Roads of Tomorrow

Johanna Thorn

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About

 Founded **2015**

 40 employees

 Computer Vision, machine learning, AI

 Stockholm, **Sweden**

 Autonomous vehicles, Smart Cities and **Road Data**

zenseact

ABB

Husqvarna Group

UNIVRSES

The Future with Connected Vehicles

400 million connected vehicles expected by 2030.

Univrses is at the forefront of this development leveraging our work from the automotive industry.

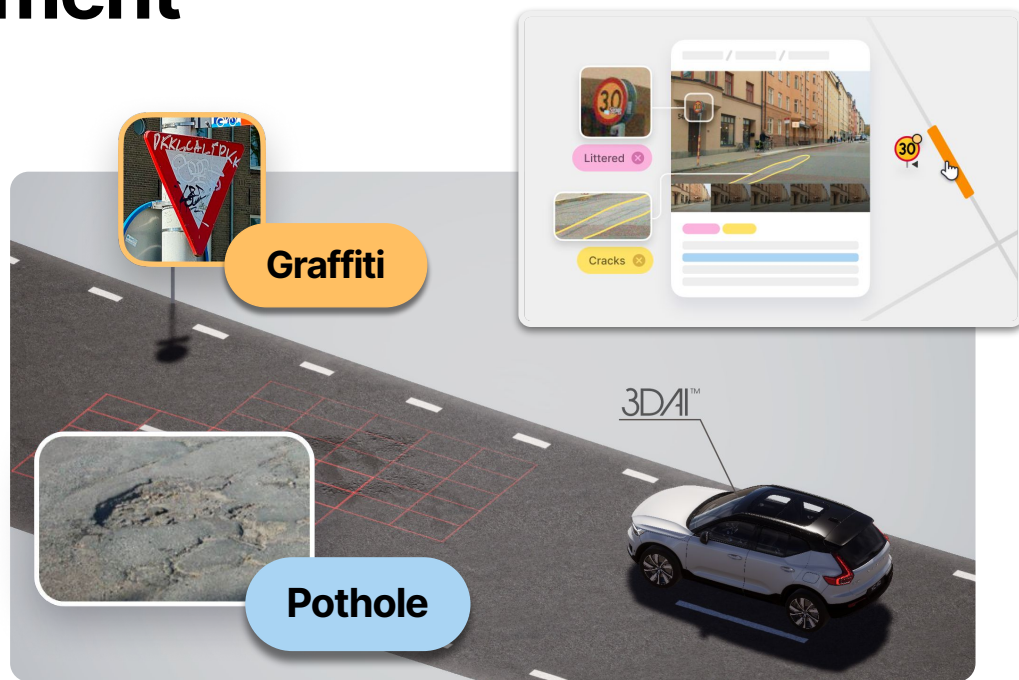Polestar 3. Image courtesy of Polestar. www.polestar.com

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Enabling frequent road infrastructure assessment

3DAI™

Univrses' **3DAI™** creates AI-generated road asset maps in real-time.

Providing actionable insights to promote **proactive maintenance** efforts.

Graffiti

Pothole

3DAI™

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AI Road Inspection in Action

