



Mobility Solutions



Tools for Mobility and Mobility Testing

- 01 AI Edge Development Hardware
- 02 Test Data Monitoring Platform
- 03 Data Set Preparation Platform
- 04 Autofusion Software
- 05 ADAS Warning
- 06 Driver Scoring
- 07 Vehicle dashboard warning detection
- 08 Dynamic Object Localization
- 09 Static Object Localization

01 AI Edge Development Hardware

Applications:

- On-Board Vehicle applications
- Connected vehicle
- Logistics and delivery

Features:

- Data transmission via cellular connection or local network
- AI Edge computing
- Default ADAS warnings for forward collision, pedestrian, lane departure
- V2X communication
- Configurable via mobile app.

Hardware: MB-Remote



- ADAS warning indicator and speaker
- Forward facing camera
- GNSS



- Wifi/ Bluetooth module
- IMU
- Cellular network (2G, 3G, 4G, LTE)
- CAN-Bus Module, 2 channels
- Powerful AI Processor

02 Test Data Monitoring Platform

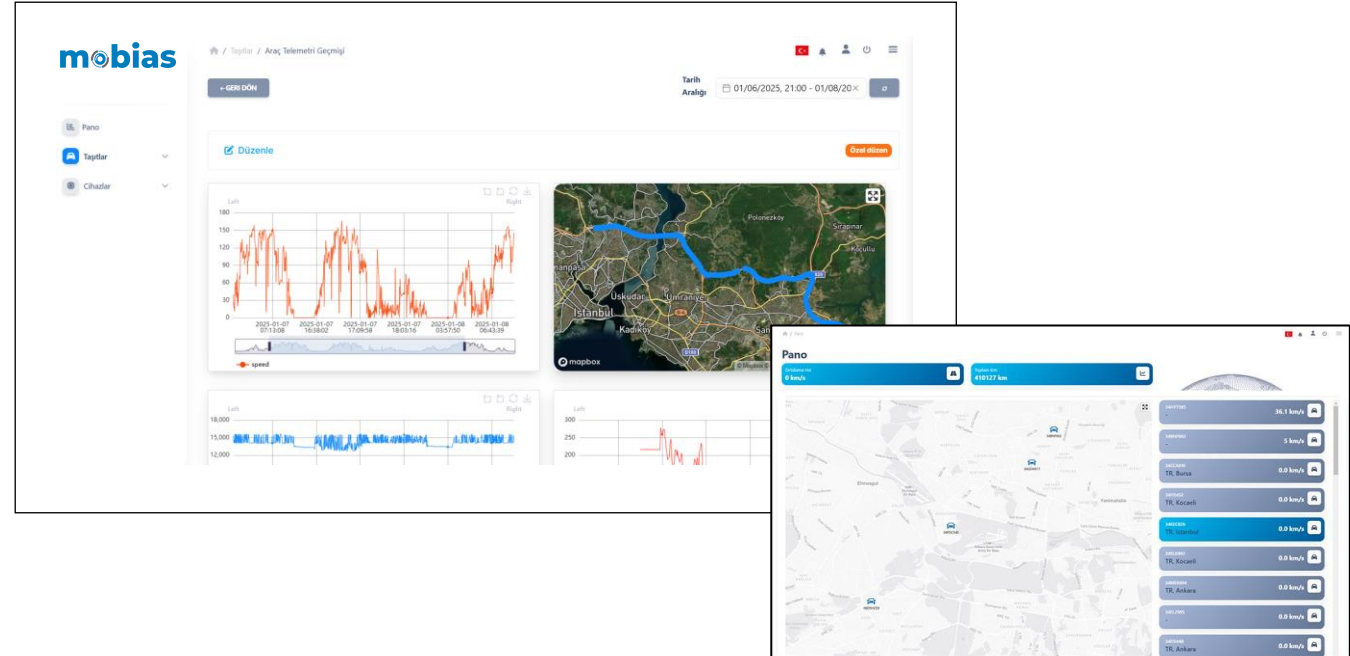
Applications:

- Data collection and monitoring of test fleets

Features:

