EU Projects Overview - Research & Innovation

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IRU 2023 EU R&I Portfolio

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

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

Automation & AI

Jan 2021 – Dec 2023	AWARD Scaling autonomous logistics	Testing driverless heavy-duty vehicles in adverse weather conditions
Nov 2022 - Dec 2025	AIthena	AI deployment and integration in CCAM

Green Transition & Environment

Sep 2019 – May 2023	modales	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

EU Projects
Achievements in 2022

HORIZON EUROPE

The New EU
Framework Programme for
Research and Innovation

2021-2027

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

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 AI 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

Participate in our survey!

SCAN ME

Thank you!

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More information of IRU´s involvement in EU-projects: here.

For a world in motion

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