3DAI™

1. Install in existing fleet

2. Over the air data transfer

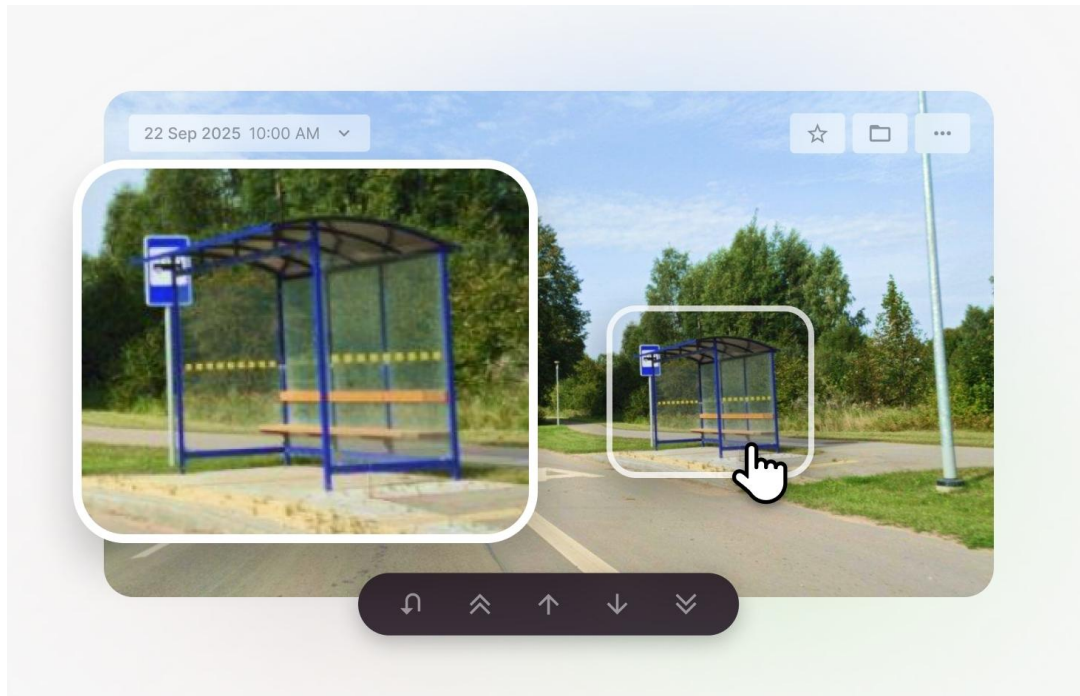3. Insights in real time

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Streamlining bus stop maintenance with AI

The Challenge:

Extensive Network: Over 250 diverse bus stops

Hidden Problems: Minor issues like twisted signs or missing timetables easily go unnoticed.

Detection: Relied on passenger reports and time-consuming manual staff checks.
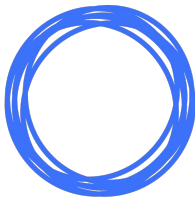
Streamlining bus stop maintenance with AI

Deployment & Initial Operations

- **Launch:** Started July 2025 with devices installed on one bus and one garbage truck.
- **AI Processing:** System is beeing developed to classify key features (signs, timetables, shelters, benches) and flag potential issues.

1,5 M +
images collected from the network

6700
Kilometers driven
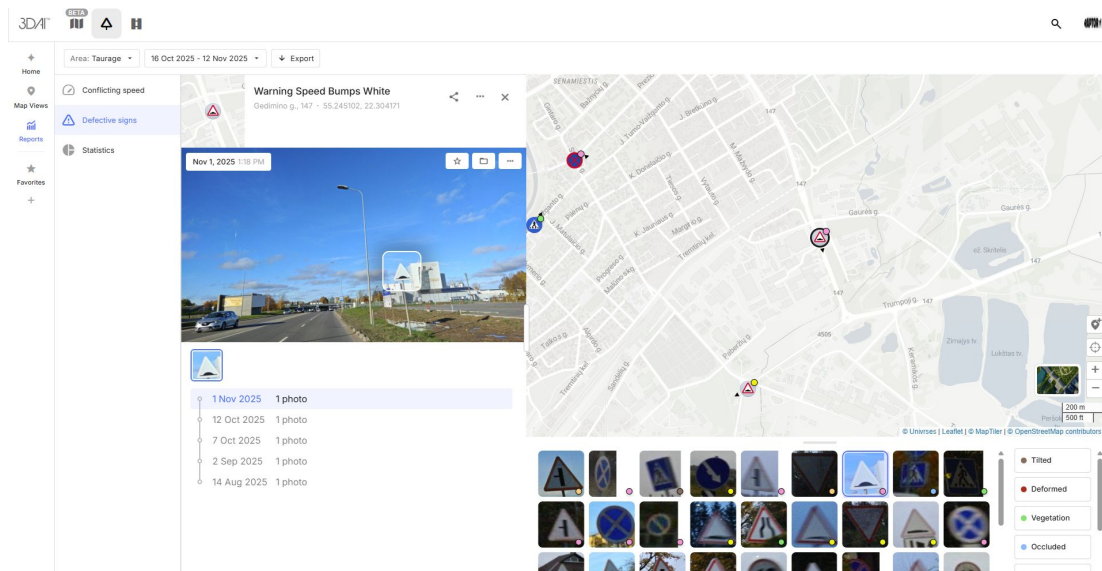
1800
Signs detected

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Streamlining bus stop maintenance with AI

Expanded Value: Beyond Bus Stops

Diverse Data: Using various 3DAI™ modules, the system also captured:

- Road surface conditions
- State and position of road signs

Single Setup, Multiple Streams: Provides Tauragė with access to multiple data streams from one integrated system, offering a broader view of its transport infrastructure.

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Want to know more?

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