- Data types: location, CAN-bus data, vehicle and driver information, vehicle track data
- Local server or cloud
- Continuous monitoring and insights
- Customizable industry-specific reports
- Scalable and device-compatible design

Software: MB-Remote



03 Data Set Preparation Software Tool

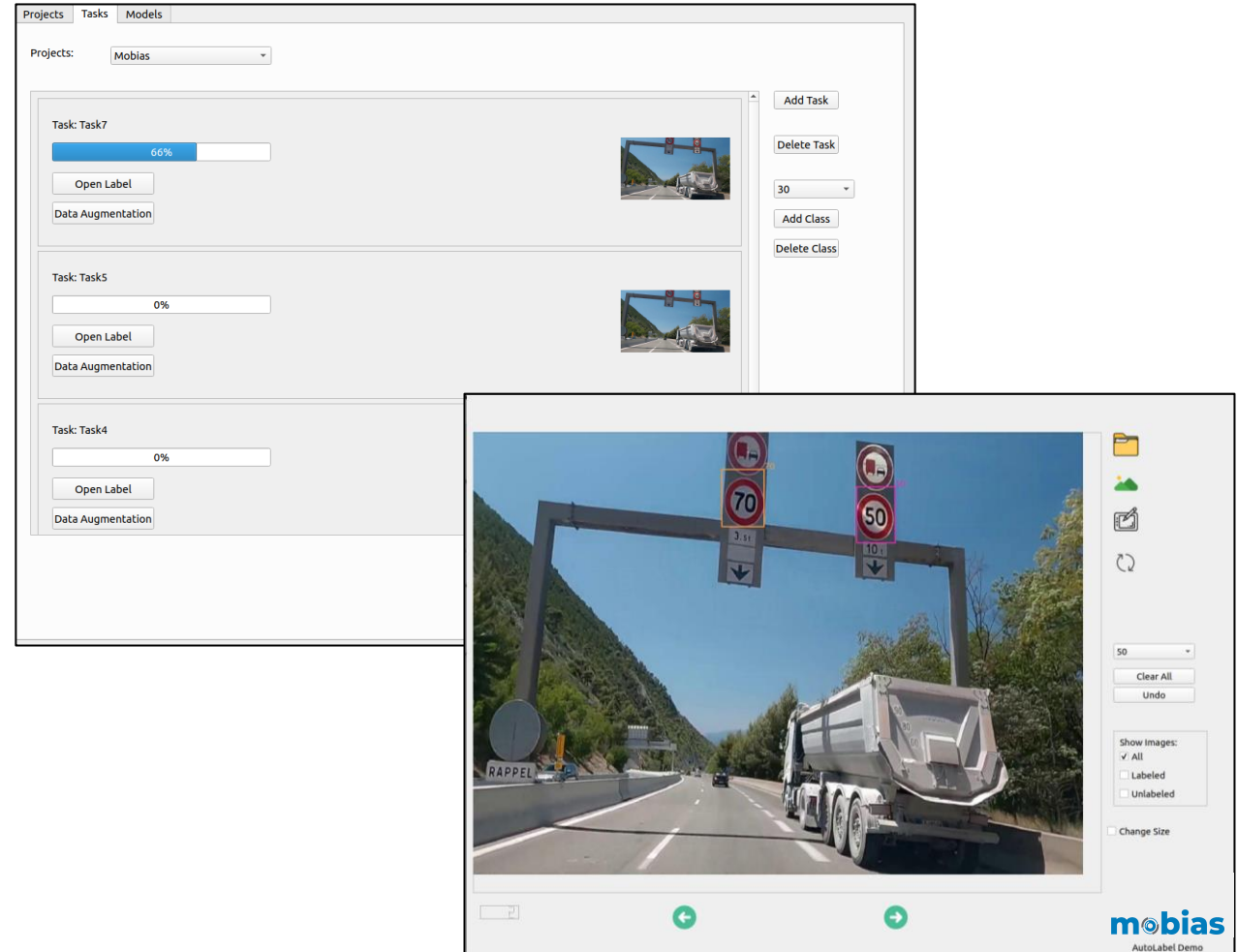
Applications:

- Enables easy data labeling and augmentation for data set creation.

