FRODDO
Safe, Resilient Transport and Smart Mobility Services

PRESS RELEASE

FRODDO Joins EU Cluster to Enhance Road Safety and Automated Mobility

The **FRODDO** project is thrilled to announce its official participation in the EU cluster on Road Safety in Complex Urban Environments. This strategic collaboration unites six pioneering EU-funded projects—FRODDO, **AI4CCAM, HEIDI, EVENTS, PHOEBE, and SOTERIA**—to drive innovation in road safety, automated mobility, and the interaction between Connected and Automated Vehicles (CAVs) and Vulnerable Road Users (VRUs).

With the increasing complexity of urban transport systems, this cluster seeks to establish a safe, inclusive, and resilient mobility ecosystem by leveraging state-of-the-art technologies such as artificial intelligence (AI), predictive analytics, advanced simulations, and human-machine interfaces (HMIs). The collaboration marks a major step toward redefining European transport research and setting new standards for road safety and automated driving.

About the Projects in the Cluster

The FRODDO project aims to enhance road safety and trust in automated mobility by developing an advanced federated digital twin (DT) environment that ensures real-time data exchange, risk detection, and fail-safe system design. By integrating machine learning (ML), hybrid AI, and simulation-based methodologies, FRODDO improves the adaptability of Operational Design Domains (ODDs), making automated mobility safer and more resilient to real-world challenges such as traffic congestion, weather conditions, and cybersecurity risks.

AI4CCAM – Ethical and Trustworthy AI for Automated Vehicles

AI4CCAM focuses on developing AI-driven models to predict the behavior of VRUs in urban settings. By integrating ethical decision-making frameworks and user-acceptance studies, the project ensures that automated mobility systems gain public trust and operate transparently. AI4CCAM's work contributes to enhancing safety and efficiency in mixed traffic environments.

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HEIDI – Human-Centric HMI for Safer Roads

HEIDI is revolutionizing the interaction between automated vehicles and vulnerable road users through adaptive Human-Machine Interfaces (HMIs). By designing internal and external interfaces that adjust in real time, HEIDI improves communication between CAVs, pedestrians, and cyclists, reducing road risks and enhancing safety in complex urban environments.

EVENTS – Enhancing Automated Mobility in Unstructured Conditions

The EVENTS project addresses the challenges of operating Connected and Automated Vehicles (CAVs) in unpredictable environments. By integrating robust perception and decision-making systems, EVENTS ensures that CAVs can safely navigate through adverse weather conditions, sensor failures, and unstructured road scenarios, significantly improving autonomous driving reliability.

PHOEBE – Predictive Road Safety for Smarter Urban Planning

PHOEBE provides urban planners with an evidence-based framework to assess and mitigate road safety risks. By combining human behavior modeling and transport system simulations, PHOEBE enables cities to implement proactive safety measures, helping to prevent accidents and optimize transport networks.

SOTERIA – Data-Driven Safety for Micro-Mobility Services

SOTERIA is dedicated to integrating electric micro-mobility services into urban transport networks while ensuring safety and accessibility. By employing data-driven safety intelligence and community co-creation, SOTERIA promotes inclusive urban mobility solutions that cater to all road users, including those with reduced mobility.

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A Shared Vision for Safer, Smarter Mobility

The cluster operates under a shared mission to promote safer roads and user-centric automation through:

- Ethical and Trustworthy AI – Ensuring transparency in AI-driven decision-making for automated mobility.
- Advanced Simulation and Testing – Utilizing hybrid simulation environments to evaluate new transport solutions.
- Scalable and Resilient Technologies – Developing adaptive systems that enhance mobility across different transport modes.
- Inclusive and Human-Centric Design – Prioritizing the needs of all road users, particularly vulnerable groups.

A Milestone for European Transport Innovation

The collaboration between these six pioneering projects represents a major milestone in European transport research. By combining expertise, research, and cutting-edge technologies, the cluster aims to accelerate the development of safer, smarter, and more inclusive mobility solutions across Europe.

As the cluster moves forward, FRODDO and its partners will actively contribute to policy discussions, stakeholder engagement, and the dissemination of best practices, ensuring a lasting impact on European road safety and mobility strategies.

Co-funded by the European Union

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