



Launch of the Integrated CCAM Technologies Cluster

The rapidly evolving landscape of Connected, Cooperative, and Automated Mobility (CCAM) is driving the need for deeper collaboration among European projects working towards the future of safe, intelligent, and sustainable transport systems. In response to this growing need, we are pleased to announce the launch of the Integrated CCAM Technologies Cluster, a strategic alliance bringing together six cutting-edge EU-funded projects dedicated to advancing CCAM technologies.

The “Integrated CCAM Technologies Cluster” aims to foster synergies, knowledge exchange, and cross-project collaboration to accelerate innovation, enhance interoperability, and maximize the impact of research efforts in automated and connected mobility. By combining expertise across artificial intelligence, digital twins, advanced sensing, cybersecurity, and infrastructure-enabled automation, the Cluster will drive a harmonized and integrated approach to the development and deployment of CCAM solutions.

Participating Projects

The “**Integrated CCAM Technologies Cluster**” is composed of six pioneering projects, each contributing unique expertise to the development of next-generation CCAM solutions:

AITHENA

AITHENA is leading the way in defining a harmonized methodology for AI-based CCAM solutions across perception, situational awareness, decision-making, and traffic management. By focusing on trustworthy AI pillars such as accuracy, explainability, accountability, privacy, and ethics, AITHENA ensures that AI-driven mobility solutions can be reliable and widely accepted by users, developers, and certification bodies.

CONDUCTOR

The CONDUCTOR project is revolutionizing traffic and fleet management to ensure seamless multimodal transport of passengers and goods. By integrating dynamic balancing and priority-based management for both automated and conventional vehicles, CONDUCTOR enhances transport efficiency and interoperability, empowering transport operators to become true “conductors” of future mobility networks.

EVENTS

EVENTS is tackling the challenges of CAVs operating in dynamic environments by developing resilient perception and decision-making systems. These systems can handle unexpected “events” such as adverse weather, sensor failures, unstructured road conditions, and imperfect data, ensuring that CAVs can operate safely and efficiently under diverse real-world conditions.

FRODDO

FRODDO is at the forefront of safe and adaptable CCAM solutions through AI, machine learning, digital twins, and advanced sensing. The project’s federated cyber-physical infrastructure enables robust Operational Design Domain (ODD) continuity, improving traffic management and integration with physical and digital road infrastructure.

iEXODDUS

iEXODDUS is driving innovation in digital technologies and navigation services to enhance safety, security, and sustainability in automated transport. By assessing existing ODD limitations, the project will create a framework to evaluate and categorize ODDs across various driving scenarios, ensuring a systematic approach to safer automation.

PoDIUM

PoDIUM is driving the transition to safer, smarter, and more efficient mobility by advancing connected, cooperative, and automated transport. By bringing together physical and digital infrastructure, the project is enabling higher levels of automation and with a focus on multi-connectivity and intelligent data management, PoDIUM is shaping the future of seamless vehicle-infrastructure communication.

A Common Vision for CCAM Integration

The “Integrated CCAM Technologies Cluster” is committed to enhancing cooperation between research initiatives, policymakers, industry leaders, and stakeholders. Through joint activities, shared expertise, and coordinated dissemination, the Cluster aims to:

- Drive interoperability between different CCAM solutions, ensuring seamless integration into future mobility systems.
- Strengthen CCAM safety and resilience, enabling autonomous vehicles to operate reliably in complex real-world conditions.
- Accelerate technology adoption by bridging the gap between research, industry, and policy frameworks.
- Create standardized methodologies for AI-based decision-making, infrastructure enhancements, and digital twin integration.

Looking Ahead

The “Integrated CCAM Technologies Cluster” will serve as a hub for collaboration, knowledge exchange, and impact maximization within the European mobility ecosystem. Stay connected with us as we embark on this journey to shape the future of connected and automated mobility.

For more information, follow our projects and stay tuned for upcoming workshops, events, and joint publications.

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