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SELIS R&D Project Accelerates Innovation in European Logistics

SELIS open source platform set to boost SME adoption of collaborative logistics

SELIS (the Shared European Logistics Intelligent Information Space), a €17 million flagship European Commission-funded research project, has announced its open source cloud-based platform with built-in industry knowledge is now available to the transport and logistics community for further development and commercialisation. Availability of the open source code coincides with the publication of the SELIS white paper, outlining future innovation roadmap and summarising key outcomes of the eight 'Living Labs' (real-life testing environments) spread across Europe that have showcased very positive environmental impact and measurable economic benefits.

The main innovation arising from the SELIS project is a directory of Logistics Collaboration Models (LCMs) and a directory of open source software components that will enable logistics companies to further develop and commercialise their own collaborative intelligence sharing platforms. Features such as Big Data Analytics 'recipes' and predictive algorithms can be quickly tailored to the needs of specific supply chains to boost synchronomodality, visibility, logistics optimisation and environmental performance.

Dr. Takis Katsoulakos, MD at Inlecom Systems, the SELIS project coordinating partner, comments: *"By publishing the SELIS open source components, complex technologies such as Big Data Analytics are now for the first time freely accessible to the Transport & Logistics community. This is an important step towards accelerating and broadening innovation, particularly in the SME segment."*



Utilising the open source cloud-based platform, eight SELIS Living Labs have already unlocked new efficiencies and improved performance in a number of European logistics communities.

Key highlights include:

- **Brussels urban distribution Living Lab** has generated more efficient delivery rounds with an increased load factor by 10%, leading to a decrease in the number of vehicles required by 16% and a reduction in CO₂ emissions by 12%.
- **Port of Rotterdam Living Lab** has achieved better integration of deep-sea and inland waterways. Within the West-Brabant Corridor, the modal shift from road to barge has exceeded 10%, the utilisation of barges has increased by 5 - 10%, leading to an overall estimated reduction in CO₂ emissions of between 5 and 10%.
- **Living Lab at intermodal operator Adria Kombi** has achieved heightened visibility and response capability, improving the utilisation of wagon sets by 15%. The subsequent modal shift from road to rail has reduced CO₂ emissions per container by an estimated 10 to 20%.

Three years of SELIS research and development have helped shape the future innovation roadmap for the industry. Dr. Takis Katsoulakos, MD at Inlecom Systems, comments: *“We are moving towards the next level of automation in synchronomodality, in the direction of Physical Internet. We will also see the introduction of smart contracts in supply chain management, multi-tier supply chain visibility and cross-platform interfaces to address sustainability and climate change.”*



This project has received funding from the European Union’s Horizon 2020 research and innovation programme under the Grant Agreement No 690588.

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Notes to Editors

The SELIS white paper, outlining the concept, outcomes and implications of the research project, is available for download here: <http://www.selisproject.eu/>

The SELIS open source components can be accessed here: <https://github.com/selisproject>

About SELIS

SELIS is aimed at delivering a 'platform for pan-European logistics applications' by:

- Embracing a wide spectrum of logistics perspectives and creating a unifying operational and [strategic business innovation agenda](#) for pan European Green Logistics.

- Establishing an exceptionally strong [consortium](#) of logistics stakeholders and ICT providers, that can leverage EU IP from over 40 projects so as to create proof of concept Common Communication and navigation platforms for pan-European logistics applications deployed in 8 Living Labs representing the principal logistics communities.

- Establishing a research and innovation environment using the [Living Labs](#) to feed data that can be used for discovery of new insights that will enable continuous value creation and support the large scale adoption of SELIS.

SELIS partners include:

Adria Kombi, Avanti PLC Ltd, British Maritime Technology, CLECAT, CLMS (UK) LTD, CONEX, DFDS, DHL Exel Supply Chain, Dresden University, eBOS Technologies Ltd, EGERLINK, ELGEKA SA, ELUPEG, Erasmus University Rotterdam, Sarantitis SA (SARMED), IBM, Institute of Communication and Computer Systems, Inlecom Systems Ltd, Institute of Shipping Economics and Logistics, A.P. Moller - Maersk A/S, MGI International, SINTEF OCEAN, Mapotempo, Marine Traffic, Norddeutsche Wasserweg Logistik GmbH, Pharma Belgium, Security Projects, Port of Rotterdam, Sonae Center Serviços II S.A., SUMY, Trimodal Logistik GmbH, Universite Libre de Bruxelles Qalinca labs, VLTN GCV, WAYZ, Zaragoza Logistics Center, ISC, Zanardo Servizi Logistica, and Farm.Coop.



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