

LOW-EMISSION ADAPTIVE LAST MILE LOGISTICS SUPPORTING ON DEMAND ECONOMY THROUGH DIGITAL TWINS

LEAD PROJECT

LEAD has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 861598



36

Months

25

Partners

10

Countries

Start date: June 2020

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WHAT IS LEAD?

LEAD will create Digital Twins of urban logistics networks in six TEN-T urban nodes to support experimentation and decision making with on demand logistics operations in a public-private urban setting. City logistics solutions will be represented by a set of value case scenarios that address the requirements of the on-demand economy and the pressures caused by the increase of parcel deliveries while aligning competing interests and creating value for all different stakeholders. Each value case will combine several measures coined as LEAD Strategies to cover the complete dynamics and complexity of cities' logistics challenges.

VISION

LEAD aims to design a framework for smart city logistics, thus setting the foundations for the development of large-scale city Digital Twins. By exploiting contextual, sensor and real-time operational data, city-scale Digital Twins will facilitate the comprehension of the dynamics of logistics networks in the city and the integrated planning and management of freight movement.



LEAD LIVING LABS

LEAD Living Labs are stakeholder-centred ecosystems, operating in an urban node context, to systematically test and evaluate innovative ideas and technological solutions in real-life use cases. LEAD strategies will be implemented in six TEN-T urban nodes.



Madrid



Budapest



Porto



Lyon



Oslo



The Hague

LEAD STRATEGIES FOR SHARED, CONNECTED, AND LOW EMISSION LOGISTICS OPERATIONS



Innovative business models



Agile freight storage and distribution



Low emissions delivery vehicles



Smart data-driven logistics solutions

THE LEAD TRANSFERABILITY PLATFORM

The LEAD Transferability Platform will bring together external local authorities to benefit from a tailored transferability programme building upon LEAD's results. This includes capacity-building, training, technical visits, interactive workshops, and customised feedback.

LEAD INNOVATIONS

Digital twins in
last mile logistics

Helping cities
embrace technology
advancements and
data-value

Co-creation for on-
demand economy

Speeding up
transition towards
the physical internet
paradigm



MEET THE PARTNERS

