

M^{ODI} | A LEAP TOWARDS SAE L4 AUTOMATED DRIVING FEATURES



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MODI project

ALICE Connected, Cooperative and Automated
Logistics Operations Activity Field launch

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ITS Norway

- Membership association
 - all actors in the transport industry
 - all transport modes
- Promoting development and coordination of ITS in Norway
- Creating value for members, society and industry



90 members
RnD, industry and public sector

Cooperation with a world-wide
ITS network

MODI Ambitions



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

Demonstrations

MODI will demonstrate real use cases

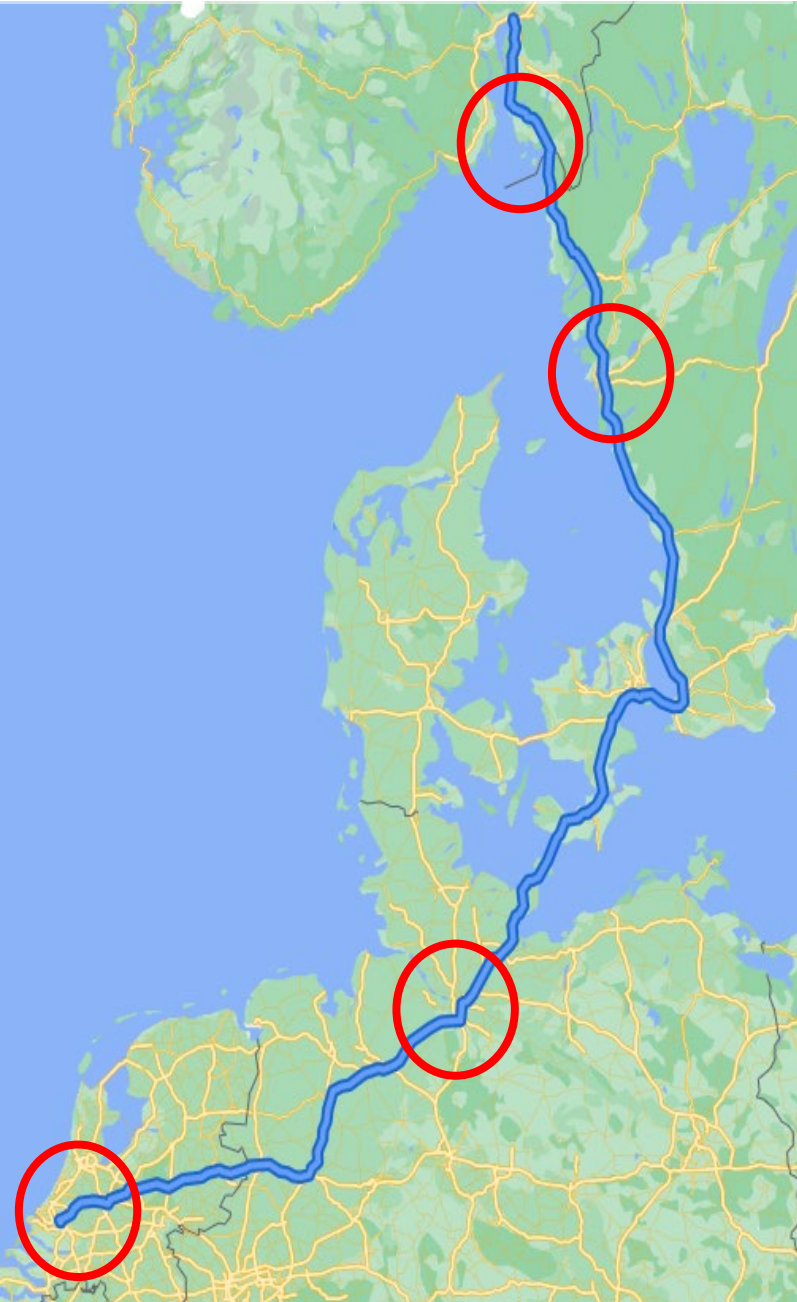
- Border crossing
- Operations in confined areas and on public roads

MODI storyline

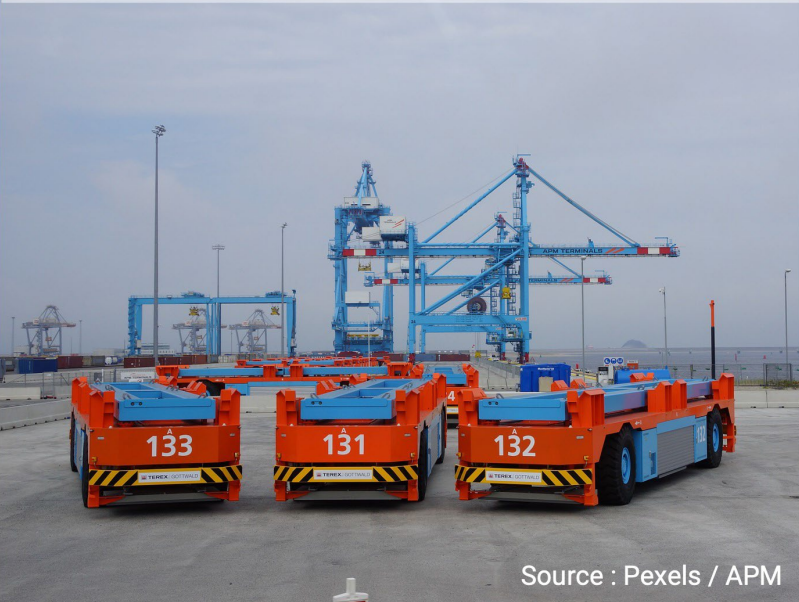
Automated transport on logistics corridor from Rotterdam to Oslo