Features:

- User-friendly interface
- Fast and accurate labeling operations
- Saving time and reducing labeling errors
- Easy use of different data augmentation techniques via the interface

Software: MB-AutoLabel Tool



04 Autofusion Software

Applications:

- Automatic Lidar and camera calibration with artificial intelligence support (99.9% success rate)

Features:

- Fast and accurate automatic alignment with artificial intelligence
- Compatibility with a variety of lidar and camera hardware
- Faster calibration than traditional methods
- Eliminating the need for complex markers or dedicated test areas

Software: MB-Autofusion



05 ADAS Warning

Applications:

- Use for special applications
- Pedestrian collision warning
- Forward collision warning
- Lane departure warning

Features:

- Embedded AI based software to detect pedestrians, vehicles and lanes
- "forward collision warning" and "pedestrian collision warning" via mobile application
- "lane departure warning" via mobile application for unintended lane changes

Software: MB-ADAS



Hardware: MB-WeLog



- Wifi/ Bluetooth module
- IMU
- Cellular network (2G, 3G, 4G, LTE)
- CAN-Bus Module, 2 channels
- Powerful AI Processor

06 Driver Scoring Mobile App

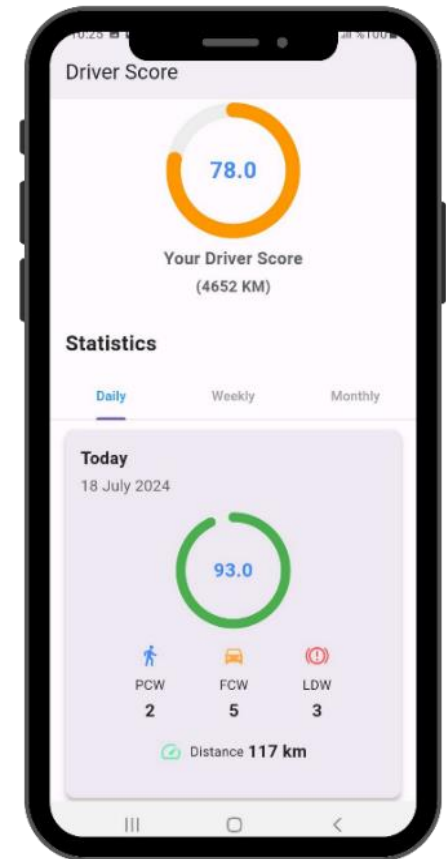
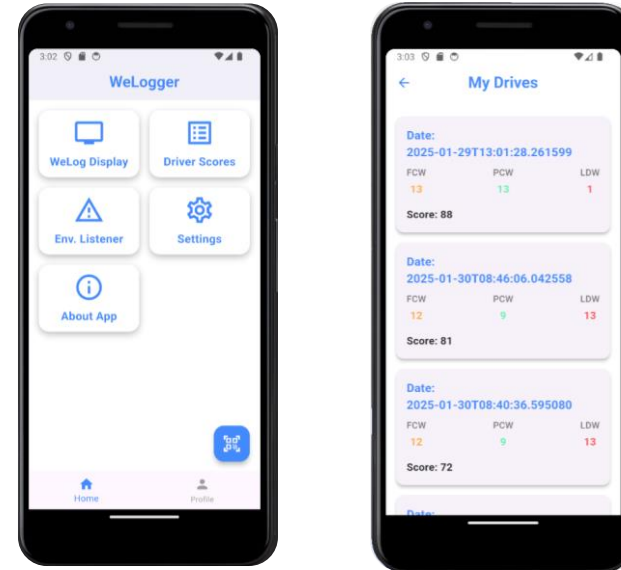
Applications:

- Driver scoring using telematic data and ADAS metrics
- Insurance, improving driving behaviour

Features:

- ADAS scoring metrics based on forward collision, lane departure and pedestrian collision warnings
- Better driving risk analysis with ADAS metrics
- Overspeed, fuel consumption and dangerous driving information using data

