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Successful R&I in Europe 2024 - 11th European Networking Event

AI-Enabled Video Telematics and Cloud Data Processing Platform

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BIAS

MEMBERSHIP



SOLUTION PARTNERS



BIAS - Profile



4 Locations Turkey

1 Location in Germany as group company: MOBIAS GmbH

- Test, simulation and product development mainly in **Automotive** and **Aerospace** since **1997**,
- 140 employees,
- Recent R&D focus: **Road Safety**
 - Lidar based traffic data
 - Road surface anomaly detection
 - Development of ADAS warning algorithms
 - Data collection with vehicles instrumented with sensors.
 - Artificial intelligence algorithm development and embedded software
 - Cloud platform

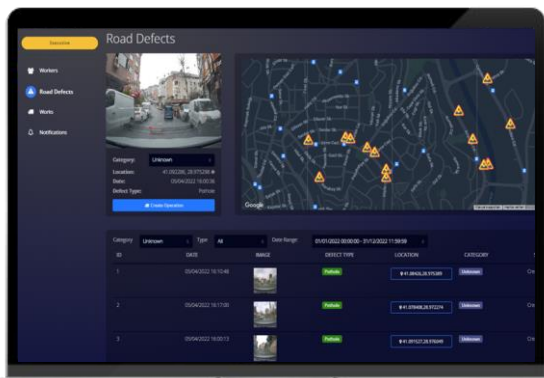
Recent Research Topics

AI-Enabled Video Telematics Device

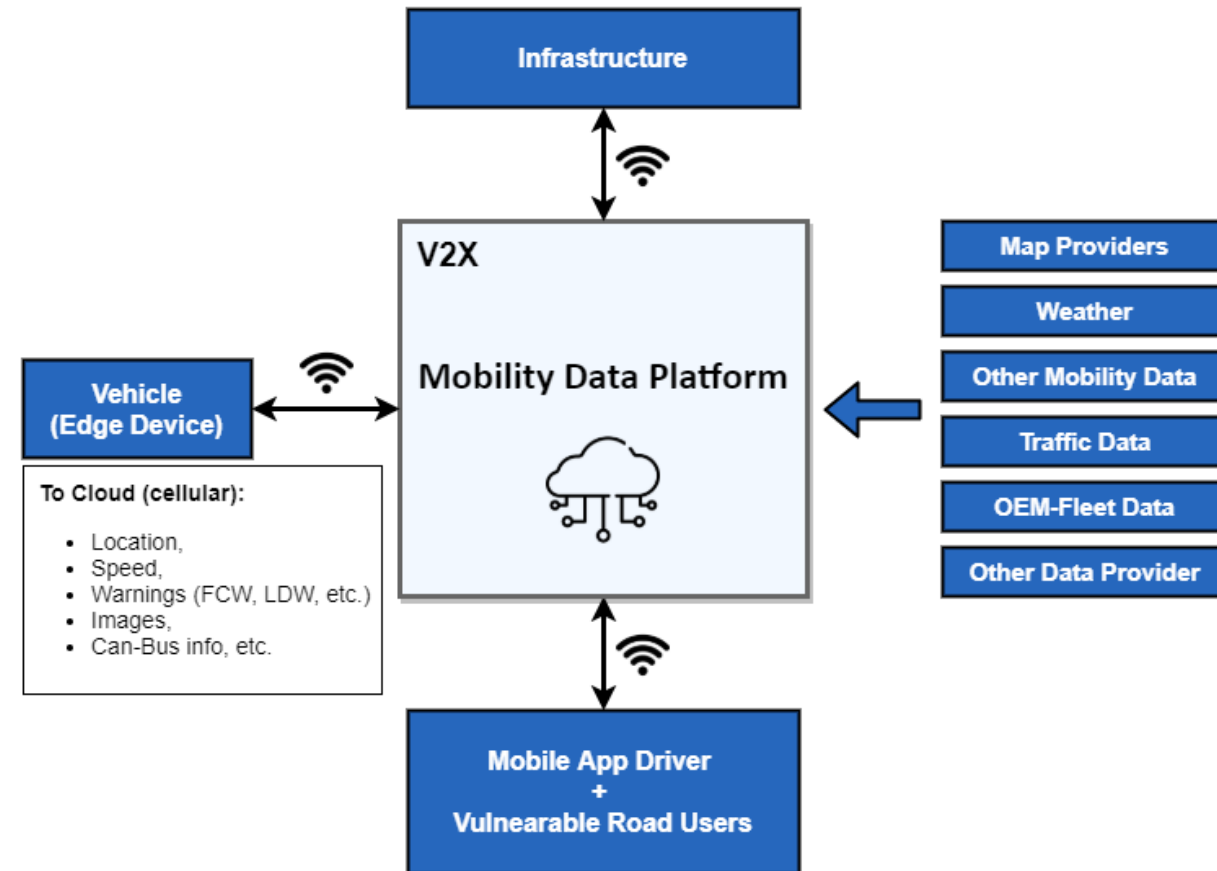


Possible Applications

- ADAS warning
- Road surface
- Remote testing



Mobility Data Platform



Experience

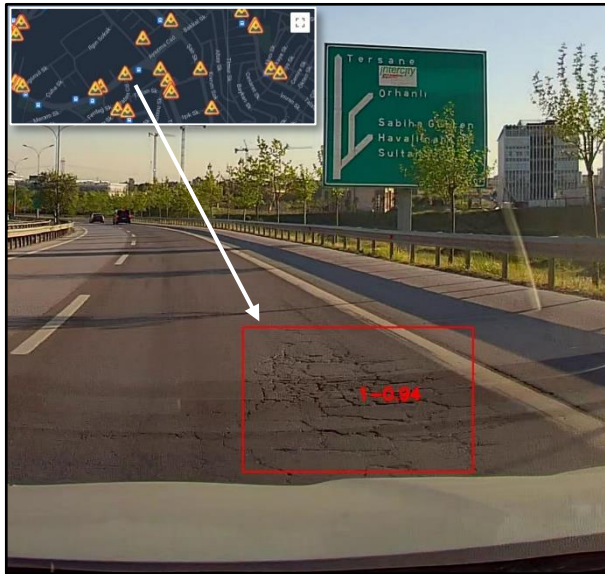
Road Surface Anomaly Detection

PoC with Istanbul Metropolitan Municipality

Topic: Road Surface Anomaly Detection

Result: 181 potholes and roughness were detected

❖ Road data is collected with "AI-enabled video telematics device" or our mobile application.

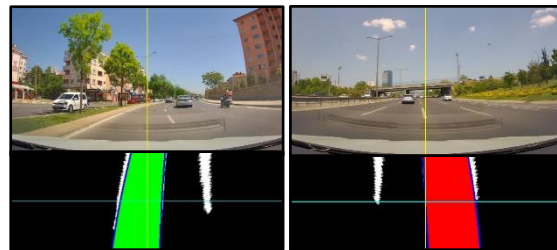


ADAS Warning

PoC with a Last Mile Delivery Vehicle Manufacturer

Topic: Driving safety and driver scoring with ADAS warnings.

Ongoing project

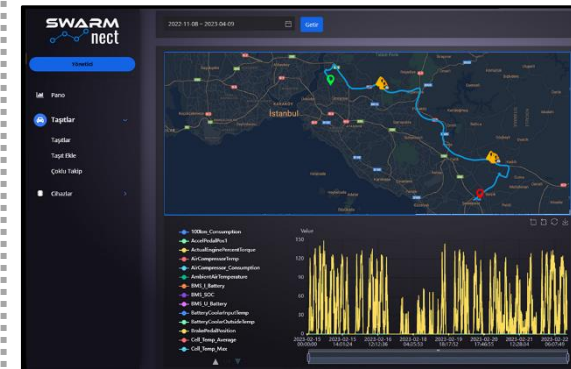


Remote Data Collection

