



Zero-Emission Delivery to PUDO Network

Lyon Living Lab



Funded by the
European Union

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Urban logistics
PUDO* replenishment
Zero-emission delivery

*Pick-Up Drop-off

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WHAT IS ZERO-EMISSION DELIVERY TO THE PUDO NETWORK?

Pick-Up and Drop-Off points must regularly receive parcels from logistics hubs. These feeder deliveries are normally completed using conventional vans, even when the distance between the hub and the PUDO points is relatively short.

The Lyon pilot replaces selected van-based feeder trips with electric cargo bikes. Parcels are consolidated at a central hub, sorted by destination and delivered to selected PUDO points using zero-emission vehicles.

The solution combines carrier consolidation, hub operations, route planning and cargo-bike micro-distribution.



The solution introduces electric cargo bikes as feeder vehicles between a consolidated urban hub and a network of PUDO* points.

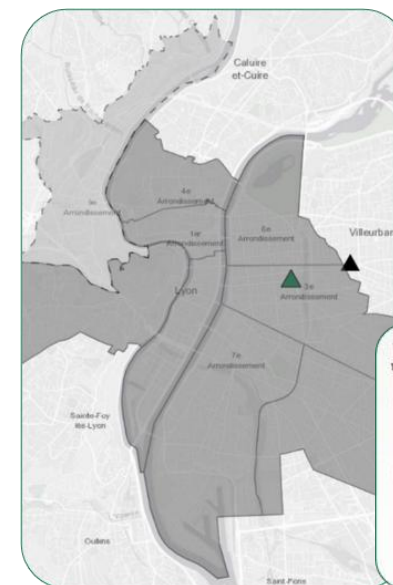
OBJECTIVES

- Demonstrate feasibility of e-cargo feeder deliveries to PUDO
- Quantify emission and distance reductions vs. van routes
- Evaluate routing efficiency, capacity and delivery throughput
- Assess integration with PUDO operations and scalability factors

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Main Beneficiaries:

PUDO operators, parcel carriers, logistics hubs, retailers, e-commerce platforms, cities and residents near delivery routes.



Technology readiness level :
Implementation stage :
Pilot

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THE PILOT IN LYON, FRANCE

Pilot period: September 2026 – February 2027

The pilot tests electric cargo bikes for deliveries from a consolidated hub to selected Pick & Smile PUDO points.

Cargo-bike operations are compared with conventional van-based feeder routes. The assessment considers distance, capacity, delivery time, emissions, cost and operational integration.

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