES	YES						
Wartburg	YES	YES						
Weinsberg	NO	NO						
Weiwang	YES	YES						
Weltmeister	NO	NO						
Western Star	NO	NO						
Westfalia	NO	NO						
Wey	YES	YES						
Wright	YES	YES						
Wuling	NO	NO						
XEV	NO	NO						
XPeng	YES	YES						
Youngman	NO	NO						
Yuejin	NO	NO						
Yutong	NO	NO						
ZAZ	NO	NO						
Zeekr	YES	YES						
Zetor	NO	NO						
ZhiDou	NO	NO						
Zhongtong	NO	NO						
Zotye	YES	YES						
ZX Auto	NO	NO						

Table 23: Makes with model availability for frontal and rear view. Part 3.



6 Camera Installation Examples

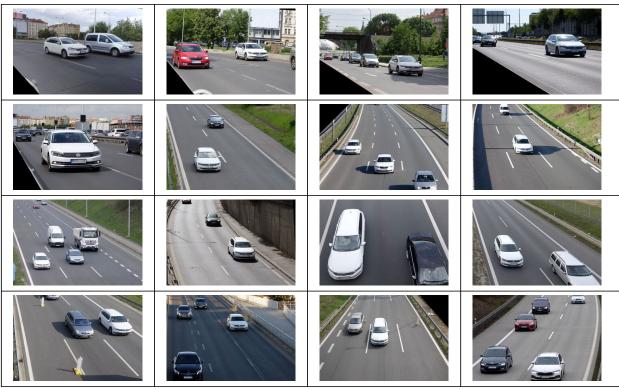


Table 24: Example images from a frontal camera. Camera can be installed also in a mirrored case.

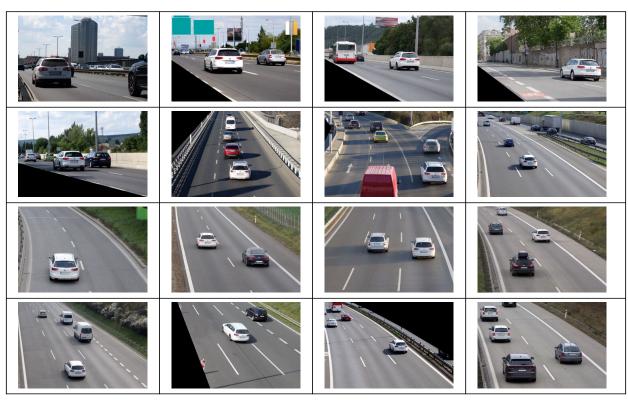


Table 25: Example images from a rear camera. Camera can be installed also in a mirrored case.



A Benchmarks

Benchmark results are reported for selected testing sets. Reported quantities are explained in Benchmark Description. Color results are evaluated only on day-shot images.



A.1 Benchmark Description Set 60 Qatar 2014-2021

Country: Qa 2 View: front 3 nd rear Year: 201 4)21

Illumination: day 5 night Color: color 6 d gray

Class	7	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles 8		3813	3813	3813	3813	3813	3813	3813	3811
Annotation failed	9	0	0	7	60	65	65	65	32
Annotation unfinished 10		0	0	0	0	0	73	73	0
Evaluated vehicles	111	3813	3813	3806	3753	3748	3675	3675	3779
Evaluated verifices		100.0%	100.0 %	99.8%	98.4%	98.3 %	96.4%	96.4%	99.2%

Table 26: Evaluated vehicles of set 60.

Module Name		View		View8		Category		Make		Model		Generation			Variation		Color	
12	Dtype	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Singled	Empty	Correct	Empty
MMR_VCMMGV_FAST1Q2 (20210515)	F32	99.8%	0	98.8%	0	98.6%	0	95.5%	235	96.4%	324	96.0%	364	93.4%	2618	455	Х	Х
MMR_VCMMGV_PREC_2021Q2 (20210517)	D8	99.9%	0	99.1%	0	99.2%	1	98.0%	252	99.0%	332	99.1%	353	98.6%	2641	452	Х	Х
MMR_COLOR_FAST_2021Q2 (20210521)	F32	×	×	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	×	Х	83.4%	0
MMR_COLOR_PREC_2021Q2 (20210523)	(13)	(14)	(15)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	(16)	Х	86.7%	0

Table 27: Classification results of set 60.

- 1 Set name Name of the benchmark.
- 2 Country Specifies country of acquisition of images used in benchmark.
- 3 View Specifies whether frontal or rear images were used in benchmark.
- 4 Year Specifies date of acquisition of images used in benchmark.
- 5 Illumination Specifies whether dayshots or nightshots were used in benchmark.
- 6 Color Specifies whether color or gray (infra) images were used in benchmark.
- 7 Class Columns of this row are types of SDK responses.
- 8 Total vehicles Number of vehicles in the benchmark.
- 9 **Annotation failed** Number of vehicles where annotation was not successful. This can happen in bad weather conditions, bad quality of images or occlusion.
- 10 Annotation unfinished Number of vehicles where annotation is not yet finished.
- 11) Evaluated vehicles Number of actually evaluated vehicles, considering failed and unfinished annotation.
- **12 Module Name** Name of the .dat file evaluated.
- Dtype Data type used for representing numerical values in the computations. F32 (Float32): 32-bit floating point, D8 (Uint8): 8-bit unsigned integer.
- **Correct** Percentage given by following formula. Number of cases where the annotation value is the same as SDK response except those where SDK response is empty, divided by number of evaluated vehicles except those where SDK response is empty.
- **Empty** The SDK response is empty. This can happen in cases when classification is not supported (e.g. make for TRUCK category), in cases when model is not supported for make in question, or in cases of error.
- **Singled** For variation only. The car in question does not have any possible variation, and the SDK response is empty.



Set 19 - Belgium 2020

Country: Belgium View: frontal Year: 2020

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1201	1201	1201	1201	1201	1201	1201	0
Annotation failed	0	0	1	45	83	90	90	0
Annotation unfinished	0	200	0	0	0	0	0	0
Evaluate dividision	1201	1001	1200	1156	1118	1111	1111	0
Evaluated vehicles	100%	83.3 %	99.9%	96.3%	93.1%	92.5%	92.5%	0.0%

Table 28: Evaluated vehicles of set 19.

Mandrida Nama	D4:	View		View8		Category		Make		Model		Generation			Variation		Color	
Module Name	Dtype	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Empty	Correct	Singled	Empty	Correct	Empty
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.8%	0	Х	Х	99.6%	0	99.4%	0	99.2%	1	99.0%	2	97.0%	936	7	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.4%	0	99.5%	0	99.5%	3	99.5%	4	99.4%	939	3	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.9%	0	Х	Х	99.3%	0	100%	0	99.6%	1	99.5%	3	98.8%	938	5	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.2%	0	99.9%	0	99.6%	2	99.5%	2	99.4%	939	2	Х	Х

Table 29: Classification results of set 19.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1052	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	117

Table 30: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 31: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 19.

	ATED							ш		35		SIAN						
Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1050	0	0	0	0	0	0	0	0	0	0	0	0	6
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	117

Category confusion matrix of set 19.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1049	0	0	0	0	0	0	0	0	0	0	0	0	7
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	117

Table 32: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 33: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 19.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1047	0	1	0	0	0	0	0	0	0	0	0	0	8
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118

Category confusion matrix of set 19.



Set 20 - Belgium 2020

Country: Belgium Year: 2020 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1137	1137	1137	1137	1137	1137	1137	0
Annotation failed	0	0	1	22	25	27	28	0
Annotation unfinished	0	300	0	0	0	0	0	0
5 1 . 1 . 1 . 1	1137	837	1136	1115	1112	1110	1109	0
Evaluated vehicles	100 %	73.6%	99.9 %	98.1%	97.8%	97.6%	97.5%	0.0%

Table 34: Evaluated vehicles of set 20.

Mandada Nasan	D4:	Vie		Vie	w8	Cate	gory	Ma	ike	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.1%	0	Х	Х	99.5%	0	97.8%	30	97.9%	42	96.2%	49	96.0%	495	12	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.4%	0	Х	Х	99.7%	1	97.9%	31	97.9%	40	96.7%	49	96.6%	500	16	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.8%	0	Х	Х	99.6%	0	99.4%	31	99.2%	35	98.1%	37	98.0%	497	6	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.5%	0	Х	Х	99.7%	0	99.0%	32	99.2%	37	98.4%	41	99.0%	502	8	Х	Х

Table 35: Classification results of set 20.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	984	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	24	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	116

Category confusion matrix of set 20.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	TGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	985	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	25	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	116

Table 36: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 37: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 20.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	985	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	115

Table 38: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 39: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 20.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	984	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	1
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	117

Category confusion matrix of set 20.



Set 29 - Saudi Arabia 2019 **A.4**

Country: Saudi Arabia Year: 2019 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	436	436	436	436	436	436	436	436
Annotation failed	0	0	0	5	6	9	9	176
Annotation unfinished	0	283	0	0	0	0	0	0
Free locate al contributor	436	153	436	431	430	427	427	260
Evaluated vehicles	100 %	35.1%	100 %	98.9%	98.6%	97.9%	97.9%	59.6%

Table 40: Evaluated vehicles of set 29.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	98.6%	0	95.5%	188	97.0%	194	97.8%	198	98.4%	364	2	80.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	98.9%	0	95.9%	190	97.4%	196	98.3%	198	98.4%	364	2	81.9%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.5%	1	97.9%	191	97.5%	194	97.8%	196	98.4%	364	2	83.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.1%	0	97.5%	190	98.3%	195	97.8%	195	98.4%	364	2	83.8%	0

Table 41: Classification results of set 29.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	233	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	188	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 42: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 43: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 29.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	TGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR		0	0	0	0	234	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	189	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Category confusion matrix of set 29.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	234	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Category confusion matrix of set 29.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	234	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	190	1
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 44: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 45: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 29.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	1	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	1	0	0	0	0	1	0	0
GRAY		0	0	1	0	1	60	0	0	0	7	4	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	2	0	1	0
WHITE		0	0	0	0	0	25	0	0	2	103	1	0
BLACK		0	0	1	1	0	5	0	0	0	0	42	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 29.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	1	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	1	0	0	0	0	1	0	0
GRAY	0	0	1	0	0	60	0	0	0	7	5	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	2	0	1	0
WHITE	0	0	0	0	0	23	0	0	0	107	1	0
BLACK	0	0	0	0	0	5	0	0	1	0	43	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 46: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 47: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 29.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	1	0	0	0	0	0	0
BROWN	0	0	0	0	0	1	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	1	0	1
GRAY	0	0	1	0	0	58	0	0	0	10	4	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	2	0	1	0
WHITE	0	0	0	0	0	18	0	0	0	113	0	0
BLACK	0	0	0	0	0	3	0	0	0	1	45	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 48: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 49: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 29.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	0	0	0	1	0	0	0	0	0	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	1	0	0	0	0	1	0	0
GRAY		0	0	0	0	0	63	0	0	0	6	4	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	2	0	1	0
WHITE		0	0	0	0	1	23	0	0	0	107	0	0
BLACK		0	0	0	0	1	3	0	0	0	0	45	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 29.



A.5 Set 30 - Italy 2019

Country: Italy View: frontal Year: 2019

Illumination: night Color: color

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	56	56	56	56	56	56	56	0
Annotation failed	0	0	5	56	56	56	56	0
Annotation unfinished	0	56	0	0	0	0	0	0
Evel-rated vehicles	56	0	51	0	0	0	0	0
Evaluated vehicles	100 %	0.0%	91.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Table 50: Evaluated vehicles of set 30.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ike	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	98.0%	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	98.0%	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	94.1%	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

Table 51: Classification results of set 30.

Set 32 - Saudi Arabia 2019-2020 **A.6**

Country: Saudi Arabia View: frontal Year: 2019-2020

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	160	160	160	160	160	160	160	101
Annotation failed	0	0	0	2	7	11	11	0
Annotation unfinished	0	134	0	0	0	0	0	0
Free locate al contributor	160	26	160	158	153	149	149	101
Evaluated vehicles	100 %	16.2%	100 %	98.8%	95.6%	93.1%	93.1%	100 %

Table 52: Evaluated vehicles of set 32.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.4%	0	98.7%	0	98.7%	3	97.2%	5	100%	139	1	81.2%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	98.7%	0	98.7%	1	98.6%	3	100%	139	0	79.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	99.3%	1	98.6%	2	100%	139	1	77.2%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	100%	0	100%	0	99.3%	0	98.6%	1	100%	139	0	79.2%	0

Table 53: Classification results of set 32.

Label Sabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	16	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Table 54: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 55: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 32.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Category confusion matrix of set 32.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Table 56: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 57: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 32.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Category confusion matrix of set 32.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	1	0	0	0	0	0	0	0	1	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	0	0	0	0	0	1	0	0
GRAY		0	0	0	0	0	18	1	0	0	10	1	0
GREEN		0	0	1	0	0	3	5	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	5	0	1	0
WHITE		0	0	0	1	0	5	0	0	0	85	0	0
BLACK		0	0	0	0	0	2	0	0	0	0	17	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 32.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	2	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	1	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	1	0	0
GRAY	0	0	0	0	0	18	0	0	0	12	0	0
GREEN	0	0	0	0	0	6	1	0	0	1	1	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	5	0	1	0
WHITE	0	0	0	0	0	8	0	0	0	81	2	0
BLACK	0	0	0	0	0	2	0	0	0	0	17	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 58: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 59: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 32.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	2	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	1	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	1	0	0
GRAY	0	0	0	0	0	21	1	0	0	8	0	0
GREEN	0	0	1	1	1	4	0	0	0	2	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	0
WHITE	0	0	0	0	0	9	0	0	1	81	0	0
BLACK	0	0	0	0	0	5	0	0	1	0	13	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 60: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 61: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 32.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1	0	0	0	0	0	0	0	1	0
BROWN	0	0	0	0	0	1	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	1	0	0
GRAY	0	0	0	0	0	21	1	0	0	8	0	0
GREEN	0	0	0	0	0	7	1	0	0	1	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	0
WHITE	0	0	0	0	0	8	0	0	0	83	0	0
BLACK	0	0	0	0	0	2	0	0	0	0	17	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 32.



Set 33 - Saudi Arabia 2020

Country: Saudi Arabia Year: 2020 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	273	273	273	273	273	273	273	205
Annotation failed	0	0	1	5	7	10	10	76
Annotation unfinished	0	237	0	0	0	0	0	0
Evelvete divibile	273	36	272	268	266	263	263	129
Evaluated vehicles	100 %	13.2%	99.6%	98.2%	97.4%	96.3%	96.3%	62.9%

Table 62: Evaluated vehicles of set 33.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.3%	0	94.7%	41	94.5%	47	94.3%	51	90.4%	209	2	82.2%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.6%	0	Х	Х	99.6%	0	96.4%	43	96.8%	47	96.2%	51	93.9%	209	5	86.8%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.6%	0	Х	Х	99.6%	0	96.5%	42	98.1%	50	96.7%	52	95.8%	211	4	81.4%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.6%	0	Х	Χ	98.9%	0	97.8%	43	98.6%	46	97.2%	47	96.0%	210	3	85.3%	0

Table 63: Classification results of set 33.

Se Su	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	220	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	41	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Category confusion matrix of set 33.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	220	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	42	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 64: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 65: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 33.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	220	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	42	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 66: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 67: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 33.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	218	0	0	0	1	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	42	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Category confusion matrix of set 33.





Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	0	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	0	0	0	0	0	0	0	0	0
YELLOW		0	0	0	0	0	0	0	0	0	0	0	0
GRAY		0	0	0	0	0	41	0	0	0	12	1	0
GREEN		0	0	0	0	0	0	0	0	0	1	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	0	0	1	0
WHITE		0	0	0	0	0	9	0	0	1	81	0	0
BLACK		0	0	0	0	0	4	0	0	0	0	22	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 33.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	46	0	0	0	8	0	0
GREEN	0	0	0	0	0	0	1	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	1	0
WHITE	0	0	0	0	0	8	0	0	0	83	0	0
BLACK	0	0	0	0	0	5	0	0	0	0	21	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 68: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 69: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 33.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	40	2	0	0	12	0	0
GREEN	0	0	0	0	0	0	0	0	0	1	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	1	0
WHITE	0	0	0	0	0	8	0	0	1	82	0	0
BLACK	0	0	0	0	0	6	0	0	0	0	20	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 70: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 71: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 33.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	0	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	0	0	0	0	0	0	0	0	0
YELLOW		0	0	0	0	0	0	0	0	0	0	0	0
GRAY		0	0	0	0	0	44	0	0	0	10	0	0
GREEN		0	0	0	0	0	0	0	0	0	1	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	0	0	1	0
WHITE		0	0	0	0	0	4	0	0	0	86	1	0
BLACK		0	0	0	0	0	8	0	0	0	0	18	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 33.



Set 34 - Thailand 2019 A.8

Country: Thailand View: frontal Year: 2019

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	895	895	895	895	895	895	895	734
Annotation failed	0	0	0	1	2	4	5	0
Annotation unfinished	0	853	0	0	0	0	0	0
5 1 . 1 . 1 . 1	895	42	895	894	893	891	890	734
Evaluated vehicles	100 %	4.7%	100 %	99.9%	99.8 %	99.6%	99.4%	100 %

Table 72: Evaluated vehicles of set 34.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.8%	0	99.6%	1	98.5%	6	97.7%	12	93.1%	750	9	85.8%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	99.7%	0	99.0%	3	98.1%	6	94.9%	753	1	85.6%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.2%	5	98.2%	7	93.3%	750	5	91.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.9%	0	100%	0	99.4%	5	98.6%	6	95.6%	753	0	89.9%	0

Table 73: Classification results of set 34.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	795	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	79

Table 74: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 75: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 34.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	795	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	1	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	79

Category confusion matrix of set 34.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	Ì	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	795	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80

Table 76: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 77: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 34.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	795	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	79

Category confusion matrix of set 34.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	9	0	0	2	0	0	0	0	7	0
BROWN	0	0	0	0	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	6	3	0	0	0	3	0	0
GRAY	0	0	0	1	0	214	0	0	1	26	43	0
GREEN	0	0	0	0	0	1	1	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	8	3	7	0
WHITE	0	0	1	0	0	32	0	0	0	315	7	0
BLACK	0	0	0	0	0	4	0	0	0	2	189	0
ORANGE	0	0	0	2	0	1	0	0	2	1	1	2

Color confusion matrix of set 34.

Label S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	6	0	0	5	0	0	0	0	7	0
BROWN	0	0	0	0	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	6	3	0	0	0	2	1	0
GRAY	0	0	1	0	0	208	0	0	0	27	49	0
GREEN	0	0	0	0	0	0	1	0	0	1	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	1	0	0	7	2	7	1
WHITE	0	0	0	0	0	20	0	0	0	330	5	0
BLACK	0	0	0	0	0	3	0	0	0	2	190	0
ORANGE	0	0	0	0	0	2	0	0	3	1	1	2

Table 78: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 79: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 34.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	11	0	0	4	0	0	0	1	2	0
BROWN		0	0	0	0	0	0	0	0	0	0	1	0
YELLOW		0	0	0	0	6	4	0	0	0	2	0	0
GRAY		0	0	2	1	0	245	0	0	0	11	26	0
GREEN		0	0	0	0	0	0	1	0	0	1	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	11	2	4	1
WHITE		0	0	0	0	0	20	0	0	0	333	2	0
BLACK		0	0	0	0	0	6	0	0	1	1	187	0
ORANGE		0	0	0	3	0	1	0	0	1	1	0	3

Table 80: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 81: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 34.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	5	0	0	0	0	6	0
BROWN	0	0	0	0	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	6	5	0	0	0	1	0	0
GRAY	0	0	0	1	0	241	0	0	0	10	33	0
GREEN	0	0	0	0	0	0	2	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	10	1	6	1
WHITE	0	0	0	0	0	27	0	0	0	325	3	0
BLACK	0	0	0	0	0	3	0	0	0	1	191	0
ORANGE	0	0	0	2	1	2	0	0	0	1	0	3

Color confusion matrix of set 34.

Set 36 - Thailand 2020 A.9

Country: Thailand View: frontal Year: 2020

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1071	1071	1071	1071	1071	1071	1071	849
Annotation failed	0	0	2	15	31	38	40	0
Annotation unfinished	0	820	0	0	0	0	0	0
Evaluate dividision	1071	251	1069	1056	1040	1033	1031	849
Evaluated vehicles	100%	23.4%	99.8%	98.6%	97.1%	96.5%	96.3%	100%

Table 82: Evaluated vehicles of set 36.

NA - dula Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.5%	0	99.1%	0	98.5%	4	97.9%	11	97.1%	848	9	91.0%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	99.3%	0	98.9%	1	98.1%	6	97.8%	849	4	91.6%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.4%	0	99.7%	1	99.0%	5	98.4%	10	98.3%	848	7	92.2%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.7%	0	99.3%	3	98.6%	6	98.9%	849	5	93.1%	0

Table 83: Classification results of set 36.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1005	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	1	0	14	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	2	0	13	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31

Table 84: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 85: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 36.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1005	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	1	0	15	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31

Category confusion matrix of set 36.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1005	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	13	0	2	0	0	0	0	0	0	0	0	1
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	30

Category confusion matrix of set 36.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1005	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31

Table 86: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 87: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 36.



Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	6	0	0	4	1	0	0	0	4	0
BROWN	0	0	0	3	0	7	0	0	0	0	9	0
YELLOW	0	0	0	0	14	1	1	0	0	0	0	0
GRAY	0	0	0	1	0	246	2	0	1	24	13	0
GREEN	0	0	0	0	1	1	1	0	0	0	1	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	24	0	0	1
WHITE	0	0	1	0	0	1	0	0	0	311	0	0
BLACK	0	0	0	0	0	1	0	0	0	1	163	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	5

Table 88:	MMR_VCMMGVCT	_FAST_	2024Q2	(20240517)	module -
Color confusio	n matrix of set 36.				

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	8	0	0	4	0	0	0	0	3	0
BROWN		0	0	0	1	0	7	0	0	0	0	11	0
YELLOW		0	0	0	0	16	0	0	0	0	0	0	0
GRAY		0	0	0	0	0	251	0	0	0	20	16	0
GREEN		0	0	1	0	1	1	0	0	0	0	1	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	25	0	0	0
WHITE		0	0	0	0	0	0	0	0	0	313	0	0
BLACK		0	0	0	0	0	5	0	0	0	1	159	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	6

- Table 89: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 36.

Label C	DEPRECATE	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	10	0	0	2	2	0	0	0	1	0
BROWN	0	0	0	2	0	7	1	0	1	0	8	0
YELLOW	0	0	0	0	14	0	1	0	0	1	0	0
GRAY	0	0	4	0	0	257	1	0	0	16	9	0
GREEN	0	0	0	0	1	1	1	0	0	0	1	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	24	0	0	1
WHITE	0	0	0	0	0	0	0	0	0	313	0	0
BLACK	0	0	0	0	0	5	0	0	0	2	158	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	5

Color confusion matrix of set 36.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	9	0	0	3	1	0	0	0	2	0
BROWN	0	0	0	1	0	9	0	0	0	0	9	0
YELLOW	0	0	0	0	15	0	1	0	0	0	0	0
GRAY	0	0	1	0	0	267	1	0	0	12	6	0
GREEN	0	0	0	0	1	1	2	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	21	0	0	4
WHITE	0	0	0	0	0	1	0	0	0	312	0	0
BLACK	0	0	0	0	0	6	0	0	0	1	158	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	6

Table 90: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 91: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 36.



Set 37 - Indonesia 2020 **A.10**

Country: Indonesia View: frontal Year: 2020

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	911	911	911	911	911	911	911	888
Annotation failed	0	0	0	2	2	2	2	2
Annotation unfinished	0	773	0	0	0	0	0	0
Free locate al contribute	911	138	911	909	909	909	909	886
Evaluated vehicles	100 %	15.1%	100 %	99.8%	99.8%	99.8 %	99.8 %	99.8%

Table 92: Evaluated vehicles of set 37.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Mo	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.2%	0	Х	Х	100%	0	95.0%	729	96.0%	734	95.4%	736	77.8%	898	2	93.6%	714
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.7%	0	Х	Х	99.9%	0	95.0%	728	94.3%	735	95.3%	738	80.0%	898	1	93.6%	713
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.7%	0	Х	Х	100%	0	97.8%	729	98.9%	733	98.3%	733	100%	900	3	95.9%	714
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	X	99.9%	0	98.3%	728	98.3%	730	97.8%	730	81.8%	898	0	93.1%	713

Table 93: Classification results of set 37.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	176	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	729	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Table 94: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 95: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 37.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	176	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	1	0	0	0	0	0	728	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Category confusion matrix of set 37.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	176	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	729	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Category confusion matrix of set 37.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	176	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	1	0	0	0	0	0	728	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Table 96: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 97: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 37.





Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	20	0	55	0	0	1	0	0	0	0	1	0
BROWN	0	0	0	0	0	2	0	0	0	0	1	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	36	0	0	1	0	20	0	0	0	1	2	0
GREEN	4	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	43	0	0	0	0	0	0	0	5	0	0	0
WHITE	53	0	0	0	0	0	0	0	0	17	0	0
BLACK	134	0	0	2	0	0	0	0	0	0	64	0
ORANGE	6	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 37.

Label 5	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	20	0	53	0	0	2	0	0	0	0	2	0
BROWN	0	0	0	0	0	1	0	0	1	0	1	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	36	0	0	0	0	22	0	0	0	0	2	0
GREEN	4	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	43	0	0	0	0	0	0	0	4	0	0	1
WHITE	53	0	0	0	0	0	0	0	0	17	0	0
BLACK	134	0	0	0	0	0	0	0	0	0	66	0
ORANGE	6	0	0	0	0	0	0	0	0	0	0	1

Table 98: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 99: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 37.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	20	0	56	0	0	1	0	0	0	0	0	0
BROWN	0	0	0	1	0	2	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	36	0	0	0	0	23	0	0	0	0	1	0
GREEN	4	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	43	0	0	0	0	0	0	0	4	0	0	1
WHITE	53	0	0	0	0	0	0	0	0	17	0	0
BLACK	134	0	1	0	0	0	0	0	0	0	65	0
ORANGE	6	0	0	0	0	0	0	0	1	0	0	0

Table 100: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 101: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 37.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	20	0	52	0	0	3	0	0	0	0	2	0
BROWN	0	0	0	1	0	2	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	36	0	0	0	0	21	1	0	0	0	2	0
GREEN	4	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	43	0	0	0	0	0	0	0	4	0	0	1
WHITE	53	0	0	0	0	0	0	0	0	17	0	0
BLACK	134	0	0	0	0	1	0	0	0	0	65	0
ORANGE	6	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 37.



Set 38 - Saudi Arabia 2019 **A.11**

Country: Saudi Arabia Year: 2019 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	574	574	574	574	574	574	574	305
Annotation failed	0	0	0	0	0	4	4	0
Annotation unfinished	0	570	0	0	0	0	0	0
Free locate al contribute	574	4	574	574	574	570	570	305
Evaluated vehicles	100 %	0.7%	100 %	100 %	100 %	99.3%	99.3%	100 %

Table 102: Evaluated vehicles of set 38.

Mandala Nama	D4:	Vie		Vie	w8	Cate	gory	Ma	ike	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.8%	0	Х	Х	99.1%	0	96.9%	2	98.9%	19	98.4%	18	90.9%	556	3	87.2%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.8%	0	Х	Х	99.1%	0	96.7%	3	97.7%	13	98.0%	16	90.9%	556	3	94.8%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.5%	0	98.3%	2	99.1%	9	99.5%	10	100%	556	1	92.1%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.3%	0	98.8%	1	98.9%	5	99.3%	7	100%	556	1	94.4%	0

Table 103: Classification results of set 38.

Label U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	568	0	0	0	0	0	0	0	0	0	0	0	1	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 38.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	1	568	0	0	0	0	0	0	0	0	0	0	0	2	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 104: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 105: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 38.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	570	0	0	0	0	0	0	0	0	0	0	0	1	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 38.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	1	569	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 106: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 107: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 38.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	0	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	0	0	0	0	0	0	0	0	0
YELLOW		0	0	0	0	0	0	0	0	0	0	0	0
GRAY		0	0	0	0	0	1	0	0	0	0	0	0
GREEN		0	0	0	0	0	0	0	0	0	2	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	2	0	0	0
WHITE		0	0	0	0	0	36	1	0	0	263	0	0
BLACK		0	0	0	0	0	0	0	0	0	0	0	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Table 108: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 109: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 38.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	1	0	0	0	0	0	0
GREEN	0	0	0	0	0	1	0	0	0	1	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	2	0
WHITE	0	0	0	0	0	12	0	0	0	288	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 38.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	0	0	0	0	0	1	0
GREEN	0	0	0	0	0	1	0	0	0	1	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	2	0
WHITE	0	0	0	0	0	19	0	0	0	281	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 110: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 111: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 38.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	1	0	0	0	0	0	0
GREEN	0	0	0	0	0	1	0	0	0	0	1	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	2	0
WHITE	0	0	0	0	0	13	0	0	0	287	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 38.



Set 44 - Taiwan 2020 **A.12**

Country: Taiwan View: frontal Year: 2020

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1015	1015	1015	1015	1015	1015	1015	701
Annotation failed	0	0	4	34	54	106	106	0
Annotation unfinished	0	735	0	0	0	0	0	0
Evel-veted velotides	1015	280	1011	981	961	909	909	701
Evaluated vehicles	100%	27.6%	99.6%	96.7%	94.7%	89.6 %	89.6%	100%

Table 112: Evaluated vehicles of set 44.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	96.6%	0	90.6%	8	90.1%	94	93.0%	109	91.2%	758	26	86.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	96.7%	0	89.7%	6	92.6%	98	92.8%	90	89.2%	753	26	84.6%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	98.1%	0	95.6%	6	93.7%	55	96.1%	70	90.3%	758	7	85.9%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	98.6%	0	97.2%	5	96.0%	58	96.4%	51	93.0%	758	23	88.6%	0

Table 113: Classification results of set 44.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	43	1	0	0	0	2	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	633	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	41	0	6	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	3	0	0	1	0	157	0	0	0	0	0	0	0	0	7
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	5	0	1	0	6	0	0	0	0	0	0	0	0	103

Table 114: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 115: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 44.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	43	0	0	1	0	2	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	633	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	41	0	6	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	2	0	0	0	0	164	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	11	0	0	0	7	0	0	0	0	0	0	0	0	97
_ , , , , , , ,																		

Category confusion matrix of set 44.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	45	0	0	0	0	2	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	634	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	42	0	5	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	0	0	0	0	165	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	6	0	0	0	3	0	0	0	0	0	0	0	0	106

Category confusion matrix of set 44.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	44	1	0	0	0	2	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	633	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	44	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	167	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	109

Table 116: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 117: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 44.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	132	0	0	1	0	0	0	2	3	0
BROWN	0	0	0	0	1	0	0	0	13	1	1	0
YELLOW	0	0	0	0	23	0	0	0	1	1	0	0
GRAY	0	0	5	0	0	123	0	0	0	35	7	0
GREEN	0	0	2	0	0	0	11	0	0	6	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	1	0	0	25	2	0	0
WHITE	0	0	0	0	0	0	0	0	0	214	0	0
BLACK	0	0	1	1	0	4	2	0	0	0	74	0
ORANGE	0	0	0	0	1	0	0	0	1	0	0	5

Table 118: MMR_VCMMGVCT	_FAST_2024Q2 (20240517) module -
Color confusion matrix of set 44.	

