

Certified Mobile ADS Testing Lab by



Getting Autonomous Vehicles Type-Approved & Test Driving in Europe



Major Problems Restrict Autonomous Vehicles Test Driving on Public Roads in Europe

1. **No mobile testing services.** Going to a test center is costly and not convenient for product development.
2. **Few certified test centers do ADS validation** for type approval.



Metrosert's ADS Testing Accelerates Autonomous Vehicle Development

- ◆ **Mobile certified test center** comes to you (from 2025)
- ◆ **All tests follow type approval requirements**
- ◆ **Type-approval preparation assistance** for test-driving in Europe
- ◆ **Validate** documentation and traffic simulations
- ◆ **Access** to various test sites and public roads
- ◆ **Intros to insurers** experienced in insuring autonomous vehicles



Metrosert's Process of ADS Testing

-  1. Determining test sequences
-  2. Simulation validation
-  3. On-field testing in a restricted area
-  4. Public road testing
-  5. Type-approval preparation and test validation



Metrosert Supports a Wide Range of Autonomous Vehicle Developers

- ◆ **Autonomous Vehicles (L, M, N)**
 - Public urban roads
 - Up to speed 120km/h
 - Up to cross weight 40 tons
- ◆ **Autonomous Driving Systems**
- ◆ **Sensors for ADS**



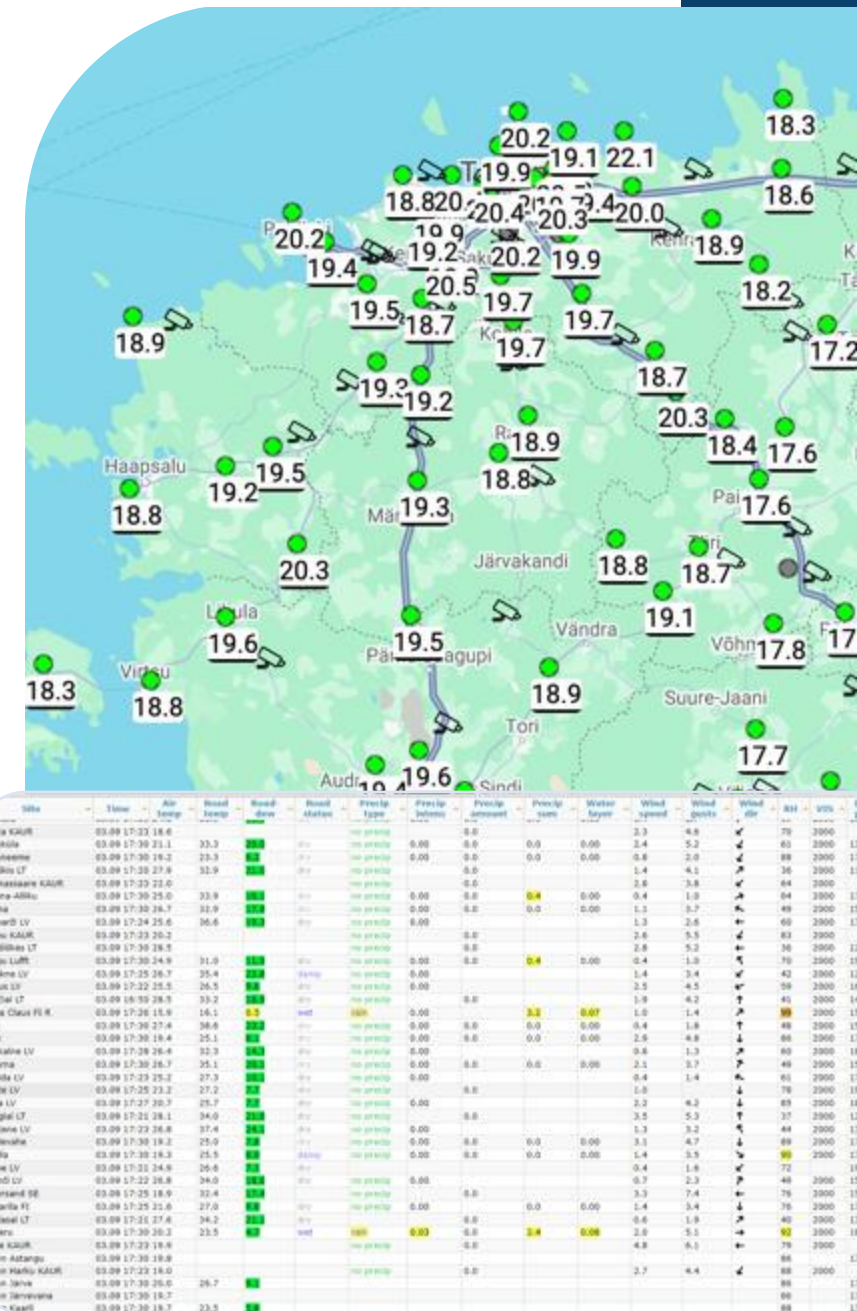
Advanced Capabilities of Metrosert's Mobile Test Center

- ◆ **Sequence creation** and evaluation of vehicle's actions through simulations
- ◆ **On-site vehicle laboratory** for pre-testing setup and system validation
 - Variation of traffic signs and control devices
 - Euro NCAP targets: dummies of a pedestrian, a child, a motorcycle, a car, a small animal
 - Freeboard GPS platforms (up 120km/h)
- ◆ **Certified GPS measuring system** compatible with all driving robots/dGNSS-systems
- ◆ Testing protocols adhering to **Euro NCAP standards**
- ◆ **Access** to various test sites and public roads



World's Best Real-Time Road Weather Data and Base Maps are in Estonia

- ◆ **Road weather input** with described micro climate per each 25m
 - Data collected since 2016 covering 3000km on Estonia main roads
 - Precise weather prediction up to 6h and real time short warnings
 - Air temperature
 - Road temperature
 - Water layer
 - Precip type, tensinty, sum
 - Wind (direction and speed)
 - Road status
- ◆ **Base maps available** for cities and public roads
 - Per every 2 years 12 000km of main road are scanned
 - Raw point cloud with HD
 - Processed ready to use map possible





About Metrosert

- ◆ Founded in 1919
- ◆ 100% State Enterprise
- ◆ National Metrology Institute
- ◆ Research and Technology Organisation
- ◆ Accredited Technical Assessment Body
- ◆ NATO DIANA Test Centre

Applied Research Center's focus fields



**Autonomous
vehicles**



Drone Tech



Hydrogen Tech



Health Data



Biorefining



Contact

Contact Taaniel Tigas to discuss how MetroserT can accelerate your ADS development, testing and getting a type approval.



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[Autonomous Vehicles Web](#)

