



Revolutionizing On-Road Safety Evaluation for ADAS

AI-Powered Software for Precise ADAS Scoring



Mission

Drastically improve the
efficiency of ADAS testing

May 2025

IVEX team & figures



Founded in 2018
KUL university spin-out



HQ in Belgium
10+ cultures - 75% automotive SW engineers



Top investors **SPDG dedicated.**

noshaq **FAKTORY** **PMV**
OLD AND DADE COMPANY



6 patents filed (1 in the U.S.)
10 patents WIP



Automotive Communities



“This collaboration marks an important step forward in our commitment to evolve vehicle’s safety.

*With real-world driving scenarios, we aim to provide a more accurate and robust evaluation of **advanced driver assistance systems** (ADAS).*

IVEX brings valuable expertise to this vision, and we look forward to the insights of this collaboration.”

Richard Schram,
Technical Director at Euro NCAP

Partnerships



MIRA

SIEMENS



Weather Conditions

Scenarios



Luminosity

The Problem

Evaluating ADAS functions in real road conditions in an efficient and precise manner

- Manual evaluation of on-road data is time consuming and prone to errors
- Inconsistent testing methods lead to unreliable results
- Lack of automation makes it hard to scale testing operations
- Testing protocol calculations require precise KPI data

Road Types

Traffic Signs

Different Countries

Traffic Signs



The Solution

AI-Powered On-Road Testing Platform for Euro NCAP 2026 and GSR2 Compliance

- Seamless Hardware and Software integration for on-road data
- Automatic & precise calculation of KPIs (e.g. Speed Assistance)
- Direct event insights and anomaly detection
- Interactive reports facilitating data sharing with customers
- Used by leading institutions in the industry

AI-Powered On-Road Testing Platform for Euro NCAP 2026 and GSR2 Compliance

1

Set up data recording system.

Effortless sensor setup – Ready in less than one day!



2

Collect data and upload to Company's platform

Highly efficient data logging software delivers top-tier sensor quality with minimal storage demand.

Enabling efficient cloud storage and processing of data.

```
(base) %  
757M  
3.0G  
68G  
13G  
48G  
5.3G  
30G  
1.1G  
37G  
4.3G  
24G  
8.2G  
27G  
6.4G  
32G  
168M  
162M
```

3

Platform processes data using cutting edge algorithms

Cutting-edge AI and robotics technologies designed for accurate vehicle scoring.

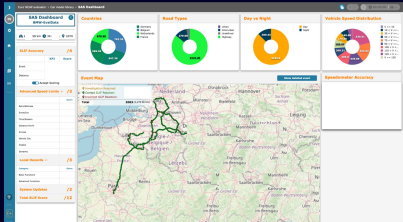
Speed limit detection, lane detection, distance estimation, object detection, anonymization and traffic situation recognition.

More data fuels smarter, more powerful scoring algorithms with expanded coverage and precision.

```
du -h -d 1  
13-45-15  
11-31-14  
15-58-40  
17-52-17  
13-01-57  
14-46-31  
17-29-42  
13-34-26  
18-40-29  
08-45-49  
12-18-26  
14-17-25  
17-40-18  
09-26-52  
14-13-44  
14-04-43
```

4

Users explore results through interactive web interface.



An intuitive scoring dashboard with an event-driven analysis workflow, providing deep system performance insights in just a few clicks.

SAS Evaluation

Benefits

SLIF Accuracy KPI Score

Event 53.45 % 0

Distance 70.69 % 0

☐ Accept Scoring

Advanced Speed Limits ^ 0/3

Rain/Wetness 0

Snow/Ice 0

Time/Season 0

Distance for/in 0

Arrows 0

Vehicle Category 0

Implicit 0

Dynamic 0

Investigation Required: **138** (152.06 Km)

Correct SLIF Reaction: **1011** (1,358.69 Km)

Incorrect SLIF Reaction: **833** (563.28 Km)

Excluded From KPI: **405** (246.81 Km)

Total **2387** 2,320.85 Km

Event: Investigation required

Country: Belgium

Province: Flemish Region

Investigation

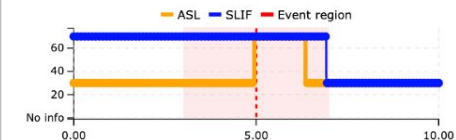
Event

Segment

Event type: Investigation required

Add an event from a point

Clear



0.10 / 10.10

dashboard_camera

front_camera

- Manufacturers improve the reliability of their ADAS systems
- Regulators and safety organizations set smarter standards
- Consumers make informed decisions about the safety of their vehicles

Event

Segment

Type	Criteria	ASL	SLIF
Investigation required	Time	70	30

Status	Length	ASL	SLIF	KPI
Investigate	10.90 m	70	30	<input type="checkbox"/>