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	130	0	0	0	0	0	1	6	1	0
BROWN	0	0	0	0	0	1	0	0	15	0	0	0
YELLOW	0	0	0	0	24	0	0	0	0	1	0	0
GRAY	0	0	7	0	0	118	0	0	0	38	7	0
GREEN	0	0	2	0	0	1	10	0	1	5	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	26	1	0	1
WHITE	0	0	1	0	0	0	0	0	0	213	0	0
BLACK	0	0	5	0	0	8	0	0	0	0	69	0
ORANGE	0	0	0	0	1	0	0	0	1	1	0	4

- Table 119: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 44.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	132	0	0	0	0	0	0	5	1	0
BROWN	0	0	0	1	0	0	0	0	14	0	1	0
YELLOW	0	0	0	0	19	2	0	0	0	4	0	0
GRAY	0	0	5	0	0	123	3	0	0	28	11	0
GREEN	0	0	4	0	0	0	13	0	0	3	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	1	0	0	0	0	0	22	2	0	3
WHITE	0	0	2	0	0	0	0	0	0	212	0	0
BLACK	0	0	1	0	0	4	0	0	0	1	76	0
ORANGE	0	0	0	0	1	0	0	0	1	0	1	4

Table 120: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 121: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 44.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	134	0	0	1	0	0	0	0	3	0
BROWN	0	0	0	0	1	0	0	0	14	0	1	0
YELLOW	0	0	1	0	24	0	0	0	0	0	0	0
GRAY	0	0	3	0	0	136	2	0	0	18	11	0
GREEN	0	0	1	0	0	0	18	0	0	1	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	1	0	0	0	0	0	20	1	0	6
WHITE	0	0	1	0	0	0	0	0	1	210	1	1
BLACK	0	0	1	0	0	5	1	0	0	0	75	0
ORANGE	0	0	0	0	1	0	0	0	1	0	0	5

Color confusion matrix of set 44.

Set 48 - Great Britain 2017-2019

Country: Great Britain View: frontal Year: 2017-2019

Illumination: day Color: color

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	48	48	48	48	48	48	48	48
Annotation failed	0	0	0	0	0	0	0	0
Annotation unfinished	0	33	0	0	0	0	0	0
	48	15	48	48	48	48	48	48
Evaluated vehicles	100 %	31.2%	100 %	100 %	100 %	100 %	100 %	100 %

Table 122: Evaluated vehicles of set 48.

NA - dula Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	97.9%	0	95.8%	0	97.9%	1	100%	37	1	87.5%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	97.9%	0	95.8%	0	95.8%	0	100%	37	1	95.8%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	97.9%	0	100%	1	100%	37	1	95.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	100%	0	97.9%	0	100%	1	100%	37	1	95.8%	0

Table 123: Classification results of set 48.

Label Se	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Table 124: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 125: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 48.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Category confusion matrix of set 48.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Table 126: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 127: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 48.

Sabel Sabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Category confusion matrix of set 48.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	7	0	0	1	0	0	0	0	0	0
BROWN		0	0	0	0	0	0	0	0	0	0	0	0
YELLOW		0	0	0	0	0	0	0	0	0	0	0	0
GRAY		0	0	1	0	0	8	0	0	0	3	0	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	6	0	0	0
WHITE		0	0	0	0	0	0	0	0	0	10	0	0
BLACK		0	0	1	0	0	0	0	0	0	0	10	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	1

Table 128: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 129: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 48.

Kabel S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	0	1	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	11	0	0	0	0	1	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	10	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	11	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 48.

Sac Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	8	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	11	1	0	0	0	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	10	0	0
BLACK	0	0	1	0	0	0	0	0	0	0	10	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Table 130: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 131: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 48.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	1	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	11	0	0	0	0	1	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	10	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	11	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 48.



Set 49 - Great Britain 2017-2020

Country: Great Britain View: rear Year: 2017-2020

Illumination: day Color: color

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	47	47	47	47	47	47	47	47
Annotation failed	0	0	0	0	0	1	1	0
Annotation unfinished	0	36	0	0	0	0	0	0
5 1 . 1 . 1 . 1	47	11	47	47	47	46	46	47
Evaluated vehicles	100 %	23.4%	100 %	100 %	100 %	97.9%	97.9%	100 %

Table 132: Evaluated vehicles of set 49.

Madula Nassa	D4		ew	Vie	w8	Cate	gory	Ma	ike	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	95.3%	4	100%	7	100%	6	95.7%	21	2	76.6%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	93.0%	4	100%	7	100%	8	95.5%	21	3	80.9%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	97.7%	4	95.2%	5	100%	7	91.3%	21	2	87.2%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	97.9%	0	97.6%	5	95.2%	5	97.5%	6	95.7%	21	2	91.5%	0

Table 133: Classification results of set 49.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

Category confusion matrix of set 49.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

Table 134: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 135: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 49.

Label 2	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

Category confusion matrix of set 49.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR		0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

Table 136: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 137: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 49.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	6	0	0	0	1	3	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	5	0	0	0
WHITE	0	0	1	0	1	1	0	0	0	11	1	0
BLACK	0	0	1	0	1	1	0	0	0	0	11	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 138: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 139: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 49.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	8	0	0	0	0	2	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	4	0	0	1
WHITE	0	0	1	0	1	0	0	0	0	12	1	0
BLACK	0	0	1	0	1	1	0	0	0	0	11	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 49.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	1	0	0	8	0	0	0	0	1	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	5	0	0	0
WHITE	0	0	1	0	0	0	0	0	1	13	0	0
BLACK	0	0	0	0	0	1	0	0	0	1	12	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 140: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 141: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 49.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	9	0	0	0	1	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	4	0	0	1
WHITE	0	0	0	0	0	0	0	0	0	15	0	0
BLACK	0	0	1	0	1	0	0	0	0	0	12	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 49.



Set 51 - United States 2020 **A.15**

Country: United States View: rear Year: 2020

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2331	2331	2331	2331	2331	2331	2331	2309
Annotation failed	0	0	0	0	0	0	0	0
Annotation unfinished	0	1867	0	0	0	0	0	0
Fredrick advisable	2331	464	2331	2331	2331	2331	2331	2309
Evaluated vehicles	100 %	19.9%	100 %	100 %	100 %	100 %	100 %	100 %

Table 142: Evaluated vehicles of set 51.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gener	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	97.9%	0	98.2%	31	97.2%	58	94.7%	2000	10	82.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	98.1%	0	98.7%	34	97.7%	51	95.6%	2003	12	83.5%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.6%	0	99.7%	11	99.0%	17	98.8%	2006	2	87.1%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	X	100%	0	99.7%	0	99.8%	9	99.6%	14	99.7%	2007	2	87.3%	0

Table 143: Classification results of set 51.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	2313	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	1	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 144: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 145: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 51.

Label	Cidss	DEPRECAIED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	2311	0	0	0	2	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	2	0	0	0	11	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	T	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4

Category confusion matrix of set 51.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2312	0	0	0	1	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4

Table 146: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 147: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 51.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2313	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Category confusion matrix of set 51.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	53	0	0	29	0	0	0	0	18	0
BROWN	0	0	0	3	2	17	0	0	0	1	1	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	5	2	0	593	0	0	1	26	16	0
GREEN	0	0	0	0	0	8	1	0	0	2	1	0
PURPLE	0	0	0	0	0	1	0	0	2	0	2	0
RED	0	0	0	13	0	12	0	0	210	5	19	13
WHITE	0	0	0	0	0	33	0	0	1	573	0	0
BLACK	0	0	12	2	0	163	0	0	0	1	467	0
ORANGE	0	0	0	0	1	0	0	0	1	1	0	3

Table 148: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 149: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 51.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	60	0	0	20	0	0	0	0	20	0
BROWN		0	0	0	2	0	20	0	0	0	1	1	0
YELLOW		0	0	0	0	1	0	0	0	0	0	0	0
GRAY		0	0	4	1	1	601	0	0	0	19	17	0
GREEN		0	0	0	0	1	8	1	0	0	1	1	0
PURPLE		0	0	0	0	0	1	0	0	1	0	3	0
RED		0	0	0	15	0	7	0	0	222	0	15	13
WHITE		0	0	1	0	0	58	0	0	0	548	0	0
BLACK	Ī	0	0	9	4	0	130	1	0	3	1	497	0
ORANGE		0	0	0	0	0	0	0	0	4	0	1	1

Color confusion matrix of set 51.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	85	0	0	10	0	0	0	0	5	0
BROWN	0	0	0	3	0	21	0	0	0	0	0	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	6	5	1	604	0	0	1	18	8	0
GREEN	0	0	0	0	1	6	4	0	0	1	0	0
PURPLE	0	0	2	0	0	0	0	0	1	0	2	0
RED	0	0	0	17	0	0	0	0	234	0	10	11
WHITE	0	0	0	1	0	23	0	0	0	583	0	0
BLACK	0	0	29	1	0	115	1	0	0	0	499	0
ORANGE	0	0	0	1	0	0	0	0	3	0	0	2

Table 150: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 151: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 51.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	71	0	0	14	0	0	0	0	15	0
BROWN	0	0	0	3	0	21	0	0	0	0	0	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	1	4	0	609	1	0	0	9	19	0
GREEN	0	0	0	0	1	4	5	0	0	0	2	0
PURPLE	0	0	1	0	0	0	0	0	1	0	3	0
RED	0	0	0	30	0	8	0	0	208	2	10	14
WHITE	0	0	1	0	0	32	0	0	0	573	1	0
BLACK	0	0	10	0	0	86	0	0	1	0	548	0
ORANGE	0	0	0	0	0	0	0	0	2	1	0	3

Color confusion matrix of set 51.



Set 61 - Germany 2021 A.16

Country: Germany View: frontal Year: 2021

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	262	262	262	262	262	262	262	196
Annotation failed	0	0	0	3	6	7	7	1
Annotation unfinished	0	58	0	0	0	0	0	0
5 1 . 1 . 1 . 1	262	204	262	259	256	255	255	195
Evaluated vehicles	100 %	77.9%	100 %	98.9%	97.7%	97.3%	97.3%	99.5%

Table 152: Evaluated vehicles of set 61.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.2%	0	98.8%	0	98.4%	3	98.4%	4	91.2%	220	1	90.8%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	98.9%	0	98.8%	0	98.0%	3	98.4%	5	93.9%	221	1	88.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.6%	0	99.6%	0	99.6%	3	99.6%	4	97.0%	222	0	92.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.2%	0	99.6%	0	98.8%	3	98.8%	4	97.0%	221	1	93.3%	0

Table 153: Classification results of set 61.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	114

Table 154: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 155: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 61.

Label i	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	113

Category confusion matrix of set 61.

Label San U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	115

Category confusion matrix of set 61.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	114

Table 156: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 157: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 61.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	11	0	0	1	0	0	0	0	1	0
BROWN		0	0	0	6	0	0	0	0	0	0	1	0
YELLOW		0	0	0	0	4	0	0	0	0	1	0	0
GRAY		0	0	2	1	0	50	0	0	0	1	1	0
GREEN		0	0	0	0	0	0	3	0	0	0	0	0
PURPLE		0	0	1	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	9	0	0	0
WHITE		0	0	0	0	0	1	0	0	0	55	0	0
BLACK		0	0	2	1	0	4	0	0	0	0	38	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	1

Table 158: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 159: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 61.

Label U	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	11	0	0	2	0	0	0	0	0	0
BROWN	0	0	0	6	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	5	0	0	0	0	0	0	0
GRAY	0	0	2	1	1	48	1	0	0	2	0	0
GREEN	0	0	0	0	0	0	3	0	0	0	0	0
PURPLE	0	0	1	0	0	0	0	0	0	0	0	0
RED	0	0	0	1	0	0	0	0	8	0	0	0
WHITE	0	0	0	0	0	2	0	0	0	54	0	0
BLACK	0	0	2	1	0	4	2	0	0	0	36	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 61.

Label S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	10	0	0	0	1	0	0	0	2	0
BROWN	0	0	0	7	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	4	0	0	0	0	1	0	0
GRAY	0	0	1	1	0	52	0	0	0	1	0	0
GREEN	0	0	0	0	0	0	3	0	0	0	0	0
PURPLE	0	0	1	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	9	0	0	0
WHITE	0	0	0	0	0	1	0	0	0	55	0	0
BLACK	0	0	2	0	0	3	0	0	0	0	40	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Table 160: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 161: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 61.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	9	0	0	1	0	0	0	0	3	0
BROWN	0	0	0	6	0	0	0	0	0	0	1	0
YELLOW	0	0	0	0	5	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	55	0	0	0	0	0	0
GREEN	0	0	0	0	0	0	3	0	0	0	0	0
PURPLE	0	0	1	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	9	0	0	0
WHITE	0	0	0	0	0	2	0	0	0	54	0	0
BLACK	0	0	1	0	0	4	0	0	0	0	40	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 61.



Set 62 - Germany 2021 A.17

Country: Germany Year: 2021 View: rear

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	238	238	238	238	238	238	238	184
Annotation failed	0	0	0	2	5	7	7	1
Annotation unfinished	0	87	0	0	0	0	0	0
Free locate al contribute	238	151	238	236	233	231	231	183
Evaluated vehicles	100 %	63.4%	100 %	99.2%	97.9 %	97.1%	97.1%	99.5%

Table 162: Evaluated vehicles of set 62.

Mandala Nama	D4:	Vie		Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.2%	0	Х	Х	99.2%	0	94.0%	20	97.1%	28	98.0%	31	97.5%	103	7	86.1%	3
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.6%	0	Х	Х	97.9%	0	94.0%	19	96.2%	25	95.6%	25	95.9%	103	6	86.7%	3
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	98.7%	0	96.8%	20	98.6%	26	99.0%	27	98.4%	103	5	91.1%	3
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	98.3%	0	96.3%	20	97.1%	23	98.5%	26	97.6%	103	4	90.6%	3

Table 163: Classification results of set 62.

Label Sabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	138	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	78

Category confusion matrix of set 62.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	137	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	1
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	77

Table 164: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 165: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 62.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	136	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	79

Category confusion matrix of set 62.

Class Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	137	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	78

Table 166: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 167: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 62.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	10	0	0	4	0	0	0	0	0	0
BROWN		0	0	0	1	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	4	0	0	0	0	0	0	0
GRAY		0	0	1	0	0	54	3	0	0	3	4	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	8	0	0	0
WHITE		0	0	0	0	0	0	0	0	0	39	0	0
BLACK		0	0	0	1	0	1	3	0	0	0	38	0
ORANGE		0	0	0	1	0	0	0	0	2	1	0	2

Table 168: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 169: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 62.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	12	0	0	1	0	0	0	0	1	0
BROWN	0	0	0	2	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	4	0	0	0	0	0	0	0
GRAY	0	0	1	2	0	53	1	0	0	5	2	1
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	7	0	0	1
WHITE	0	0	0	0	0	2	0	0	0	37	0	0
BLACK	0	0	0	0	0	1	2	0	0	0	40	0
ORANGE	0	0	0	0	0	1	0	0	3	0	0	2

Color confusion matrix of set 62.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	14	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	2	0	0	0	0	0	0
YELLOW	0	0	0	0	4	0	0	0	0	0	0	0
GRAY	0	0	1	0	0	57	2	0	1	2	2	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	6	0	0	2
WHITE	0	0	0	0	0	0	0	0	0	39	0	0
BLACK	0	0	1	1	0	1	0	0	0	0	40	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	5

Table 170: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 171: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 62.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	11	0	0	3	0	0	0	0	0	0
BROWN	0	0	0	2	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	3	0	0	0	0	0	0	1
GRAY	0	0	1	0	0	60	0	0	0	2	2	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	1	0	0	0	0	7	0	0	0
WHITE	0	0	0	0	0	1	0	0	0	38	0	0
BLACK	0	0	0	1	0	2	0	0	0	0	40	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	3

Color confusion matrix of set 62.



Set 67 - Turkey 2021 A.18

Country: Turkey View: frontal Year: 2021

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	648	648	648	648	648	648	648	0
Annotation failed	0	0	0	2	2	2	2	0
Annotation unfinished	0	93	0	0	0	0	0	0
Evel-veted velotides	648	555	648	646	646	646	646	0
Evaluated vehicles	100%	85.6%	100%	99.7%	99.7%	99.7%	99.7%	0.0%

Table 172: Evaluated vehicles of set 67.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.8%	0	99.7%	0	99.5%	4	98.4%	4	97.8%	551	2	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.4%	3	98.9%	5	97.9%	552	0	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.2%	1	98.8%	3	98.9%	552	2	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	100%	0	99.4%	1	98.6%	3	98.9%	552	0	Х	Х

Table 173: Classification results of set 67.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	446	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50

Table 174: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 175: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 67.

Label Sabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	446	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50

Category confusion matrix of set 67.

Label San Control	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	446	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50

Category confusion matrix of set 67.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	446	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	127	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50

Table 176: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 177: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 67.



Set 68 - France 2022 A.19

Country: France Year: 2022 View: any view

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	491	491	491	491	491	491	491	0
Annotation failed	0	0	2	54	54	54	54	0
Annotation unfinished	0	369	0	0	0	0	0	0
Evel-rated valida-	491	122	489	437	437	437	437	0
Evaluated vehicles	100 %	24.8%	99.6 %	89.0%	89.0%	89.0%	89.0 %	0.0%

Table 178: Evaluated vehicles of set 68.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.8%	0	Х	Х	98.8%	0	97.8%	27	98.0%	28	97.8%	31	97.4%	164	4	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	98.0%	0	97.8%	25	98.1%	26	97.3%	27	96.0%	162	2	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	98.2%	0	98.8%	26	98.8%	26	98.3%	27	97.8%	162	4	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.0%	0	99.0%	25	99.5%	28	99.8%	31	99.3%	164	5	Х	Х

Table 179: Classification results of set 68.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	330	0	0	0	0	0	0	0	1	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
VAN		0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	127

Category confusion matrix of set 68.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	Ī	0	0	0	0	329	0	0	0	0	0	0	0	1	0	0	0	0	1
CYCLE	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2
VAN	Ī	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	3	126

Table 180: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 181: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 68.

Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	330	0	0	0	0	0	0	0	1	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	5	125

Category confusion matrix of set 68.

lage Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	330	0	0	0	0	0	0	0	1	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	129

Table 182: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 183: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 68.





Set 69 - Czech Republic 2022

Country: Czech Republic View: frontal Year: 2022

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	15525	15525	15525	15525	15525	15525	15525	0
Annotation failed	0	0	16	46	78	88	90	0
Annotation unfinished	0	3414	0	0	0	0	0	0
Evel-veted velotides	15525	12111	15509	15479	15447	15437	15435	0
Evaluated vehicles	100%	78.0%	99.9%	99.7%	99.5%	99.4%	99.4 %	0.0%

Table 184: Evaluated vehicles of set 69.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.6%	40	99.5%	70	99.1%	12754	28	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.7%	44	99.5%	63	99.0%	12755	15	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	43	99.7%	56	99.2%	12752	15	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	100%	0	99.9%	0	99.8%	39	99.7%	47	99.3%	12757	9	Х	Х

Table 185: Classification results of set 69.

Se U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	228	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	12836	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	603	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	204	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1633

Table 186: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 187: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 69.

Label Sabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	228	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	12836	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	603	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	204	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1633

Category confusion matrix of set 69.

Label San J	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	228	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	12836	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	603	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	206	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1634

Table 188: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 189: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 69.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	228	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	12836	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	603	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	206	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1633

Category confusion matrix of set 69.

Set 70 - Czech Republic 2022

Country: Czech Republic Year: 2022 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	5227	5227	5227	5227	5227	5227	5227	0
Annotation failed	0	0	1	11	11	11	11	0
Annotation unfinished	0	1270	0	0	0	0	0	0
Evaluate dividision	5227	3957	5226	5216	5216	5216	5216	0
Evaluated vehicles	100%	75.7%	100 %	99.8%	99.8%	99.8%	99.8 %	0.0%

Table 190: Evaluated vehicles of set 70.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ike	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	99.8%	1	98.9%	531	99.0%	560	98.5%	581	98.2%	2125	37	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.7%	0	98.8%	521	98.9%	555	98.8%	567	98.4%	2126	24	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.8%	0	99.4%	523	99.5%	558	99.1%	564	99.0%	2127	20	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	99.3%	520	99.4%	549	99.5%	558	99.1%	2131	13	Х	Х

Table 191: Classification results of set 70.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	36	0	0	0	0	0	0	0	0	0	1	0	0	0	0
CAR	0	0	0	0	4111	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	448	4
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	539

Table 192: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 193: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 70.

Label Cass	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4111	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	441	7
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	542

Category confusion matrix of set 70.

Capel S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	4111	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	2
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	448	4
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	543

Table 194: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 195: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 70.

Sa D	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4112	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	2
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	446	6
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	544

Category confusion matrix of set 70.





Set 71 - Czech Republic 2022

Country: Czech Republic View: frontal Year: 2022

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	11089	11089	11089	11089	11089	11089	11089	0
Annotation failed	0	0	161	710	1218	2052	2061	0
Annotation unfinished	0	6097	0	0	429	389	402	0
Evel-veted velotides	11089	4992	10928	10379	9442	8648	8626	0
Evaluated vehicles	100%	45.0%	98.5%	93.6%	85.1 %	78.0%	77.8 %	0.0%

Table 196: Evaluated vehicles of set 71.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.8%	0	98.6%	4	98.1%	82	97.5%	123	94.5%	7113	68	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	98.6%	2	98.2%	79	97.7%	118	94.8%	7113	43	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.5%	4	99.2%	53	99.0%	64	97.6%	7119	36	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.5%	0	99.1%	49	98.9%	65	98.0%	7118	29	Х	Х

Table 197: Classification results of set 71.

Sse IO	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	151	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8838	0	0	0	0	0	0	0	0	0	0	0	0	6
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	2	0	0	695	0	3	0	0	0	0	0	0	0	1	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	130	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	1	0	1	0	0	0	0	0	0	0	0	1094

Table 198: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 199: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 71.

Label 3	Class	DEFRECATED	EIVIPIY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	() () (0 1	L52	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	() () (0	0	8841	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	() () (0	2	1	0	696	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	() () (0	0	0	0	1	0	130	0	0	0	0	0	0	0	0	0
LUGGAGE	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	() (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	() (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	() (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	() () (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	() () (0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1092

Category confusion matrix of set 71.

Label 3	CIGSS	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	(0	0	151	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	(0	0	0	8841	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	(0	0	1	0	0	696	0	4	0	0	0	0	0	0	0	0	0
KICKBIKE	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	(0	0	0	0	0	0	0	131	0	0	0	0	0	0	0	0	0
LUGGAGE	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	(0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1097

Table 200: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 201: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 71.

Label San Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	151	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	8841	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	698	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	130	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1095

Category confusion matrix of set 71.





Set 72 - Czech Republic 2022

Country: Czech Republic Year: 2022 View: rear

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	4358	4358	4358	4358	4358	4358	4358	0
Annotation failed	0	0	4	85	99	155	167	0
Annotation unfinished	0	2484	0	0	81	243	325	0
Free locate al control o	4358	1874	4354	4273	4178	3960	3866	0
Evaluated vehicles	100 %	43.0%	99.9 %	98.0 %	95.9%	90.9%	88.7 %	0.0%

Table 202: Evaluated vehicles of set 72.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	99.2%	3	97.1%	653	97.7%	692	97.9%	701	96.1%	1664	39	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.1%	0	97.1%	643	97.5%	687	97.5%	700	96.3%	1656	48	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.7%	0	98.9%	655	99.1%	678	98.9%	683	97.5%	1664	21	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	98.8%	658	99.0%	677	99.0%	691	97.9%	1667	29	Х	Х

Table 203: Classification results of set 72.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3155	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	1	3
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	3	0	1	4	0	0	0	0	0	0	0	0	2	0	0	587	4
VAN	0	0	0	1	4	0	0	0	0	0	0	0	0	1	0	0	8	497

Table 204: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 205: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 72.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3155	0	1	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
TO12	0	0	0	1	1	0	0	0	0	0	0	0	0	44	0	0	0	4
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	2	6	0	0	0	0	0	0	0	0	2	0	0	583	8
VAN	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	8	497

Category confusion matrix of set 72.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	3155	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	1	2
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	598	1
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	508

Table 206: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 207: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 72.

Label 5	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	3157	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	2	1
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	601	0
VAN		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	508

Category confusion matrix of set 72.





Set 73 - Czech Republic 2022

Country: Czech Republic View: frontal Year: 2022

Illumination: day Color: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	39647	39647	39647	39647	39647	39647	39647	36900
Annotation failed	0	0	0	0	2	2	5	0
Annotation unfinished	0	4482	0	0	0	0	0	0
5 1 . 1 . 1 . 1	39647	35165	39647	39647	39645	39645	39642	36900
Evaluated vehicles	100 %	88.7 %	100 %	100 %	100 %	100 %	100%	100 %

Table 208: Evaluated vehicles of set 73.

Mandada Nassa	D4	Vie	ew	Vie	w8	Cate	gory	Ma	ke	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	31	99.6%	48	99.2%	30303	32	94.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	28	99.7%	44	99.2%	30309	28	94.3%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	1	99.9%	31	99.7%	45	99.4%	30302	33	95.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	100%	0	99.9%	28	99.8%	47	99.4%	30305	26	95.6%	0

Table 209: Classification results of set 73.

Label September 1	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	26202	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	2	0	0	7843	0	5	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	939	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4576

Table 210: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 211: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 73.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	26202	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	2	0	0	7846	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	3	0	937	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4576

Category confusion matrix of set 73.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	26202	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	7844	0	4	0	0	0	0	0	0	0	1	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	938	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4576

Table 212: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 213: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 73.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	26202	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	2	0	0	7846	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	940	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4576

Category confusion matrix of set 73.





Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4435	2	0	222	27	0	3	17	153	0
BROWN	0	0	0	793	15	158	5	0	5	3	77	3
YELLOW	0	0	0	5	542	10	16	0	0	12	0	3
GRAY	0	0	104	87	19	7494	40	0	4	187	151	0
GREEN	0	0	28	4	5	44	826	0	0	11	35	0
PURPLE	0	0	1	1	0	0	0	0	0	0	6	0
RED	0	0	5	4	2	9	0	1	3756	16	17	30
WHITE	0	0	14	0	3	85	6	0	6	12940	4	0
BLACK	0	0	53	91	0	233	18	1	10	6	3801	0
ORANGE	0	0	0	3	3	0	0	0	23	0	0	261

Table 214:	MMR_VCMMGVCT_FAST_2024Q2 (20240517) module -
Color confusion	matrix of set 73.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4448	3	0	214	34	0	2	10	148	0
BROWN	0	0	0	825	15	127	4	0	4	5	78	1
YELLOW	0	0	0	9	544	14	14	0	0	7	0	0
GRAY	0	0	117	88	47	7424	68	0	8	160	173	1
GREEN	0	0	23	2	4	39	841	0	0	10	34	0
PURPLE	0	0	1	0	0	0	0	0	1	0	6	0
RED	0	0	4	5	3	8	4	0	3735	14	18	49
WHITE	0	0	27	0	8	121	6	0	3	12888	4	1
BLACK	0	0	55	84	0	205	18	2	7	3	3839	0
ORANGE	0	0	0	2	3	0	0	0	15	0	1	269

- Table 215: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 73.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4659	4	0	101	27	1	1	12	54	0
BROWN	0	0	1	881	11	93	6	0	3	6	57	1
YELLOW	0	0	0	6	559	7	2	0	0	9	0	5
GRAY	0	0	159	106	35	7519	33	0	4	126	100	4
GREEN	0	0	22	2	8	40	851	0	0	12	18	0
PURPLE	0	0	3	0	0	0	0	0	1	0	4	0
RED	0	0	4	9	0	1	4	0	3771	12	5	34
WHITE	0	0	15	0	3	43	3	0	1	12984	4	5
BLACK	0	0	104	86	0	115	22	5	13	5	3863	0
ORANGE	0	0	0	4	4	0	0	0	11	0	0	271

Table 216: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 217: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 73.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4451	0	0	215	33	3	1	19	137	0
BROWN	0	0	0	831	20	123	2	0	1	5	77	0
YELLOW	0	0	3	5	550	17	11	0	0	2	0	0
GRAY	0	0	50	64	43	7733	22	0	5	52	113	4
GREEN	0	0	11	2	11	58	835	0	0	9	27	0
PURPLE	0	0	2	0	0	0	0	0	1	0	5	0
RED	0	0	3	25	0	6	4	0	3717	11	15	59
WHITE	0	0	6	1	3	81	2	0	2	12956	4	3
BLACK	0	0	32	38	0	149	22	1	10	3	3958	0
ORANGE	0	0	0	5	4	0	0	0	6	0	0	275

Color confusion matrix of set 73.

Set 74 - Czech Republic 2022

Country: Czech Republic Year: 2022 View: rear

Illumination: day Color: color

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	30334	30334	30334	30334	30334	30334	30334	30334
Annotation failed	0	0	0	8	9	13	13	0
Annotation unfinished	0	4943	0	0	0	0	0	0
Evaluate dividision	30334	25391	30334	30326	30325	30321	30321	30334
Evaluated vehicles	100%	83.7 %	100 %	100%	100%	100%	100 %	100%

Table 218: Evaluated vehicles of set 74.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.8%	0	99.3%	6044	99.3%	6104	98.6%	6143	98.8%	13645	115	90.6%	152
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	2	99.3%	6037	99.3%	6078	99.2%	6133	99.0%	13655	97	90.7%	154
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.6%	6039	99.7%	6083	98.9%	6111	99.3%	13652	98	92.2%	152
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.6%	6039	99.7%	6087	99.6%	6119	99.4%	13657	72	91.8%	152

Table 219: Classification results of set 74.

Label	Class	DEPRECAIED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	-	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	-	0	0	0	0	21011	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	3	1
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	1	0	0	0	0	0	0	0	0	1	9	0	0	5512	7
VAN	1	0	0	0	1	4	0	0	0	0	0	0	0	0	4	0	0	14	3212

Category confusion matrix of set 74.

