Long-haul & regional road transport

Automation (physical) and robotics

Hub-to-Hub Freight Automation

Developed by :

einride

AstaZero

Lindholmen Science Park

Project by :

MODI — A LEAP TOWARDS SAE L4 AUTOMATED DRIVING FEATURES

HUB-TO-HUB FREIGHT AUTOMATION

MODI A LEAP TOWARDS SAE L4 AUTOMATED DRIVING FEATURES

Solution description

A fully automated **hub-to-hub freight transport solution showcasing Level 4 autonomous trucks.**

It enables seamless cargo movement from a distribution centre to the Port of Gothenburg, featuring automated gate access, autonomous public road driving, digital terminal clearance, and self-guided depot charging.

The system integrates communication platforms, Fleet Management Systems, Transport Management Systems, and mobile networks.

Benefits

- Streamlined logistics operations and novel business models.

- Initial assessments show Cooperative, Connected and Automated Mobility (CCAM) vehicles can cut operational costs and support more efficient transport scheduling.

- A fully automated link also enables just-in-time deliveries, increase reliability and reduce mistakes

Main beneficiaries:

Fleet, Transport, Traffic and Logistics Management Operators

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

HUB-TO-HUB FREIGHT AUTOMATION

Use Case Germany: Transition from motorway to confined area

This Use case aims to demonstrate the following:

1. Demonstrate Level 4 automation driving on and off public roads.
2. Create and demonstrate gate access services, including request, confirmation & passing based on proper "document" handling.
3. Create and demonstrate a solution for automated loading and unloading of pallets, partly operated by the remote operator.
4. Create a better understanding of how and when the remote and the onboard operator must be involved.

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

Would you like to know more? Take contact :

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