

GREEN-LOG Validates the Impact and Scalability of Sustainable Last-Mile Logistics

June 2026 - The Horizon Europe GREEN-LOG project has successfully completed its final **impact assessment and transferability analysis**, confirming that **cooperative, digitally orchestrated, and zero-emission logistics solutions can significantly improve urban freight systems while reducing environmental impact**.

GREEN-LOG has demonstrated innovative last-mile delivery solutions across **five Living Labs**—Athens, Barcelona, Ispra, Flanders, and Oxfordshire—covering a wide range of urban and peri-urban contexts.

Strong evidence of environmental and operational benefits

The final assessment confirms that GREEN-LOG solutions deliver **measurable environmental, operational and societal improvements**:

- **Reduction in CO₂ and NOx emissions** through the use of zero-emission delivery modes
- **Significant reductions in congestion and vehicle kilometres**, enabled by collaborative routing and consolidation
- **Improved delivery efficiency**, with reduced delivery times and optimized routes
- **High service reliability**, maintaining secure and damage-free deliveries

For example, in Athens, the collaborative delivery model reduced daily urban distance from **16.29 km to 12.6 km** and delivery tour duration from **48.34 minutes to 40.7 minutes**, while achieving **zero-emission operations** during the pilot. The demonstration also validated the operational feasibility of collaborative last-mile logistics supported by digital orchestration tools.

Real-World Innovations Delivering Measurable Results

Each Living Lab demonstrated cutting-edge logistics innovations:

- **Athens:** Collaborative deliveries between competing logistics providers using a **Micro-Consolidation Centre and shared electric vehicles**
- **Barcelona:** **Multimodal delivery chains** combining rail transport and cargo bikes, extending zero-emission logistics reach
- **Ispra:** Autonomous **delivery droids** and cargo bikes achieving **100% delivery success rates** in a campus environment

- **Flanders: Logistics-as-a-Service (LaaS) platforms** reducing delivery tours by up to **55%** and lowering costs
- **Oxfordshire: Mobile Delivery Hubs and consolidation systems** delivering up to **59% time savings** and strong economic returns

High public acceptance and societal impact

Beyond environmental and operational benefits, GREEN-LOG solutions were strongly accepted by users, businesses, and stakeholders, demonstrating high levels of satisfaction, strong willingness to continue use, and broad endorsement of sustainable delivery approaches. The project significantly increased awareness of greener logistics options and contributed to improved perceptions of urban quality of life, highlighting the societal value of these solutions. Central to this success was the Living Lab approach, which fostered close collaboration and co-creation with stakeholders and citizens, building trust, ensuring practical usability, and supporting real-world adoption of sustainable urban logistics innovations.

Transferability: Ready for replication across Europe

A key outcome of the project is the confirmation that many GREEN-LOG solutions are ready for replication in other cities. Collaborative logistics models, Logistics-as-a-Service (LaaS) platforms, food surplus redistribution systems, and cargo-bike-based deliveries demonstrated strong transferability potential, with follower cities such as Arad and Helsingborg already identifying pathways for adoption. However, successful replication goes beyond transferring technical solutions alone and requires supportive governance structures, effective stakeholder collaboration, interoperable digital systems for data sharing, adequate urban logistics infrastructure, and enabling regulatory frameworks.

Pathways for implementation and scaling

Findings from the Living Lab demonstrations highlight that:

- ☒ **Integrated digital and physical solutions are essential** for sustainable logistics
- ☒ **Collaboration between operators—even competitors—is feasible** with neutral data-sharing infrastructures
- ☒ **Local adaptation is critical**—solutions must match city-specific needs and constraints
- ☒ **Policy support and long-term business models** are key to scaling

While the project demonstrated strong potential for wider deployment, several challenges remain, including regulatory barriers, land-use constraints, and the need for stronger economic incentives.

For more information, explore our public deliverables on the [GREEN-LOG Community](#) in Zenodo.

About GREEN-LOG

GREEN-LOG is a Horizon Europe project co-funded by the European Union, aiming to accelerate sustainable city logistics through the implementation of real-life solutions in multiple and heterogeneous last-mile delivery ecosystems. The project is centered around innovative co-creation in Living Labs across five European cities and areas: Athens (Greece), Barcelona (Spain), Flanders (Belgium), Oxfordshire (UK), and Ispra (Italy).

PROJECT KEY FACTS	
Full Name:	Cooperative and Interconnected Green delivery solutions towards an era of optimized zero emission last-mile Logistics
Project No:	101069892
Type of action/Topic	HORIZON Innovation Actions (IA) / HORIZON-CL5-2021-D6-01-08
Project duration (start date-end date):	01/01/2023 – 30/06/2026 (42 months)
EU contribution	Approx. EUR 6.3 million
Website:	www.greenlog-project.eu
Coordinator:	Netcompany S.A.

GREEN-LOG is a project under the **CIVITAS Initiative**, an EU-funded programme working to make sustainable and smart mobility a reality for all. Read more - civitas.eu.

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