



#HorizonEU

HORIZON EUROPE PROJECT SYNOPSIS



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SEP 2022 - AUG 2026

DECARBOMILE

HORIZON-CL5-2021Five pillars to DECARBOnize
the last MILE logistics

Objective

DECARBOMILE aims to trigger an unprecedented improvement of the green last mile logistics in Europe. To reach that goal, DECARBOMILE relies on a strong experience of decarbonating urban logistics through European initiatives such as CIVITAS. Partners will build upon all previous results to develop improved delivery methods, tools and methodologies, and implement them across Europe. The solutions developed in DECARBOMILE will demonstrate the full potential of decarbonised last mile logistics in four living labs (in Logrono - Spain, Nantes - France, Hamburg - Germany and Istanbul - Turkey) and 4 satellites (Tallinn - Estonia, Getafe - Spain, Ghent - Belgium and Sarajevo - Bosnia and Herzegovina) will be involved at a smaller scale to test and study the solution in their own local contexts. To be successful in its implementation, DECARBOMILE will rely on developed methodologies to implement the new solutions and delivery methods in collaboration with all relevant local stakeholders, based on their

needs and behaviours. The relation with and between stakeholders will be facilitated by the creation of a collaborative urban consolidation logistics framework that will include a digital platform, methodologies for collaboration, and ICT and IoT tools.

This common framework, along with tailored innovative business models and recommendations on local policies, will allow for a strong collaboration during the project, allow to learn more about the end-users' needs and behaviours. The delivery methods will be strongly improved with urban consolidation centres, micro urban consolidation centres including smart lockers, innovations on cargo bikes and how they can be used with load pooling for instance, electric barge and more. The goal is to use and improve existing solutions and allow their interoperability and modularity to improve their efficiency and use their complementarity.

Social impact

In the context of the DECARBOMILE project, increased participation of local stakeholders and increased quality of life in urban areas are the main societal impacts expected.

Other societal impacts are an increased road safety and a decrease of congestion and noise.

Contribution of TUHH to the project

As a scientific partner, the researchers from the Institute of Transport Planning and Logistics of TUHH will analyse the characteristics of the four living labs and the four satellite cities and will define with the partners the baseline scenarios and use cases. In order to develop suitable solutions for all living labs and satellite cities, TUHH will run interviews, conduct workshops and perform ecological and economical calculations. TUHH takes care of a harmonised testing, operation and monitoring of full potential last mile

solutions in the demonstration phase. To evaluate the results of the new last mile solutions, TUHH is leading the environmental, economic and social assessment of all labs. Besides the quantitative analysis of the four living labs' demonstration phase, TUHH will develop a methodological approach for the involvement of stakeholders.

Partner



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