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www.ultimo-he.eu

ULTIMO

Advancing Sustainable User-centric Mobility with Automated Vehicles

KEY FACTS

Duration: October 2022 - September 2026
Who: 22 partners
Coordinator: DB Regio Bus

A NEW PARADIGM IN MOBILITY

The large-scale deployment of **automated vehicles (AVs) in public transport** is within reach, but key challenges remain. While past initiatives have tested AVs, achieving **economically viable, user-centric, and scalable shared fleets** is the next step.

ULTIMO is paving the way by taking a **holistic, cross-sector approach** to AV deployment, setting the foundation for **inclusive, on-demand, and door-to-door automated public transport services**.

Co-funded by the European Union

Project co funded by
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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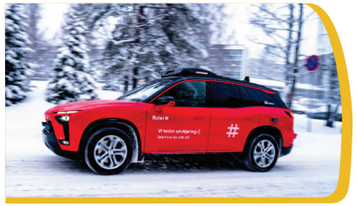
Swiss Confederation
Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

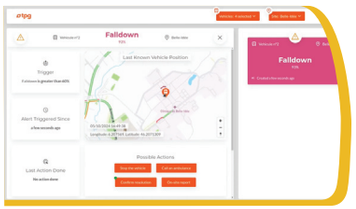
ULTIMO MILESTONES



Successful start of DRT service in Grorud-dalen Valley (Demo Site Oslo) with 5 vehicles from Nio with ADS from Mobileye and operated by Holo for RUTER AS.

4 co-creation workshops in Geneva, Herford and Oslo had been conducted to gather new insights, ideas and require-ments of future users.

Requirements from passengers with special needs are collected and taken into account in all developments.



Research on different approaches for HD Maps has started! Explored the interplay between vehicle HD-Maps and fleet orchestrator maps.

Collaboration with the following projects was established: MODI (https://modiproject.eu) on HD Mapping, Cool4 (Japan) on mobility needs, impact assessment and international harmonisation, NeMo.bil (https://nemo-bil.de) on standardisation and AV in MaaS.

ACHIEVEMENTS AND DEVELOPMENTS

- MaaS/LaaS platforms have been further developed. Integration of fleet management providers started and partially completed.
- First survey results in Groruddalen (Oslo) show that one-third of commuting trips would shift from private cars to a AV integrated into a MaaS.
- Potential scenarios and requirements for achieving cross-sectorial business models were defined and a first pricing strategy for DRT Service in Oslo is developed to evaluate societal benefits of AV in MaaS.
- First L4-vehicle is in operations set-up mode in Herford. Start of testrides with passengers planned for August 2025.
- LaaS concept for tpg / Geneva has been developed and a first test prototype was successfully operated. No working on real implementation to test when the L4-vehicles of tpg are in operations.
- Ten key passenger services and 14 vehicle and infrastracture services for L4-operations were identified. Implementation and adaptation of the services has started in the demo sites.
- Multivariate impact analysis covered five dimensions: Governance, Economic, Social, Environmental, and Technical have started and first insights will be available soon.
- Sustainable business models for the sites will be finished by July 2025.
- A webinar series was established successfully. Up to now 4 webinars with more than 500 attendees had been conducted.
- Accessibility in motion – Siemens experts collaborate with Benteler to develop an inclusive and innovative production model of the HOLON Mover, ready for everyday use.