

MODI Project – CCAM Logistics Task Force

2nd Informative Webinar – 17th October 2025



How can automated trucks play a role in logistics?



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PORT OPERATIONS NETHERLANDS

CCAM vehicles in current logistics operations at port site.



MOTORWAY TO HARBOUR GERMANY

CCAM vehicles approaching a confined area at the harbour.



HUB-TO-HUB SWEDEN

Hub-to-hub traffic with CCAM heavy-duty vehicle.

MODI ACCELERATING CCAM ADOPTION TO IMPROVE EUROPEAN LOGISTIC CHAINS



BORDER TO PORT NORWAY

CCAM vehicles from EU border crossing to a port.



MODI CCAM CORRIDOR

MODI CCAM test corridor from Rotterdam to Oslo.

MODI Objectives and Key Results

- Implement new CCAM technology in vehicles and infrastructure
- Define recommendations for the design of physical and digital infrastructure (PDI)
- Demonstrate viable business models for connected and automated logistics
- Perform technical and socio-economic impact assessments

Significant challenges include regulatory aspects and standardisation, border crossings, access control, charging, coordination with automated guided vehicles, loading/unloading and handover from the public to confined areas.

MODI KEY RESULTS



CCAM vehicles at TRL 7 suitable for L4 demonstration on public roads and confined areas on the logistic corridor between The Netherlands and Norway.



Interface for efficient coordination of vehicles in public and confined areas, adding more benefits to the use of CCAM vehicles.



Design of PDI for supporting L4 CCAM vehicles, co-created and verified by relevant stakeholders.



New viable business models and tools creating value along the logistic chain by utilizing CCAM technology and vehicles.



Assessment of environmental, safety, operational, and socio-economic impacts to support the recommendation of future deployment of CCAM in logistics.



Lessons learned and recommendations on CCAM vehicles, PDI, regulation, harmonization, and standardization to accelerate CCAM adoption in logistics.

What is CCAM Logistics Task Force?

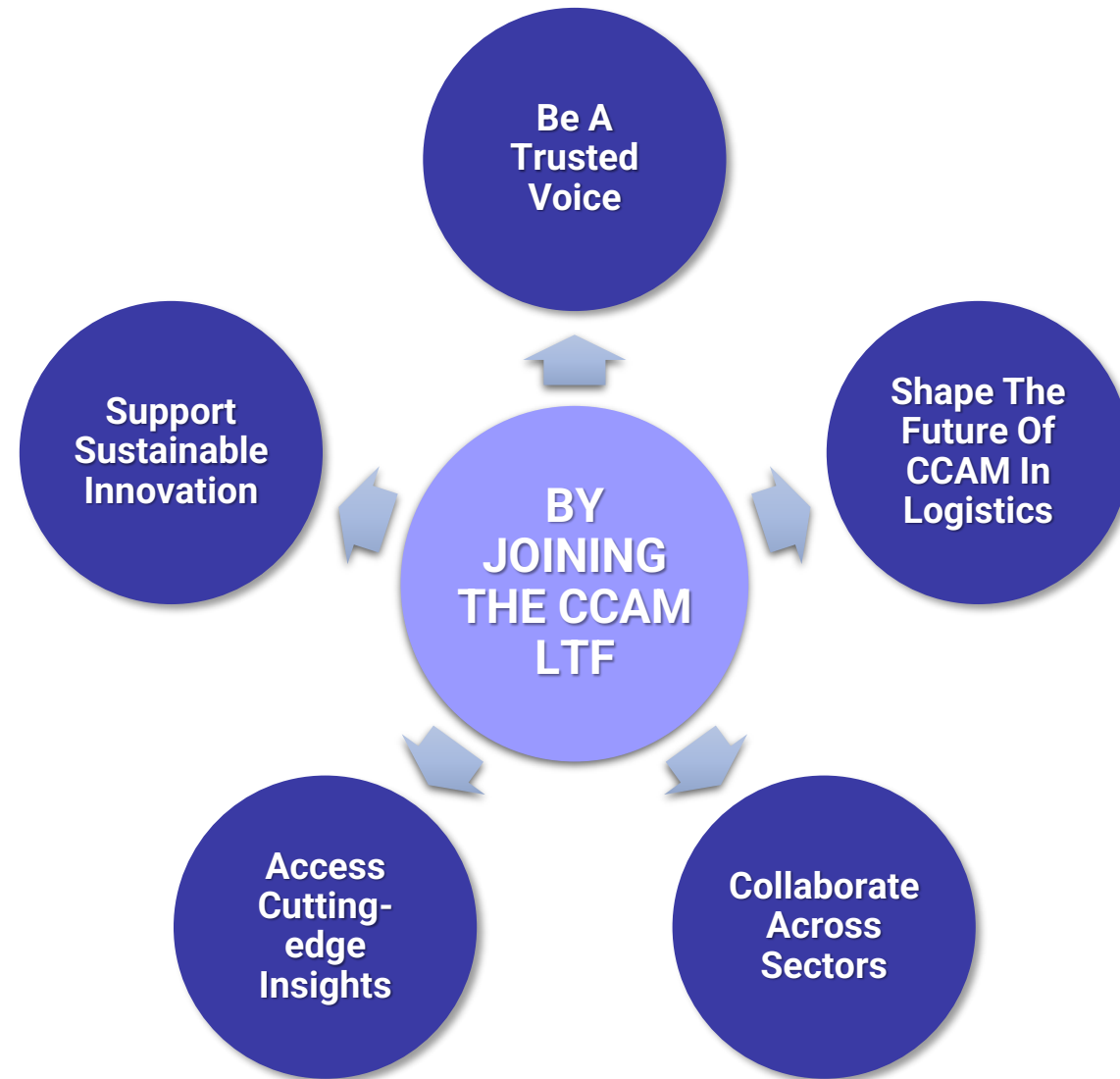
The CCAM Logistics Task Force aim is to bring together logistics stakeholders such as: shippers, forwarders, logistics operators, logistics hubs, technology centers, research organizations, etc., to discuss MODI's findings and provide valuable feedback.

The Task Force contributes to developing business models, identifying needs and requirements, and conducting gap analyses.

In return, participants will gain insights into the latest advancements in automated road logistics and MODI's solutions to challenges like permitting and technical barriers.

Looking into the future Large-Scale Demonstration Project in CCAM, **these insights will be an important aspect to consider and support the developments.** Link to the call description:

https://sciencebusiness.net/sites/default/files/inline-files/CL5%20WP%202026-2027_version%202025-08-08.pdf



Draft Planning of the CCAM LTF for 2025/2026



By participating in the interviews, you contributed to:

Societal Readiness & Gap Analysis

- Identifying how logistics can achieve greater societal impact through automation.
- Highlighting benefits of automated trucks (e.g., efficiency gains, safety improvements).
- Pointing out key challenges (e.g., regulatory hurdles, workforce adaptation).
- Defining what needs to be in place for automated trucks to have a relevant role in logistics.

Business Models

- Exploring trends and opportunities for adapting business models with autonomous trucks.
- Sharing views on how automation could reshape operations and logistics processes.
- Identifying changes needed in company operations and wider logistics networks.
- Contributing insights to support business model innovation in the context of automation.