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IRU 2023 EU R&I Portfolio

In line with the ADV priorities - Green deal -Fit-for-55, digitalisation

Automation & AI

2023

2025



Green Transition & Environment

Testing driverless heavy-duty vehicles in adverse weather conditions

Al deployment and integration in CCAM

Funded by H2020 and the new EU Framework Programme for Research and Innovation 2021-2017 - Horizon Europe



	Sep 2019 – May 2023	m@dales	Tackling vehicle emissions holistically
	Feb 2019- Jan 2024	H2HAUL	Testing hydrogen fuel cells in a real-world logistics environment
_	2023–2028	2 new projects to be announced	 Deployment of 150 hydrogen trucks and HRS along a network of 8 countries Long-haul BEVs and FCEVs serving the long-haul Freight Eco System in the EU and beyond

Ithena

EU Projects

Achievements in 2022

HORIZON EUROPE

T F R 2

The New EU Framework Programme for Research and Innovation

2021-2027



3 proposals On FCEV, BEV, AI, CCAM, C-ITS

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3/3 wins already Average applicants for a call – 15-20



Focus on environment

2 new projects in 2023

Automation & AI AITHENA will study and develop Al systems



Revenue goals 745.000€ for the next 3-6 years from new projects



Focusing on IRU's strengths

Activities such as User needs and requirements, stakeholder groups, testing and validation, legal requirements, business needs, communication

AITHENA



Project overview

Objective

- Analyse and map the integration of AI models and systems within Connected and Cooperative Automated Mobility (CCAM), focusing on data, AI models and testing.
- Mapping and analysis of AI developments, to understand the needs, expectations and concerns of different stakeholder groups on CCAM implementation and AI functionalities.

Main outputs

- Methodology for trustworthy human-centric AI-based systems and function development (D1.1)
- Analysis of certification authorities and validation of AI-based systems



Topics covered related to IRU's topics

- Automation and C-ITS analysis and legislative mapping
- Intelligence Transport Systems (ITS) and EU Data Governance



AWARD



Project overview



Objective

Demonstrate safe and efficient deployment of AVs in real-logistics operations in confined and mixed areas (port, hub-to-hub, airport, industrial sites)

Achievements

- Definition of user requirements for commercial road freight transport operators.
- Identification of new business models and market segments.
- Support the 4 use-cases (Norway, Austria, Netherlands, France) and get the necessary data for the calculation of the CBA, market analysis and benchmarking
- Workshops organised involving IRU members and other stakeholders

Next steps

- Workshop on regulatory frameworks for autonomous vehicles in logistics in May 2023 invitation will be sent
- Perform cost-benefit analysis, calculation of ROI, analysis of relevant regulation and benchmarking on automation related pilots in Europe and beyond
- 1-2 scientific papers to be published in 2023



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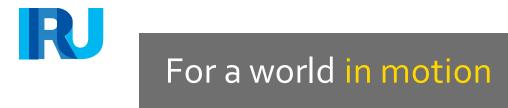


Thank you!

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More information of IRU's involvement in EU-projects: <u>here</u>.



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