

From concept to city streets: tested solutions that work

DECARBOMILE deploys a suite of complementary innovations across European cities, designed for interoperability and real-world scalability.

Our impact

ROUTING EFFICIENCY

-20%

potential fleet usage
(load optimisation & dynamic routing, DSS)

FORECASTING ACCURACY

>91%

accuracy of our forecasting
& optimisation tool

CO-CREATION

28

workshops with local
stakeholders organised

CARGO BIKES

7

use cases tested for
cargo bike delivery

Want to learn more?

Find out about our results
on the DEARBOMILE website



<https://decarbomile.eu>

And stay tuned!



DEARBOMILE



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DEARBOMILE

Decarbonise last mile logistics

Solutions towards a **Green** Transformation



This project has received funding from the European Union's Horizon Europe Research and Innovation programme under Grant Agreement No. 101069806.

Software solutions

■ Tracking & Monitoring

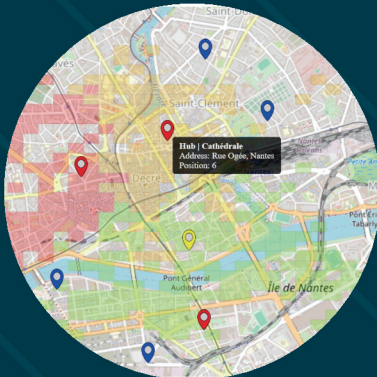
IoT trackers and sensors from NGS installed on last-mile vehicles via a smart box. A visualisation platform by GGI delivers real-time position, shipment events, and sensor data to fleet operators.

■ Route Optimisation

GGI algorithms optimise vehicle loading and routing in real time, adapting to unforeseen events. SCU's load-pooling tool adds extra deliveries when space remains in the vehicle.

■ Urban Logistic Hubs Network Design

IMTA & GGI web-based tool identifies the most strategic micro-hub locations using two-echelon vehicle routing, simulating weeks of historical data across fleet mix and CO2 scenarios.

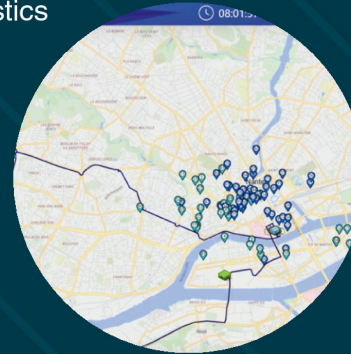


■ AI Forecasting

Transmetrics AI-powered tool forecasts last-mile delivery volumes 2–4 weeks ahead using historical and real-time data, customised for cycle-logistics.

■ Digital Twins

ITA builds urban digital-twin models for all four Living Labs, enabling stakeholders to simulate different urban logistics test scenarios.



■ Shared Data Platform

Capillar IT creates a FIWARE / GAIA-X orchestration layer ensuring seamless, EU-compliant interoperability between all services.

■ Sailing Prediction Tool

Transmetrics predicts whether a cargo vessel can sail from point A to B in Hamburg, combining real-time water conditions and weather data into a colour-coded dashboard for operational planning.

Hardware solutions

■ TricyLift Cargo Bike

FlexiModal provides the TricyLift cargo bike with the PalTainer (for pallet transport) and a mobile base that doubles as a trailer or public-space container.



■ Smart Micro-Hubs

Intelligent Parking adapts bike-parking infrastructure for logistics use, with smart lockers and the PVerde digital platform managing hub access, drop-off and pick-up.