PoC with a special vehicle developer

Topic: Vehicle Remote Test and Management Platform

Ongoing project

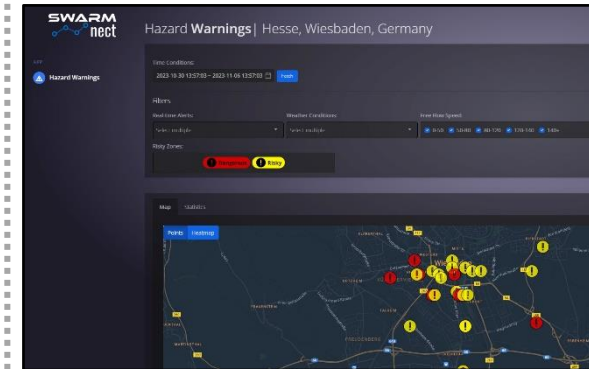


Hazardous Location Warning

Case Study at MOBIAS, Germany

Topic: Hazardous Location Warning

Ongoing project



Partner Sought

We are looking for Partners;

- Who wants to **validate/test their machine learning models, functions, and algorithms in the field.**
- Who are looking for a deployment partner for pilot demonstrations (**Last Mile Delivery Vehicles Manufacturers, Municipalities, Road Infrastructure Providers, etc).**

Our Target

- ❖ Become data collection and data processing platform provider
- ❖ Be your deployment partner

What we can do in Horizon Topics

Data collection from
the road and vehicle

HORIZON-CL5-2024-D6-01-06:

- ✓ Developing and testing new generation multimodal, flexible, agile and adaptable, secure and resilient transport network and traffic management systems, leveraging state-of-the-art technologies (e.g. artificial intelligence, big data, edge computing, internet of things, blockchain).

Deploy algorithms and
AI models to the cloud

HORIZON-CL5-2024-D6-01-08:

- ✓ Demonstrate ability to process internal and external raw data, such as sensor data, into smart data and related cloud architecture that can be deployed to optimize infrastructure management processes

Deployment of edge
computing ideas

Make non-connected
vehicles connected

BIAS
MÜHENDİSLİK

Yenilikçiler için Çözümler
Solutions for Innovators

THANK YOU

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