Software: MB-Mobil



Hardware: MB-WeLog - Optional



- Wifi/ Bluetooth module
- IMU
- Cellular network (2G, 3G, 4G, LTE)
- CAN-Bus Module, 2 channels
- Powerful AI Processor

07 Vehicle Dashboard Warning Detection

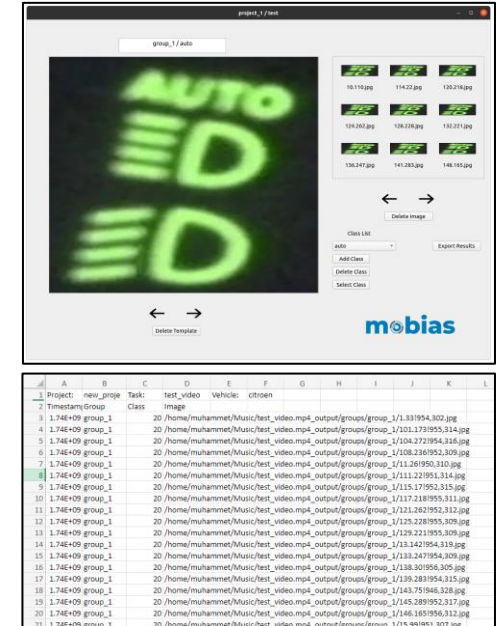
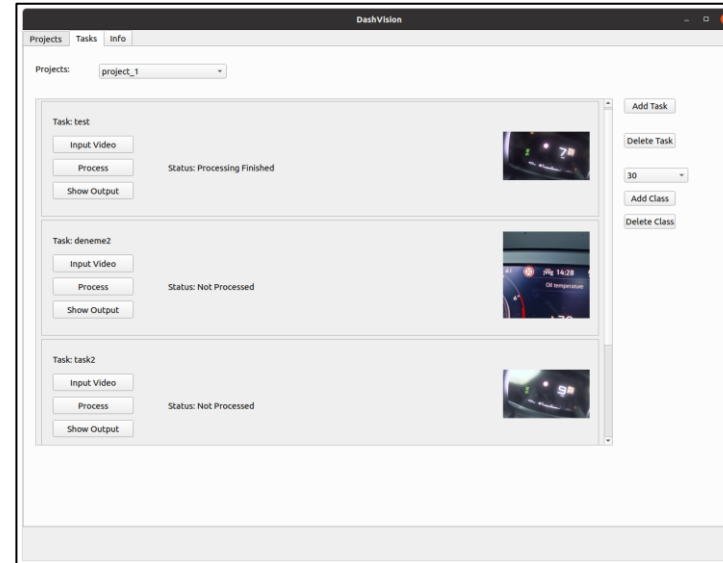
Applications:

- Generation of time-synchronized data of vehicle dashboard warnings

Features:

- AI-supported automatic grouping
- Ability to process video data recorded with any hardware
- Ability to provide results at low image quality
- Fast and highly accurate detection with dual-layer AI model

Software: MB-Dashview



	A	B	C	D	E	F	G	H	I	J	K	L
1	Project:	new_group	Task:	test_video	Vehicle:	citroen						
2	Timestamp/Group		Class	Image								
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5	1.74E+09_group_1		20	/home/muhammet/Music/test_video.mp4_output/groups/group_1/1.04.2721954.316.jpg								
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08 Dynamic Object Localization