Label 2	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	21011	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	2	2
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	2	0	0	0	0	0	0	0	0	0	0	0	6	0	0	5516	6
VAN	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	9	3220

Table 220: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 221: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 74.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	21010	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	353	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	5522	6
VAN	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	7	3224

Category confusion matrix of set 74.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	ТО12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	21010	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	353	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	5521	6
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	10	3223

Table 222: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 223: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 74.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3321	2	1	222	33	0	17	66	97	1
BROWN	0	0	2	712	12	110	3	0	3	12	50	2
YELLOW	0	0	1	7	245	62	4	0	4	51	0	7
GRAY	0	0	108	100	20	8482	55	0	50	252	104	0
GREEN	0	0	28	8	11	76	564	0	13	31	19	0
PURPLE	0	0	5	0	0	3	0	2	1	0	0	0
RED	0	0	36	3	5	76	3	1	2511	61	25	31
WHITE	1	0	78	0	6	501	13	0	27	8246	1	8
BLACK	2	0	76	34	1	128	7	3	8	14	3103	1
ORANGE	0	0	0	2	9	3	0	0	17	6	0	154

Table 224:	MMR_VCMMGVCT_FAST_2024Q2 (20240517) module -
Color confusion	n matrix of set 74.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3285	3	1	281	28	0	14	64	83	1
BROWN	0	0	0	729	14	99	5	1	1	9	47	1
YELLOW	0	0	1	5	272	48	6	0	6	34	0	9
GRAY	0	0	104	107	40	8531	50	0	48	197	94	0
GREEN	0	0	20	2	4	65	601	0	15	23	20	0
PURPLE	0	0	5	0	0	3	0	2	1	0	0	0
RED	0	0	33	13	5	95	3	0	2492	58	23	30
WHITE	1	0	68	0	15	520	16	0	32	8216	8	5
BLACK	4	0	47	26	5	149	25	4	5	18	3094	0
ORANGE	0	0	0	1	11	3	0	0	14	4	0	158

- Table 225: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 74.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3481	2	1	145	17	0	16	52	45	1
BROWN	0	0	1	745	9	93	3	0	0	14	40	1
YELLOW	0	0	3	10	289	30	2	0	12	30	0	5
GRAY	0	0	138	101	31	8472	44	0	52	257	76	0
GREEN	0	0	26	9	7	62	595	0	17	27	7	0
PURPLE	0	0	5	0	0	3	0	2	1	0	0	0
RED	0	0	20	3	4	83	3	0	2539	58	14	28
WHITE	1	0	64	3	6	349	5	0	30	8419	0	4
BLACK	2	0	88	19	5	106	7	5	4	17	3123	1
ORANGE	0	0	2	2	6	5	0	0	6	3	0	167

Table 226: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 227: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 74.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	3281	0	5	266	26	0	14	64	103	1
BROWN	0	0	2	710	10	123	3	0	0	11	47	0
YELLOW	0	0	2	6	287	43	5	0	4	23	4	7
GRAY	0	0	57	70	20	8669	30	0	49	200	73	3
GREEN	0	0	10	9	5	71	595	0	19	30	11	0
PURPLE	0	0	5	0	0	3	0	2	1	0	0	0
RED	0	0	20	13	6	91	1	0	2506	58	20	37
WHITE	1	0	54	2	8	463	5	0	28	8316	4	0
BLACK	2	0	29	18	5	115	5	4	6	17	3175	1
ORANGE	0	0	0	6	6	5	0	0	8	4	0	162

Color confusion matrix of set 74.

Set 75 - Slovenia 2022 A.26

Country: Slovenia View: frontal Year: 2022

Illumination: day Color: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	12475	12475	12475	12475	12475	12475	12475	6096
Annotation failed	0	0	0	4	5	5	10	0
Annotation unfinished	0	1991	0	0	0	0	0	0
Evelveted vehicles	12475	10484	12475	12471	12470	12470	12465	6096
Evaluated vehicles	100 %	84.0%	100 %	100 %	100 %	100%	99.9 %	100 %

Table 228: Evaluated vehicles of set 75.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	100%	0	99.8%	15	99.6%	26	98.7%	10090	28	87.5%	2
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	100%	0	99.8%	11	99.6%	19	99.2%	10095	10	88.1%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	99.9%	10	99.7%	14	99.2%	10090	28	89.1%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	1	100%	0	99.9%	11	99.8%	15	99.5%	10095	6	88.7%	1

Table 229: Classification results of set 75.

Label September 1	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8999	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1905	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	126	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1432

Table 230: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 231: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 75.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	8998	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	1905	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	2	0	124	0	0	0	0	0	0	0	0	1
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1431

Category confusion matrix of set 75.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8998	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1905	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	126	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1432

Table 232: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 233: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 75.

Se Se Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8998	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1905	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	125	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1432

Category confusion matrix of set 75.



Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	476	2	0	198	2	2	0	7	44	0
BROWN	0	0	4	97	2	52	0	0	0	1	16	2
YELLOW	0	0	0	1	96	2	1	0	0	8	0	1
GRAY	0	0	65	25	0	1259	6	0	0	34	22	0
GREEN	2	0	8	0	3	10	59	0	0	5	3	0
PURPLE	0	0	2	1	0	5	0	0	4	0	2	0
RED	0	0	0	2	3	0	0	0	336	3	0	10
WHITE	0	0	2	0	1	93	0	0	1	2271	1	0
BLACK	0	0	36	10	0	45	1	2	3	2	701	0
ORANGE	0	0	0	0	6	0	0	0	0	1	0	38

Table 234: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 235: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 75.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	486	3	0	188	2	0	0	6	46	0
BROWN	0	0	1	99	2	54	0	1	0	0	15	2
YELLOW	0	0	0	0	91	3	1	0	1	9	0	4
GRAY	0	0	51	29	1	1283	3	0	1	22	21	0
GREEN	0	0	6	0	1	16	60	0	0	4	3	0
PURPLE	0	0	0	1	0	6	0	3	3	0	1	0
RED	0	0	0	1	0	0	0	0	337	4	0	12
WHITE	0	0	2	0	1	98	0	0	1	2266	1	0
BLACK	0	0	33	16	0	38	2	1	0	2	708	0
ORANGE	0	0	0	0	0	0	0	0	3	1	0	41

Color confusion matrix of set 75.

Sa Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	507	3	0	172	1	0	0	9	39	0
BROWN	0	0	2	104	3	48	0	0	1	3	13	0
YELLOW	0	0	0	0	99	2	1	0	0	7	0	0
GRAY	0	0	38	24	1	1264	3	0	0	63	18	0
GREEN	0	0	2	1	0	9	66	0	0	6	6	0
PURPLE	0	0	1	1	0	5	0	3	3	0	1	0
RED	0	0	0	2	2	1	0	0	337	3	0	9
WHITE	0	0	4	0	1	75	0	0	2	2287	0	0
BLACK	0	0	23	11	0	34	1	0	0	2	729	0
ORANGE	0	0	0	0	2	0	0	0	3	1	0	39

Table 236: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 237: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 75.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	430	3	0	226	2	2	0	4	64	0
BROWN	0	0	0	97	4	55	0	0	0	0	18	0
YELLOW	0	0	0	0	99	2	1	0	0	5	0	2
GRAY	0	0	14	20	1	1326	4	0	0	25	21	0
GREEN	1	0	2	0	1	11	64	0	0	4	7	0
PURPLE	0	0	0	0	0	6	0	3	3	0	2	0
RED	0	0	0	3	1	0	0	0	332	3	0	15
WHITE	0	0	0	0	1	100	0	0	1	2266	1	0
BLACK	0	0	7	6	0	33	0	0	0	3	751	0
ORANGE	0	0	0	1	5	0	0	0	1	1	0	37

Color confusion matrix of set 75.



Set 76 - Slovenia 2022

Country: Slovenia View: rear Year: 2022

Illumination: day **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	4330	4330	4330	4330	4330	4330	4330	2048
Annotation failed	0	0	4	60	61	62	63	0
Annotation unfinished	0	341	0	0	0	0	0	0
Evelvete divisitely a	4330	3989	4326	4270	4269	4268	4267	2048
Evaluated vehicles	100 %	92.1%	99.9%	98.6%	98.6%	98.6%	98.5%	100 %

Table 238: Evaluated vehicles of set 76.

Mandada Nasan	D4:	Vie		Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.6%	0	99.2%	621	99.2%	634	97.6%	639	98.4%	1984	31	87.9%	1
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.3%	0	99.0%	615	99.0%	633	98.4%	642	98.0%	1986	34	84.8%	1
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.7%	0	99.6%	619	99.6%	623	98.7%	628	99.4%	1984	12	88.4%	1
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.6%	0	99.6%	622	99.7%	629	99.5%	637	99.4%	1988	18	88.8%	1

Table 239: Classification results of set 76.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	3169	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	572	4
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	501

Category confusion matrix of set 76.

ssez Label O	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	3169	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	1	1	0	0	0	0	0	0	0	0	37	0	0	2	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	568	6
VAN	0	0	0	0	4	0	1	0	0	0	0	0	0	4	0	0	4	495

Table 240: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 241: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 76.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3169	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	574	5
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	3	502

Table 242: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 243: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 76.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR		0	0	0	0	3169	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	1	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	572	4
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	4	501

Category confusion matrix of set 76.





Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	118	0	0	12	2	0	4	5	11	0
BROWN	0	0	0	30	1	10	0	0	0	0	4	0
YELLOW	0	0	0	0	14	1	0	0	0	1	0	1
GRAY	0	0	40	15	2	620	4	0	1	20	11	0
GREEN	0	0	0	1	0	3	13	0	0	3	4	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	0	1	0	0	0	0	101	1	0	0
WHITE	0	0	5	0	0	36	1	0	6	618	0	0
BLACK	0	0	12	3	0	16	2	0	0	4	281	0
ORANGE	0	0	0	0	1	0	0	0	1	1	0	5

Table 244: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 245: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 76.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	122	0	0	13	3	0	1	3	10	0
BROWN	0	0	0	23	1	17	0	0	1	0	3	0
YELLOW	0	0	0	0	15	0	0	0	0	1	0	1
GRAY	0	0	58	10	3	597	12	0	4	14	15	0
GREEN	0	0	2	0	0	5	15	0	0	2	0	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	1	0	0	4	0	0	95	1	1	1
WHITE	0	0	8	0	1	57	1	0	5	594	0	0
BLACK	0	0	21	3	0	15	4	0	2	3	270	0
ORANGE	0	0	0	0	1	0	1	0	1	1	0	4

Color confusion matrix of set 76.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	121	0	0	13	1	0	5	4	8	0
BROWN	0	0	1	25	0	14	0	0	2	0	3	0
YELLOW	0	0	1	0	13	0	0	0	1	1	0	1
GRAY	0	0	35	10	3	620	3	0	2	29	11	0
GREEN	0	0	1	0	0	6	13	0	0	2	2	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	0	0	0	2	0	0	98	2	0	1
WHITE	0	0	8	0	2	29	0	0	1	625	0	1
BLACK	0	0	6	2	0	14	1	0	2	4	289	0
ORANGE	0	0	0	0	1	0	1	0	0	1	0	5

Table 246: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 247: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 76.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	108	0	1	18	1	0	3	6	15	0
BROWN	0	0	0	26	2	13	0	0	0	0	4	0
YELLOW	0	0	0	0	12	2	0	0	0	1	0	2
GRAY	0	0	24	10	3	644	2	0	1	15	14	0
GREEN	0	0	0	0	0	4	15	0	0	2	3	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	0	0	0	4	0	0	95	2	0	2
WHITE	0	0	3	0	1	47	0	0	1	613	0	1
BLACK	0	0	4	1	0	9	0	0	1	4	299	0
ORANGE	0	0	0	0	1	0	0	0	1	1	0	5

Color confusion matrix of set 76.





Set 77 - Australia 2022 **A.28**

Country: Australia View: frontal Year: 2022

Illumination: day Color: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	6338	6338	6338	6338	6338	6338	6338	3072
Annotation failed	0	0	0	19	29	76	101	0
Annotation unfinished	0	3008	0	0	0	0	0	0
Evel-veted velotides	6338	3330	6338	6319	6309	6262	6237	3072
Evaluated vehicles	100%	52.5%	100 %	99.7%	99.5%	98.8%	98.4 %	100%

Table 248: Evaluated vehicles of set 77.

NA - dula Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.7%	0	98.8%	0	98.3%	133	96.9%	176	96.9%	4965	59	88.1%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	98.8%	1	98.5%	89	97.5%	131	96.9%	4961	30	90.1%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.8%	0	99.7%	0	99.3%	109	98.0%	130	98.1%	4967	38	90.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	99.6%	0	99.2%	59	98.3%	86	97.8%	4965	22	91.5%	0

Table 249: Classification results of set 77.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5500	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	402	0	8	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	3	0	168	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	228

Table 250: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 251: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 77.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	22	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	5503	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	405	0	5	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	1	0	171	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	226

Category confusion matrix of set 77.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5502	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	408	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	2	1	0	4	0	165	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	225

Table 252: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 253: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 77.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5504	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	403	0	7	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	3	0	169	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	227

Category confusion matrix of set 77.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	164	0	0	25	0	0	0	1	20	0
BROWN	0	0	0	11	0	24	0	0	0	0	6	0
YELLOW	0	0	0	0	21	3	1	0	0	1	0	0
GRAY	0	0	15	11	1	743	0	0	2	39	73	0
GREEN	0	0	7	1	1	7	23	0	0	1	9	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	1	0	0	2	0	0	224	1	5	1
WHITE	0	0	5	0	2	64	0	0	0	1211	2	0
BLACK	0	0	13	0	0	11	0	1	2	2	304	0
ORANGE	0	0	0	0	0	0	0	0	3	0	0	6

Table 254: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 255: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 77.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	183	0	0	13	0	0	0	1	13	0
BROWN	0	0	2	11	3	20	0	0	0	0	5	0
YELLOW	0	0	0	0	21	4	0	0	0	0	1	0
GRAY	0	0	18	8	0	755	1	0	0	45	57	0
GREEN	0	0	7	0	1	4	20	0	0	6	11	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	0	0	0	0	0	0	228	1	4	1
WHITE	0	0	6	0	0	29	0	0	0	1247	2	0
BLACK	0	0	13	1	0	20	0	0	0	2	297	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	6

Color confusion matrix of set 77.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	188	0	0	11	0	0	0	2	9	0
BROWN		0	0	0	6	2	22	1	0	0	1	9	0
YELLOW		0	0	0	0	23	3	0	0	0	0	0	0
GRAY		0	0	19	8	0	760	5	0	0	53	39	0
GREEN		0	0	5	0	1	4	33	0	0	2	4	0
PURPLE		0	0	1	0	0	0	0	0	1	0	0	0
RED		0	0	0	0	0	0	0	0	230	0	2	2
WHITE		0	0	8	0	0	18	1	0	0	1257	0	0
BLACK		0	0	17	1	0	24	0	1	0	3	287	0
ORANGE		0	0	0	0	1	0	0	0	2	0	0	6

Table 256: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 257: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 77.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	170	0	0	22	0	0	0	2	16	0
BROWN	0	0	0	4	1	26	1	0	0	0	9	0
YELLOW	0	0	0	0	23	3	0	0	0	0	0	0
GRAY	0	0	6	1	2	786	1	0	0	38	50	0
GREEN	0	0	2	0	1	7	31	0	0	2	6	0
PURPLE	0	0	0	0	0	0	0	0	1	0	1	0
RED	0	0	0	0	0	2	0	0	223	1	5	3
WHITE	0	0	0	0	0	20	0	0	0	1262	2	0
BLACK	0	0	2	0	0	20	0	0	1	2	308	0
ORANGE	0	0	0	1	1	0	0	0	2	0	0	5

Color confusion matrix of set 77.



Set 78 - Guatemala 2022 A.29

Country: Guatemala View: rear Year: 2022

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1232	1232	1232	1232	1232	1232	1232	397
Annotation failed	0	0	0	62	71	72	72	16
Annotation unfinished	0	0	0	0	0	0	0	0
Evelvete divisitely a	1232	1232	1232	1170	1161	1160	1160	381
Evaluated vehicles	100 %	100 %	100 %	95.0%	94.2%	94.2%	94.2%	96.0%

Table 258: Evaluated vehicles of set 78.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.5%	0	Х	Х	98.0%	2	91.2%	332	92.4%	367	93.9%	402	90.4%	985	18	72.2%	25
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.5%	0	Х	Х	98.2%	5	91.7%	329	94.3%	373	95.1%	403	91.9%	991	20	72.8%	25
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.7%	0	Х	Х	98.6%	1	96.1%	334	97.0%	359	97.6%	381	94.3%	989	14	76.1%	25
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.5%	0	Х	Х	98.5%	0	96.5%	332	98.0%	350	97.6%	363	95.6%	991	10	75.8%	25

Table 259: Classification results of set 78.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	787	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	2	0	1	4	0	2	0	0	0	0	0	0	3	0	0	255	7
VAN		0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	4	85

Category confusion matrix of set 78.

Class Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	6	0	0	0	0	0	0	0	0	0	1	0	0	1	0
CAR	0	0	0	0	787	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	5	0	3	3	0	1	0	0	0	0	0	1	0	0	0	255	6
VAN	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	88

Table 260: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 261: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 78.

Sa S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	786	0	0	0	0	0	0	0	0	1	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	1	0	1	2	0	1	0	0	0	0	0	0	0	0	0	264	5
VAN	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	87

Table 262: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 263: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 78.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	787	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	263	7
VAN	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	87

Category confusion matrix of set 78.





Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	5	0	0	1	0	0	0	6	12	0
BROWN		0	0	0	1	0	3	0	0	5	2	3	0
YELLOW		0	0	0	0	3	2	0	0	0	1	0	0
GRAY		0	0	4	0	0	83	3	0	1	13	13	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	1	0	0	0	0	0	33	1	5	0
WHITE		0	0	1	0	1	6	4	0	5	85	1	0
BLACK		0	0	0	0	0	3	0	0	1	0	47	0
ORANGE		0	0	0	0	0	0	0	0	1	0	0	0

Table 264: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 265: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 78.

Cabel Cas	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4	0	0	1	0	0	1	8	10	0
BROWN	0	0	1	0	1	3	0	0	1	1	7	0
YELLOW	0	0	0	0	2	2	1	0	0	1	0	0
GRAY	0	0	1	0	0	85	0	0	1	13	17	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	1	0	0	1	0	0	25	10	3	0
WHITE	0	0	1	0	0	7	1	0	0	93	1	0
BLACK	0	0	0	0	0	1	0	0	0	0	50	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	0

Color confusion matrix of set 78.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	5	0	0	2	0	0	0	8	9	0
BROWN		0	0	0	1	0	3	0	0	1	3	6	0
YELLOW		0	0	0	0	2	2	0	0	0	1	0	1
GRAY		0	0	0	0	2	84	6	0	3	12	10	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	1	0	0	34	5	0	0
WHITE		0	0	0	0	0	4	1	0	1	96	1	0
BLACK		0	0	0	0	0	2	0	0	0	1	48	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	1

Table 266: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 267: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 78.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	6	0	0	4	0	0	0	4	10	0
BROWN	0	0	0	1	0	3	0	0	0	4	6	0
YELLOW	0	0	0	1	2	2	0	0	0	1	0	0
GRAY	0	0	0	0	0	93	2	0	0	10	12	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	8	0	0	25	5	2	0
WHITE	0	0	0	0	0	9	2	0	0	92	0	0
BLACK	0	0	0	0	0	1	0	0	0	0	50	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 78.





Set 79 - Czech Republic 2022 **A.30**

Country: Czech Republic View: frontal Year: 2022

Illumination: day Color: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	28722	28722	28722	28722	28722	28722	28722	0
Annotation failed	0	0	0	12	18	22	30	0
Annotation unfinished	0	145	0	0	0	0	0	0
Evaluate dividision	28722	28577	28722	28710	28704	28700	28692	0
Evaluated vehicles	100%	99.5%	100 %	100 %	99.9%	99.9%	99.9%	0.0%

Table 268: Evaluated vehicles of set 79.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	1	99.7%	1	99.2%	89	98.8%	190	97.5%	22940	84	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.7%	0	99.4%	91	99.0%	148	97.7%	22955	60	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.7%	97	99.6%	115	99.1%	22957	49	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.8%	2	99.8%	97	99.6%	113	99.2%	22960	26	Х	Х

Table 269: Classification results of set 79.

Label	Class	DEPRECAIED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	-	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	-	0	1	0	0	21598	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	-	0	0	0	0	0	0	1264	0	4	0	0	0	0	0	0	0	0	0
KICKBIKE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	2	0	178	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	5550

Table 270: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 271: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 79.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	21599	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1265	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	4	0	175	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	5552

Category confusion matrix of set 79.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	21597	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	1265	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	178	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5553

Table 272: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 273: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 79.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	119	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	21598	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	1268	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	178	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5553

Category confusion matrix of set 79.



Set 80 - Czech Republic 2022 **A.31**

Country: Czech Republic View: frontal Year: 2022

Illumination: night Color: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2174	2174	2174	2174	2174	2174	2174	0
Annotation failed	0	0	0	9	35	41	45	0
Annotation unfinished	0	92	0	0	0	0	0	0
Evelvete divisiteles	2174	2082	2174	2165	2139	2133	2129	0
Evaluated vehicles	100 %	95.8%	100 %	99.6%	98.4%	98.1%	97.9%	0.0%

Table 274: Evaluated vehicles of set 80.

Mandala Nama	D4:	Vie		Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.3%	0	98.0%	10	97.4%	24	93.4%	1750	14	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.3%	0	98.4%	8	97.7%	19	93.5%	1750	9	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.3%	2	98.9%	4	97.0%	1752	6	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.2%	1	98.8%	4	96.5%	1751	4	Х	Х

Table 275: Classification results of set 80.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1152	0	1	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714

Category confusion matrix of set 80.

Label U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	нут	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1153	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	24	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714

Table 276: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 277: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 80.

Label 3	Cldss	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1153	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
LUGGAGE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714

Table 278: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 279: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 80.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1153	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714

Category confusion matrix of set 80.



Set 81 - Palestine 2022 **A.32**

Country: Palestine View: frontal Year: 2022

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	707	707	707	707	707	707	707	0
Annotation failed	0	0	0	4	4	4	4	0
Annotation unfinished	0	371	0	0	0	0	0	0
Fredricked relation	707	336	707	703	703	703	703	0
Evaluated vehicles	100 %	47.5%	100 %	99.4%	99.4%	99.4%	99.4 %	0.0%

Table 280: Evaluated vehicles of set 81.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ike	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.7%	0	99.4%	0	97.3%	7	97.5%	16	97.2%	519	8	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.7%	0	99.3%	0	98.6%	8	99.3%	15	99.4%	520	4	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	99.1%	1	99.6%	4	98.9%	518	6	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.6%	0	99.6%	5	99.6%	7	100%	520	2	Х	Х

Table 281: Classification results of set 81.

Se U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	694	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11

Table 282: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 283: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 81.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	694	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	10

Category confusion matrix of set 81.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	694	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Category confusion matrix of set 81.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	694	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11

Table 284: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 285: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 81.



Set 82 - Guatemala 2022 **A.33**

Country: Guatemala View: rear Year: 2022

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1134	1134	1134	1134	1134	1134	1134	370
Annotation failed	0	0	0	60	69	70	70	13
Annotation unfinished	0	0	0	0	0	0	0	0
Free locate al contribute	1134	1134	1134	1074	1065	1064	1064	357
Evaluated vehicles	100 %	100 %	100 %	94.7%	93.9%	93.8%	93.8%	96.5%

Table 286: Evaluated vehicles of set 82.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.6%	0	Х	Х	98.1%	2	91.6%	243	92.5%	275	94.2%	310	91.0%	891	18	73.5%	25
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.7%	0	Х	Х	98.4%	3	92.1%	240	94.4%	281	95.4%	311	91.9%	896	20	74.7%	25
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.9%	0	Х	Х	98.3%	1	90.2%	244	91.4%	285	92.6%	330	90.3%	892	27	74.7%	25
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	98.5%	0	98.0%	1	90.6%	240	93.0%	292	94.2%	323	92.3%	892	30	76.2%	25
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.7%	0	Х	Х	98.7%	1	96.4%	244	97.0%	266	97.6%	288	94.2%	894	14	77.4%	25
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.6%	0	Х	Х	98.6%	0	96.8%	241	98.0%	257	97.6%	270	95.6%	896	10	78.6%	25
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.0%	0	95.9%	246	98.9%	282	97.8%	294	96.0%	896	19	78.0%	25
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	98.3%	1	98.6%	0	96.5%	244	97.9%	268	98.0%	282	96.8%	898	11	80.4%	25

Table 287: Classification results of set 82.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	783	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 82.

Cass Cass	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	TCT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	783	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 288: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 289: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 82.

Se S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	782	0	0	0	0	0	0	0	0	0	0	0	2	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 290: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 291: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 82.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	782	0	0	0	0	0	0	0	0	1	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 82.



Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	782	0	0	0	0	0	0	0	0	1	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 82.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	783	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 292: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 293: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 82.

San	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	783	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 82.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	783	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 294: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 295: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 82.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	5	0	0	1	0	0	0	4	12	0
BROWN		0	0	0	1	0	3	0	0	4	2	3	0
YELLOW		0	0	0	0	2	2	0	0	0	1	0	0
GRAY		0	0	4	0	0	83	3	0	1	10	13	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	27	0	4	0
WHITE		0	0	1	0	1	5	4	0	4	80	1	0
BLACK		0	0	0	0	0	3	0	0	1	0	46	0
ORANGE		0	0	0	0	0	0	0	0	1	0	0	0

Color confusion matrix of set 82.

	_		_	_	_	_	_	_	_		_		_
Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	4	0	0	1	0	0	0	7	10	0
BROWN		0	0	1	0	1	3	0	0	0	1	7	0
YELLOW		0	0	0	0	1	2	1	0	0	1	0	0
GRAY		0	0	1	0	0	82	0	0	1	13	17	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	1	0	0	0	0	0	23	4	3	0
WHITE		0	0	1	0	0	4	1	0	0	89	1	0
BLACK		0	0	0	0	0	1	0	0	0	0	49	0
ORANGE		0	0	0	0	0	0	0	0	1	0	0	0

Table 296: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 297: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 82.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	5	0	0	1	0	0	0	6	10	0
BROWN		0	0	0	2	0	1	0	0	3	2	5	0
YELLOW		0	0	0	0	2	1	0	0	0	2	0	0
GRAY		0	0	1	0	0	87	0	0	0	10	16	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	1	0	0	21	4	5	0
WHITE		0	0	1	0	0	11	1	0	0	83	0	0
BLACK		0	0	0	0	0	1	0	0	1	0	48	0
ORANGE		0	0	0	0	0	0	0	0	1	0	0	0

ule - Color confusion matrix of set 82.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	2	0	0	0	5	8	0
BROWN	0	0	0	2	0	3	0	0	4	2	2	0
YELLOW	0	0	0	0	1	2	0	0	0	2	0	0
GRAY	0	0	1	0	0	84	1	0	2	13	13	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	1	1	0	0	24	4	1	0
WHITE	0	0	0	0	0	2	1	0	2	90	1	0
BLACK	0	0	0	0	0	4	0	0	1	0	45	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	0

Table 298: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 299: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 82.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	5	0	0	2	0	0	0	6	9	0
BROWN		0	0	0	1	0	3	0	0	1	2	6	0
YELLOW		0	0	0	0	2	2	0	0	0	0	0	1
GRAY		0	0	0	0	2	83	6	0	3	10	10	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	1	0	0	28	2	0	0
WHITE		0	0	0	0	0	4	1	0	1	89	1	0
BLACK		0	0	0	0	0	2	0	0	0	0	48	0
ORANGE	Ī	0	0	0	0	0	0	0	0	0	0	0	1

Table 300: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 301: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 82.

Cabel Cass	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	6	0	0	3	0	0	0	3	10	0
BROWN	0	0	0	1	0	3	0	0	0	3	6	0
YELLOW	0	0	0	0	2	2	0	0	0	1	0	0
GRAY	0	0	0	0	0	92	2	0	0	8	12	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	5	0	0	23	3	0	0
WHITE	0	0	0	0	0	7	2	0	0	87	0	0
BLACK	0	0	0	0	0	1	0	0	0	0	49	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Color confusion matrix of set 82.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	4	0	0	5	0	0	0	5	8	0
BROWN		0	0	0	1	0	6	0	0	1	1	4	0
YELLOW		0	0	0	0	2	3	0	0	0	0	0	0
GRAY		0	0	1	0	2	89	3	0	1	8	10	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	3	0	0	26	2	0	0
WHITE		0	0	0	0	0	3	1	0	1	89	1	1
BLACK		0	0	0	0	0	3	0	0	0	0	47	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	1

Table 302: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 303: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 82.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	6	0	0	0	3	6	0
BROWN	0	0	0	0	0	5	0	0	0	2	6	0
YELLOW	0	0	0	0	2	3	0	0	0	0	0	0
GRAY	0	0	0	0	0	95	1	0	0	8	10	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	2	0	0	27	1	1	0
WHITE	0	0	0	0	0	7	2	0	1	86	0	0
BLACK	0	0	0	0	0	1	0	0	0	0	49	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

ule - Color confusion matrix of set 82.





Set 83 - Czech Republic 2023 **A.34**

Country: Czech Republic View: frontal Year: 2023

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	8076	8076	8076	8076	8076	8076	8076	0
Annotation failed	0	0	3	24	56	65	67	0
Annotation unfinished	0	786	0	0	0	0	0	0
Evel-veted velotides	8076	7290	8073	8052	8020	8011	8009	0
Evaluated vehicles	100%	90.3%	100 %	99.7%	99.3%	99.2%	99.2%	0.0%

Table 304: Evaluated vehicles of set 83.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.6%	37	99.4%	54	99.0%	6321	18	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	99.8%	0	99.5%	36	99.4%	50	99.2%	6325	16	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	99.8%	28	99.7%	33	99.4%	6322	14	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.9%	30	99.7%	37	99.3%	6325	12	Х	Х

Table 305: Classification results of set 83.

Sie D	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	108	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6872	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	108	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	803

Table 306: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 307: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 83.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	108	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6872	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	177	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	107	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	801

Category confusion matrix of set 83.

Label Sass	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6872	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	107	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	803

Table 308: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 309: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 83.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6872	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	107	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	803

Category confusion matrix of set 83.





Set 84 - Czech Republic 2023 **A.35**

Country: Czech Republic Year: 2023 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	943	943	943	943	943	943	943	0
Annotation failed	0	0	0	8	8	8	8	0
Annotation unfinished	0	30	0	0	0	0	0	0
Evel-rated vehicles	943	913	943	935	935	935	935	0
Evaluated vehicles	100 %	96.8%	100 %	99.2 %	99.2 %	99.2 %	99.2%	0.0%

Table 310: Evaluated vehicles of set 84.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	99.3%	0	98.8%	101	99.0%	109	97.8%	110	97.5%	403	7	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.3%	0	98.4%	103	98.8%	109	98.5%	113	97.0%	404	6	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.4%	0	99.3%	102	99.4%	107	98.8%	108	98.5%	404	2	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.7%	0	99.5%	103	99.5%	107	99.6%	109	99.1%	406	2	Х	Х

Table 311: Classification results of set 84.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	4
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	101

Category confusion matrix of set 84.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	731	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	1	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	3
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	100

Table 312: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 313: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 84.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	101

Category confusion matrix of set 84.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	1
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	102

Table 314: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 315: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 84.



Set 85 - Czech Republic 2023 **A.36**

Country: Czech Republic View: frontal Year: 2023

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	7127	7127	7127	7127	7127	7127	7127	0
Annotation failed	0	0	118	570	843	1026	1035	0
Annotation unfinished	0	1588	0	0	642	875	891	0
Evaluate dividision	7127	5539	7009	6557	5642	5226	5201	0
Evaluated vehicles	100%	77.7%	98.3%	92.0%	79.2%	73.3%	73.0%	0.0%

Table 316: Evaluated vehicles of set 85.

