

PRESS RELEASE

FRODDO Project Launches to Pioneer Safe and Sustainable Connected, Cooperative, and Automated Mobility (CCAM) in Europe

The FRODDO project, a new European initiative funded by the European Commission, has officially launched on July 3-4, 2024, in Brussels, Belgium, to advance the future of Connected, Cooperative, and Automated Mobility (CCAM). Led by ERTICO and involving 18 partners, FRODDO will develop advanced solutions to enable safer, more adaptive automated mobility systems across Europe, addressing the core challenges of connectivity, security, and real-time response in dynamic road conditions.

FRODDO's vision is to establish a European CCAM ecosystem where vehicles, infrastructure, and users can communicate seamlessly, enhancing proactive safety and sustainability. Key to this vision is the creation of robust Operational Design Domains (ODDs) and a federated digital twin environment, enabling automated systems to navigate diverse and complex conditions effectively. This advanced digital twin will integrate data from vehicle sensors, road infrastructure, and weather patterns, allowing for real-time decision-making and improved user trust.

State-of-the-Art Innovations

FRODDO's pioneering technologies include:

- **Enhanced Positioning with GNSS and 5G:** Leveraging advanced GNSS and 5G, FRODDO will enhance Positioning-Navigation-Timing (PNT) capabilities for automated systems in environments where GNSS is limited.
- **Multi-Modal User Interfaces:** User-friendly interfaces will enhance safety by delivering critical alerts to drivers, enabling smooth human-vehicle interactions.
- **AI-Powered Decision-Making:** FRODDO's digital twin, powered by federated AI, will support decentralized traffic management and proactive decision-making.

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Real-World Testing Across Europe

FRODDO's solutions will be demonstrated in four pilot locations:

1. **Greece:** Testing of user interfaces for improved situational awareness in automated vehicles.
2. **Italy:** Evaluation of road safety in urban and peri-urban contexts.
3. **Slovenia:** Federated digital twin integration for improved traffic management.
4. **Turkey:** Autonomous freight movement using alternatives to GNSS-based navigation.

With a shared commitment to innovation, safety, and collaboration, FRODDO will contribute to Europe's CCAM vision, enhancing mobility resilience and setting standards for sustainable, automated transportation.



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