



High-Level Dialogue on Connected and Automated Driving

18-19 June 2024, Ghent

Break-out session 1

Aligning the introduction of CAD with policy goals

Needs, requirements, and the foreseen opportunities of automated transport for logistics

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Automating people vs goods mobility

Demonstrations

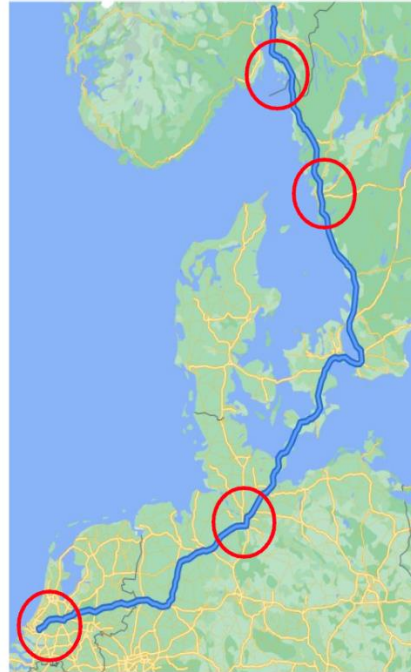
Accelerate adoption of highly automated freight vehicles

MODI will identify and overcome barriers to the rollout of automated transport systems and solutions in logistics

New business models

MODI will demonstrate business models and partnerships for beneficial application of CCAM vehicles in logistics

MODI CCAM: Rotterdam to Oslo



The Netherlands: Port operations



Germany: Motorway to confined area



Sweden: Hub-to-hub



Norway: Border to port



MODI: A leap towards SAE L4 automated driving features

Coordinator: ITS Norway

Partners: 34 (27 participants + 2 affiliated entities + 5 associated partners)

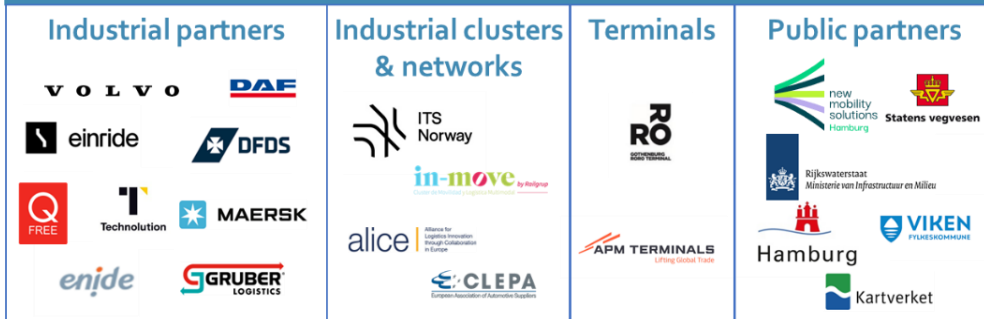
Timeline: 1 October 2022 - 31 March 2026

Total cost: € 27,992,880

EU contribution: € 23,030,095

Funding scheme: Innovation Action (IA)

Industry and end users



Research and evaluation



Associated partners



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Lessons learned and take aways



What are the main value streams of automation for freight transportation?

- Combining technology development with logistics use case:
 - Why should logistics companies invest?
 - Where is the value that will pay for the investment?

How to make it work in practice and what's still missing?

- Through the demonstrations, we learn what works and what does not. This goes beyond automated driving!
- Which are the remaining gaps? E.g. drivers do more than driving
- Logistics automated processes vs road transport automation

Share insight & setting direction

- Learnings from the full value chain implementing multi-stakeholders innovations
- Tool to engage with logistics stakeholders.
- Impact on programmes (e.g. CCAM partnership) and policies
- Direction for future R&I projects



Key results so far

- **Good understanding of *User and stakeholder requirements for automated transport in logistics***
- ***Report on Border Processes***
- ***Mapping of technical and business needs for demonstrations (ongoing)***
- ***Permits: vehicle type approval & usage***

For more information: <https://modiproject.eu/library/>



► MODI key expected results



CCAM vehicles
at TRL 7



Interface for
vehicle coordination



Design of physical and
digital infrastructure



New viable
business models



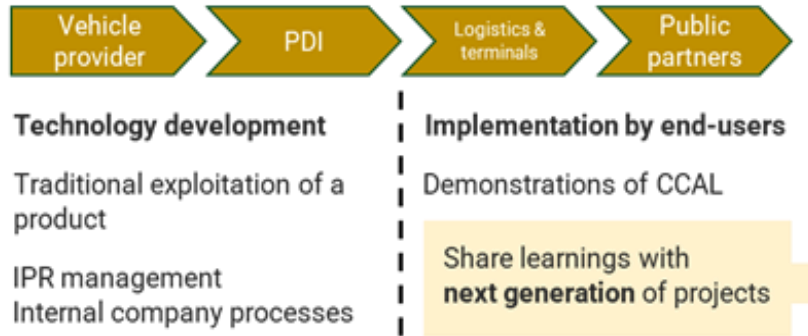
Impact assessment



Book of
recommendation

Systemic innovation and road transport transition: Zero Emissions and Automated

CCAL value chain



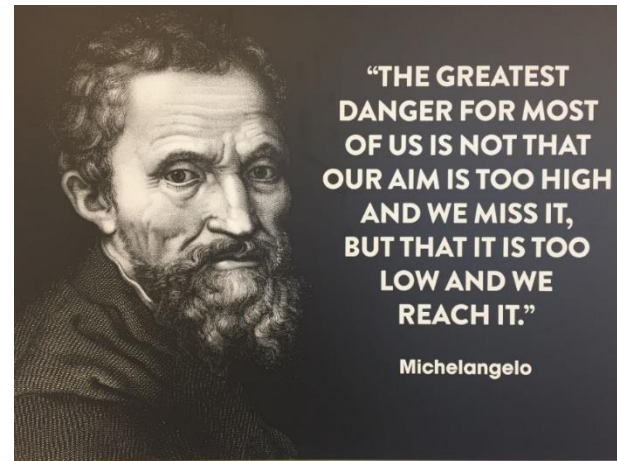
Large Scale Demonstrations are required

Hands on experience is the only way to accelerate adoption: addressing challenges, creating trust and demonstrating benefits and opportunities, understanding implications

alice

Alliance for
Logistics Innovation
through Collaboration
in Europe

Thank you!



“THE GREATEST
DANGER FOR MOST
OF US IS NOT THAT
OUR AIM IS TOO HIGH
AND WE MISS IT,
BUT THAT IT IS TOO
LOW AND WE
REACH IT.”

Michelangelo

The Best Way To Predict The Future Is To Create It!

Source: President Abraham Lincoln



If you want to go fast, go alone If you want to go far, go together

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