Mandada Nama	D4: ::		ew	Vie	w8	Cate	gory	Ma	ke	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.8%	0	98.4%	1	97.8%	57	97.2%	107	94.3%	4179	59	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	98.6%	1	98.0%	54	97.7%	100	95.7%	4182	42	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.8%	0	99.6%	0	99.3%	20	98.9%	32	97.6%	4182	26	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	99.5%	0	99.2%	23	98.8%	44	98.0%	4183	17	Х	Х

Table 317: Classification results of set 85.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	нут	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5939	0	0	0	0	0	0	0	0	0	0	0	0	7
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	236	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	57	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	648

Table 318: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 319: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 85.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	113	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5939	0	0	0	0	0	0	0	0	0	0	0	0	7
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	236	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	650

Category confusion matrix of set 85.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5937	0	0	0	0	0	0	0	0	0	0	0	0	9
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	236	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	652

Table 320: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 321: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 85.

Label Sabol	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5937	0	0	0	0	0	0	0	0	0	0	0	0	9
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	236	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	650

Category confusion matrix of set 85.





Set 86 - Czech Republic 2023

Country: Czech Republic Year: 2023 View: rear

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1250	1250	1250	1250	1250	1250	1250	0
Annotation failed	0	0	2	24	26	40	41	0
Annotation unfinished	0	240	0	0	23	66	90	0
	1250	1010	1248	1226	1201	1144	1119	0
Evaluated vehicles	100 %	80.8%	99.8 %	98.1%	96.1%	91.5%	89.5 %	0.0%

Table 322: Evaluated vehicles of set 86.

Madula Nama	D4		ew	Vie	w8	Cate	gory	Ма	ike	Мо	del	Gener	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.3%	0	97.3%	157	97.5%	168	97.0%	174	95.0%	468	10	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.4%	0	97.3%	156	97.8%	165	97.2%	170	94.6%	469	7	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.4%	0	97.8%	157	98.2%	162	97.9%	165	95.1%	466	5	Х	Х
MMR VCMMGVCT PREC 2024Q4 (20241120)	F32	100%	0	Х	Х	99.6 %	0	98.0 %	157	98.5%	166	98.2 %	166	95.4%	469	4	Х	Х

Table 323: Classification results of set 86.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	927	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	148	1
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	149

Category confusion matrix of set 86.

Class Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	927	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	149	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	149

Table 324: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 325: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 86.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	927	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	149

Table 326: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 327: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 86.

lagen Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	928	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	150

Category confusion matrix of set 86.



Set 87 - Czech Republic 2023 **A.38**

Country: Czech Republic View: frontal Year: 2023

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	8773	8773	8773	8773	8773	8773	8773	0
Annotation failed	0	0	9	286	435	454	463	0
Annotation unfinished	0	503	0	0	0	0	0	0
Evaluate dividision	8773	8270	8764	8487	8338	8319	8310	0
Evaluated vehicles	100%	94.3%	99.9%	96.7%	95.0%	94.8%	94.7%	0.0%

Table 328: Evaluated vehicles of set 87.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.5%	0	Х	Х	99.6%	0	99.2%	126	99.0%	175	98.9%	225	98.5%	6593	39	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.7%	0	99.4%	18	99.6%	0	99.2%	126	99.0%	163	98.8%	195	98.0%	6598	34	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.6%	0	Х	Х	99.7%	0	99.9%	128	99.7%	149	99.4%	160	99.2%	6597	19	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.7%	0	99.7%	14	99.9%	0	99.9%	129	99.7%	147	99.6%	155	99.6%	6603	15	Х	Х

Table 329: Classification results of set 87.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	T	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	T	0	0	0	0	7476	0	0	0	0	0	2	0	0	1	0	0	0	2
CYCLE	T	0	0	0	0	0	9	0	0	0	0	4	0	0	0	0	0	0	0
HVT	T	0	0	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	П	0	0	0	0	0	0	1	0	94	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN		0	0	4	0	2	3	0	0	0	0	5	64	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	1	1	0	15	2	0	0	0
TO34		0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	838

Table 330: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 331: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 87.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7471	0	1	0	0	0	4	1	0	1	1	0	0	2
CYCLE	0	0	0	0	0	9	0	0	0	0	3	1	0	0	0	0	0	0
HVT	0	0	0	0	0	0	134	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	94	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	1	1	0	0	0	0	1	73	0	2	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	1	0	0	0	1	0	0	14	1	0	0	1
TO34	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
VAN	0	0	0	0	5	0	0	0	1	0	0	0	0	0	0	0	0	835

ule - Category confusion matrix of set 87.

Label Se	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7479	0	0	0	0	0	0	0	0	1	0	0	0	1
CYCLE	0	0	0	0	0	10	0	0	0	0	3	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	95	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	0	0	6	0	0	3	0	1	0	0	1	67	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0
TO34	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	839

Table 332: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 333: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 87.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7479	0	0	0	0	0	0	1	0	0	0	0	0	1
CYCLE	0	0	0	0	0	12	0	0	0	0	0	1	0	0	0	0	0	0
HVT	0	0	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	94	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	2	0	0	0	0	1	74	0	0	0	1	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	840

ule - Category confusion matrix of set 87.



Set 88 - Czech Republic 2023 **A.39**

Country: Czech Republic Year: 2023 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1062	1062	1062	1062	1062	1062	1062	0
Annotation failed	0	0	0	64	41	41	41	0
Annotation unfinished	0	59	0	0	0	0	0	0
Evaluate dividision	1062	1003	1062	998	1021	1021	1021	0
Evaluated vehicles	100%	94.4%	100 %	94.0%	96.1%	96.1%	96.1 %	0.0%

Table 334: Evaluated vehicles of set 88.

Mandada Nama	Dt	Vie		Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	96.9%	0	Х	Х	91.1%	0	97.5%	119	98.0%	152	96.5%	158	97.0%	463	17	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	97.6%	0	96.0%	9	97.9%	5	96.1%	93	98.4%	157	98.0%	162	97.1%	466	10	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	98.3%	0	Х	Х	91.6%	0	99.5%	124	99.5%	155	98.8%	157	99.1%	466	11	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.1%	0	96.4%	4	98.5%	0	98.5%	93	99.5%	153	99.2%	156	98.7%	467	8	Х	Х

Table 335: Classification results of set 88.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	797	0	0	0	0	0	0	0	0	0	0	0	1	1
CYCLE		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	27	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	2
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	1	0	4	1	0	0	0	0	3	33	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 88.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	798	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	1	21	0	4	0	0	1	0	0	0	0	0	1
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	3	0	21	0	0	0	0	0	0	0	0	1
MTB		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	2	40	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TRUCK		0	1	0	0	0	0	2	0	0	0	0	0	0	1	22	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 336: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 337: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 88.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	798	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
MTB	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	2	0	1	0	0	2	0	0	2	35	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	25	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 88.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	798	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	26	0	2	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	1	0	23	0	0	0	0	0	0	0	1	0
MTB	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	1	0	0	0	0	0	40	0	0	0	0	0	1
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TRUCK	0	0	0	0	0	0	2	0	0	0	0	0	0	0	24	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 338: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 339: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 88.





Set 89 - Czech Republic 2023 **A.40**

Country: Czech Republic View: frontal Year: 2023

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	7242	7242	7242	7242	7242	7242	7242	0
Annotation failed	0	0	110	804	1086	1267	1277	0
Annotation unfinished	0	1450	0	0	672	896	913	0
Evel-veted velotides	7242	5792	7132	6438	5484	5079	5052	0
Evaluated vehicles	100%	80.0%	98.5%	88.9 %	75.7%	70.1%	69.8%	0.0%

Table 340: Evaluated vehicles of set 89.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.8%	0	Х	Х	99.2%	0	97.2%	18	96.9%	106	96.2%	156	93.1%	4075	75	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.8%	0	99.8%	1	99.4%	0	97.4%	20	96.9%	97	96.3%	151	92.5%	4075	54	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.8%	0	Х	Х	99.7%	0	99.2%	21	98.8%	62	98.5%	92	96.1%	4080	34	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	99.8%	2	99.7%	0	99.1%	21	98.9%	61	98.4%	87	97.1%	4087	30	Х	Х

Table 341: Classification results of set 89.

Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	80	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	6162	0	3	0	1	0	4	0	0	0	0	0	0	14
CYCLE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
HVT	0	0	0	2	0	0	170	0	1	0	0	0	0	0	0	0	0	1
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	2	0	0	0	0	0	5	5	0	2	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1
TO34	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0	0	618

ule - Category confusion matrix of set 89.

Label 3	CIASS DEDRECATED	FMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	C	0	0	81	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	C	0	0	1	6162	0	0	0	0	0	11	1	0	1	0	0	0	9
CYCLE	C	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
HVT	C	0	0	1	1	0	170	0	1	0	0	0	0	0	0	0	0	1
KICKBIKE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	C	0	0	0	0	0	1	0	40	0	0	0	0	0	0	0	0	0
LUGGAGE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	C	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
PEDESTRIAN	C	0	0	0	1	0	0	0	0	0	0	13	0	0	0	0	0	0
SPECIAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	C	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	1
TO34	C	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	C	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	619

Table 342: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 343: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 89.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	80	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6179	0	0	0	0	0	0	0	0	0	0	0	0	6
CYCLE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	173	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	1	12	0	0	0	0	1	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0
TO34	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	621

ule - Category confusion matrix of set 89.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	81	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6177	0	0	0	0	0	0	0	0	0	0	0	0	8
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	173	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	13	0	1	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	2	0	0	0	0	0	0	0	0	З	0	0	0	0
TO34	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	622

Table 344: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 345: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 89.



Set 90 - Czech Republic 2023 **A.41**

Country: Czech Republic Year: 2023 View: rear

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1198	1198	1198	1198	1198	1198	1198	0
Annotation failed	0	0	3	83	75	88	89	0
Annotation unfinished	0	140	0	0	23	65	89	0
5 1 . 1 . 1 . 1	1198	1058	1195	1115	1100	1045	1020	0
Evaluated vehicles	100 %	88.3 %	99.7%	93.1%	91.8%	87.2%	85.1 %	0.0%

Table 346: Evaluated vehicles of set 90.

Mandada Nama	D4:		ew		w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.1%	0	Х	Х	96.0%	0	96.6%	62	96.8%	84	97.0%	87	95.4%	382	11	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.3%	0	98.1%	4	97.4%	2	94.2%	55	95.8%	93	96.1%	100	94.0%	378	23	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.7%	0	Х	Х	96.9%	0	97.1%	63	97.6%	87	97.6%	93	95.7%	382	13	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.6%	0	98.5%	1	98.3%	9	97.7%	56	98.8%	82	98.5%	84	96.7%	382	10	Х	Х

Table 347: Classification results of set 90.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	965	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	10	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	1	0	0	0	0	0	1	5	0	2	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	2	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 348: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 349: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 90.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	965	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	2	0	7	0	0	0	0	0	0	1	0	0	1	2
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	2
TRUCK		0	1	0	0	0	0	2	0	0	0	0	0	0	0	8	0	3	1
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 90.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	966	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	10	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	1	0	0	0	0	0	7	0	1	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	1	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 90.

Clabel Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	963	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	1	0	8	0	0	0	1	0	0	2	1	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1
TRUCK	0	4	0	0	0	0	2	0	0	0	0	0	0	0	7	0	2	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 350: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 351: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 90.



Set 91 - Czech Republic 2023 **A.42**

Country: Czech Republic View: frontal Year: 2023

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	7622	7622	7622	7622	7622	7622	7622	0
Annotation failed	0	0	0	11	28	36	38	0
Annotation unfinished	0	332	0	0	0	0	0	0
Evaluate dividision	7622	7290	7622	7611	7594	7586	7584	0
Evaluated vehicles	100%	95.6%	100 %	99.9%	99.6%	99.5%	99.5%	0.0%

Table 352: Evaluated vehicles of set 91.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.7%	28	99.5%	39	99.2%	5997	17	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	99.8%	0	99.6%	25	99.5%	36	99.4%	6001	15	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.9%	0	99.6%	0	99.2%	35	99.2%	70	98.8%	5994	29	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.6%	0	99.9%	0	99.7%	1	99.2%	29	99.1%	47	98.7%	5998	28	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	100%	0	99.9%	22	99.7%	23	99.6%	5997	13	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.9%	21	99.8%	27	99.5%	6000	12	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.7%	20	99.6%	30	99.4%	5997	17	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	99.9%	0	100%	0	99.9%	0	99.8%	18	99.7%	25	99.7%	6000	13	Х	Х

Table 353: Classification results of set 91.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6564	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755

Category confusion matrix of set 91.

sse D	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6563	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	132	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	753

Table 354: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 355: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 91.

Capel Capel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6562	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	90	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	754

Table 356: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 357: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 91.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6563	0	1	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	132	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	90	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	752

ule - Category confusion matrix of set 91.





Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6564	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755

Category confusion matrix of set 91.

Sa D	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6564	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755

Table 358: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 359: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 91.

Label Sa	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6564	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	754

Table 360: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 361: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 91.

Label O	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6564	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	90	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755

ule - Category confusion matrix of set 91.

Set 92 - Czech Republic 2023 **A.43**

Country: Czech Republic Year: 2023 View: rear

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	913	913	913	913	913	913	913	0
Annotation failed	0	0	0	13	8	8	8	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evaluate dividision	913	913	913	900	905	905	905	0
Evaluated vehicles	100%	100%	100%	98.6%	99.1%	99.1%	99.1 %	0.0%

Table 362: Evaluated vehicles of set 92.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	93.4%	0	98.9%	70	99.0%	82	97.8%	83	97.5%	375	7	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	93.3%	0	98.6%	72	98.8%	82	98.5%	86	96.9 %	376	6	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	93.6%	0	98.1%	70	98.8%	85	97.2%	89	97.3%	377	14	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	96.7%	0	98.9%	5	96.6%	42	98.7%	85	98.2%	89	97.1%	378	9	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	93.4%	0	99.4%	71	99.4%	80	98.8%	81	98.5%	376	2	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	93.6%	0	99.6%	72	99.5%	80	99.6%	82	99.0%	378	2	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	94.0%	0	99.6%	72	99.6%	84	98.9%	86	99.0%	378	10	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	97.2%	0	99.2%	0	98.7%	43	99.6%	82	99.3%	85	98.7%	379	6	Х	Х

Table 363: Classification results of set 92.

Label C	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	٦	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	٦	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	П	0	0	0	0	729	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 92.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	2
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 364: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 365: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 92.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	729	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	2
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 92.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	10	0	2	0	0	0	0	0	0	0	0	1
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	2	0	19	0	0	0	0	0	0	0	0	1
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK	0	1	0	0	0	0	0	0	0	0	0	0	0	1	19	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 366: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 367: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 92.



Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	729	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 368: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 369: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 92.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	729	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 92.

Label	Class	DEPRECATE	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	20	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 92.

ا Label د	CIdSS	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	730	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	12	0	1	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	1	0	20	0	0	0	0	0	0	0	1	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 370: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 371: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 92.

Set 93 - Australia 2022 **A.44**

Country: Australia View: frontal Year: 2022

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	6915	6915	6915	6915	6915	6915	6915	3339
Annotation failed	0	0	5	48	58	105	131	5
Annotation unfinished	0	3535	0	0	0	0	0	0
Evel-rated vehicles	6915	3380	6910	6867	6857	6810	6784	3334
Evaluated vehicles	100 %	48.9 %	99.9%	99.3 %	99.2 %	98.5 %	98.1 %	99.9%

Table 372: Evaluated vehicles of set 93.

Mandala Nama	D4	Vie		Vie	w8	Cate	gory	Ma	ike	Mo	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.1%	0	Х	Х	98.1%	2	97.4%	487	97.4%	670	95.4%	734	94.8%	5480	80	86.4%	24
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.5%	0	99.6%	3	98.5%	10	97.7%	501	97.6%	645	95.8%	713	94.8%	5482	61	87.6%	30
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.1%	0	Х	Х	98.7%	8	99.1%	499	98.8%	637	97.6%	669	97.8%	5496	41	87.6%	25
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.6%	0	99.9%	2	98.9%	3	99.2%	507	99.1%	588	97.9%	615	98.0%	5499	31	88.9%	26

Table 373: Classification results of set 93.

Label 3	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5556	0	0	0	0	0	0	0	0	2	0	0	0	1
CYCLE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	397	0	10	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	7	0	166	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	8	0	0	0	0	29	3	3	9	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	1	0	0	0	0	0	0	0	2	3	0	0	0	0
TO12	0	1	0	3	5	0	0	0	0	0	3	0	1	208	7	0	4	5
TO34	0	1	0	4	1	0	5	0	0	0	2	0	0	35	166	0	6	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	228

Table 374: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 375: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 93.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5556	0	0	0	0	0	0	0	0	1	0	0	0	2
CYCLE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	396	0	11	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	10	0	163	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	1	10	0	0	0	0	28	7	0	6	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	1	0	0	0	0	0	0	0	4	1	0	0	0	0
TO12	0	0	0	0	4	0	0	0	0	0	2	0	1	219	9	0	0	2
TO34	0	10	0	2	0	0	3	0	0	0	0	0	0	26	179	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	229

ule - Category confusion matrix of set 93.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5558	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	395	0	12	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	2	0	3	0	169	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	7	0	0	0	0	28	0	2	14	0	0	1	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	1	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0
TO12	0	4	0	0	2	0	0	0	0	0	0	0	0	229	1	0	0	1
TO34	0	3	0	2	2	0	3	0	0	0	0	0	1	25	179	0	5	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	227

Table 376: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 377: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 93.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5558	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	401	0	6	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	2	0	4	0	168	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	12	0	1	0	0	27	3	2	7	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	2	1	1	226	5	0	1	0
TO34	0	3	0	1	0	0	0	0	0	0	0	0	1	19	196	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	228

ule - Category confusion matrix of set 93.



Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	173	0	2	23	1	0	0	6	18	0
BROWN	0	0	1	14	3	22	0	0	3	3	6	0
YELLOW	0	0	0	1	17	5	2	0	0	4	0	0
GRAY	3	0	22	10	5	813	5	0	6	70	62	1
GREEN	0	0	0	1	1	8	34	0	1	0	9	1
PURPLE	0	0	0	0	0	0	0	0	1	0	1	0
RED	0	0	0	1	1	3	0	0	232	5	2	2
WHITE	0	0	5	1	0	69	1	0	6	1266	4	0
BLACK	0	0	8	0	0	30	0	0	2	1	303	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	8

ule - Color confusion matrix of set 93.

Label S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	179	0	2	24	0	0	0	7	11	0
BROWN	0	0	0	12	7	15	1	0	3	2	12	0
YELLOW	0	0	0	0	22	3	0	0	0	4	0	0
GRAY	3	0	17	5	4	807	1	0	9	86	65	0
GREEN	0	0	1	0	3	7	33	0	1	4	6	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	2	0	1	0	2	1	0	0	230	6	2	2
WHITE	1	0	3	0	4	41	1	0	3	1295	4	0
BLACK	1	0	7	1	0	16	1	0	3	3	312	0
ORANGE	0	0	0	0	0	1	0	0	4	0	0	5

Table 378: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 379: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 93.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	191	0	0	12	1	0	1	8	10	0
BROWN	1	0	2	10	1	24	1	0	1	4	8	0
YELLOW	0	0	0	1	20	4	1	0	0	3	0	0
GRAY	5	0	22	4	11	801	4	0	9	87	54	0
GREEN	0	0	2	0	3	4	37	0	0	3	6	0
PURPLE	0	0	0	0	0	0	0	1	1	0	0	0
RED	0	0	0	0	1	1	0	0	234	5	1	4
WHITE	1	0	8	0	3	42	2	0	1	1293	2	0
BLACK	0	0	14	1	0	19	0	0	2	5	303	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	8

ule - Color confusion matrix of set 93.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	185	0	2	22	0	0	1	5	8	0
BROWN	0	0	0	8	3	27	1	0	2	2	8	1
YELLOW	0	0	0	1	20	5	2	0	0	1	0	0
GRAY	2	0	16	3	2	887	6	0	6	55	20	0
GREEN	1	0	1	2	1	8	34	0	1	3	4	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	1	0	2	3	0	0	235	2	2	1
WHITE	0	0	4	0	2	55	1	0	8	1282	0	0
BLACK	0	0	9	0	0	45	1	1	0	5	283	0
ORANGE	0	0	0	0	2	0	0	0	2	0	0	6

Table 380: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 381: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 93.



Set 94 - Australia 2022 **A.45**

Country: Australia View: frontal Year: 2022

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	6331	6331	6331	6331	6331	6331	6331	3070
Annotation failed	0	0	0	19	29	76	101	0
Annotation unfinished	0	3001	0	0	0	0	0	0
Evaluate dividision	6331	3330	6331	6312	6302	6255	6230	3070
Evaluated vehicles	100%	52.6%	100 %	99.7%	99.5%	98.8%	98.4 %	100%

Table 382: Evaluated vehicles of set 94.

Mandrida Nama	D4		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.7%	0	98.8%	0	98.3%	131	96.9%	174	96.9%	4959	58	88.1%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	98.8%	1	98.5%	89	97.5%	131	96.9%	4955	30	90.1%	0
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.7%	0	97.9%	1	97.6%	165	95.6%	228	95.0%	4944	78	89.1%	0
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.8%	0	99.6%	0	97.9%	1	97.7%	140	95.9%	205	95.0%	4946	60	90.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.8%	0	99.7%	0	99.3%	107	98.0%	128	98.1%	4961	37	90.8%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	99.6%	0	99.2%	59	98.3%	86	97.8%	4959	22	91.5%	0
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.7%	0	99.3%	0	98.9%	130	97.7%	159	97.8%	4958	41	91.3%	0
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	100%	0	99.8%	0	99.3%	0	99.1%	78	97.9%	104	98.0%	4961	31	91.5%	0

Table 383: Classification results of set 94.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5498	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	397	0	8	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	3	0	168	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	228

Table 384: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 385: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 94.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	22	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	5501	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	400	0	5	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	1	0	171	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	226

Category confusion matrix of set 94.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5501	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	395	0	10	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	7	0	164	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	227

Table 386: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 387: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 94.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5500	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	394	0	11	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	10	0	161	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	228

ule - Category confusion matrix of set 94.





Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5500	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	403	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	2	1	0	4	0	165	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	225

Table 388: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 389: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 94.

	_	$\overline{}$	_	_											_	_			
Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	5502	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	398	0	7	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	3	0	169	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	227

Category confusion matrix of set 94.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5502	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	393	0	12	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	2	0	3	0	167	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	226

ule - Category confusion matrix of set 94.

Se Label O	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	5502	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	399	0	6	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	2	0	4	0	166	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	227

Table 390: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 391: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 94.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	164	0	0	25	0	0	0	1	20	0
BROWN		0	0	0	11	0	24	0	0	0	0	6	0
YELLOW		0	0	0	0	20	3	1	0	0	1	0	0
GRAY		0	0	15	11	1	743	0	0	2	39	73	0
GREEN		0	0	7	1	1	7	23	0	0	1	9	0
PURPLE		0	0	1	0	0	0	0	0	1	0	0	0
RED		0	0	1	0	0	2	0	0	223	1	5	1
WHITE		0	0	5	0	2	64	0	0	0	1211	2	0
BLACK		0	0	13	0	0	11	0	1	2	2	304	0
ORANGE		0	0	0	0	0	0	0	0	3	0	0	6

Color confusion matrix of set 94.

Sa Sa Label	DEPRECATED	EMPTY	вгие	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	ВГАСК	ORANGE
BLUE	0	0	183	0	0	13	0	0	0	1	13	0
BROWN	0	0	2	11	3	20	0	0	0	0	5	0
YELLOW	0	0	0	0	20	4	0	0	0	0	1	0
GRAY	0	0	18	8	0	755	1	0	0	45	57	0
GREEN	0	0	7	0	1	4	20	0	0	6	11	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	0	0	0	0	0	0	227	1	4	1
WHITE	0	0	6	0	0	29	0	0	0	1247	2	0
BLACK	0	0	13	1	0	20	0	0	0	2	297	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	6

Table 392: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 393: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 94.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	171	0	0	19	0	0	0	2	18	0
BROWN	0	0	0	14	3	16	0	0	1	1	6	0
YELLOW	0	0	0	1	15	4	2	0	0	3	0	0
GRAY	0	0	19	10	2	752	1	0	5	37	57	1
GREEN	0	0	0	1	1	5	32	0	0	0	9	1
PURPLE	0	0	0	0	0	0	0	0	1	0	1	0
RED	0	0	0	1	0	1	0	0	225	2	2	2
WHITE	0	0	4	1	0	53	0	0	2	1220	4	0
BLACK	0	0	8	0	0	25	0	0	2	0	298	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	7

Table 394: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 395: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 94.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	176	0	0	21	0	0	0	2	11	0
BROWN	0	0	0	12	6	8	1	0	1	1	12	0
YELLOW	0	0	0	0	20	2	0	0	0	3	0	0
GRAY	0	0	12	5	3	742	0	0	4	60	58	0
GREEN	0	0	1	0	3	4	31	0	0	4	6	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	1	0	0	0	0	0	226	2	2	2
WHITE	0	0	3	0	2	26	0	0	0	1252	1	0
BLACK	0	0	7	1	0	13	1	0	2	3	306	0
ORANGE	0	0	0	0	0	1	0	0	4	0	0	4

ule - Color confusion matrix of set 94.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	188	0	0	11	0	0	0	2	9	0
BROWN	0	0	0	6	2	22	1	0	0	1	9	0
YELLOW	0	0	0	0	22	3	0	0	0	0	0	0
GRAY	0	0	19	8	0	760	5	0	0	53	39	0
GREEN	0	0	5	0	1	4	33	0	0	2	4	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	0	0	0	0	0	0	229	0	2	2
WHITE	0	0	8	0	0	18	1	0	0	1257	0	0
BLACK	0	0	17	1	0	24	0	1	0	3	287	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	6

Color confusion matrix of set 94.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	170	0	0	22	0	0	0	2	16	0
BROWN	0	0	0	4	1	26	1	0	0	0	9	0
YELLOW	0	0	0	0	22	3	0	0	0	0	0	0
GRAY	0	0	6	1	2	786	1	0	0	38	50	0
GREEN	0	0	2	0	1	7	31	0	0	2	6	0
PURPLE	0	0	0	0	0	0	0	0	1	0	1	0
RED	0	0	0	0	0	2	0	0	222	1	5	3
WHITE	0	0	0	0	0	20	0	0	0	1262	2	0
BLACK	0	0	2	0	0	20	0	0	1	2	308	0
ORANGE	0	0	0	1	1	0	0	0	2	0	0	5

Table 396: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 397: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 94.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	189	0	0	9	1	0	0	1	10	0
BROWN	0	0	1	10	1	19	1	0	0	1	8	0
YELLOW	0	0	0	1	19	4	0	0	0	1	0	0
GRAY	0	0	17	3	2	771	2	0	2	38	49	0
GREEN	0	0	1	0	2	4	35	0	0	2	5	0
PURPLE	0	0	0	0	0	0	0	1	1	0	0	0
RED	0	0	0	0	0	0	0	0	229	1	1	2
WHITE	0	0	6	0	0	34	2	0	0	1242	0	0
BLACK	0	0	11	1	0	19	0	0	1	2	299	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	7

ule - Color confusion matrix of set 94.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	182	0	0	19	0	0	0	1	8	0
BROWN	0	0	0	8	1	24	1	0	0	0	7	0
YELLOW	0	0	0	1	17	5	2	0	0	0	0	0
GRAY	0	0	15	3	0	821	1	0	0	25	19	0
GREEN	0	0	1	1	1	7	32	0	1	2	4	0
PURPLE	0	0	1	0	0	0	0	0	1	0	0	0
RED	0	0	1	0	0	3	0	0	226	0	2	1
WHITE	0	0	3	0	1	39	1	0	1	1239	0	0
BLACK	0	0	9	0	0	41	1	1	0	3	278	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	6

Table 398: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 399: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 94.



Set 95 - Guatemala 2022 **A.46**

Country: Guatemala View: rear Year: 2022

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1203	1203	1203	1203	1203	1203	1203	397
Annotation failed	0	0	0	71	82	83	83	16
Annotation unfinished	0	0	0	0	0	0	0	0
Evelvete divisiteles	1203	1203	1203	1132	1121	1120	1120	381
Evaluated vehicles	100 %	100 %	100 %	94.1%	93.2%	93.1%	93.1 %	96.0%

Table 400: Evaluated vehicles of set 95.

Madula Nassa	D4	Vie	ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.9%	0	Х	Х	97.8%	1	90.2%	267	91.2%	311	92.1%	358	90.5%	944	29	74.4%	25
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	98.6%	0	97.6%	1	89.9%	261	92.6%	319	93.9%	352	92.4%	944	31	76.4%	25
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	98.7%	0	95.6%	269	98.4%	307	97.6%	321	95.4%	947	21	78.1%	25
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	98.4%	1	98.3%	0	96.2%	266	97.5%	292	97.8%	308	96.2%	949	13	80.9%	25

Table 401: Classification results of set 95.

Label C	DEBECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	(0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	(0	0	0	811	0	0	0	0	0	0	0	0	0	0	0	2	0
CYCLE	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	(0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	(0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0
SPECIAL	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
VAN	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 95.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	2	0
CAR		0	0	0	0	811	0	0	0	0	0	0	0	0	1	0	0	1	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 402: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 403: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 95.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	812	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 404: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 405: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 95.

Clabel Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	812	0	0	0	0	0	0	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 95.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	5	0	0	1	0	0	0	6	10	0
BROWN	0	0	0	2	0	1	0	0	3	2	5	0
YELLOW	0	0	0	0	2	1	0	0	0	2	0	0
GRAY	0	0	1	0	0	89	0	0	0	13	16	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	1	0
RED	0	0	0	0	0	1	0	0	22	4	6	0
WHITE	0	0	1	0	0	11	1	0	0	95	0	0
BLACK	0	0	0	0	0	2	0	0	1	1	50	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	0

Table 406: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 407: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 95.

Label 3	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	7	0	0	2	0	0	0	5	8	0
BROWN		0	0	0	2	0	3	0	0	4	2	2	0
YELLOW		0	0	0	0	1	2	0	0	0	2	0	0
GRAY		0	0	1	0	0	88	1	0	2	14	13	0
GREEN		0	0	0	0	0	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	1	0
RED		0	0	0	0	1	1	0	0	26	4	1	0
WHITE	1	0	0	0	0	0	4	1	0	2	100	1	0
BLACK	Ī	0	0	0	0	0	4	0	0	1	1	48	0
ORANGE	Ī	0	0	0	0	0	0	0	0	1	0	0	0

ule - Color confusion matrix of set 95.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4	0	0	5	0	0	0	5	8	0
BROWN	0	0	0	1	0	6	0	0	1	1	4	0
YELLOW	0	0	0	0	2	3	0	0	0	0	0	0
GRAY	0	0	1	0	2	94	3	0	1	8	10	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	0	0	0	3	0	0	28	2	0	0
WHITE	0	0	0	0	0	4	1	0	2	99	1	1
BLACK	0	0	0	0	0	4	0	0	0	1	49	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

Table 408: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 409: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 95.

