



5G-LOGINNOV Paving the Way for Sustainable Logistics and Port Operations

Koper, Slovenia – 7 November 2023 – 5G-LOGINNOV, a groundbreaking Horizon 2020 project focused on leveraging 5G technology to revolutionise logistics and port operations, has successfully completed its mission. Coordinated by ERTICO-ITS Europe, this three-year project, launched in 2020, culminated in a remarkable final event in Koper, Slovenia, attended by over 80 participants representing key logistics stakeholders such as public authorities, transport companies, service providers, ports, customs, shippers, terminal operators, users, and academia.

Over the course of 39 months, 5G-LOGINNOV brought together a consortium of 15 beneficiaries to implement three different Pilot Sites across the European Union. This collaborative effort has set the stage for future innovations in the logistics industry. At its core, 5G-LOGINNOV worked tirelessly to optimise freight and traffic operations at ports and logistics hubs through innovative concepts, applications, and devices powered by 5G technology, the Internet of Things (IoT), AI-enabled data analytics, next-generation traffic management systems, and Cooperative, Connected, and Automated Mobility (CCAM). This ambitious project not only aimed to enhance efficiency but also to align with the "Green" Port Industry vision, leading to a significant reduction in emissions associated with port operations.

5G-LOGINNOV's final event showcased the portfolio of 5G technologies and technology-enablers exploited by the three living labs, supporting daily port operations and services. This event marked a significant milestone in the project's journey, highlighting the practical applications of 5G in transforming the logistics and port industry.

One of the standout achievements was the successful implementation of a cutting-edge 5G-based Green Light Optimum Speed Advisory (GLOSA) system. This system, backed by precise positioning technology and Multi-access Edge Computing (MEC), seamlessly coordinated the movements of vehicle platoons, and integrated with traffic light infrastructure. The result was an impressive boost in efficiency in both port operations and logistics management. 5G-LOGINNOV also utilised 5G and AI-enabled video analytics services to streamline logistics operations and contributed to safety and security operations. These services were tailored for port control, logistics, and remote automation, significantly enhancing overall efficiency, and ensuring a higher level of safety within the project's scope.

To bring these transformative achievements to life, the project assessed the portfolio of 5G-LOGINNOV use cases across various network deployment scenarios. This encompassed a 5G-NSA private network in Athens Living Lab (LL), a public 5G-NSA network in Koper and Hamburg LLs, and a private 5G-SA network in Koper LL. This extensive evaluation allowed for a comprehensive understanding of the project's innovative solutions.

With the successful conclusion of the 5G-LOGINNOV project, it's evident that the future of logistics and port operations holds exciting prospects. The project's efforts have paved the way for a more sustainable and efficient industry, and its legacy is expected to bring lasting benefits for years to come.

"5G-LOGINNOV is the best example about how to design an innovative framework addressing integration and validation of CAD/CAM technologies related to the industry 4.0 and ports domains by creating new opportunities for LOGistics value chain INNOVation". said Dr. Eusebiu Catana (ERTICO – ITS Europe).

PRESS RELEASE



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“5G-LOGINNOV supported the port application’s case by implementing 5G technological blocks, including new generation of 5G terminals notably for future Connected and Automated Mobility, new types of Internet of Things 5G devices, data analytics, next generation traffic management and emerging 5G networks, for city ports to handle upcoming and future capacity, traffic, efficiency, and environmental challenges. This work also presented the potentialities of 6G candidate technologies in terms of innovative end-user applications and technologies.” continued Dr Catana.

5G-LOGINNOV has been one of ERTICO’s highly valuable project whose impact will be felt through meaningful results in the coming years.

“A coordinated development of port and hinterland infrastructure is crucial if we want to preserve our logistic role in the region. However, this will not be enough if we don’t push forward also on the field of digitalisation and automation. That’s why our strategy includes a clear path towards a smart port concept and the 5G-Loginnov project has been the groundwork for further technological development of port processes”, remarked Nevenka Kržan, president of the management board of Luka Koper.

Note to editors:

5G-LOGINNOV – 5G-LOGINNOV aims to enhance cargo and transportation activities at ports and logistical centers through the implementation of cutting-edge ideas, applications, and devices empowered by 5G technology. This initiative leverages Internet of Things (IoT), data analytics, advanced traffic management, Cooperative, Connected and Automated Mobility (CCAM), and the 5G logistics corridor to achieve its vision.

<https://5g-loginnov.eu/>



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About ERTICO

ERTICO – ITS Europe is a public-private partnership of 120 companies and organisations representing Service Providers, Suppliers, Traffic and Transport Industry, Research, Public Authorities, Users, Mobile Networks Operators, Vehicle Manufactures.

ERTICO embodies Thought Leadership and fosters Stakeholder Engagement; ERTICO innovates, promotes and deploys Intelligent Transport Systems and Services (ITS) through a variety of activities including European co-funded projects, Innovation Platforms, International Cooperation, Advocacy and Events. ERTICO is also the organiser of the ITS European Congresses, which take place every year in a different European city.

Our focus is on Connected & Automated Driving, Urban Mobility, Clean Mobility, and Transport & Logistics.

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