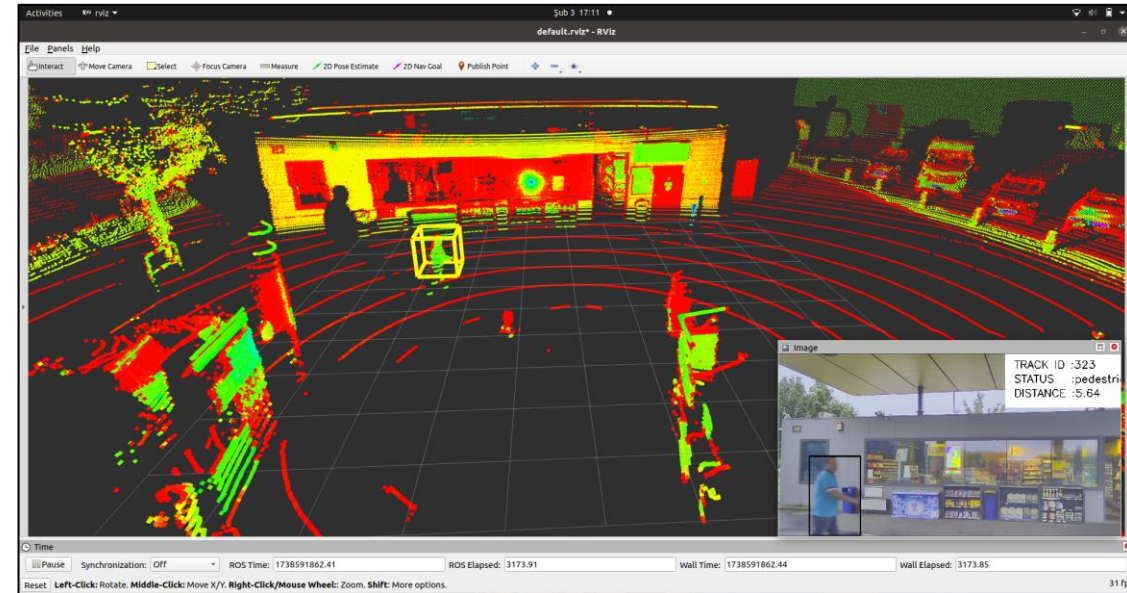
Applications:

- Validation system for dynamic object detection around vehicle.

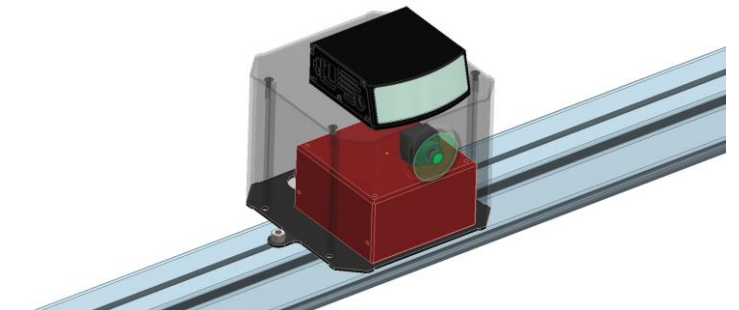
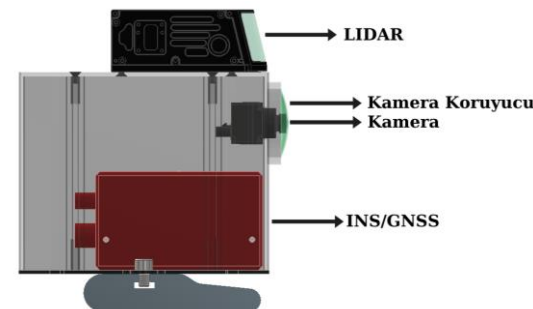
Features:

- Precise position detection of pedestrians, cyclists and other obstacles relative to the vehicle
- Highly accurate speed and position information calculated with data collected from Lidar odometry without the need for GNSS data
- GNSS data correction with LIO (LiDAR-Inertial Odometry) support