Label U	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	7	0	0	6	0	0	0	3	6	0
BROWN	0	0	0	0	0	5	0	0	0	2	6	0
YELLOW	0	0	0	0	2	3	0	0	0	0	0	0
GRAY	0	0	0	0	0	100	1	0	0	8	10	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	1	0	0	0	0	0	0
RED	0	0	0	0	0	2	0	0	29	1	1	0
WHITE	0	0	0	0	0	7	2	0	1	98	0	0
BLACK	0	0	0	0	0	2	0	0	0	1	51	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	1

ule - Color confusion matrix of set 95.





Set 96 - Czech Republic 2023 **A.47**

Country: Czech Republic View: frontal Year: 2023

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	8805	8805	8805	8805	8805	8805	8805	8805
Annotation failed	0	0	0	11	11	11	11	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-veted velotides	8805	8805	8805	8794	8794	8794	8794	8805
Evaluated vehicles	100%	100%	100 %	99.9%	99.9%	99.9%	99.9%	100%

Table 410: Evaluated vehicles of set 96.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.8%	20	99.6%	24	98.9%	6781	13	94.8%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.8%	21	99.7%	23	99.0%	6777	8	95.2%	0
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.7%	22	99.6%	28	98.9%	6782	14	94.4%	0
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.2%	0	100%	0	99.8%	0	99.8%	20	99.7%	22	98.8%	6780	8	94.7%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	21	99.7%	24	98.9%	6781	12	96.0%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	18	99.7%	20	99.1 %	6780	9	95.4%	0
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.9%	23	99.8%	27	99.2%	6782	12	95.7%	0
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	99.0%	0	100%	0	99.9%	0	99.9%	21	99.7%	22	99.3%	6782	8	95.5%	0

Table 411: Classification results of set 96.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Category confusion matrix of set 96.

Label រី	CIASS DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Table 412: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 413: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 96.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	95	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Table 414: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 415: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 96.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	94	0	0	0	0	0	0	0	0	2
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

ule - Category confusion matrix of set 96.



Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Table 416: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 417: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 96.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Category confusion matrix of set 96.

Label Cass	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	94	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

ule - Category confusion matrix of set 96.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	860	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	95	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	926

Table 418: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 419: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 96.

Label S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1088	0	3	49	19	0	0	4	27	0
BROWN	0	0	0	282	8	13	0	0	0	3	1	5
YELLOW	0	0	1	13	130	10	0	0	0	1	0	0
GRAY	0	0	17	24	6	2164	14	0	0	25	46	0
GREEN	0	0	0	7	0	8	240	0	0	0	5	0
PURPLE	0	0	0	0	0	3	0	0	3	0	0	0
RED	0	0	0	2	0	0	0	0	767	2	0	3
WHITE	0	0	1	0	1	25	5	0	1	2410	1	1
BLACK	0	0	5	33	0	44	5	2	2	4	1209	0
ORANGE	0	0	0	2	1	0	0	0	0	0	0	60

Color confusion matrix of set 96.

Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1117	0	3	36	15	0	0	3	16	0
BROWN	0	0	0	286	4	12	0	0	0	3	2	5
YELLOW	0	0	1	18	127	8	0	0	0	1	0	0
GRAY	0	0	12	23	5	2170	26	0	0	21	39	0
GREEN	0	0	0	6	2	8	237	0	0	0	7	0
PURPLE	0	0	0	0	0	4	0	0	2	0	0	0
RED	0	0	0	0	0	0	0	0	761	3	1	9
WHITE	0	0	0	0	1	25	7	0	0	2408	1	3
BLACK	0	0	4	27	0	39	7	3	0	4	1220	0
ORANGE	0	0	0	2	0	0	0	0	2	0	0	59

Table 420: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 421: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 96.



Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1069	0	3	55	25	0	0	7	31	0
BROWN	0	0	0	278	10	15	0	0	1	3	0	5
YELLOW	0	0	1	18	124	9	0	0	0	3	0	0
GRAY	0	0	14	23	5	2165	13	0	0	42	34	0
GREEN	0	0	0	8	2	8	238	0	0	0	4	0
PURPLE	0	0	0	0	0	4	0	0	0	2	0	0
RED	0	0	0	2	0	0	0	0	766	2	0	4
WHITE	0	0	3	0	1	18	1	0	1	2421	0	0
BLACK	0	0	10	41	0	47	5	1	0	4	1196	0
ORANGE	0	0	0	1	4	1	0	0	2	0	0	55

Table 422: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 423: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 96.

Cabel D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1076	0	3	53	19	0	0	7	32	0
BROWN	0	0	0	275	7	17	0	0	1	3	2	7
YELLOW	0	0	0	14	126	12	2	0	0	1	0	0
GRAY	0	0	12	23	7	2163	14	0	0	48	29	0
GREEN	0	0	2	7	2	9	237	0	0	3	0	0
PURPLE	0	0	0	0	0	4	0	1	1	0	0	0
RED	0	0	0	3	0	0	0	0	764	2	0	5
WHITE	0	0	1	0	1	13	4	0	0	2426	0	0
BLACK	0	0	11	32	0	37	3	1	3	1	1216	0
ORANGE	0	0	0	3	0	0	0	0	4	0	0	56

ule - Color confusion matrix of set 96.

Se D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1131	0	3	31	10	0	0	5	10	0
BROWN	0	0	0	282	6	14	0	0	2	3	0	5
YELLOW	0	0	0	16	129	10	0	0	0	0	0	0
GRAY	0	0	12	25	1	2208	13	0	0	16	21	0
GREEN	0	0	2	7	2	8	235	0	0	2	4	0
PURPLE	0	0	0	1	0	0	0	2	3	0	0	0
RED	0	0	0	1	0	0	0	0	765	2	0	6
WHITE	0	0	3	0	1	18	1	0	0	2422	0	0
BLACK	0	0	12	25	0	43	3	2	0	4	1215	0
ORANGE	0	0	0	2	0	1	0	0	0	0	0	60

Color confusion matrix of set 96.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1082	0	3	63	9	0	0	3	30	0
BROWN	0	0	0	276	5	23	0	0	0	3	0	5
YELLOW	0	0	0	12	133	10	0	0	0	0	0	0
GRAY	0	0	9	20	5	2207	7	0	0	15	33	0
GREEN	0	0	0	8	1	9	236	0	0	0	6	0
PURPLE	0	0	0	0	0	4	0	0	2	0	0	0
RED	0	0	0	3	0	0	0	0	763	2	0	6
WHITE	0	0	1	0	1	25	1	0	0	2416	1	0
BLACK	0	0	3	28	0	40	3	1	0	5	1224	0
ORANGE	0	0	0	1	0	0	0	0	0	1	0	61

Table 424: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 425: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 96.

Sac Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1103	0	3	41	17	0	0	1	25	0
BROWN	0	0	0	287	6	8	0	0	1	3	0	7
YELLOW	0	0	0	17	127	11	0	0	0	0	0	0
GRAY	0	0	12	22	5	2199	12	0	0	20	26	0
GREEN	0	0	1	7	1	9	235	0	0	0	7	0
PURPLE	0	0	0	0	0	2	0	2	2	0	0	0
RED	0	0	0	0	0	0	0	0	768	1	0	5
WHITE	0	0	5	0	3	15	1	0	0	2421	0	0
BLACK	0	0	7	32	0	31	2	4	0	4	1224	0
ORANGE	0	0	0	0	0	0	0	0	3	0	0	60

Table 426: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 427: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 96.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1119	0	3	41	12	0	0	0	15	0
BROWN	0	0	0	279	4	18	0	0	1	3	0	7
YELLOW	0	0	1	17	127	10	0	0	0	0	0	0
GRAY	0	0	14	21	4	2226	9	0	0	16	6	0
GREEN	0	0	0	7	0	18	233	0	0	1	1	0
PURPLE	0	0	0	0	0	3	0	0	3	0	0	0
RED	0	0	0	1	0	0	0	0	763	3	0	7
WHITE	0	0	1	0	1	20	0	0	0	2423	0	0
BLACK	0	0	11	44	0	57	2	3	2	3	1182	0
ORANGE	0	0	0	0	0	1	0	0	2	0	0	60

ule - Color confusion matrix of set 96.



Set 97 - Czech Republic 2023 **A.48**

Country: Czech Republic Year: 2023 View: rear

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	14314	14314	14314	14314	14314	14314	14314	12147
Annotation failed	0	0	0	25	19	19	20	1
Annotation unfinished	0	370	0	0	0	0	0	0
Free locate al control o	14314	13944	14314	14289	14295	14295	14294	12146
Evaluated vehicles	100 %	97.4%	100 %	99.8%	99.9%	99.9%	99.9%	100 %

Table 428: Evaluated vehicles of set 97.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	94.8%	0	99.2%	1623	99.3%	1681	98.7%	1708	98.6%	6038	53	91.5%	149
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	94.8%	0	99.0%	1624	99.2%	1684	98.9%	1712	98.7%	6039	67	91.4%	149
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	94.8%	0	99.0%	1627	99.1%	1689	98.7%	1716	98.6%	6035	66	91.4%	149
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.6%	0	99.7%	9	98.9%	1493	99.1%	1675	99.0%	1711	98.7%	6039	56	91.7%	158
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	94.9%	1	99.4%	1624	99.5%	1666	99.2%	1691	99.1%	6050	27	92.7%	150
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	94.9%	0	99.4%	1622	99.5%	1661	99.4%	1679	99.1 %	6045	30	92.4%	149
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	94.9%	0	99.5%	1630	99.6%	1680	99.2%	1694	99.1%	6049	32	93.1%	149
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	99.9%	0	99.8%	7	99.4%	1496	99.6%	1674	99.4%	1682	99.2%	6056	20	93.1%	156

Table 429: Classification results of set 97.

Label 3	DEDRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	C	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	C	0	0	0	11067	0	0	0	0	0	0	0	0	1	0	0	0	3
CYCLE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	3
LGT	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	C	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	80	6
MTB	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	C	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	C	0	0	0	0	0	0	0	0	0	0	0	0	246	0	0	0	4
TRUCK	C	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	570	3
VAN	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 97.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11067	0	0	0	0	0	0	0	0	1	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	54	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	7
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	242	0	0	2	6
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	574	2
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 430: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 431: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 97.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11067	0	0	0	0	0	0	0	0	1	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	2
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	6
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	242	0	0	0	8
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	572	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 432: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 433: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 97.

Capel Capel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	ТО12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11070	0	1	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	1	0	0	49	0	4	0	0	0	0	0	1	0	0	2
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	1	0	0	0	0	81	0	0	0	0	0	0	0	0	5
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	247	0	0	0	3
TRUCK	0	2	0	0	0	0	1	0	0	0	0	0	0	6	564	0	5	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 97.



Se Label D	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11070	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	54	1
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	80	6
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	245	0	0	2	3
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	576	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 434: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 435: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 97.

Sa S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11068	0	0	0	0	0	0	0	0	0	0	0	0	3
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	54	2
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	7
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	245	0	0	2	3
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	578	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Category confusion matrix of set 97.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	191	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11070	0	0	0	0	0	0	0	0	0	0	0	1	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	1
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	7
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	250	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	578	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 97.

Label San	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	11071	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	54	0	1	0	0	0	0	0	1	0	0	1
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	7
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	249	0	0	0	1
TRUCK	0	1	0	0	0	0	0	0	0	0	0	0	0	0	575	0	2	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 436: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 437: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 97.

Sapel D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1475	2	1	108	12	0	3	34	28	0
BROWN	0	0	0	383	10	19	2	0	1	6	16	7
YELLOW	0	0	6	11	95	25	6	0	2	7	0	0
GRAY	0	0	36	60	16	3301	15	0	9	58	57	0
GREEN	0	0	4	8	0	20	261	0	0	3	4	0
PURPLE	0	0	2	0	0	0	0	9	1	0	0	0
RED	0	0	2	0	0	14	1	0	931	18	0	11
WHITE	1	0	14	2	1	158	0	0	4	2976	5	0
BLACK	8	0	9	40	0	73	9	2	1	14	1700	0
ORANGE	0	0	0	0	0	0	0	0	6	1	0	63

Table 438: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 439: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 97.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1471	2	0	94	17	0	4	33	42	0
BROWN	0	0	1	387	8	21	1	0	1	3	16	6
YELLOW	0	0	1	12	101	26	5	0	0	5	2	0
GRAY	0	0	31	57	20	3294	16	0	15	51	66	2
GREEN	0	0	0	4	0	19	263	0	0	4	10	0
PURPLE	0	0	2	0	0	0	0	9	1	0	0	0
RED	0	0	5	0	1	16	3	0	923	13	0	16
WHITE	1	0	13	3	0	172	5	0	11	2951	5	0
BLACK	8	0	9	33	0	67	12	3	0	12	1712	0
ORANGE	0	0	0	6	0	0	0	0	7	0	0	57

Color confusion matrix of set 97.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1456	1	4	116	20	0	2	26	38	0
BROWN	0	0	1	390	4	25	0	0	1	4	12	7
YELLOW	0	0	5	9	99	28	5	0	0	3	3	0
GRAY	0	0	33	59	11	3299	23	0	10	61	56	0
GREEN	0	0	5	8	0	16	265	0	0	1	5	0
PURPLE	0	0	0	0	0	0	0	9	3	0	0	0
RED	0	0	3	0	1	14	0	0	941	8	0	10
WHITE	1	0	19	2	0	160	3	0	4	2967	4	1
BLACK	8	0	10	28	0	89	10	2	6	14	1689	0
ORANGE	0	0	0	1	1	0	0	0	12	1	0	55

Table 440: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 441: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 97.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	1	0	1464	1	1	114	21	0	2	30	29	0
BROWN	0	0	0	396	7	22	0	0	0	3	9	7
YELLOW	0	0	0	10	103	29	4	0	1	5	0	0
GRAY	2	0	36	60	15	3308	22	0	5	62	42	0
GREEN	0	0	2	6	2	20	266	0	0	3	1	0
PURPLE	0	0	3	0	0	0	0	9	0	0	0	0
RED	1	0	2	0	0	14	0	0	942	7	1	10
WHITE	4	0	12	0	4	143	2	0	4	2988	4	0
BLACK	10	0	7	38	0	97	8	2	7	6	1681	0
ORANGE	0	0	0	0	0	0	0	0	14	2	0	54

ule - Color confusion matrix of set 97.

Sac Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1508	1	0	79	18	0	4	30	23	0
BROWN	0	0	0	401	4	14	0	0	1	12	5	7
YELLOW	0	0	5	15	98	20	2	0	3	4	5	0
GRAY	0	0	37	52	16	3350	9	0	10	47	28	3
GREEN	0	0	3	7	1	13	269	0	0	3	4	0
PURPLE	0	0	0	0	0	0	0	9	3	0	0	0
RED	0	0	5	0	0	13	2	0	938	11	0	8
WHITE	2	0	19	2	2	133	0	0	6	2993	4	0
BLACK	8	0	16	37	0	71	9	3	1	12	1699	0
ORANGE	0	0	0	1	0	2	0	0	4	1	0	62

Color confusion matrix of set 97.

Cabel Cass	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1442	1	0	111	16	0	9	34	50	0
BROWN	0	0	0	394	6	27	0	0	0	4	7	6
YELLOW	0	0	4	14	101	23	0	0	0	5	5	0
GRAY	0	0	17	41	17	3384	6	0	9	43	34	1
GREEN	0	0	1	6	0	23	261	0	0	3	6	0
PURPLE	0	0	0	0	0	0	0	9	3	0	0	0
RED	0	0	1	2	0	14	1	0	924	19	0	16
WHITE	1	0	13	0	3	178	3	0	18	2938	7	0
BLACK	8	0	9	26	0	63	6	0	0	10	1734	0
ORANGE	0	0	0	3	0	0	0	0	1	3	0	63

Table 442: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 443: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 97.

Label \bar{c}	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	1512	1	0	89	11	0	2	22	26	0
BROWN		0	0	0	403	7	16	0	0	1	7	3	7
YELLOW		0	0	1	13	105	25	1	0	0	2	5	0
GRAY		0	0	27	49	13	3349	13	0	11	58	32	0
GREEN		0	0	4	7	0	17	266	0	0	2	4	0
PURPLE		0	0	0	0	0	0	0	9	3	0	0	0
RED		0	0	1	0	0	13	0	0	943	6	0	14
WHITE		1	0	9	1	1	121	2	0	42	2978	4	2
BLACK		8	0	4	32	0	63	7	2	3	12	1725	0
ORANGE		0	0	0	0	0	0	0	0	4	0	0	66

Table 444: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 445: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 97.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	2	0	1511	1	0	99	15	0	2	19	14	0
BROWN	0	0	0	406	6	21	1	0	1	3	0	6
YELLOW	0	0	1	12	109	22	1	0	0	1	6	0
GRAY	2	0	18	47	13	3384	17	0	7	43	19	2
GREEN	0	0	3	6	2	25	264	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	9	3	0	0	0
RED	0	0	1	0	1	15	1	0	944	6	0	9
WHITE	4	0	10	0	2	143	1	0	23	2974	4	0
BLACK	8	0	8	40	0	84	8	3	1	12	1692	0
ORANGE	0	0	0	0	0	0	0	0	9	0	0	61

ule - Color confusion matrix of set 97.





Set 98 - Czech Republic 2023 A.49

Country: Czech Republic Year: 2023 View: any view

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	18117	18117	18117	18117	18117	18117	18117	18117
Annotation failed	0	0	1	1	1	1	1	0
Annotation unfinished	0	12564	0	0	0	0	0	0
5 1 . 1 . 1 . 1	18117	5553	18116	18116	18116	18116	18116	18117
Evaluated vehicles	100 %	30.7%	100 %	100 %	100 %	100 %	100 %	100 %

Table 446: Evaluated vehicles of set 98.

Mandada Nassa	D4		ew	Vie		Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	83.9%	0	Х	Х	91.7%	2	0.0%	18113	0.0%	18114	Х	Х	Х	Х	Х	0.0%	18094
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	86.6%	0	68.6%	530	90.8%	2	0.0%	18065	0.0%	18105	0.0%	18110	0.0%	18111	0	0.0%	18005
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	91.7%	0	Х	Х	94.8%	0	0.0%	18110	Х	Х	Х	Х	Х	Х	Х	0.0%	18095
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	93.8%	0	83.3%	355	95.5%	0	0.0%	18105	0.0%	18115	0.0%	18115	X	Х	Х	0.0%	18095

Table 447: Classification results of set 98.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	66	0	1	20	0	8	0	0	2	163	0	0	0	26	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	5050	0	58	0	0	34	93	0	0	0	3	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	75	0	199	0	0	1	286	0	0	0	1	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	1	0	0	148	0	89	0	0	58	9625	0	0	0	69	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	2	0	0	1	51	0	17	0	0	119	166	7	13	1	1663	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 98.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	48	0	1	15	0	3	0	0	0	207	0	0	1	11	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	5099	0	54	0	0	51	33	0	0	0	1	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	93	0	299	0	0	0	168	0	1	0	1	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	1	0	2	1	135	0	313	0	0	73	9425	11	9	1	19	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	1	0	0	12	11	1	55	0	0	215	88	40	18	1	1585	2	11
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 448: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 449: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 98.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	151	0	0	7	0	3	0	0	1	121	0	0	0	3	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	5202	0	12	0	0	8	15	1	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	44	0	430	0	0	3	85	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	7	0	2	95	0	193	0	0	31	9646	2	0	0	14	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	20	0	42	0	0	98	113	9	5	0	1750	3	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ule - Category confusion matrix of set 98.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	145	0	1	1	0	0	0	0	1	138	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	5182	0	16	0	0	8	32	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	23	0	346	0	0	4	176	0	0	0	13	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	12	0	0	10	0	35	0	0	9	9902	0	0	0	22	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	1	8	0	11	0	0	58	217	17	3	0	1725	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 450: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 451: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 98.





Sapal Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	0	0	0	0	0	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	0	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 452: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 453: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 98.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	0	0	0	0	0	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	0	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

ule - Color confusion matrix of set 98.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	0	0	0	0	0	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	0	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 454: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 455: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 98.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	0	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW	0	0	0	0	0	0	0	0	0	0	0	0
GRAY	0	0	0	0	0	0	0	0	0	0	0	0
GREEN	0	0	0	0	0	0	0	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	0	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	0	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	0	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

ule - Color confusion matrix of set 98.





Set 99 - United States 2023 **A.50**

Country: United States Year: 2023 View: any view

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1895	1895	1895	1895	1895	1895	1895	950
Annotation failed	0	0	0	19	20	20	20	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evelvete divisiteles	1895	1895	1895	1876	1875	1875	1875	950
Evaluated vehicles	100 %	100 %	100 %	99.0%	98.9 %	98.9%	98.9%	100 %

Table 456: Evaluated vehicles of set 99.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	99.5%	0	97.8%	1	97.4%	36	97.0%	68	95.6%	1554	27	81.1%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.9%	0	Х	Х	99.6%	0	98.1%	1	97.8%	35	98.1%	65	95.7%	1557	17	84.5%	0
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.9%	0	Х	Х	99.3%	0	93.4%	1	94.0%	105	93.8%	175	90.0%	1545	39	84.2%	0
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.9%	1	99.3%	0	94.5%	2	94.6%	72	94.2%	119	89.2%	1544	43	86.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.7%	0	99.3%	0	99.0%	18	98.7%	33	98.4%	1558	8	87.7%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	99.2%	0	99.0%	15	99.1%	30	97.7%	1557	10	88.8%	0
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.6%	0	98.3%	1	98.5%	29	98.4%	55	96.7%	1558	10	89.8%	0
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	99.8%	1	99.6%	0	98.8%	0	98.6%	23	98.4%	40	97.4%	1558	12	90.1%	0

Table 457: Classification results of set 99.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1851	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	5	0	0	0	8	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	23

 ${\it Category\ confusion\ matrix\ of\ set\ 99.}$

lage Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1851	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	5	0	0	0	8	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	24

Table 458: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 459: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 99.



Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1850	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	10	0	0	0	3	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	24

ule - Category confusion matrix of set 99.

Label 3	Class	DEPRECALED	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	(0 0	0	0	1850	0	0	0	1	0	0	0	0	0	0	0	0	0
CYCLE	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	(0 0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	(0 0	0	0	8	0	0	0	5	0	0	0	0	0	0	0	0	0
LUGGAGE	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	-	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	(0 0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	23

Table 460: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 461: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 99.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1850	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	3	0	0	0	10	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26

Table 462: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 463: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 99.

Kabel S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1851	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	3	0	0	0	10	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26

Category confusion matrix of set 99.

Kabel S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1851	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	4	0	0	0	9	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	24

ule - Category confusion matrix of set 99.

Se Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1851	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	4	0	0	0	9	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	24

Table 464: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 465: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 99.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	40	0	0	10	1	0	0	3	5	0
BROWN	0	0	0	1	0	7	0	0	2	0	5	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	4	2	0	231	0	0	0	13	26	0
GREEN	0	0	0	0	0	0	0	0	0	1	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	2	0
RED	0	0	0	1	0	8	0	0	102	1	13	0
WHITE	0	0	0	0	0	31	0	0	0	201	0	0
BLACK	0	0	28	0	0	12	0	0	0	1	189	0
ORANGE	0	0	0	0	1	0	0	0	0	0	0	5

Table 466: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 467: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 99.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	49	0	0	3	0	0	0	2	5	0
BROWN		0	0	0	0	0	8	0	0	2	0	5	0
YELLOW		0	0	0	0	1	0	0	0	0	0	0	0
GRAY		0	0	8	2	1	234	0	0	0	7	24	0
GREEN		0	0	1	0	0	0	0	0	0	0	3	0
PURPLE		0	0	0	0	0	0	0	0	0	0	2	0
RED		0	0	0	0	0	0	0	0	118	1	6	0
WHITE		0	0	0	0	0	36	0	0	0	193	3	0
BLACK		0	0	23	0	0	4	0	0	0	0	203	0
ORANGE		0	0	0	0	1	0	0	0	0	0	0	5

Color confusion matrix of set 99.

Label 5	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	37	0	0	9	1	0	0	3	9	0
BROWN		0	0	0	1	0	8	0	0	1	0	5	0
YELLOW		0	0	0	0	0	1	0	0	0	0	0	0
GRAY		0	0	3	1	0	239	1	0	0	8	24	0
GREEN		0	0	1	0	0	0	1	0	0	0	2	0
PURPLE		0	0	0	0	0	0	0	0	0	0	2	0
RED		0	0	0	0	0	15	0	0	103	0	6	1
WHITE		0	0	0	0	0	25	0	0	0	207	0	0
BLACK		0	0	5	0	0	15	0	0	0	0	210	0
ORANGE	Ī	0	0	0	0	0	0	0	0	4	0	0	2

ule - Color confusion matrix of set 99.

Label Se	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	43	0	0	5	0	0	0	3	8	0
BROWN	0	0	0	1	0	7	0	0	2	0	5	0
YELLOW	0	0	0	0	0	1	0	0	0	0	0	0
GRAY	0	0	0	0	0	252	0	0	0	3	21	0
GREEN	0	0	0	0	0	1	1	0	0	0	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	2	0
RED	0	0	0	0	0	1	0	0	122	0	2	0
WHITE	0	0	0	0	0	44	0	0	0	188	0	0
BLACK	0	0	6	0	0	14	0	0	1	0	209	0
ORANGE	0	0	0	0	1	0	0	0	2	0	0	3

Table 468: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 469: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 99.

Label U	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	54	0	0	1	0	0	0	3	1	0
BROWN	0	0	0	2	0	8	0	0	1	1	2	1
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	1	1	1	239	2	0	0	7	25	0
GREEN	0	0	1	0	0	0	2	0	0	0	1	0
PURPLE	0	0	0	0	0	0	0	0	1	0	1	0
RED	0	0	1	0	0	1	0	0	118	0	3	2
WHITE	0	0	0	0	0	19	1	0	0	211	1	0
BLACK	0	0	22	0	0	7	0	0	0	1	200	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	6

Table 470: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 471: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 99.

Label 5	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	51	0	0	2	1	0	0	2	3	0
BROWN	0	0	0	2	0	8	1	0	1	1	2	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	0	1	0	254	1	0	0	2	18	0
GREEN	0	0	0	0	0	0	1	0	0	0	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	2	0
RED	0	0	0	0	0	2	0	0	117	2	4	0
WHITE	0	0	0	0	0	22	0	0	0	210	0	0
BLACK	0	0	13	0	0	11	0	0	0	0	206	0
ORANGE	0	0	0	0	1	0	0	0	3	0	0	2

Color confusion matrix of set 99.



Label 5	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	49	0	0	4	0	0	1	2	3	0
BROWN	0	0	0	2	0	7	0	0	0	0	6	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	1	4	0	243	1	0	1	2	24	0
GREEN	0	0	0	0	0	0	1	0	0	0	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	2	0
RED	0	0	0	0	0	1	0	0	124	0	0	0
WHITE	0	0	0	0	0	17	0	0	0	215	0	0
BLACK	0	0	7	0	0	10	0	0	0	0	213	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	5

Table 472:MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) module - Color confusion matrix of set 99.Table 473:MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 99.

Label 2	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	54	0	0	3	0	0	0	2	0	0
BROWN	0	0	0	2	0	8	0	0	1	0	4	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	3	0	0	266	0	0	0	0	7	0
GREEN	0	0	1	0	0	1	0	0	0	0	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	2	0
RED	0	0	0	0	0	1	0	0	123	0	1	0
WHITE	0	0	0	0	0	25	0	0	0	207	0	0
BLACK	0	0	14	0	0	18	0	0	0	0	198	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	5

Set 100 - Bahrain 2023 **A.51**

Country: Bahrain View: frontal Year: 2023

Illumination: day and night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2691	2691	2691	2691	2691	2691	2691	2230
Annotation failed	0	0	0	36	94	98	99	0
Annotation unfinished	0	1949	0	0	0	0	0	0
Free locate al contribute	2691	742	2691	2655	2597	2593	2592	2230
Evaluated vehicles	100 %	27.6%	100 %	98.7%	96.5%	96.4%	96.3%	100 %

Table 474: Evaluated vehicles of set 100.

NA - dula Nama	D4		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.9%	0	98.6%	0	98.9%	18	98.9%	35	98.4%	2016	10	86.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	98.9%	0	99.1%	20	99.0%	41	98.4%	2016	11	86.8%	0
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.9%	0	97.9%	0	98.5%	35	98.6%	60	96.8%	2013	18	86.6%	0
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	100%	0	99.9%	0	98.1%	0	98.4%	30	98.3%	51	97.9%	2013	15	87.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.4%	0	99.7%	14	99.4%	20	98.1%	2017	5	90.0%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.5%	0	99.7%	11	99.3%	15	99.1%	2019	7	89.7%	0
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	100%	0	99.2%	0	99.4%	15	99.2%	23	98.4%	2017	10	89.2%	0
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	100%	0	100%	0	99.1%	0	99.8%	21	99.5%	28	99.3%	2019	15	89.1%	0

Table 475: Classification results of set 100.

Sse U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2534	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130

Category confusion matrix of set 100.

Signal Si	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2535	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	129

Table 476: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 477: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 100.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	2534	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	129

Table 478: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 479: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 100.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	2533	0	1	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	128

ule - Category confusion matrix of set 100.





Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2534	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130

Table 480: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 481: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 100.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	2534	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130

Category confusion matrix of set 100.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2534	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130

ule - Category confusion matrix of set 100.

Capel Capel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2534	0	0	0	1	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130

Table 482: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 483: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 100.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	76	0	0	14	0	0	0	0	15	0
BROWN	0	0	0	13	0	13	0	0	0	0	12	0
YELLOW	0	0	0	1	13	8	0	0	0	3	0	0
GRAY	0	0	11	3	0	556	1	0	0	29	45	0
GREEN	0	0	2	0	1	7	4	0	0	1	3	0
PURPLE	0	0	2	0	0	1	0	0	0	0	3	0
RED	0	0	0	1	0	0	0	0	92	1	6	0
WHITE	0	0	2	0	0	71	0	0	0	886	1	0
BLACK	0	0	14	2	0	27	0	0	0	1	286	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	1

Color confusion matrix of set 100.

	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	D	WHITE	BLACK	ORANGE
Label 5	ž	ă	EN	BL	BF	YE	GF	GF	PΓ	RED	>	BL	0
BLUE	Τ	0	0	71	0	0	20	0	0	0	0	14	0
BROWN	T	0	0	0	10	0	18	0	0	0	0	10	0
YELLOW	T	0	0	0	3	10	10	0	0	0	2	0	0
GRAY	Ī	0	0	11	2	0	582	0	0	0	26	24	0
GREEN	Ī	0	0	1	0	0	8	5	0	0	1	3	0
PURPLE	Ī	0	0	1	0	0	3	0	0	0	0	2	0
RED	T	0	0	2	3	0	1	0	0	89	2	3	0
WHITE	T	0	0	0	0	0	75	0	0	0	885	0	0
BLACK	Ī	0	0	16	2	0	29	0	0	0	1	282	0
ORANGE	T	0	0	0	0	0	0	0	0	2	0	0	1

Table 484: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 485: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 100.



Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	62	0	0	22	0	0	0	0	21	0
BROWN	0	0	0	8	0	17	0	1	0	0	12	0
YELLOW	0	0	0	1	12	11	0	0	0	1	0	0
GRAY	0	0	2	7	0	558	0	0	0	39	39	0
GREEN	0	0	0	0	0	9	6	0	0	1	2	0
PURPLE	0	0	0	1	0	3	0	0	0	0	2	0
RED	0	0	0	1	0	0	0	0	88	2	8	1
WHITE	0	0	0	0	0	51	0	0	0	907	2	0
BLACK	0	0	9	6	0	25	0	0	0	0	290	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	1

Table 486: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 487: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 100.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	72	0	0	18	0	0	0	2	13	0
BROWN	0	0	0	5	0	19	0	0	0	0	14	0
YELLOW	0	0	0	2	14	7	0	0	0	2	0	0
GRAY	0	0	10	0	0	554	0	0	0	55	26	0
GREEN	0	0	1	0	0	6	8	0	0	1	2	0
PURPLE	0	0	1	0	0	2	0	0	0	0	3	0
RED	0	0	0	1	0	2	0	0	89	2	5	1
WHITE	0	0	0	0	0	40	0	0	0	919	1	0
BLACK	0	0	18	1	0	28	0	0	0	1	282	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	2

ule - Color confusion matrix of set 100.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	76	0	0	15	0	0	0	1	13	0
BROWN	0	0	0	10	0	17	0	1	0	1	9	0
YELLOW	0	0	0	3	10	11	0	0	0	1	0	0
GRAY	0	0	6	6	0	572	2	0	0	35	24	0
GREEN	0	0	3	0	1	4	9	0	0	0	1	0
PURPLE	0	0	2	0	0	3	0	0	0	0	1	0
RED	0	0	1	1	0	0	0	0	93	1	4	0
WHITE	0	0	0	0	0	22	0	0	0	938	0	0
BLACK	0	0	13	3	0	16	0	0	0	0	298	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	1

Color confusion matrix of set 100.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	69	0	0	19	0	0	0	0	17	0
BROWN	0	0	0	11	0	17	0	0	0	0	10	0
YELLOW	0	0	0	2	10	12	0	0	0	1	0	0
GRAY	0	0	1	4	0	584	0	0	0	30	26	0
GREEN	0	0	2	0	0	9	4	0	0	0	3	0
PURPLE	0	0	1	0	0	2	0	0	0	0	3	0
RED	0	0	1	1	0	0	0	0	88	2	8	0
WHITE	0	0	0	0	0	28	0	0	0	932	0	0
BLACK	0	0	6	2	0	19	0	0	1	1	301	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	2

Table 488: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 489: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 100.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	72	0	0	16	0	0	0	1	16	0
BROWN	0	0	0	9	0	18	0	0	0	0	11	0
YELLOW	0	0	0	1	12	11	0	0	0	1	0	0
GRAY	0	0	4	3	0	568	0	0	0	27	43	0
GREEN	0	0	2	0	0	5	6	0	0	1	4	0
PURPLE	0	0	2	0	0	1	0	0	0	0	3	0
RED	0	0	0	1	0	0	0	1	92	1	5	0
WHITE	0	0	0	1	0	29	0	0	0	930	0	0
BLACK	0	0	11	1	0	18	0	0	1	0	299	0
ORANGE	0	0	0	0	0	0	0	0	2	0	0	1

Table 490: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 491: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 100.

Label ō	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	75	0	0	18	0	0	0	0	12	0
BROWN	0	0	0	9	0	21	0	1	0	0	7	0
YELLOW	0	0	0	2	10	12	1	0	0	0	0	0
GRAY	0	0	5	5	0	595	0	0	0	14	26	0
GREEN	0	0	1	0	0	10	5	0	0	1	1	0
PURPLE	0	0	1	0	0	2	0	0	0	0	3	0
RED	0	0	0	1	0	1	0	1	94	1	2	0
WHITE	0	0	0	0	0	49	0	0	0	911	0	0
BLACK	0	0	12	3	0	28	0	0	0	0	287	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	2

ule - Color confusion matrix of set 100.





Set 101 - Switzerland 2023 **A.52**

Country: Switzerland View: any view Year: 2023

Illumination: day and night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	1387	1387	1387	1387	1387	1387	1387	0
Annotation failed	0	0	0	71	110	122	122	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-rated vehicles	1387	1387	1387	1316	1277	1265	1265	0
Evaluated vehicles	100 %	100 %	100 %	94.9 %	92.1 %	91.2%	91.2%	0.0%

Table 492: Evaluated vehicles of set 101.

Mandada Nassa	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.8%	0	Х	Х	99.2%	0	99.1%	16	98.3%	26	98.0%	37	96.1%	845	10	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.9%	0	Х	Х	99.2%	0	99.1%	14	98.7%	26	97.9%	32	94.2%	845	7	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.4%	0	98.6%	15	97.9%	28	97.5%	44	95.3%	841	21	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	98.8%	1	99.8%	0	99.0%	14	98.1%	28	97.9%	42	96.3%	847	10	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.9%	0	Х	Х	99.4%	1	99.7%	15	99.4%	19	99.2%	25	97.6%	847	5	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.9%	0	Х	Х	99.4%	0	99.8%	15	99.4%	19	99.0%	24	97.1%	849	2	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.4%	0	99.8%	15	99.4%	19	99.2%	21	98.3%	847	5	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	98.8%	1	99.8%	0	99.8%	13	99.5%	22	99.4%	25	98.1%	849	1	Х	Х

Table 493: Classification results of set 101.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1264	0	1	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	1	0	0	0	0	0	12	0	1	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	72

Table 494: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 495: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module - ${\it Category \, confusion \, matrix \, of \, set \, 101.}$

lage Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1265	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	2	0	0	0	0	0	11	0	1	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	72

Category confusion matrix of set 101.



Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1265	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	73

ule - Category confusion matrix of set 101.

	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1265	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74

Table 496: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 497: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 101.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	1	0	0	1264	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	2	0	0	0	0	0	12	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74

Table 498: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 499: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 101.

lages Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1264	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	3	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74

Category confusion matrix of set 101.

Label 5	Cidas	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1264	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	I	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0
KICKBIKE	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	I	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
LUGGAGE	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	T	0	0	0	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74

ule - Category confusion matrix of set 101.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1265	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	7	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	1	0	0	0	0	0	13	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74

Table 500: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 501: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 101.



Set 102 - Czech Republic 2023 **A.53**

Country: Czech Republic View: frontal Year: 2023

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	8951	8951	8951	8951	8951	8951	8951	8951
Annotation failed	0	0	0	11	11	11	11	0
Annotation unfinished	0	0	0	0	0	0	0	0
Free locate al contribute	8951	8951	8951	8940	8940	8940	8940	8951
Evaluated vehicles	100 %	100 %	100 %	99.9%	99.9%	99.9%	99.9%	100 %

Table 502: Evaluated vehicles of set 102.

Mandada Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.8%	20	99.6%	25	98.9%	6889	13	94.8%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.8%	21	99.7%	23	99.0%	6885	8	95.2%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.9%	0	99.8%	21	99.7%	24	98.9%	6889	12	96.0%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	100%	0	99.9%	0	99.8%	18	99.7%	21	99.1%	6888	10	95.4%	0

Table 503: Classification results of set 102.

Label San Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	967	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	946

Category confusion matrix of set 102.

Label i	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	967	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	946

Table 504: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 505: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 102.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	967	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	946

Table 506: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 507: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 102.

Sse U	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	6816	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	967	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	946

Category confusion matrix of set 102.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1108	0	3	49	19	0	0	4	27	0
BROWN	0	0	0	282	9	13	0	0	0	3	1	5
YELLOW	0	0	2	13	137	10	0	0	0	2	0	0
GRAY	0	0	17	25	6	2168	15	0	0	26	47	0
GREEN	0	0	0	7	0	8	244	0	0	0	5	0
PURPLE	0	0	0	0	0	3	0	0	3	0	0	0
RED	0	0	0	2	0	0	0	0	781	2	0	3
WHITE	0	0	1	0	2	25	5	0	1	2496	1	1
BLACK	0	0	5	33	0	44	5	2	2	4	1212	0
ORANGE	0	0	0	2	1	0	0	0	0	0	0	60

Table 508:	MMR_VCMMGVCT_FAST_2024Q2 (20240517) module
Color confusion	matrix of set 102.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1137	0	3	36	15	0	0	3	16	0
BROWN	0	0	0	287	4	12	0	0	0	3	2	5
YELLOW	0	0	2	18	134	8	0	0	0	2	0	0
GRAY	0	0	12	24	5	2175	27	0	0	21	40	0
GREEN	0	0	0	6	2	8	240	0	0	0	8	0
PURPLE	0	0	0	0	0	4	0	0	2	0	0	0
RED	0	0	0	0	0	0	0	0	775	3	1	9
WHITE	0	0	0	0	2	26	7	0	0	2493	1	3
BLACK	0	0	4	27	0	39	7	3	0	4	1223	0
ORANGE	0	0	0	2	0	0	0	0	2	0	0	59

- Table 509: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 102.

Label U	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1151	0	3	31	10	0	0	5	10	0
BROWN	0	0	0	282	6	14	0	0	2	3	0	6
YELLOW	0	0	0	16	138	10	0	0	0	0	0	0
GRAY	0	0	12	25	1	2214	13	0	0	17	21	1
GREEN	0	0	3	7	2	8	238	0	0	2	4	0
PURPLE	0	0	0	1	0	0	0	2	3	0	0	0
RED	0	0	0	1	0	0	0	0	779	2	0	6
WHITE	0	0	3	0	2	18	1	0	0	2508	0	0
BLACK	0	0	12	25	0	43	3	2	0	4	1218	0
ORANGE	0	0	0	2	0	1	0	0	0	0	0	60

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1101	0	3	63	10	0	0	3	30	0
BROWN	0	0	0	277	5	23	0	0	0	3	0	5
YELLOW	0	0	0	12	142	10	0	0	0	0	0	0
GRAY	0	0	10	20	5	2212	8	0	0	15	34	0
GREEN	0	0	0	8	1	9	240	0	0	0	6	0
PURPLE	0	0	0	0	0	4	0	0	2	0	0	0
RED	0	0	0	3	0	0	0	0	777	2	0	6
WHITE	0	0	1	0	2	25	1	0	0	2502	1	0
BLACK	0	0	3	28	0	40	3	1	0	5	1227	0
ORANGE	0	0	0	1	0	0	0	0	0	1	0	61

Set 103 - Czech Republic 2023 **A.54**

Country: Czech Republic View: frontal Year: 2023

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	10550	10550	10550	10550	10550	10550	10550	10550
Annotation failed	0	0	1	286	305	317	327	0
Annotation unfinished	0	0	0	0	0	0	0	0
Frankrata di rebiales	10550	10550	10549	10264	10245	10233	10223	10550
Evaluated vehicles	100 %	100 %	100 %	97.3%	97.1%	97.0%	96.9%	100 %

Table 512: Evaluated vehicles of set 103.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.9%	0	Х	Х	99.4%	0	99.3%	916	99.2%	944	99.0%	951	97.6%	8092	15	89.4%	116
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	99.0%	1	99.5%	0	99.4%	927	99.4%	953	99.3%	958	97.9%	8098	10	89.5%	116
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.6%	0	99.6%	936	99.6%	961	99.5%	968	98.5%	8104	13	90.5%	116
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	99.0%	1	99.6%	0	99.5%	928	99.5%	950	99.4%	954	98.4%	8099	10	90.7%	116

Table 513: Classification results of set 103.

Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN		Label 3
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	İ	ANIMAL
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	BUS
CAR	0	0	0	0	7402	0	0	0	0	0	0	0	0	3	0	0	0	5	ı	CAR
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	CYCLE
HVT	0	0	0	0	0	0	923	0	1	0	0	0	0	0	0	0	0	0	ı	HVT
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		KICKBIKE
LGT	0	0	0	0	0	0	0	0	103	0	0	0	0	0	2	0	0	1		LGT
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		LUGGAGE
MTB	0	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0		MTB
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		PEDESTRIAN
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	SPECIAL
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	150	2	0	0	0	ı	TO12
TO34	0	0	0	0	0	0	36	0	2	0	0	0	0	2	642	0	1	0	ı	TO34
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ı	TROLLEY
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	6	1	0	0	1029		VAN

ule - Category confusion matrix of set 103.

Label	Class DFPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7403	0	0	0	0	0	0	0	0	1	0	0	0	6
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	923	0	0	0	0	0	0	0	1	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	102	0	0	0	0	0	2	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	152	0	0	0	0
TO34	0	0	0	1	0	0	24	0	2	0	0	0	0	2	654	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	1028

Table 514: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 515: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 103.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7404	0	0	0	0	0	0	0	0	1	0	0	0	5
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	923	0	0	0	0	0	0	0	1	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	102	0	0	0	0	0	0	0	0	3
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	151	0	0	0	1
TO34	0	0	0	0	0	0	14	0	2	0	0	0	0	3	664	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	0	1029

Table 516: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 517: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 103.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	7404	0	0	0	0	0	0	0	0	1	0	0	0	5
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	923	0	0	0	0	0	0	0	1	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	103	0	0	0	0	0	0	0	0	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	152	0	0	0	0
TO34	0	0	0	0	0	0	23	0	2	0	0	0	0	2	656	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1031

ule - Category confusion matrix of set 103.





Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1202	0	15	69	26	0	9	52	45	0
BROWN	0	0	1	297	12	21	0	0	2	4	0	5
YELLOW	0	0	8	18	149	15	0	0	3	16	0	0
GRAY	0	0	49	32	10	2383	19	0	25	209	63	1
GREEN	0	0	0	8	2	12	260	0	2	9	5	0
PURPLE	0	0	0	0	0	4	0	0	0	2	0	0
RED	0	0	0	3	1	4	2	0	857	25	0	5
WHITE	0	0	6	1	2	35	3	0	8	2842	0	1
BLACK	0	0	18	45	0	54	6	1	0	5	1274	0
ORANGE	0	0	0	1	4	1	0	0	2	0	0	60

Table 518:	MMRBOX_	VCMMGVCT_	FAST	2024Q2	(20240519)	mod-
ule - Color conj						

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1194	1	20	73	20	0	10	54	46	0
BROWN	0	0	2	293	10	20	0	0	2	5	3	7
YELLOW	0	0	6	14	153	16	2	0	3	15	0	0
GRAY	0	0	45	30	12	2372	23	0	30	223	53	3
GREEN	0	0	2	7	2	10	264	0	2	10	1	0
PURPLE	0	0	0	0	0	4	0	1	1	0	0	0
RED	0	0	0	4	2	1	2	0	861	22	0	5
WHITE	0	0	3	0	3	19	6	0	8	2852	3	4
BLACK	0	0	18	37	0	50	4	1	3	2	1288	0
ORANGE	0	0	0	3	0	0	0	0	4	0	0	61

Table 519: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 103.

Label	Class	DEPRECATE	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	1217	1	21	55	18	0	8	55	43	0
BROWN		0	0	0	302	7	16	0	0	3	4	3	7
YELLOW		0	0	6	17	149	17	0	0	4	16	0	0
GRAY		0	0	37	32	9	2430	20	0	30	182	50	1
GREEN		0	0	1	7	1	10	260	0	2	8	9	0
PURPLE		0	0	0	0	0	2	0	2	2	0	0	0
RED		0	0	0	0	1	3	3	0	859	26	0	5
WHITE		0	0	7	0	5	23	4	0	5	2849	4	1
BLACK		0	0	12	37	0	36	3	4	0	5	1306	0
ORANGE		0	0	0	0	0	0	0	0	3	1	0	64

Table 520:MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) module - Color confusion matrix of set 103.Table 521:MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 103.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	1237	0	16	65	13	0	11	47	29	0
BROWN	0	0	0	296	6	26	0	0	2	4	1	7
YELLOW	0	0	6	17	149	20	0	0	3	14	0	0
GRAY	0	0	42	29	7	2486	17	0	33	159	14	4
GREEN	0	0	0	7	0	19	260	0	2	8	2	0
PURPLE	0	0	0	0	0	3	0	0	3	0	0	0
RED	0	0	0	1	1	2	1	0	863	21	0	8
WHITE	0	0	2	0	2	38	0	0	7	2847	1	1
BLACK	0	0	17	48	0	68	4	3	3	3	1257	0
ORANGE	0	0	0	0	0	1	0	0	2	0	0	65



Set 104 - Czech Republic 2024 **A.55**

Country: Czech Republic View: frontal Year: 2024

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2231	2231	2231	2231	2231	2231	2231	0
Annotation failed	0	0	0	2	3	3	3	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evaluate dividision	2231	2231	2231	2229	2228	2228	2228	0
Evaluated vehicles	100%	100%	100 %	99.9%	99.9%	99.9%	99.9%	0.0%

Table 522: Evaluated vehicles of set 104.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.9%	0	99.8%	0	99.5%	4	99.2%	8	97.9%	1690	10	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.7%	5	99.6%	7	98.5%	1691	5	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.7%	3	99.5%	4	97.7%	1689	8	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.9%	0	99.9%	0	99.8%	2	99.8%	3	99.2%	1691	5	Х	Х

Table 523: Classification results of set 104.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	13	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	184

Table 524: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 525: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 104.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	13	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	184

Category confusion matrix of set 104.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	13	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	184

Table 526: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 527: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 104.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	13	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	184

Category confusion matrix of set 104.





Set 105 - Czech Republic 2024 **A.56**

Country: Czech Republic View: frontal Year: 2024

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2066	2066	2066	2066	2066	2066	2066	0
Annotation failed	0	0	2	114	253	275	275	0
Annotation unfinished	0	0	0	0	0	0	0	0
Free locate al control o	2066	2066	2064	1952	1813	1791	1791	0
Evaluated vehicles	100 %	100 %	99.9 %	94.5%	87.8%	86.7 %	86.7 %	0.0%

Table 528: Evaluated vehicles of set 105.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.7%	0	98.7%	0	98.0%	13	96.9%	30	97.1%	1394	18	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	98.8%	0	98.5%	13	97.3%	18	93.6%	1391	9	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	100%	0	99.8%	0	99.1%	4	98.4%	12	97.9%	1395	12	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	100%	0	99.6%	0	99.3%	3	98.7%	9	97.4%	1395	9	Х	Х

Table 529: Classification results of set 105.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1810	0	0	0	0	0	0	0	0	0	0	0	0	5
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	152

Table 530: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 531: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 105.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1814	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	152

Category confusion matrix of set 105.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1815	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	152

Table 532: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 533: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 105.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1815	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153

Category confusion matrix of set 105.

Set 106 - Czech Republic 2024 **A.57**

Country: Czech Republic View: frontal Year: 2024

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2457	2457	2457	2457	2457	2457	2457	0
Annotation failed	0	0	2	58	83	89	90	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-veted velotides	2457	2457	2455	2399	2374	2368	2367	0
Evaluated vehicles	100%	100%	99.9%	97.6%	96.6%	96.4%	96.3%	0.0%

Table 534: Evaluated vehicles of set 106.

Mandrida Nama	D4:	Vie	w	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.4%	0	Х	Х	99.1%	0	99.3%	40	98.8%	44	98.4%	55	97.5%	1801	15	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.5%	0	97.5%	11	99.3%	0	99.5%	41	99.3%	49	99.3%	55	98.6%	1802	11	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.6%	0	Х	Х	99.5%	0	99.9%	42	99.7%	44	99.5%	48	98.4%	1802	9	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.8%	0	97.3%	7	99.6%	0	99.8%	41	99.7%	44	99.8%	46	99.5%	1805	5	Х	Х

Table 535: Classification results of set 106.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2185	0	0	0	0	0	3	1	0	3	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	1	1	0	0	0	0	5	13	0	1	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	176

Table 536: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 537: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 106.

Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2186	0	0	0	0	0	1	0	0	3	1	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	2	0	0	0	0	2	17	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	175

ule - Category confusion matrix of set 106.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2191	0	0	0	0	0	1	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	1	0	1	0	0	2	15	1	1	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	176

Table 538: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 539: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 106.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	2190	0	0	0	0	0	1	0	0	2	0	0	0	0
CYCLE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	1	0	0	3	17	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	176

ule - Category confusion matrix of set 106.



Set 107 - Czech Republic 2024 **A.58**

Country: Czech Republic View: frontal Year: 2024

Illumination: night Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2042	2042	2042	2042	2042	2042	2042	0
Annotation failed	0	0	3	170	310	333	334	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-veted velotides	2042	2042	2039	1872	1732	1709	1708	0
Evaluated vehicles	100%	100%	99.9%	91.7%	84.8 %	83.7 %	83.6%	0.0%

Table 540: Evaluated vehicles of set 107.

Mandrida Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.7%	0	98.0%	3	97.1%	24	96.1%	48	93.9%	1319	28	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.8%	0	90.0%	2	99.8%	1	98.1%	4	97.1%	21	95.1%	39	91.7%	1317	19	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.8%	0	Х	Х	99.9%	0	99.3%	3	98.9%	12	97.9%	21	98.1%	1324	15	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	89.7%	0	99.8%	0	99.2%	3	99.0%	15	98.2%	21	96.8%	1325	8	X	Х

Table 541: Classification results of set 107.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1860	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	2	1	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	127

Table 542: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 543: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 107.

Label Saks	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	19	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1859	0	0	0	0	0	1	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	1	0	1	1	0	0	0	15	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129

ule - Category confusion matrix of set 107.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1860	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	17	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	128

ule - Category confusion matrix of set 107.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1859	0	0	0	0	0	0	1	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	1	0	0	0	17	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	128

Table 544: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 545: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 107.



Set 108 - Czech Republic 2024 **A.59**

Country: Czech Republic View: frontal Year: 2024

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2149	2149	2149	2149	2149	2149	2149	0
Annotation failed	0	0	0	1	2	2	2	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evaluate dividision	2149	2149	2149	2148	2147	2147	2147	0
Evaluated vehicles	100%	100%	100%	100%	99.9%	99.9%	99.9%	0.0%

Table 546: Evaluated vehicles of set 108.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.9%	0	99.8%	0	99.5%	3	99.3%	7	98.1%	1620	9	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.8%	3	99.7%	4	98.5%	1621	4	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.3%	1	99.0%	9	97.3%	1619	11	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	97.7%	0	99.9%	0	99.9%	0	99.6%	2	99.7%	6	98.8%	1621	6	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.7%	2	99.5%	2	97.9%	1619	7	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.8%	1	99.8%	2	99.2%	1621	5	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.9%	0	99.9%	0	99.6%	2	99.5%	4	98.3%	1620	8	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	97.3%	0	99.9%	0	99.9%	0	99.8%	1	99.8%	3	99.4%	1623	4	Х	Х

Table 547: Classification results of set 108.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Category confusion matrix of set 108.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Table 548: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 549: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 108.

Class Clabel	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Table 550: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 551: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 108.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

ule - Category confusion matrix of set 108.





Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Category confusion matrix of set 108.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Table 552: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 553: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 108.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	C	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	C	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	C	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	C	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	C	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

Table 554: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 555: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 108.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	-	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	-	0	0	0	0	1946	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	1	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	1	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
LUGGAGE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	160

ule - Category confusion matrix of set 108.



Set 109 - United States 2024 **A.60**

Country: United States Year: 2024 View: any view

Illumination: day **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	8675	8675	8675	8675	8675	8675	8675	8675
Annotation failed	0	0	0	8	8	10	13	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evelvete divisiteles	8675	8675	8675	8667	8667	8665	8662	8675
Evaluated vehicles	100 %	100 %	100 %	99.9%	99.9 %	99.9%	99.9%	100 %

Table 556: Evaluated vehicles of set 109.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.6%	0	99.3%	3	98.9%	76	97.9%	131	97.4%	6997	22	78.1%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.7%	0	99.5%	1	99.3%	59	99.1%	100	98.7%	7004	13	84.4%	0
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.7%	0	98.2%	2	97.8%	134	96.8%	244	95.9%	6984	45	80.0%	0
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	80.7%	1	99.8%	0	98.3%	2	98.6%	128	98.2%	214	98.0%	6999	52	84.5%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.9%	0	99.7%	1	99.4%	50	98.6%	100	98.2%	7006	5	85.0%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	0	99.8%	1	99.7%	38	99.3%	52	99.5%	7008	7	87.7%	0
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.7%	0	99.2%	3	99.1%	91	98.3%	148	98.2%	7001	21	83.6%	0
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	82.9%	1	99.8%	0	99.3%	2	99.5%	72	99.1%	112	98.7%	7005	15	87.7%	0

Table 557: Classification results of set 109.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	7	0	0	7	0	2	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	8383	0	0	0	3	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	38	0	0	0	0	0	0	0	0	0	0	2
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	7	0	0	0	76	0	0	0	0	0	0	0	1	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	4	0	1	0	4	0	0	0	0	0	0	0	0	136

 ${\it Category \, confusion \, matrix \, of \, set \, 109.}$

lage Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	8383	0	0	0	2	0	0	0	0	0	0	0	1	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	39	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	8	0	1	0	74	0	0	0	0	0	0	0	1	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	2	2	0	1	0	1	0	0	0	0	0	0	0	0	140

Table 558: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 559: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 109.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	7	0	0	9	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	8386	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	38	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	5	0	2	0	76	0	0	0	0	0	0	0	1	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	2	0	2	0	0	0	0	0	0	0	0	141

ule - Category confusion matrix of set 109.

Ss Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	8384	0	0	0	2	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	39	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	5	0	2	0	76	0	0	0	0	0	0	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	142

Table 560: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 561: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 109.

Sa Su	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	13	0	0	4	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	8386	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	39	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	4	0	0	0	79	0	0	0	0	0	0	0	1	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146

Table 562: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 563: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 109.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8383	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	39	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	4	0	0	0	79	0	0	0	0	0	0	0	1	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	144

Category confusion matrix of set 109.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	5	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	8386	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	38	0	2	0	0	0	1	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	5	0	1	0	75	0	0	0	0	0	0	0	1	2
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	142

Table 564: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 565: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 109.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	2	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	8383	0	0	0	4	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	40	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	3	0	3	0	78	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	143

ule - Category confusion matrix of set 109.



Label 2	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	C	0	190	0	0	133	2	0	1	7	191	0
BROWN	C	0	0	22	0	49	0	0	3	0	74	1
YELLOW	C	0	0	2	27	35	2	0	0	8	2	5
GRAY	C	0	2	39	4	1981	12	0	11	141	504	0
GREEN	C	0	0	3	0	13	1	0	0	0	18	0
PURPLE	C	0	1	0	0	15	0	0	0	0	15	0
RED	C	0	0	16	0	125	0	0	813	30	111	9
WHITE	C	0	0	1	3	186	1	0	0	1987	12	0
BLACK	C	0	9	3	1	83	2	0	7	2	1744	0
ORANGE	C	0	0	1	1	3	0	0	1	2	0	8

Table 566: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 567: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 109.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	273	0	0	121	0	0	0	8	122	0
BROWN	0	0	0	22	0	58	0	0	9	0	59	1
YELLOW	0	0	0	3	25	42	0	0	0	10	0	1
GRAY	0	0	14	11	2	2266	3	1	9	63	325	0
GREEN	0	0	2	2	0	11	0	0	0	0	20	0
PURPLE	0	0	4	0	0	13	0	0	0	2	12	0
RED	0	0	0	6	0	64	0	0	976	7	47	4
WHITE	0	0	1	3	2	176	0	0	3	1998	6	1
BLACK	0	0	17	6	0	73	0	0	3	0	1752	0
ORANGE	0	0	0	0	0	0	0	0	5	0	0	11

Color confusion matrix of set 109.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	200	0	0	140	2	0	1	5	176	0
BROWN	0	0	0	31	0	74	0	0	2	2	40	0
YELLOW	0	0	0	6	23	36	0	0	1	12	0	3
GRAY	0	0	7	57	1	2186	4	0	3	144	292	0
GREEN	0	0	1	0	0	16	0	0	0	0	18	0
PURPLE	0	0	3	0	0	17	0	0	0	1	10	0
RED	0	0	1	9	0	222	0	0	807	25	38	2
WHITE	0	0	1	0	2	149	0	0	0	2029	9	0
BLACK	0	0	9	13	0	157	0	0	7	8	1657	0
ORANGE	0	0	0	3	1	2	0	0	1	0	0	9

Table 568: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 569: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 109.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	269	0	0	125	1	0	2	6	121	0
BROWN	0	0	0	25	0	62	0	0	8	1	52	1
YELLOW	0	0	0	3	35	37	0	0	0	6	0	0
GRAY	0	0	6	37	4	2237	2	0	12	124	272	0
GREEN	0	0	0	1	0	18	1	0	0	0	15	0
PURPLE	0	0	0	0	0	17	0	0	0	2	12	0
RED	0	0	0	9	0	40	0	0	1011	18	21	5
WHITE	0	0	0	0	0	122	0	0	1	2066	1	0
BLACK	0	0	10	6	0	136	0	0	13	2	1684	0
ORANGE	0	0	0	4	1	0	0	0	4	1	0	6

ule - Color confusion matrix of set 109.

Se S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	308	0	0	89	1	2	1	5	117	1
BROWN	0	0	0	42	0	46	0	0	12	1	46	2
YELLOW	0	0	0	13	11	37	0	0	0	12	1	7
GRAY	0	0	11	63	4	2230	9	2	12	86	277	0
GREEN	0	0	2	1	0	13	3	0	0	0	16	0
PURPLE	0	0	2	0	0	16	0	1	3	1	8	0
RED	0	0	0	8	2	33	0	2	1008	30	20	1
WHITE	0	0	2	1	0	166	0	0	1	2015	5	0
BLACK	0	0	11	9	0	76	1	0	7	2	1745	0
ORANGE	0	0	0	0	0	0	0	0	1	0	0	15

Table 570: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 571: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 109.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	331	0	0	84	0	0	0	4	105	0
BROWN	0	0	0	40	0	55	0	0	2	0	52	0
YELLOW	0	0	0	2	16	48	0	0	0	10	0	5
GRAY	0	0	6	19	1	2386	6	0	1	45	230	0
GREEN	0	0	1	0	0	16	4	0	0	0	14	0
PURPLE	0	0	3	0	0	17	0	1	0	1	9	0
RED	0	0	0	4	0	45	0	1	1024	6	22	2
WHITE	0	0	0	0	0	151	1	0	0	2036	2	0
BLACK	0	0	13	1	0	82	0	0	0	1	1754	0
ORANGE	0	0	0	0	0	0	0	0	3	1	0	12

Color confusion matrix of set 109.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	278	0	0	102	0	4	6	6	128	0
BROWN		0	0	0	27	0	45	0	1	18	0	56	2
YELLOW		0	0	0	6	10	44	0	0	0	9	0	12
GRAY		0	0	11	45	2	2177	1	3	47	81	326	1
GREEN		0	0	1	0	0	13	2	0	0	0	19	0
PURPLE		0	0	1	0	0	13	0	0	8	2	7	0
RED		0	0	0	1	0	49	0	1	1019	6	26	2
WHITE		0	0	0	1	1	187	0	0	0	1995	6	0
BLACK		0	0	14	9	1	69	0	1	11	6	1739	1
ORANGE		0	0	0	0	0	0	0	0	7	0	0	9

Table 572: MMRI	OX_VCMMGVCT	PREC	2024Q2	(20240520)	mod-
ule - Color confusion i	natrix of set 109.				