MODI CCAM: Rotterdam to Oslo



The Netherlands: Port operations



Source : Pexels / APM

Germany: Motorway to confined area



Source : HPA

Sweden: Hub-to-hub



Source : Gothenburg RoRo Terminal

Norway: Border to port



Source: Jarl Morten Andersen/Dagsavisen

Impact assessments

Perform technical and socio-economic impact assessments

- Environment
- Safety
- Operational aspects
- Economy, including socio-economics

Gap Analyses

Technological and societal readiness for the introduction of automated freight transport



MODI key results



CCAM vehicles at TRL 7



Interface for efficient coordination of CCAM vehicles



Design of physical and digital infrastructure



New viable business models

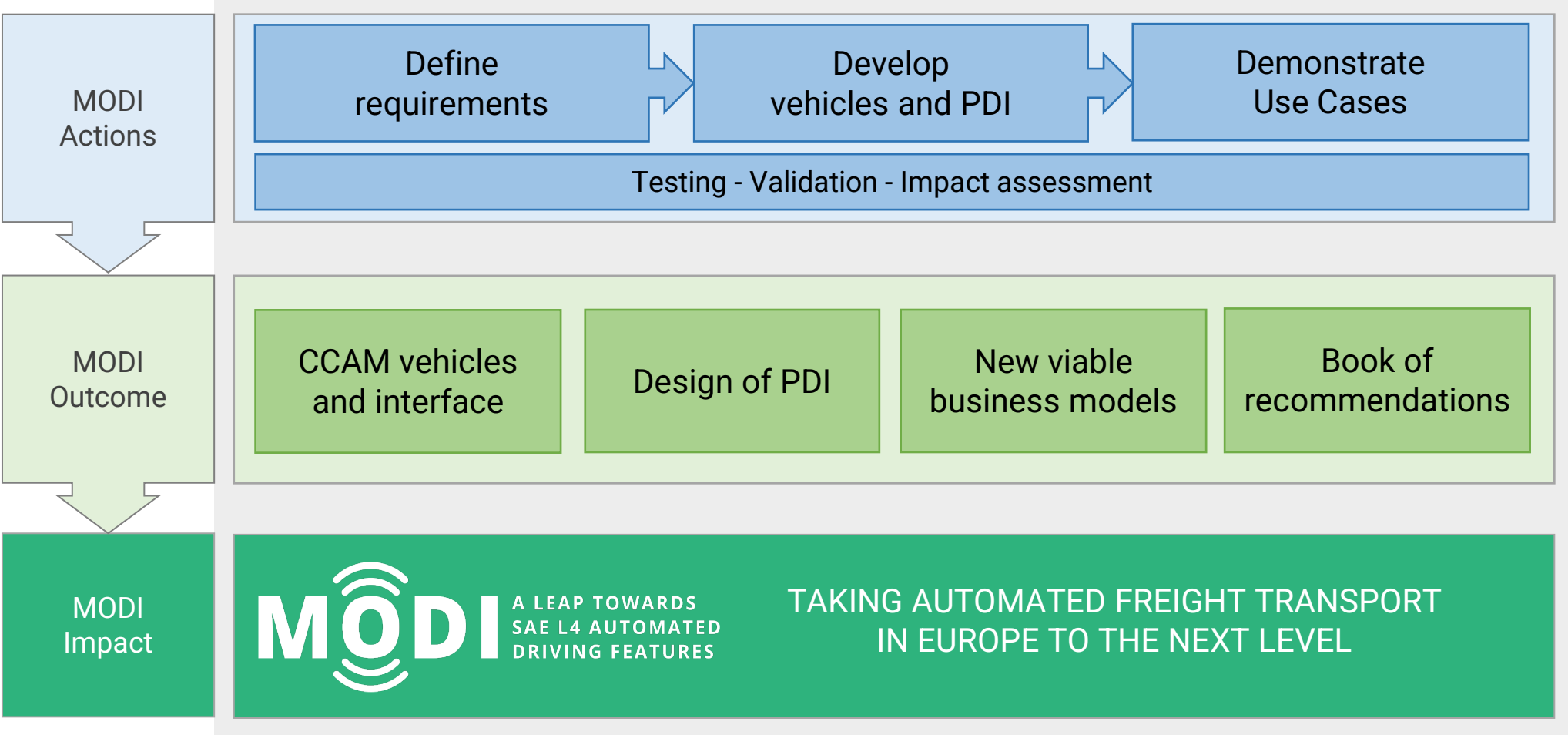


Impact assessment



Book of recommendation

MODI Project Overview

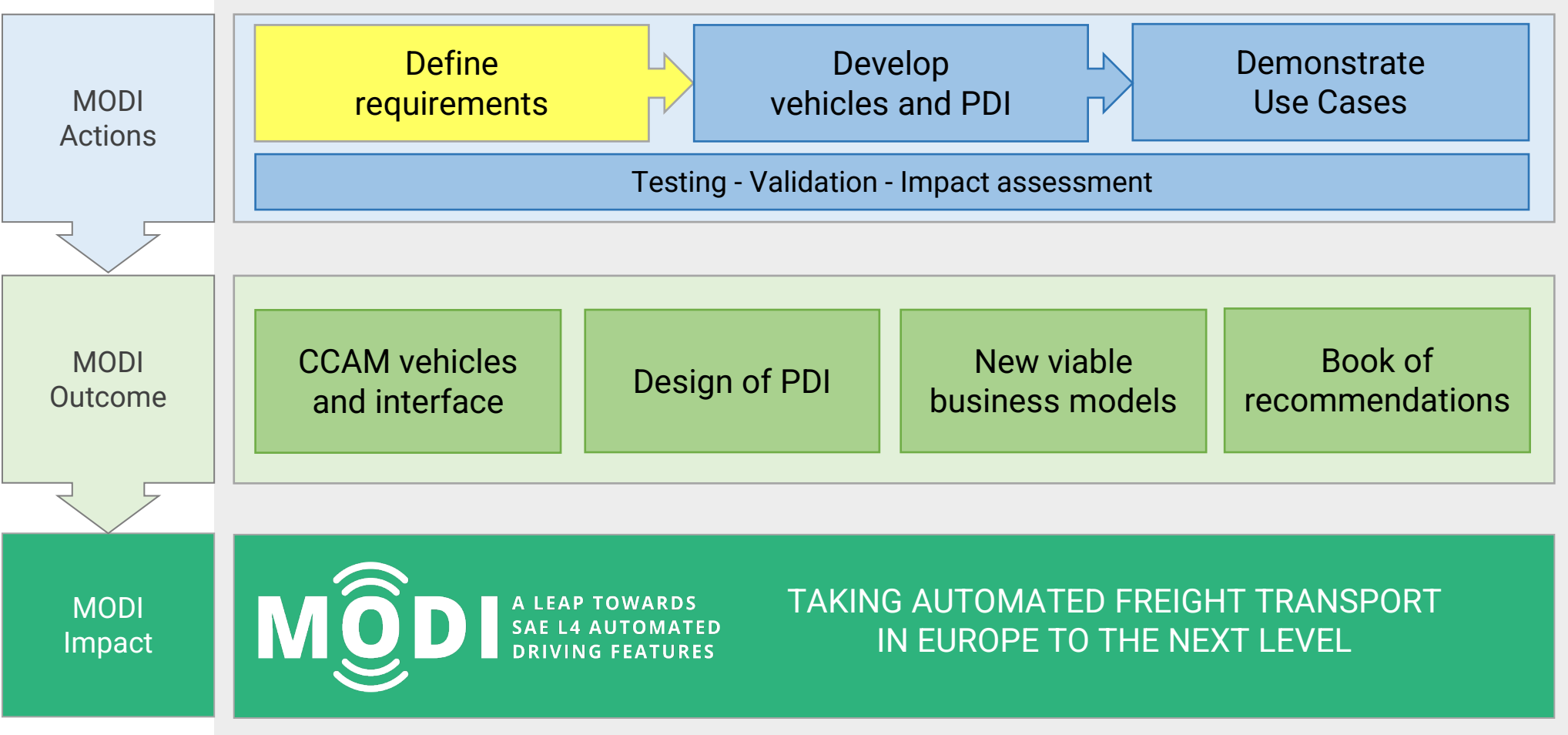


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First Year Key Results



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Source: Volvo



Source: Einride



Source: DAF Trucks

Frequent discussion points



MAKING USE CASES
TRULY USEFUL



VEHICLE DEVELOPMENT
VS. PDI SUPPORT

Stakeholder engagement

Stakeholder Board Group



MODI will engage with the SBG to receive advice on the results and activities of the MODI project throughout the lifecycle of the project

- Ensuring that the project activities consider stakeholder needs well and provide valuable and sound results to various sector actors
- A continuous process throughout the MODI's entire lifecycle will be adapted according to the project's progress and needs

Logistics sector engagement

ALICE CCAL

A concrete channel to connect MODI and other relevant projects and initiatives with the logistics users to identify challenges and opportunities and accelerate the adoption of automated systems in logistics operations.

CCAL will increase the uptake of concrete project results.

MODI recognises CCAL as a valuable community of users representing a channel for dissemination, communication and any other activity aimed at the logistics sector during the MODI C&D stages and beyond.

- C&D Stage 1 - Raising awareness
- C&D Stage 2 - Paving the way for impact
- C&D Stage 3 - Unlocking key findings
- C&D Stage 4 - Exploitation and MODI sustainability



THANK YOU FOR YOUR TIME!



Presenter

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