

Long-haul & regional
road transport

Automation
(physical) and
robotics



Automated trucks motorway-to-harbour transition



Funded by the
European Union

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101076810

Developed by :



V O L V O



Project by :



Operational fields

Technologies

Solutions



AUTOMATED TRUCKS MOTORWAY-TO-HARBOUR TRANSITION

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Solution description

Automated heavy truck approaching and entering Hamburg port via city roads, operating in mixed traffic. The vehicle follows optimal speed advisories and safety alerts through urban intersections.

The focus is on the **transition from high-speed roads to a confined port environment**. It covers driving on the German autobahn, then on busy urban/industrial roads leading into the port.

Smart coordination features will be deployed, such as, a Green Light Optimal Speed Advisory (GLOSA) system on traffic lights and VRU (vulnerable road user) detection, to smooth this transition.



Benefits

- **Smoother traffic flow and higher safety** on busy port approach roads (e.g. reducing stops at lights and improving pedestrian/cyclist detection).
- Expected outcomes include **reduced congestion and fatigue** on the corridor as Cooperative, Connected and Automated Mobility (CCAM) systems optimize truck timing.

Main beneficiaries:

Motorway operators, traffic management, Roadside Equipment (RSE), On-Board Unit (OBE) manufacturers and vehicles OEMs



Technology readiness level : **6-7**
Implementation stage : **Pilot**

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Use Case Germany: Transition from motorway to confined area

This Use Case aims to demonstrate the following:

1. Verification that an automated vehicle guidance service from a motorway to a confined area through industrial and urban areas is possible and can deliver a benefit in e.g. traffic flow, operation, and the number of drivers required.
2. Verification that automated vehicles are safe for vulnerable road users / other traffic.
3. Development of corresponding generally accepted safety requirements and test procedures specifically for trucks on Level 4 automation and higher.

Join our CCAM
Logistics Task Force
to know more on
MODI solutions!



Would you like to know more? Take contact :



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