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	351	0	0	94	0	1	1	5	72	0
BROWN	0	0	0	33	0	71	0	0	10	0	35	0
YELLOW	0	0	0	4	18	48	0	0	1	9	0	1
GRAY	0	0	15	23	1	2452	1	0	5	29	168	0
GREEN	0	0	3	1	0	14	1	0	0	0	16	0
PURPLE	0	0	2	0	0	18	0	0	4	2	5	0
RED	0	0	0	0	0	36	0	0	1049	6	11	2
WHITE	0	0	2	2	0	186	0	0	0	1999	1	0
BLACK	0	0	21	11	0	124	0	0	1	1	1693	0
ORANGE	0	0	0	1	0	0	0	0	3	0	0	12

d- **Table 573:** MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 109.

Set 110 - United States 2024 **A.61**

Country: United States View: any view Year: 2024

Illumination: night **Color**: color and gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	4130	4130	4130	4130	4130	4130	4130	0
Annotation failed	0	0	0	154	154	155	156	0
Annotation unfinished	0	0	0	0	2848	2878	2884	0
Fredricked relation	4130	4130	4130	3976	1128	1097	1090	0
Evaluated vehicles	100 %	100 %	100 %	96.3%	27.3 %	26.6%	26.4%	0.0%

Table 574: Evaluated vehicles of set 110.

Mandrida Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.6%	0	94.6%	1	94.4%	40	93.9%	72	92.3%	889	18	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.8%	0	96.2%	0	97.3%	27	97.0%	40	96.2%	895	12	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	100%	0	Х	Х	99.7%	0	93.1%	1	94.8%	56	93.9%	93	91.8%	887	21	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	100%	0	57.4%	0	99.9%	0	94.3%	0	96.6%	47	96.4%	66	92.6%	890	10	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.9%	0	Х	Х	99.9%	0	98.7%	1	98.3%	17	98.6%	26	98.4%	897	7	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.9%	1	99.0%	2	99.0%	15	99.5%	20	98.4%	897	4	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	100%	0	Х	Х	99.8%	0	97.9%	1	97.7%	27	97.7%	43	95.7%	894	9	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	65.3%	0	99.9%	0	98.2%	0	98.8%	18	99.0%	26	97.9%	895	4	Х	Х

Table 575: Classification results of set 110.

Label i	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR		0	0	0	0	4065	0	0	0	2	0	0	0	0	0	0	0	0	8
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	5	0	0	0	19	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19

 ${\it Category \, confusion \, matrix \, of \, set \, 110.}$

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4072	0	0	0	1	0	0	0	0	0	0	0	0	2
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	4	0	0	0	20	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	17

Table 576: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 577: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 110.



Label CI	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	4071	0	0	0	0	0	0	0	0	0	0	0	0	4
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	9	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	3	0	0	0	21	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	17

Table 578: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 579: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 110.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	4073	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	9	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	2	0	0	0	22	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18

ule - Category confusion matrix of set 110.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	0	4073	0	0	0	1	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	2	0	0	0	22	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18

Table 580: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 581: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 110.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	Ī	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	4072	0	0	0	1	0	0	0	0	0	0	0	0	2
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	Ī	0	0	0	0	1	0	0	0	23	0	0	0	0	0	0	0	0	0
LUGGAGE	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18

Category confusion matrix of set 110.

Kabel S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4068	0	1	0	0	0	0	0	0	0	0	0	0	6
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18

Table 582: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 583: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 110.

Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4073	0	0	0	1	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18

ule - Category confusion matrix of set 110.



Set 113 - Vietnam 2024 **A.62**

Country: Vietnam View: frontal Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	659	659	659	659	659	659	659	659
Annotation failed	0	0	0	0	0	2	2	0
Annotation unfinished	0	0	0	0	0	0	0	0
5 1 . 1 . 1 . 1	659	659	659	659	659	657	657	659
Evaluated vehicles	100 %	100 %	100 %	100 %	100 %	99.7%	99.7 %	100 %

Table 584: Evaluated vehicles of set 113.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ike	Mo	del	Gener	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.4%	0	94.2%	0	92.9%	26	93.8%	44	87.0%	511	31	80.4%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.5%	0	98.2%	1	97.7%	13	98.9%	25	99.2%	520	4	81.0%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.7%	0	97.4%	1	96.4%	24	97.7%	41	98.1%	521	30	81.3%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.8%	0	98.8%	0	98.8%	15	98.4%	19	96.4%	519	1	80.3%	0

Table 585: Classification results of set 113.

Label S	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	115	0	4	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34

Category confusion matrix of set 113.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	22	0	0	0	0	1	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	117	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34

Table 586: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 587: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 113.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	117	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34

Table 588: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 589: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 113.

Label San Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	118	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34

Category confusion matrix of set 113.

Sa Label	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	23	0	0	4	1	0	0	1	11	0
BROWN	0	0	0	1	0	3	0	0	0	0	10	0
YELLOW	0	0	1	2	7	4	0	0	0	2	1	0
GRAY	0	0	1	0	0	105	1	0	0	26	28	0
GREEN	0	0	0	0	0	1	3	0	0	0	3	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	8	0	0	0	0	45	1	2	11
WHITE	0	0	0	0	0	0	0	0	0	248	1	0
BLACK	0	0	0	0	0	0	0	0	0	0	90	0
ORANGE	0	0	0	3	1	0	0	0	1	1	0	8

Table 590: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 591: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 113.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	18	0	0	7	1	0	0	1	13	0
BROWN		0	0	0	1	1	3	0	0	1	0	8	0
YELLOW		0	0	0	2	10	4	1	0	0	0	0	0
GRAY		0	0	4	0	0	115	1	0	0	22	19	0
GREEN		0	0	0	0	0	1	1	0	0	3	2	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	1	2	0	0	0	42	0	1	21
WHITE		0	0	0	0	0	0	0	0	0	249	0	0
BLACK		0	0	0	0	0	0	0	0	0	0	90	0
ORANGE		0	0	0	1	0	0	0	0	3	2	0	8

Color confusion matrix of set 113.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	23	0	0	5	0	0	0	1	11	0
BROWN	0	0	0	5	1	2	0	0	0	0	6	0
YELLOW	0	0	0	3	10	3	0	0	0	0	1	0
GRAY	0	0	5	0	0	125	0	0	0	15	16	0
GREEN	0	0	0	0	0	1	3	0	0	1	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	6	0	0	0	0	24	1	2	34
WHITE	0	0	0	0	0	0	0	0	0	249	0	0
BLACK	0	0	0	0	0	1	0	0	0	0	89	0
ORANGE	0	0	0	2	2	0	0	0	1	1	0	8

Color confusion matrix of set 113.

Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	24	0	0	2	0	0	0	1	13	0
BROWN	0	0	0	3	1	3	0	0	0	0	7	0
YELLOW	0	0	0	1	11	4	0	1	0	0	0	0
GRAY	0	0	3	0	0	128	1	0	0	11	18	0
GREEN	0	0	0	1	0	1	2	0	0	1	2	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	7	1	0	0	0	15	0	1	43
WHITE	0	0	0	0	0	0	0	0	0	249	0	0
BLACK	0	0	0	0	0	0	0	0	0	0	90	0
ORANGE	0	0	0	4	2	0	0	0	0	1	0	7

Table 592: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 593: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 113.



Set 116 - Mexico 2024 **A.63**

Country: Mexico View: rear Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	204	204	204	204	204	204	204	204
Annotation failed	0	0	1	5	5	5	5	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-rated vehicles	204	204	203	199	199	199	199	204
Evaluated vehicles	100 %	100 %	99.5 %	97.5%	97.5%	97.5%	97.5 %	100 %

Table 594: Evaluated vehicles of set 116.

Mandala Nama	D4:	Vie		Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.0%	0	92.1%	8	88.8%	21	80.9%	26	69.1%	129	15	83.1%	3
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.5%	0	98.4%	8	99.5%	11	99.5%	13	100%	134	2	83.6%	3
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.0%	0	97.9%	7	88.7%	13	86.9%	24	79.2%	130	16	81.6%	3
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.5%	0	100%	8	99.0%	8	98.9%	9	98.5%	133	0	83.6%	3

Table 595: Classification results of set 116.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	188	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5

Category confusion matrix of set 116.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	189	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 596: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 597: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 116.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	188	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

Category confusion matrix of set 116.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	189	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
VAN	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5

Table 598: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 599: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 116.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	17	0	0	1	0	0	0	1	2	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	2	1	0	0	0	0	0	0
GRAY		0	0	1	0	0	47	0	0	1	8	6	0
GREEN		0	0	0	0	1	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	16	1	0	5
WHITE		0	0	0	0	0	0	0	0	0	67	0	0
BLACK		0	0	0	0	0	0	0	0	5	0	18	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Table 600: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 601: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 116.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	15	0	1	2	0	0	0	1	2	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	1	2	0	0	0	0	0	0
GRAY		0	0	0	0	0	50	0	0	1	5	7	0
GREEN		0	0	0	0	1	0	0	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	16	1	0	5
WHITE		0	0	0	0	0	1	0	0	0	66	0	0
BLACK		0	0	2	0	0	1	0	0	0	0	20	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 116.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	18	0	0	0	0	0	0	1	2	0
BROWN		0	0	0	0	0	1	0	0	0	0	0	0
YELLOW		0	0	0	0	1	2	0	0	0	0	0	0
GRAY		0	0	3	1	0	50	0	0	0	6	3	0
GREEN		0	0	0	0	0	0	1	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	8	1	0	13
WHITE		0	0	0	0	0	0	0	0	0	67	0	0
BLACK		0	0	2	0	0	0	0	2	0	0	19	0
ORANGE		0	0	0	0	0	0	0	0	0	0	0	0

Color confusion matrix of set 116.

Label 6	Class DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	17	0	0	0	0	0	0	1	3	0
BROWN	0	0	0	0	0	1	0	0	0	0	0	0
YELLOW	0	0	0	0	1	2	0	0	0	0	0	0
GRAY	0	0	1	0	0	54	0	0	0	6	2	0
GREEN	0	0	0	0	0	0	1	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	1	0	0	0	0	9	1	0	11
WHITE	0	0	0	0	0	1	0	0	0	66	0	0
BLACK	0	0	2	0	0	0	0	0	0	1	20	0
ORANGE	0	0	0	0	0	0	0	0	0	0	0	0

Table 602: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 603: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 116.



Set 118 - Brazil 2024 A.64

Country: Brazil View: frontal Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	295	295	295	295	295	295	295	295
Annotation failed	0	0	0	0	0	0	0	0
Annotation unfinished	0	0	0	0	0	0	0	0
Freshorte disability	295	295	295	295	295	295	295	295
Evaluated vehicles	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %

Table 604: Evaluated vehicles of set 118.

Mandala Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ake	Mo	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	95.3%	0	84.0%	1	72.2%	47	75.5%	75	75.0%	222	21	82.7%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.0%	0	99.0%	0	97.3%	3	94.1%	6	98.4%	230	4	84.1%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	95.3%	0	92.2%	2	75.5%	26	77.9%	51	75.4%	219	15	80.7%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Χ	99.3%	0	99.3%	0	97.9%	4	97.2%	10	98.4%	230	4	81.4%	0

Table 605: Classification results of set 118.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	28	0	7	0	0	0	0	0	0	0	0	1
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	1	0	1	0	8	0	0	0	0	0	0	0	0	3
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

Table 606: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 607: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 118.

Label	Cidas	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	1	0	33	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

Category confusion matrix of set 118.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	1	0	0	27	0	4	0	0	0	0	0	0	0	0	4
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	2	0	0	0	0	9	0	0	0	0	0	0	0	0	3
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

Table 608: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 609: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 118.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	35	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	13	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

Category confusion matrix of set 118.



Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	4	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	1	0	0	0	0	1	0	0	0
YELLOW		0	0	0	0	1	0	0	0	0	0	0	0
GRAY		0	0	1	1	1	45	0	0	0	7	1	1
GREEN		0	0	0	0	0	0	0	0	0	1	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	15	0	0	0
WHITE		0	0	0	2	0	26	0	0	0	132	1	0
BLACK		0	0	1	0	0	5	0	0	0	0	45	0
ORANGE		0	0	0	0	1	0	0	0	0	1	0	1

Table 610: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 611: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 118.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	4	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	1	0	0	0	0	1	0	0	0
YELLOW		0	0	0	0	1	0	0	0	0	0	0	0
GRAY		0	0	0	1	2	48	1	0	0	2	2	1
GREEN		0	0	0	0	0	0	0	0	0	1	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	14	0	0	1
WHITE		0	0	0	0	0	29	0	0	0	132	0	0
BLACK		0	0	0	0	0	3	1	0	0	0	47	0
ORANGE		0	0	0	0	1	0	0	0	0	1	0	1

Color confusion matrix of set 118.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	4	0	0	0	0	0	0	0	0	0
BROWN		0	0	0	1	0	0	0	0	1	0	0	0
YELLOW		0	0	0	0	1	0	0	0	0	0	0	0
GRAY		0	0	0	4	3	43	1	0	1	3	2	0
GREEN		0	0	0	0	0	0	1	0	0	0	0	0
PURPLE		0	0	0	0	0	0	0	0	0	0	0	0
RED		0	0	0	0	0	0	0	0	13	0	0	2
WHITE		0	0	0	2	0	31	0	0	0	128	0	0
BLACK		0	0	0	1	0	3	1	0	0	0	46	0
ORANGE		0	0	0	0	1	0	0	0	0	1	0	1

Table 612: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 613: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module - ${\it Color confusion \ matrix \ of \ set \ 118.}$

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	4	0	0	0	0	0	0	0	0	0
BROWN	0	0	0	1	0	0	0	0	1	0	0	0
YELLOW	0	0	0	0	1	0	0	0	0	0	0	0
GRAY	0	0	0	0	1	49	0	0	0	4	2	1
GREEN	0	0	0	0	0	0	1	0	0	0	0	0
PURPLE	0	0	0	0	0	0	0	0	0	0	0	0
RED	0	0	0	0	0	0	0	0	13	0	0	2
WHITE	0	0	0	0	0	34	0	0	0	127	0	0
BLACK	0	0	0	1	0	6	1	0	0	0	43	0
ORANGE	0	0	0	0	1	0	0	0	0	1	0	1

Color confusion matrix of set 118.



Set 119 - Ivory Coast 2024 A.65

Country: Ivory Coast View: frontal Year: 2024

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	722	722	722	722	722	722	722	0
Annotation failed	0	0	0	7	8	8	8	0
Annotation unfinished	0	0	0	0	0	0	0	0
	722	722	722	715	714	714	714	0
Evaluated vehicles	100 %	100 %	100 %	99.0%	98.9%	98.9%	98.9%	0.0%

Table 614: Evaluated vehicles of set 119.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Gene	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	99.7%	0	96.2%	0	71.2%	17	57.8%	31	95.2%	670	2	Х	Х
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.4%	0	98.5%	0	99.6%	14	99.3%	18	97.6%	671	1	Х	Х
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	99.7%	0	99.0%	0	72.6%	7	59.4%	14	97.6%	671	1	Х	Х
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.7%	0	99.7%	0	99.2%	3	98.9%	3	97.6%	671	1	Х	Х

Table 615: Classification results of set 119.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	704	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	12

Table 616: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 617: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 119.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	TVH	KICKBIKE	191	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	704	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	10

Category confusion matrix of set 119.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	704	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	12

Table 618: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 619: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 119.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	704	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	12

Category confusion matrix of set 119.



Set 120 - Ivory Coast 2024 A.66

Country: Ivory Coast View: frontal Year: 2024

Illumination: day Color: gray

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	806	806	806	806	806	806	806	0
Annotation failed	0	0	0	43	49	49	50	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-veted velotides	806	806	806	763	757	757	756	0
Evaluated vehicles	100%	100%	100 %	94.7%	93.9%	93.9%	93.8%	0.0%

Table 620: Evaluated vehicles of set 120.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.9%	0	Х	Х	99.9%	0	92.0%	14	70.8%	41	57.9%	73	92.3%	709	8	Х	Х
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.4%	0	99.5%	1	99.5%	0	94.7%	14	97.3%	41	97.3%	51	85.4%	708	7	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.9%	0	Х	Х	99.9%	0	97.7%	14	75.2%	26	61.5%	48	97.7%	710	2	Х	Х
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	100%	0	100%	0	99.8%	0	98.9%	14	99.2%	20	98.9%	23	97.7%	710	3	Х	Х

Table 621: Classification results of set 120.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	777	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

ule - Category confusion matrix of set 120.

Label O	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	777	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	2	0	0	0	0	11	1	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

Table 622: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 623: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 120.

Label C	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	777	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

ule - Category confusion matrix of set 120.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR		0	0	0	0	777	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9

Table 624: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 625: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 120.





Set 121 - Uruguay 2024

View: frontal Country: Uruguay Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	4660	4660	4660	4660	4660	4660	4660	4660
Annotation failed	0	0	0	61	72	74	75	0
Annotation unfinished	0	0	0	0	0	0	0	0
Evel-veted velotides	4660	4660	4660	4599	4588	4586	4585	4660
Evaluated vehicles	100%	100%	100 %	98.7%	98.5%	98.4%	98.4 %	100%

Table 626: Evaluated vehicles of set 121.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	100%	0	Х	Х	97.3%	0	82.4%	10	74.3%	579	78.9%	988	73.4%	3284	330	90.0%	0
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	100%	0	Х	Х	99.7%	0	97.6%	0	96.8%	168	97.2%	250	97.3%	3419	23	90.3%	0
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	100%	0	Х	Х	98.0%	0	90.9%	19	78.9%	435	84.7%	922	81.3%	3312	328	90.5%	0
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	100%	0	Х	Х	99.7%	0	98.8%	2	98.1%	162	97.9%	213	98.4%	3425	16	91.7%	0

Table 627: Classification results of set 121.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	4060	0	0	0	0	0	0	0	0	0	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	12	1	0	99	0	31	0	0	0	0	0	0	0	0	9
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	2	0	0	1	0	155	0	0	0	0	0	0	0	0	47
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	17	0	0	0	2	0	0	0	0	0	0	0	0	170

Table 628: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 629: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 121.

Label 3	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	T	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	T	0	0	0	0	4060	0	0	0	0	0	0	0	0	0	0	0	0	2
CYCLE	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	T	0	0	0	0	0	0	150	0	1	0	0	0	0	0	0	0	0	1
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	П	0	0	0	0	0	0	3	0	199	0	0	0	0	0	0	0	0	3
LUGGAGE	П	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	П	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	П	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	Ī	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	T	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	185

Category confusion matrix of set 121.

Class Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	4062	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	135	0	12	0	0	0	0	0	0	0	0	5
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	14	0	0	4	0	151	0	0	0	0	0	0	0	0	36
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	18	0	0	0	1	0	0	0	0	0	0	0	0	170

Table 630: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 631: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 121.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR	0	0	0	0	4062	0	0	0	0	0	0	0	0	0	0	0	0	0
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	150	0	1	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	3	0	198	0	0	0	0	0	0	0	0	4
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	186

Category confusion matrix of set 121.



Label C	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	215	0	0	39	2	0	0	6	48	0
BROWN	0	0	2	6	0	11	0	0	2	0	12	0
YELLOW	0	0	0	0	12	0	0	0	0	2	0	0
GRAY	0	0	53	2	0	1505	2	0	0	29	65	0
GREEN	0	0	7	1	1	14	36	0	0	1	13	0
PURPLE	0	0	1	0	0	4	0	0	0	0	2	0
RED	0	0	0	1	0	1	0	0	417	1	0	6
WHITE	0	0	3	1	1	75	0	0	8	1677	0	0
BLACK	0	0	30	0	0	16	0	0	0	1	315	0
ORANGE	0	0	0	0	0	0	0	0	3	1	0	10

Table 632: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 633: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 121.

Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	213	0	0	56	1	0	0	5	35	0
BROWN	0	0	1	3	0	17	0	0	0	0	12	0
YELLOW	0	0	0	0	11	0	0	0	0	3	0	0
GRAY	0	0	41	1	0	1504	0	0	1	67	42	0
GREEN	0	0	10	1	1	19	26	0	0	1	15	0
PURPLE	0	0	1	0	0	4	0	0	0	0	2	0
RED	0	0	0	0	0	4	0	0	417	1	1	3
WHITE	0	0	6	0	1	32	0	0	4	1720	2	0
BLACK	0	0	24	2	1	27	0	0	0	0	308	0
ORANGE	0	0	0	1	0	0	0	0	3	2	0	8

Color confusion matrix of set 121.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	282	0	1	15	0	0	0	1	11	0
BROWN		0	0	5	6	0	13	0	0	4	0	5	0
YELLOW		0	0	0	0	14	0	0	0	0	0	0	0
GRAY		0	0	141	9	0	1446	0	3	5	29	23	0
GREEN		0	0	22	4	0	15	22	0	0	0	10	0
PURPLE		0	0	2	0	0	2	0	0	0	0	3	0
RED		0	0	2	0	0	0	1	1	408	3	2	9
WHITE		0	0	7	0	0	21	0	2	4	1727	3	1
BLACK		0	0	51	1	1	11	0	0	0	0	298	0
ORANGE		0	0	0	0	0	0	0	0	0	2	0	12

Color confusion matrix of set 121.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	227	0	3	56	0	1	0	3	20	0
BROWN	0	0	0	6	0	19	0	0	3	0	5	0
YELLOW	0	0	0	0	14	0	0	0	0	0	0	0
GRAY	0	0	23	2	10	1553	0	1	1	39	27	0
GREEN	0	0	16	1	0	25	18	0	0	0	13	0
PURPLE	0	0	0	0	0	3	0	0	0	0	4	0
RED	0	0	0	0	0	2	2	0	401	3	3	15
WHITE	0	0	1	0	1	29	0	0	2	1728	3	1
BLACK	0	0	24	0	0	19	0	1	0	1	317	0
ORANGE	0	0	0	1	0	0	0	0	0	2	0	11

Table 634: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 635: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 121.

Set 122 - Uruguay 2024

View: frontal Country: Uruguay Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	4792	4792	4792	4792	4792	4792	4792	4792
Annotation failed	0	0	1	106	117	119	120	0
Annotation unfinished	0	0	0	0	0	0	0	0
Free locate al contribute	4792	4792	4791	4686	4675	4673	4672	4792
Evaluated vehicles	100 %	100 %	100 %	97.8%	97.6%	97.5%	97.5%	100 %

Table 636: Evaluated vehicles of set 122.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.8%	0	Х	Х	97.9%	1	77.4%	70	70.3%	733	74.1%	1193	70.6%	3365	399	89.5%	20
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.9%	0	89.6%	6	99.0%	1	95.8%	69	96.7%	317	96.2%	397	94.5%	3490	53	89.7%	21
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.7%	0	Х	Х	97.9%	0	87.6%	77	78.6%	587	83.9%	1071	81.2%	3423	329	91.7%	17
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	90.6%	6	99.5%	1	98.2%	68	98.0%	238	97.9%	315	97.9%	3506	25	91.5%	18

Table 637: Classification results of set 122.

Label San Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4105	0	0	0	0	0	0	0	0	4	0	0	0	5
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	137	0	16	0	0	0	0	0	0	0	0	2
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	6	0	0	11	0	165	0	0	0	0	1	0	0	0	24
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	2	0	0	0	0	15	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
TO12	0	0	0	0	2	0	0	0	0	0	1	0	2	21	0	1	0	0
TO34	0	1	0	0	0	0	0	0	0	0	0	0	1	7	14	0	2	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	1	12	0	0	0	2	0	0	0	0	0	0	0	0	177

ule - Category confusion matrix of set 122.

Label	Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	T034	TROLLEY	TRUCK	VAN
ANIMAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS		0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CAR		0	0	0	0	4107	0	0	0	0	0	0	0	0	4	0	0	0	3
CYCLE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT		0	0	0	0	0	0	150	0	4	0	0	0	0	0	0	0	0	1
KICKBIKE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT		0	0	0	0	0	0	3	0	200	0	0	0	0	0	0	0	0	4
LUGGAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB		0	0	0	0	0	3	0	0	0	0	14	0	0	0	0	0	0	0
PEDESTRIAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
TO12		0	0	0	0	1	0	0	0	0	0	2	0	0	21	2	1	0	0
TO34		0	1	0	0	0	0	0	0	0	0	0	0	0	8	16	0	0	0
TROLLEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN		0	0	0	0	6	0	0	0	3	0	0	0	0	0	0	0	0	183

Table 638: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 639: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 122.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4110	0	0	0	0	0	0	0	0	3	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	1	0	0	122	0	30	0	0	0	0	0	0	0	0	2
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	4	0	168	0	0	0	1	1	0	0	0	33
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
TO12	0	0	0	0	1	0	0	0	0	0	0	0	1	25	0	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	12	0	0	0	1	0	0	0	0	0	0	0	0	179

ule - Category confusion matrix of set 122.

Label Sep	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	4111	0	0	0	0	0	0	0	0	2	0	0	0	1
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	153	0	2	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	2	0	201	0	0	0	0	0	0	0	0	4
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	1	0	0	0	0	16	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
TO12	0	1	0	0	1	0	0	0	0	0	0	0	1	22	2	0	0	0
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	2	23	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	187

Table 640: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 641: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 122.



Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	221	0	0	57	0	0	0	5	36	1
BROWN	0	0	2	6	0	14	0	0	2	0	10	0
YELLOW	0	0	0	0	11	0	1	0	0	2	0	0
GRAY	0	0	50	4	0	1555	0	0	1	44	45	0
GREEN	0	0	14	2	0	17	33	0	0	1	8	0
PURPLE	0	0	1	0	0	4	0	0	0	0	2	0
RED	1	0	0	0	0	3	0	0	413	9	1	6
WHITE	1	0	14	1	1	65	0	0	3	1717	3	0
BLACK	1	0	33	0	1	26	0	0	0	0	309	0
ORANGE	0	0	2	1	0	0	0	0	6	1	0	7

Table 642: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 643: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 122.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	2	0	212	0	0	64	2	0	0	6	33	1
BROWN	0	0	0	3	0	18	0	0	0	0	13	0
YELLOW	0	0	0	0	10	0	1	0	0	3	0	0
GRAY	0	0	59	0	0	1569	1	0	0	41	29	0
GREEN	0	0	13	1	0	23	25	0	0	3	10	0
PURPLE	0	0	1	0	0	5	0	0	0	0	1	0
RED	0	0	0	2	0	5	0	0	409	3	6	8
WHITE	1	0	8	0	1	61	0	0	0	1733	1	0
BLACK	1	0	27	0	1	27	2	0	0	1	311	0
ORANGE	0	0	0	1	1	0	0	0	5	1	0	9

ule - Color confusion matrix of set 122.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	242	0	2	48	0	1	0	5	22	0
BROWN	0	0	2	3	0	19	0	0	3	0	7	0
YELLOW	0	0	0	0	13	0	1	0	0	0	0	0
GRAY	0	0	47	2	10	1569	0	3	2	31	35	0
GREEN	0	0	15	5	0	19	23	0	0	1	12	0
PURPLE	0	0	0	0	0	4	0	0	1	0	2	0
RED	0	0	1	0	2	4	0	0	418	3	1	4
WHITE	0	0	2	0	3	32	0	1	2	1765	0	0
BLACK	0	0	20	0	1	13	1	0	1	2	332	0
ORANGE	0	0	1	1	0	1	0	0	1	1	0	12

Table 644: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 645: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 122.

Label Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	235	0	2	60	0	0	0	3	20	0
BROWN	0	0	3	4	0	21	0	0	1	0	5	0
YELLOW	0	0	0	0	13	0	0	0	0	1	0	0
GRAY	0	0	36	1	3	1619	0	1	1	19	19	0
GREEN	0	0	19	0	0	23	20	0	0	0	13	0
PURPLE	0	0	2	0	0	2	0	0	0	0	3	0
RED	0	0	0	0	0	2	0	0	420	2	1	8
WHITE	0	0	6	0	0	44	0	0	4	1748	3	0
BLACK	1	0	28	0	1	39	0	0	0	1	299	1
ORANGE	0	0	0	0	1	1	0	0	1	2	0	12

ule - Color confusion matrix of set 122.

Set 123 - Australia 2024 A.69

Country: Australia View: any view Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	2712	2712	2712	2712	2712	2712	2712	2712
Annotation failed	0	0	2	330	345	369	385	2
Annotation unfinished	0	0	0	0	0	0	0	0
Free locate al contribute	2712	2712	2710	2382	2367	2343	2327	2710
Evaluated vehicles	100 %	100 %	99.9 %	87.8%	87.3 %	86.4%	85.8 %	99.9%

Table 646: Evaluated vehicles of set 123.

Mandala Nama	D4:		ew	Vie	w8	Cate	gory	Ma	ke	Mo	del	Genei	ation		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMR_VCMMGVCT_FAST_2024Q2 (20240517)	F32	99.9%	0	Х	Х	92.7%	0	94.4%	48	94.5%	121	92.8%	173	92.4%	1701	70	80.9%	1
MMR_VCMMGVCT_FAST_2024Q4 (20241121)	F32	99.9%	0	Х	Х	98.2%	0	96.1%	45	96.3%	90	95.3%	122	94.1%	1700	49	80.1%	1
MMR_VCMMGVCT_PREC_2024Q2 (20240518)	F32	99.9%	0	Х	Х	91.5%	0	96.9%	48	96.6%	89	95.1%	114	92.3%	1696	44	86.2%	1
MMR_VCMMGVCT_PREC_2024Q4 (20241120)	F32	99.9%	0	Х	Х	90.9%	0	97.7%	46	97.6%	75	96.6%	90	95.2%	1709	32	87.2%	1

Table 647: Classification results of set 123.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	2	2311	0	0	0	1	0	0	0	0	0	0	0	159	8
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	30	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	2	8	0	0	0	0	0	0	0	0	2	0	0	4	1
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	2	4	0	1	0	0	0	0	0	0	0	0	0	33	1
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	87

Category confusion matrix of set 123.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CAR	0	0	0	1	2462	0	0	0	0	0	0	0	0	0	0	0	5	13
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	29	0	4	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	2	8	0	0	0	0	0	0	0	0	2	0	0	4	1
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	34	1
VAN	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	87

Table 648: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 649: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Category confusion matrix of set 123.

lage Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	3	2277	0	0	0	0	0	0	0	0	0	0	0	110	91
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	30	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	1	0	35	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	8	0	0	0	0	0	0	0	0	4	0	0	4	1
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	35	0
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	87

Category confusion matrix of set $1\overline{23}$.

Label Sep	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	T034	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	2259	0	0	0	0	0	0	0	0	0	0	0	28	193
CYCLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	30	0	3	0	0	0	0	0	0	0	0	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	9	0	0	0	0	0	0	0	0	5	0	0	1	2
TO34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	0	33	3
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	87

Table 650: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 651: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Category confusion matrix of set 123.