Software: MB- RMS Software Module



Hardware: MB-RMS



09 Static Object Localization

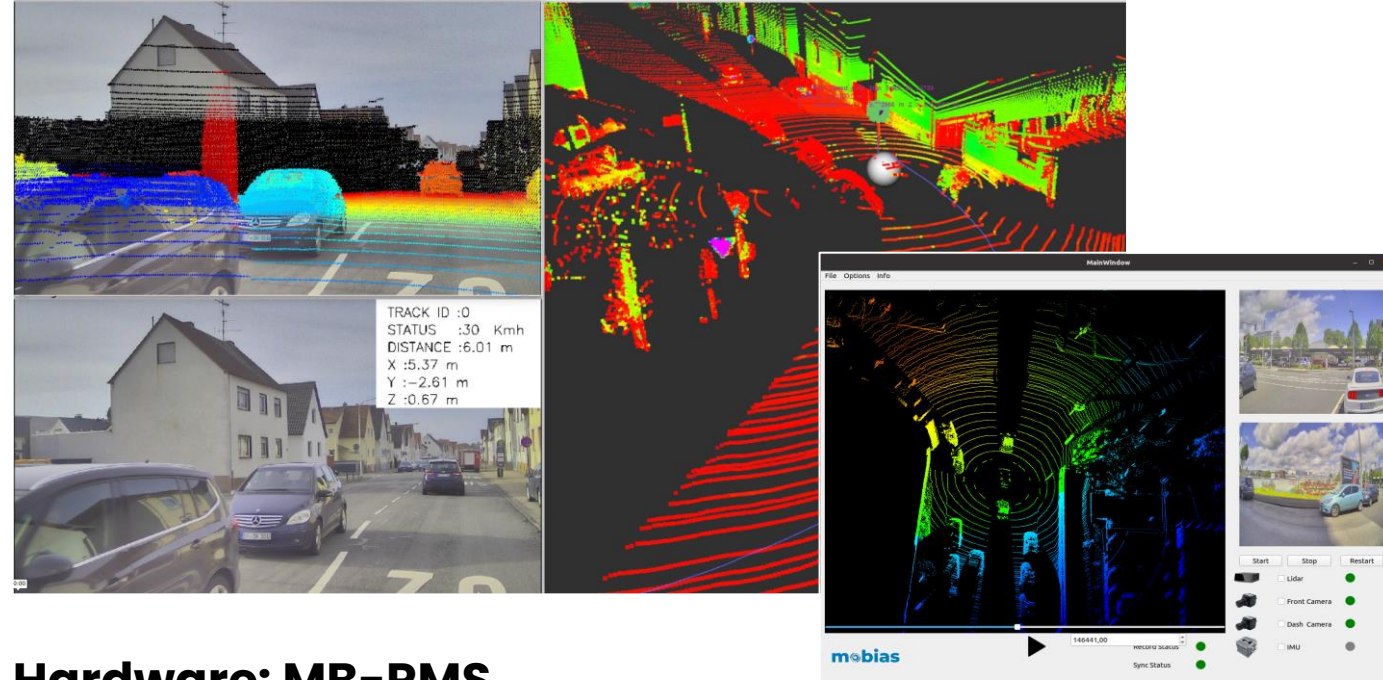
Applications:

- Validation system for speed sign detection and localization on roads.

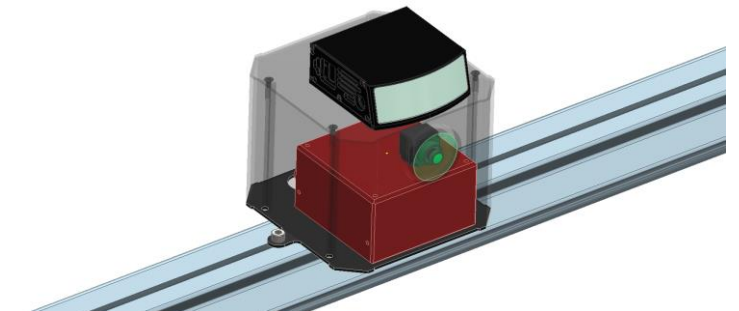
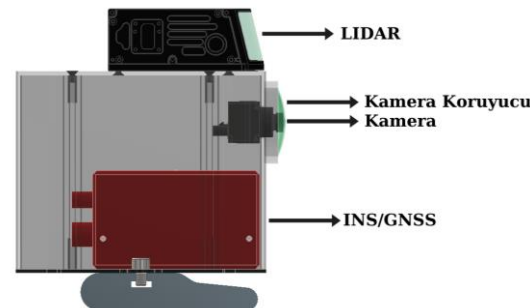
Features:

- Traffic sign and precise location detection
- System performance evaluation

Software: MB-RMS Software Module



Hardware: MB-RMS





Thank You!