



AWARD

Scaling autonomous logistics



AWARD has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement No 101006817
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A European vision

The final goal of AWARD is to enable an overall **autonomous logistic chain** through safe and efficient **connected and automated** heavy-duty vehicles in **real logistics operations**. The projects envisions:



Innovation

AWARD contributes to accelerate the deployment of innovative connected and automated freight transport solutions in Europe.



Safety

AWARD increases the overall safety and efficiency of freight operations of individual trucks or fleets through innovative connected and automated driving systems.



Competitiveness

AWARD supports the uptake of new business models to introduce the automation of logistics operations and reduce their costs. This will strengthen the European competitiveness in transport and logistics industries.



Replicability

The evaluation of the AWARD use cases and a deep analysis of the current regulatory framework will feed some policy recommendations to replicate the pilots in other logistics operations.



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All Weather Autonomous Real logistics operations and Demonstrations



Warehouse

Autonomous loading and unloading forklift operations



Hub-to-hub

Autonomous logistics shuttle service on public road



Airport

Autonomous ground support equipment



Port

Automated transfer operations and ship loading



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Our key results



Definition of end-user's specifications and requirements



Safe and scalable ADS validated for harsh weather conditions



Zero-Emission Driverless HDVs certified for extended ODDs



Interoperable fleet management and supervision system that optimizes logistics



Demonstrations of automated HDV performing 24/7 real logistics operations



Policy recommendations regarding the regulatory framework



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Consortium

29 partners
11 countries



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Sensors

Autonomous Driving System

Heavy-Duty Vehicles manufacturer

Fleet Management & Supervision

End-users Industrial sites



ADASXY

FORESIGHT



AMERICAN INSTITUTE OF TECHNOLOGY

VTT



LINZ CENTER OF MECHATRONICS



ottopia



APPLIED AUTONOMY



DFDS

ottopia



AMERICAN INSTITUTE OF TECHNOLOGY



DFDS



AVINOR

ROTAX



SCHENKER



Certification and proving grounds



Digitrans



VTT



Cerema

Impact assessment, business modelling and regulatory frameworks



ITS Norway



UNIVERSITY OF APPLIED SCIENCES LIPIER ALSTRIA



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Award survey on potential benefits and concerns regarding automated road transport logistics systems



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