Sapel D	DEPRECATED	EMPTY	эппв	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	160	0	1	7	1	0	0	5	20	0
BROWN	0	0	0	3	0	3	0	0	0	0	14	0
YELLOW	0	0	1	1	18	4	3	0	0	3	1	1
GRAY	0	0	41	5	0	487	35	0	3	27	85	0
GREEN	0	0	0	1	1	4	16	0	0	1	9	0
PURPLE	0	0	1	0	0	0	0	0	0	0	3	0
RED	0	0	2	2	1	0	0	0	178	1	14	3
WHITE	0	0	15	0	2	96	42	0	4	1150	19	0
BLACK	0	0	11	0	0	9	6	0	1	5	177	0
ORANGE	0	0	0	0	0	1	0	0	1	0	1	3

Table 652: MMR_VCMMGVCT_FAST_2024Q2 (20240517) module - Table 653: MMR_VCMMGVCT_FAST_2024Q4 (20241121) module -Color confusion matrix of set 123.

Label O	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	158	0	2	13	2	0	0	2	17	0
BROWN	0	0	0	2	0	3	0	0	0	0	14	1
YELLOW	0	0	0	2	18	6	1	0	0	4	1	0
GRAY	0	0	41	1	0	484	27	0	0	45	85	0
GREEN	0	0	1	0	1	7	13	0	1	4	5	0
PURPLE	0	0	2	0	0	0	0	0	0	0	2	0
RED	0	0	2	9	1	12	1	0	154	4	16	2
WHITE	0	0	18	0	6	72	61	0	3	1161	7	0
BLACK	0	0	11	1	0	7	6	0	0	5	179	0
ORANGE	0	0	0	2	0	0	0	0	1	0	1	2

Color confusion matrix of set 123.

Sass Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	164	0	1	6	2	0	0	4	17	0
BROWN	0	0	0	3	0	5	0	0	1	0	10	1
YELLOW	0	0	0	1	20	5	1	0	0	2	2	1
GRAY	0	0	37	2	0	519	21	1	0	31	72	0
GREEN	0	0	2	0	3	5	14	0	1	4	3	0
PURPLE	0	0	2	0	0	0	0	0	2	0	0	0
RED	0	0	2	0	0	0	0	0	182	1	11	5
WHITE	0	0	17	0	1	38	14	0	3	1240	15	0
BLACK	0	0	3	0	0	4	5	0	0	5	192	0
ORANGE	0	0	0	2	0	0	0	0	0	0	2	2

Table 654: MMR_VCMMGVCT_PREC_2024Q2 (20240518) module - Table 655: MMR_VCMMGVCT_PREC_2024Q4 (20241120) module -Color confusion matrix of set 123.

Label S	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	143	0	1	20	1	0	0	2	27	0
BROWN	0	0	0	2	0	5	0	0	0	0	13	0
YELLOW	0	0	0	0	19	9	1	0	0	1	0	2
GRAY	0	0	15	0	0	554	5	0	0	35	74	0
GREEN	0	0	1	1	1	6	13	0	1	5	4	0
PURPLE	0	0	0	0	0	1	0	0	0	0	3	0
RED	0	0	0	5	1	0	0	0	178	1	11	5
WHITE	0	0	5	0	3	44	6	0	1	1253	16	0
BLACK	0	0	3	0	2	1	2	0	0	4	197	0
ORANGE	0	0	0	2	0	0	0	0	0	0	1	3

Color confusion matrix of set 123.





Set 124 - Australia 2024 A.70

Country: Australia View: any view Year: 2024

Class	View	View8	Category	Make	Model	Generation	Variation	Color
Total vehicles	3449	3449	3449	3449	3449	3449	3449	3449
Annotation failed	0	0	7	618	622	648	666	6
Annotation unfinished	0	0	0	0	0	0	0	0
Evaluate dividision	3449	3449	3442	2831	2827	2801	2783	3443
Evaluated vehicles	100%	100%	99.8%	82.1 %	82.0%	81.2 %	80.7 %	99.8%

Table 656: Evaluated vehicles of set 124.

Mandada Nama	Dt		ew	Vie	w8	Cate	gory	Ma	ke	Мо	del	Genei	ration		Variation		Co	lor
Module Name	Dtype	Correct	Empty	Correct	Singled	Empty	Correct	Empty										
MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519)	F32	99.2%	0	Х	Х	96.8%	0	92.2%	71	94.0%	240	92.4%	313	94.6%	2057	118	82.4%	6
MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122)	F32	99.6%	0	97.6%	4	98.3%	1	94.0%	52	95.6%	189	94.6%	241	93.7%	2050	83	82.9%	7
MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520)	F32	99.7%	0	Х	Х	96.5%	1	96.6%	72	97.1%	176	95.5%	217	95.9%	2062	62	85.1%	7
MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123)	F32	99.9%	0	98.4%	3	98.9%	1	97.5%	59	97.9%	146	97.2%	174	95.4%	2062	50	87.7%	9

Table 657: Classification results of set 124.

Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3119	0	0	0	0	0	1	0	1	1	0	0	11	6
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	3	0	31	0	2	0	0	0	1	0	1	0	18	1
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	1	0	0	2	0	38	0	0	0	0	0	0	0	15	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	1	4	0	0	0	1	0	0	0	2	20	1	0	8	0
TO34	0	0	0	2	0	0	1	0	0	0	0	0	0	1	2	0	15	1
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
VAN	0	0	0	0	5	0	0	0	1	0	0	0	0	0	0	0	0	102

Table 658: MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) mod- Table 659: MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Category confusion matrix of set 124.

See Label	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	T012	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	1	3126	0	1	0	4	0	1	0	0	1	0	0	0	5
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	1	0	0	3	0	41	0	5	0	0	0	1	1	2	0	0	3
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	4	0	50	0	0	0	0	0	2	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	1	11	0	0	0	0	0	0	0	1	23	0	0	0	1
TO34	0	0	0	0	0	0	2	0	1	0	0	0	0	0	19	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	105

ule - Category confusion matrix of set 124.

Label San J	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3097	0	0	0	0	0	0	1	0	1	0	0	35	5
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	1	0	29	0	4	0	0	0	1	0	0	0	22	0
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	3	0	37	0	0	0	0	0	0	0	17	0
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	10	0	0	0	0	0	0	0	0	22	1	0	3	1
TO34	0	1	0	0	1	0	0	0	0	0	0	0	0	0	7	0	13	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
VAN	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	106

ule - Category confusion matrix of set 124.

Label Class	DEPRECATED	EMPTY	ANIMAL	BUS	CAR	CYCLE	HVT	KICKBIKE	LGT	LUGGAGE	MTB	PEDESTRIAN	SPECIAL	TO12	TO34	TROLLEY	TRUCK	VAN
ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUS	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAR	0	0	0	0	3136	0	0	0	1	0	1	0	0	1	0	0	0	0
CYCLE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HVT	0	0	0	0	0	0	46	0	6	0	0	0	1	0	3	0	0	1
KICKBIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGT	0	0	0	0	0	0	7	0	48	0	0	0	0	0	1	0	0	1
LUGGAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTB	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
PEDESTRIAN	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO12	0	0	0	0	6	0	0	0	0	0	2	0	0	28	0	0	0	1
TO34	0	1	0	0	1	0	1	0	0	0	0	0	0	0	19	0	0	0
TROLLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRUCK	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
VAN	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	105

Table 660: MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) mod- Table 661: MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Category confusion matrix of set 124.



Label D	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	165	0	0	32	3	0	2	2	33	0
BROWN	0	0	0	5	0	6	0	0	0	0	14	0
YELLOW	0	0	0	0	19	6	2	0	0	3	0	3
GRAY	1	0	31	5	2	625	16	0	4	56	129	0
GREEN	0	0	2	0	3	11	11	0	3	3	7	0
PURPLE	0	0	0	0	0	1	0	0	3	0	0	0
RED	0	0	2	13	1	2	1	0	220	2	11	3
WHITE	0	0	11	0	1	83	23	0	11	1564	24	0
BLACK	0	0	5	2	2	12	3	1	0	5	218	0
ORANGE	0	0	0	3	0	0	0	0	1	0	1	5

Table 662:MMRBOX_VCMMGVCT_FAST_2024Q2 (20240519) module - Color confusion matrix of set 124.Table 663:MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module - Color confusion matrix of set 124.

Label	Class	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE		0	0	180	0	0	29	1	0	2	5	20	0
BROWN		0	0	0	3	0	8	0	0	1	0	12	1
YELLOW		0	0	0	0	20	6	1	0	0	3	0	3
GRAY		1	0	45	5	2	634	8	0	0	82	92	0
GREEN		0	0	2	0	1	11	13	0	1	3	9	0
PURPLE		0	0	3	0	0	0	0	0	0	0	1	0
RED		0	0	4	14	0	12	0	0	209	2	8	6
WHITE		1	0	9	0	0	89	13	0	7	1585	13	0
BLACK		0	0	14	2	1	19	2	1	4	6	198	1
ORANGE		0	0	0	2	0	0	0	0	3	0	0	5

Label 3	Cldss	DEPRECALED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	(0	0	170	0	0	27	2	0	1	2	35	0
BROWN	(0	0	0	5	0	4	0	0	2	1	13	0
YELLOW	(0	0	0	1	19	7	2	0	0	1	1	2
GRAY	(0	0	26	6	3	660	16	1	0	42	115	0
GREEN	(0	0	2	0	1	3	21	0	2	5	6	0
PURPLE	(0	0	0	0	0	0	0	0	2	0	1	1
RED	(0	0	0	0	0	3	0	0	236	4	9	3
WHITE	2	2	0	17	2	3	61	23	0	6	1581	22	0
BLACK	(0	0	3	2	0	12	2	0	0	3	226	0
ORANGE	(0	0	0	2	0	1	0	0	1	0	0	6

Table 664:MMRBOX_VCMMGVCT_PREC_2024Q2 (20240520) module - Color confusion matrix of set 124.Table 665:MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module - Color confusion matrix of set 124.

Label U	DEPRECATED	EMPTY	BLUE	BROWN	YELLOW	GRAY	GREEN	PURPLE	RED	WHITE	BLACK	ORANGE
BLUE	0	0	191	0	0	29	2	0	0	1	14	0
BROWN	0	0	0	5	0	6	0	0	1	0	12	1
YELLOW	0	0	0	0	21	7	1	0	0	1	1	2
GRAY	1	0	20	2	1	736	9	0	0	36	64	0
GREEN	1	0	3	1	1	7	16	0	2	2	7	0
PURPLE	0	0	0	0	0	0	0	0	3	1	0	0
RED	1	0	0	12	1	2	0	0	224	3	6	6
WHITE	1	0	6	0	6	83	9	0	2	1601	9	0
BLACK	0	0	6	0	3	24	0	0	0	1	214	0
ORANGE	0	0	0	3	0	0	0	0	5	0	0	2

B Precision/Recall of Tags Classification

The precision and recall of the tag classification models were evaluated on the testing set.

Precision is the proportion of true positive predictions among all positive predictions. It is a measure of the accuracy of a classifier when predicting the positive class.

Recall, also known as sensitivity, is the proportion of true positive predictions among all actual positives. It is a measure of the ability of a classifier to identify all relevant instances.

The tables below present precision and recall values for each tag across different thresholds.

The tables present precision and recall values for each tag across different thresholds, for both 'yes' and 'no' classifications. Each row in the table corresponds to a different tag. The columns correspond to different thresholds used for classifying a prediction as positive or negative. For each tag, threshold, and classification ('yes' or 'no'), the precision and recall values are given.

The graphs are Precision-Recall curves for each classification of each tag. Each point on a curve corresponds to a different threshold. The x-axis represents recall, and the y-axis represents precision. A point at the top right corner of the graph indicates a perfect classifier (precision and recall are both 1). A point at the bottom right corner indicates a classifier that finds all positive instances but also produces many false positives (precision is low but recall is 1). A point at the top left corner indicates a classifier that produces no false positives but also misses many positive instances (precision is 1 but recall is low).

To use this information, consider the trade-off between precision and recall for your application. If it is more important to avoid false positives, look for a threshold that gives high precision. If it is more important to find all positive instances, look for a threshold that gives high recall. If you need to balance the two, consider using the F1 score, which is the harmonic mean of precision and recall.



	procision	rocall	procision	rocall	procision	recall	procision	recall
_	precision	recall	precision	recall	precision		precision	
Tag	t=0.50	t=0.50	t=0.80	t=0.80	t=0.90	t=0.90	t=0.99	t=0.99
tag_ambulance: no	0.993	0.995	0.996	0.987	0.997	0.979	0.999	0.916
tag_ambulance: yes	0.925	0.896	0.970	0.840	0.983	0.789	0.996	0.603
tag_animal_transport: no	0.972	0.996	0.975	0.995	0.978	0.994	0.983	0.971
tag_animal_transport: yes	0.982	0.629	1.000	0.584	1.000	0.528	1.000	0.427
tag_caravan: no	0.999	1.000	1.000	0.999	1.000	0.999	1.000	0.990
tag_caravan: yes	0.983	0.971	0.998	0.951	0.998	0.926	1.000	0.820
tag_fire_brigade: no	0.997	0.999	0.998	0.997	0.999	0.994	0.999	0.957
tag_fire_brigade: yes	0.834	0.558	0.919	0.422	0.961	0.348	0.962	0.142
tag_law_enforcement: no	0.998	0.998	0.999	0.993	0.999	0.987	1.000	0.931
tag_law_enforcement: yes	0.961	0.961	0.985	0.926	0.992	0.904	0.999	0.787
tag_pickup: no	0.993	0.997	0.997	0.996	0.997	0.993	1.000	0.970
tag_pickup: yes	0.994	0.963	0.998	0.949	0.998	0.942	1.000	0.890
tag_push_bumper: no	0.996	0.997	0.998	0.994	0.998	0.986	0.999	0.934
tag_push_bumper: yes	0.976	0.966	0.985	0.952	0.990	0.937	0.993	0.856
tag_rear_mount: no	0.983	0.980	0.987	0.960	0.990	0.943	0.991	0.800
tag_rear_mount: yes	0.986	0.984	0.992	0.984	0.992	0.982	0.994	0.976
tag_towed: no	0.988	0.994	0.991	0.982	0.992	0.966	0.997	0.814
tag_towed: yes	0.805	0.649	0.922	0.572	0.947	0.523	0.988	0.379
tag_wood_truck: no	0.975	0.955	0.986	0.948	0.986	0.948	0.992	0.910
tag_wood_truck: yes	0.916	0.916	0.935	0.867	0.960	0.867	0.973	0.855

 Table 666: Precision/Recall results of tag classification for MMR_VCMMGVCT_FAST_2024Q4 (20241121) module.

	precision	recall	precision	recall	precision	recall	precision	recall
Tag	t=0.50	t=0.50	t=0.80	t=0.80	t=0.90	t=0.90	t=0.99	t=0.99
tag_ambulance: no	0.993	0.993	0.996	0.983	0.997	0.973	0.999	0.912
tag_ambulance: yes	0.900	0.893	0.961	0.822	0.977	0.766	0.998	0.562
tag_animal_transport: no	0.980	0.994	0.987	0.988	0.986	0.980	0.987	0.938
tag_animal_transport: yes	0.939	0.687	0.953	0.612	0.952	0.597	1.000	0.463
tag_caravan: no	0.998	0.998	0.999	0.995	0.999	0.992	1.000	0.957
tag_caravan: yes	0.959	0.933	0.983	0.894	0.988	0.873	0.999	0.760
tag_fire_brigade: no	0.997	0.999	0.998	0.997	0.998	0.994	0.999	0.951
tag_fire_brigade: yes	0.834	0.499	0.948	0.363	0.972	0.300	1.000	0.159
tag_helmet: no	0.922	0.840	0.951	0.804	0.961	0.776	0.979	0.631
tag_helmet: yes	0.966	0.963	0.976	0.951	0.979	0.938	0.988	0.876
tag_law_enforcement: no	0.997	0.997	0.998	0.993	0.999	0.988	1.000	0.938
tag_law_enforcement: yes	0.964	0.951	0.984	0.915	0.990	0.891	0.998	0.771
tag_mixer_truck: no	0.977	0.938	0.995	0.914	0.997	0.897	1.000	0.813
tag_mixer_truck: yes	0.935	0.935	0.994	0.903	1.000	0.881	1.000	0.832
tag_pickup: no	0.988	0.996	0.993	0.992	0.996	0.987	0.998	0.947
tag_pickup: yes	0.989	0.938	0.995	0.906	0.996	0.884	0.999	0.736
tag_push_bumper: no	0.995	0.997	0.997	0.993	0.998	0.989	1.000	0.950
tag_push_bumper: yes	0.970	0.951	0.987	0.922	0.990	0.900	0.995	0.817
tag_rear_mount: no	0.991	0.968	0.994	0.959	0.997	0.947	1.000	0.868
tag_rear_mount: yes	0.978	0.991	0.985	0.987	0.989	0.987	0.995	0.965
tag_rickshaw: no	0.916	0.817	0.924	0.808	0.941	0.800	0.967	0.725
tag_rickshaw: yes	0.995	0.987	0.996	0.985	0.998	0.984	0.998	0.974
tag_rider_present: no	0.988	0.568	0.991	0.559	0.995	0.557	0.999	0.529
tag_rider_present: yes	0.998	0.974	0.998	0.973	0.998	0.973	0.999	0.970
tag_tank_truck: no	0.920	0.927	0.932	0.916	0.941	0.906	0.977	0.837
tag_tank_truck: yes	0.919	0.874	0.950	0.862	0.959	0.862	0.986	0.805
tag_taxi: no	0.962	0.957	0.973	0.925	0.979	0.898	0.991	0.735
tag_taxi: yes	0.926	0.933	0.962	0.897	0.977	0.873	0.992	0.777
tag_towed: no	0.995	0.996	0.996	0.992	0.997	0.988	0.999	0.948
tag_towed: yes	0.936	0.882	0.970	0.824	0.985	0.788	0.995	0.646
tag_truck_is_semi: no	0.993	0.954	0.996	0.948	0.997	0.942	0.999	0.898
tag_truck_is_semi: yes	0.973	0.973	0.983	0.962	0.989	0.952	0.990	0.903
tag_wood_truck: no	0.989	0.986	0.992	0.983	0.993	0.980	0.998	0.969
tag_wood_truck: yes	0.953	0.824	0.968	0.811	0.968	0.811	0.982	0.743

 Table 667:
 Precision/Recall results of tag classification for MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module.

	precision	recall	precision	recall	precision	recall	precision	recall
Tag	t=0.50	t=0.50	t=0.80	t=0.80	t=0.90	t=0.90	t=0.99	t=0.99
tag_ambulance: no	0.996	0.998	0.997	0.994	0.998	0.990	0.999	0.946
tag_ambulance: yes	0.969	0.937	0.992	0.912	0.995	0.888	1.000	0.807
tag_animal_transport: no	0.971	0.993	0.979	0.993	0.980	0.990	0.988	0.966
tag_animal_transport: yes	0.933	0.629	1.000	0.551	1.000	0.438	1.000	0.303
tag_caravan: no	1.000	1.000	1.000	0.999	1.000	0.998	1.000	0.983
tag_caravan: yes	0.980	0.985	0.994	0.956	0.998	0.933	1.000	0.793
tag_fire_brigade: no	0.998	1.000	0.999	0.999	0.999	0.998	1.000	0.978
tag_fire_brigade: yes	0.920	0.758	0.952	0.672	0.968	0.610	0.988	0.481
tag_law_enforcement: no	0.999	0.999	0.999	0.997	0.999	0.993	1.000	0.962
tag_law_enforcement: yes	0.984	0.978	0.994	0.968	0.997	0.957	0.999	0.915
tag_pickup: no	0.993	0.996	0.996	0.995	0.997	0.993	0.999	0.971
tag_pickup: yes	0.986	0.961	0.992	0.944	0.994	0.932	1.000	0.875
tag_push_bumper: no	0.997	0.998	0.998	0.997	0.998	0.994	0.999	0.970
tag_push_bumper: yes	0.984	0.970	0.989	0.963	0.993	0.946	0.998	0.840
tag_rear_mount: no	0.990	0.975	0.992	0.953	0.992	0.936	0.991	0.790
tag_rear_mount: yes	0.980	0.990	0.984	0.988	0.988	0.982	0.998	0.953
tag_towed: no	0.992	0.997	0.994	0.991	0.995	0.984	0.998	0.902
tag_towed: yes	0.908	0.764	0.970	0.706	0.984	0.665	0.996	0.560
tag_wood_truck: no	0.979	0.986	0.979	0.979	0.986	0.972	0.993	0.920
tag_wood_truck: yes	0.987	0.929	0.987	0.881	0.986	0.869	1.000	0.845

 Table 668:
 Precision/Recall results of tag classification for MMR_VCMMGVCT_PREC_2024Q4 (20241120) module.



	precision	recall	precision	recall	precision	recall	precision	recall
Tag	t=0.50	t=0.50	t=0.80	t=0.80	t=0.90	t=0.90	t=0.99	t=0.99
tag ambulance: no	0.996	0.998	0.997	0.994	0.998	0.991	0.999	0.957
tag_ambulance: yes	0.969	0.935	0.989	0.902	0.992	0.877	0.998	0.775
tag_animal_transport: no	0.983	0.993	0.986	0.992	0.988	0.987	0.991	0.931
tag_animal_transport: yes	0.909	0.746	0.958	0.687	0.977	0.642	0.970	0.478
tag_caravan: no	0.998	0.999	0.999	0.998	0.999	0.997	1.000	0.982
tag_caravan: yes	0.984	0.939	0.994	0.912	0.995	0.894	1.000	0.789
tag_fire_brigade: no	0.998	0.999	0.999	0.999	0.999	0.997	1.000	0.978
tag_fire_brigade: yes	0.927	0.751	0.970	0.652	0.986	0.603	1.000	0.456
tag_helmet: no	0.953	0.881	0.969	0.851	0.975	0.830	0.987	0.706
tag_helmet: yes	0.980	0.974	0.985	0.964	0.988	0.956	0.995	0.895
tag_law_enforcement: no	0.999	0.999	0.999	0.997	0.999	0.994	1.000	0.968
tag_law_enforcement: yes	0.983	0.977	0.992	0.967	0.995	0.953	0.999	0.897
tag_mixer_truck: no	0.983	0.973	0.997	0.951	0.997	0.929	1.000	0.803
tag_mixer_truck: yes	0.972	0.941	0.994	0.892	1.000	0.870	1.000	0.778
tag_pickup: no	0.990	0.998	0.994	0.995	0.996	0.991	0.999	0.963
tag_pickup: yes	0.993	0.949	0.999	0.913	1.000	0.880	1.000	0.717
tag_push_bumper: no	0.995	0.998	0.997	0.996	0.997	0.992	0.999	0.956
tag_push_bumper: yes	0.986	0.958	0.994	0.939	0.998	0.920	1.000	0.823
tag_rear_mount: no	0.997	0.971	1.000	0.941	1.000	0.927	1.000	0.845
tag_rear_mount: yes	0.981	0.998	0.993	0.991	0.996	0.991	1.000	0.961
tag_rickshaw: no	0.962	0.850	0.971	0.825	0.970	0.808	0.986	0.575
tag_rickshaw: yes	0.995	0.993	0.998	0.988	1.000	0.985	1.000	0.953
tag_rider_present: no	0.981	0.677	0.991	0.672	0.993	0.669	0.996	0.645
tag_rider_present: yes	0.999	0.973	0.999	0.973	0.999	0.971	0.999	0.967
tag_tank_truck: no	0.930	0.961	0.940	0.917	0.944	0.896	0.985	0.768
tag_tank_truck: yes	0.960	0.885	0.974	0.865	0.977	0.837	0.996	0.794
tag_taxi: no	0.978	0.981	0.983	0.964	0.985	0.945	0.991	0.830
tag_taxi: yes	0.966	0.961	0.979	0.942	0.987	0.929	0.998	0.858
tag_towed: no	0.995	0.998	0.997	0.997	0.998	0.995	0.999	0.966
tag_towed: yes	0.972	0.893	0.984	0.854	0.987	0.819	0.997	0.748
tag_truck_is_semi: no	0.994	0.986	0.997	0.981	0.998	0.975	0.998	0.939
tag_truck_is_semi: yes	0.983	0.979	0.992	0.958	0.994	0.946	0.998	0.888
tag_wood_truck: no	0.985	0.983	0.989	0.981	0.993	0.979	0.998	0.949
tag_wood_truck: yes	0.951	0.784	0.967	0.784	1.000	0.784	1.000	0.743

 $\textit{Table 669: Precision/Recall results of tag classification for \texttt{MMRBOX_VCMMGVCT_PREC_2024Q4} \ (20241123) \ module.$

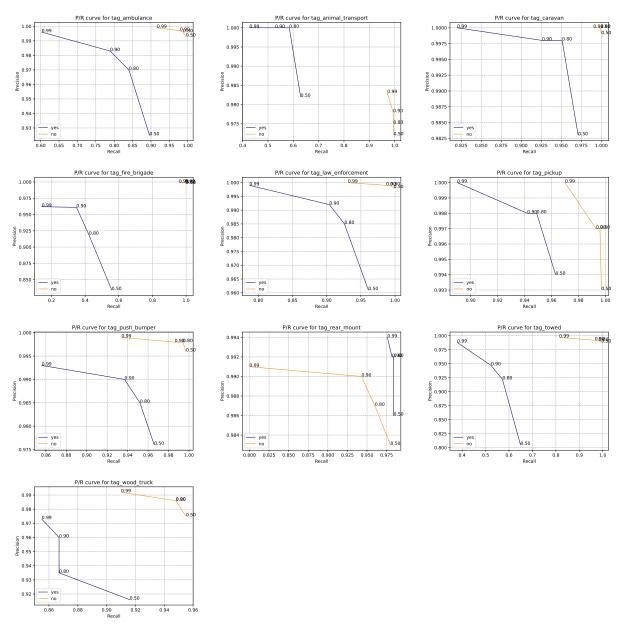


Table 670: Precision/Recall curves for MMR_VCMMGVCT_FAST_2024Q4 (20241121) module.

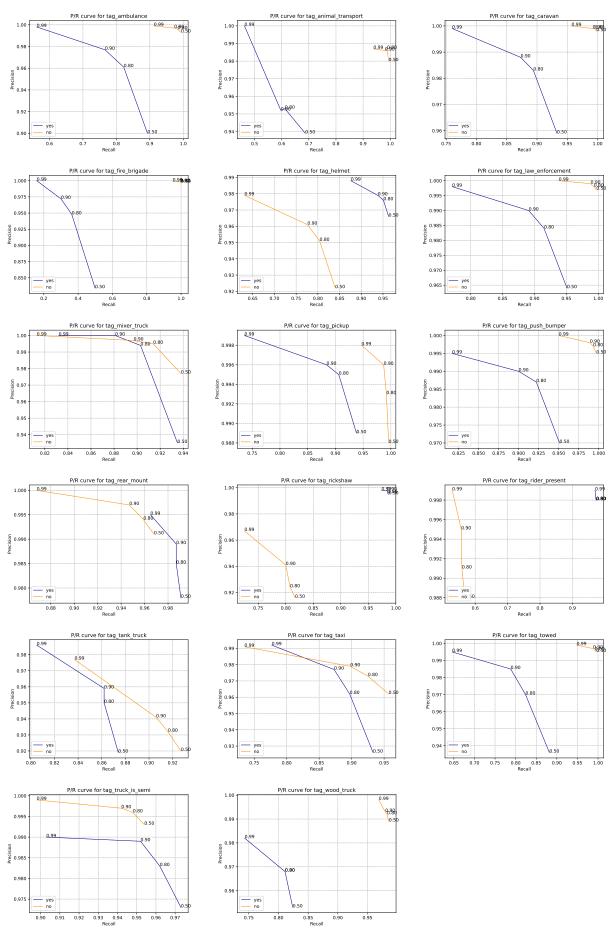


 Table 671: Precision/Recall curves for MMRBOX_VCMMGVCT_FAST_2024Q4 (20241122) module.



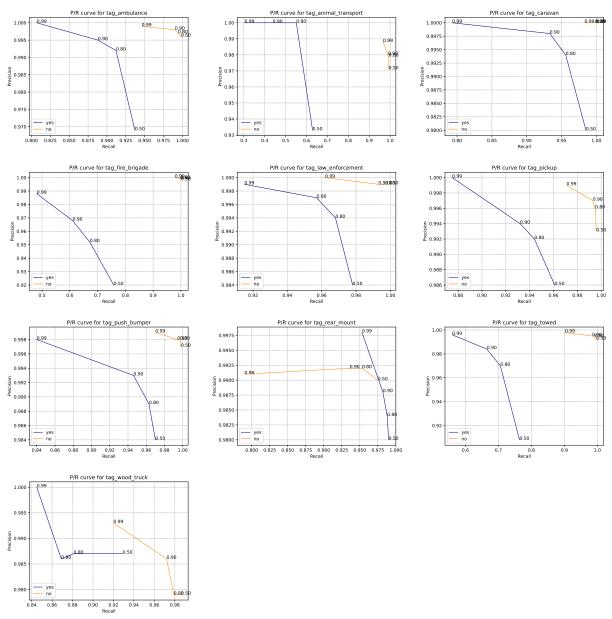


Table 672: Precision/Recall curves for MMR_VCMMGVCT_PREC_2024Q4 (20241120) module.

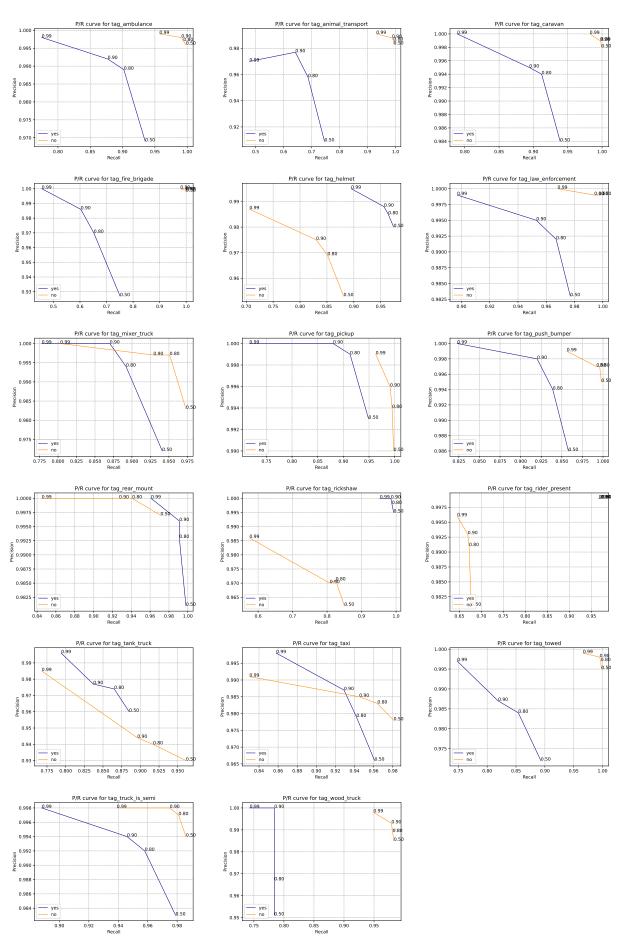


Table 673: Precision/Recall curves for MMRBOX_VCMMGVCT_PREC_2024Q4 (20241123) module.

