Digital Twin for Urban Logistics

Scenario Simulation, Impact Evaluation, Decision Support.

Developed by :

Project by :

DIGITAL TWIN FOR URBAN LOGISTICS

What is the Digital Twin for Urban Logistics?

It is a decision-making tool that enables cities and logistics sectors to design large-scale strategies such as SULPs. Backed by a local consultation process, it provides a trustworthy environment in which data is anonymized using an integrated protocol before being consolidated. It reconstructs activities and patterns across the territory by creating synthetic data, enabling large-scale logistics phenomena to be assessed. Finally, the digital twin can be used to model prospective scenarios and analyze their socioeconomic and environmental impacts.
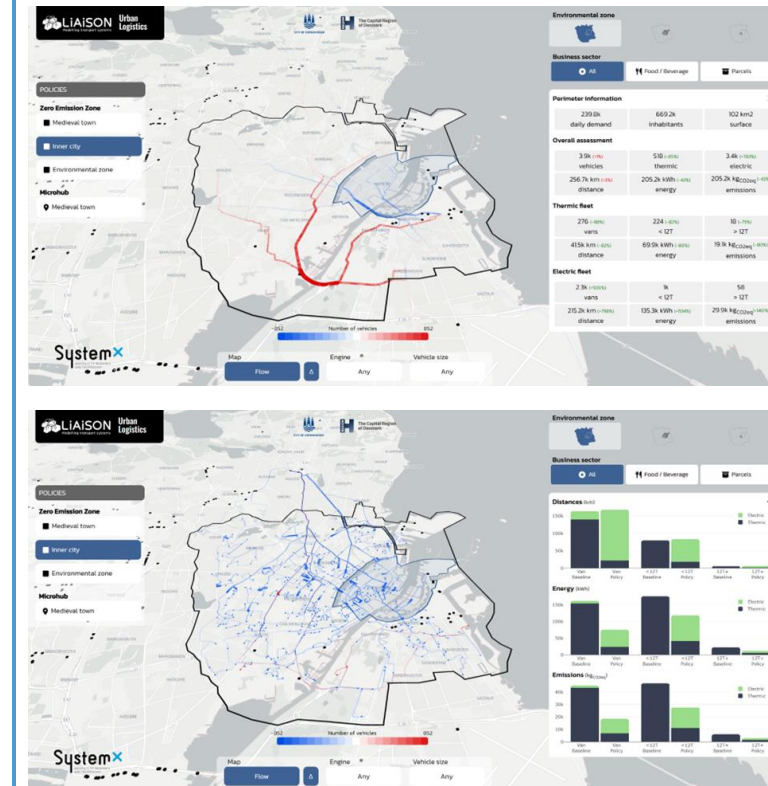
Value Drivers:

- **Anonymization protocol** to foster cooperation and trustworthiness

- **Synthetic data generation** to assess large-scale patterns

- **Prospective scenario modelling** to anticipate socioeconomic benefits before real-world investments.

Main beneficiaries:

Local authorities, logistics operators, economic stakeholders, citizens.

Technology Readiness Level : *8*
Implementation stage : *Market-ready*

DIGITAL TWIN FOR URBAN LOGISTICS

DISC

The Pilot testing in Copenhagen

In the Copenhagen Living Lab, the Digital Twin Platform was used to model different decarbonation strategies based on traffic regulation and logistics hubs.

By simulating different operational, spatial, and energy configurations, the tool helped the city assess potential CO_2 reductions, cost implications, and service-level impacts before any real-world changes were made.

Take a photo of this slide and get in touch to learn more about the Digital Twin Platform.

See what DISCO is about

Let's connect!

Would you like to know more? Take contact :

Yann BRIAND
Mobility & Logistics Leader

Institut de Recherche Technologique SystemX
66 bd Niels Bohr
69100 Villeurbanne
France

yann.briand@irt-systemx.fr

+33 7 72 13 99 32

www.irt-systemx.fr/