

Digital Platform for City Logistics

POLIS CONFERENCE 2/12/2021

Laura Tavernier



OUR EXPERTISE



**(FINANCIAL)
MODELLING**



STRATEGIC ADVICE



**MULTI
STAKEHOLDER
PROCESSES**



WITH A FOCUS ON

PORTS



INLAND NAVIGATION



CITY LOGISTICS



SUSTAINABLE CITY DEVELOPMENT



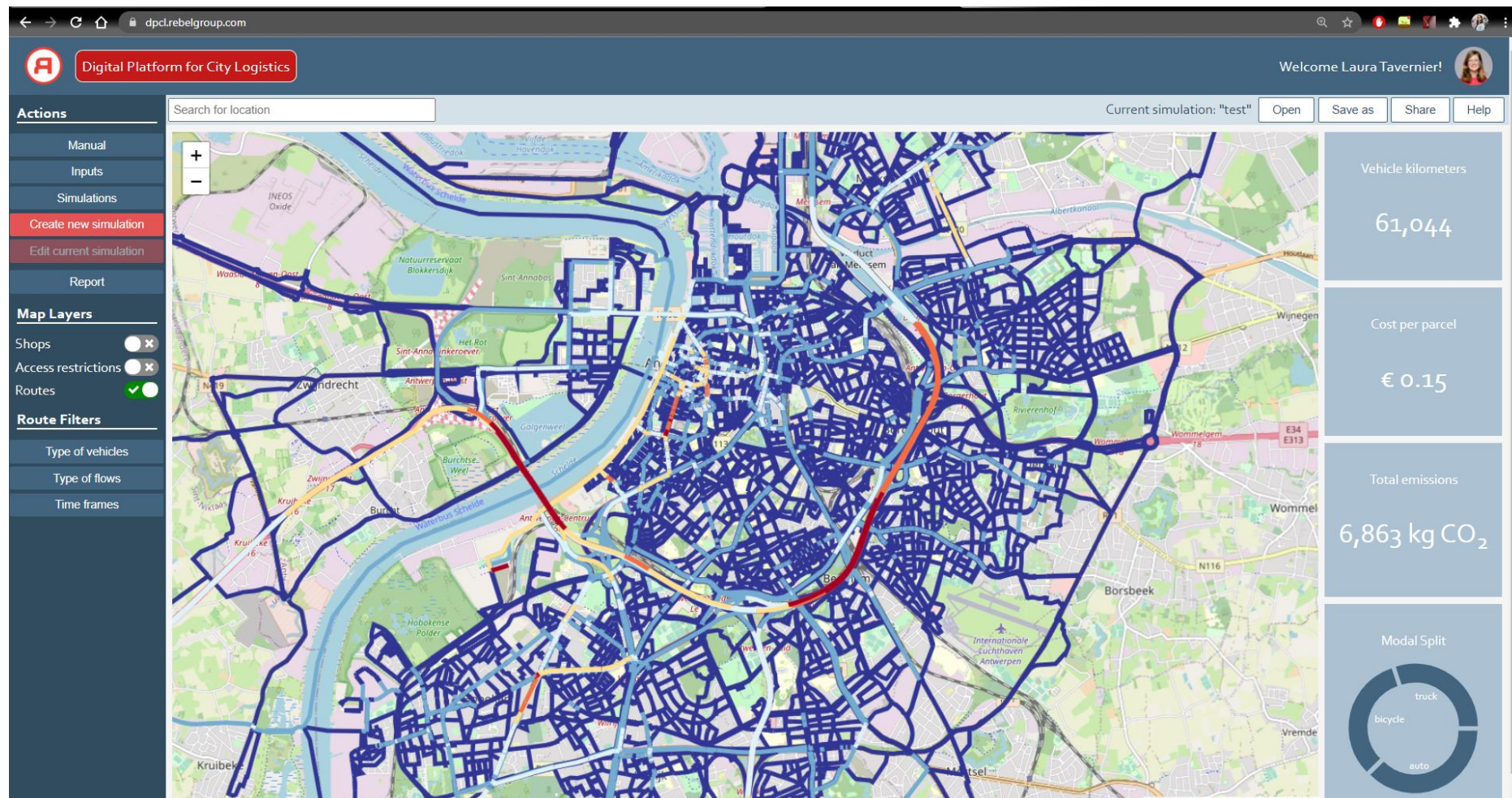
OUR AMBITION

To create a neutral, digital platform as
policy instrument for local authorities
and
optimization tool for logistics carriers*

*phase 2



To gain insights into the current freight flows



OUR AMBITION

To gain insights into the impact of policy measures on future freight flows

The screenshot displays the 'Digital Platform for City Logistics' web application. The interface includes a sidebar with navigation options: Actions (Manual, Inputs, Input data, Access restrictions, Building sites, Consolidation, Simulations, Create new simulation, Edit current simulation, Report), Map Layers, and Route Filters (Type of vehicles, Type of flows, Time frames). The main area shows a map of Antwerp with a blue polygon representing an access restriction zone in the city center. A modal window is open for configuring this restriction.

Name of the access restriction
Trucks- City Center

Draw a zone:

Time window

<input checked="" type="checkbox"/> Every day	00:00 - 23:59	<input type="checkbox"/>	<input type="checkbox"/> Monday	--:-- --:--	<input type="checkbox"/>
<input type="checkbox"/> Tuesday	--:-- --:--	<input type="checkbox"/>	<input type="checkbox"/> Wednesday	--:-- --:--	<input type="checkbox"/>
<input type="checkbox"/> Thursday	--:-- --:--	<input type="checkbox"/>	<input type="checkbox"/> Friday	--:-- --:--	<input type="checkbox"/>
<input type="checkbox"/> Saturday	--:-- --:--	<input type="checkbox"/>	<input type="checkbox"/> Sunday	--:-- --:--	<input type="checkbox"/>

Vehicles allowed

☐ Trucks ☒ Vans ☒ Bicycles

The right sidebar shows simulation metrics: Vehicle kilometers, Cost per parcel, Total emissions, and Modal Split. The top right corner displays the user's name 'Welcome Laura Tavernier!' and buttons for 'Open', 'Save as', 'Share', and 'Help'.

OUR APPROACH

▪ Phasing

- A tool that **grows** with available (real-time) information
- **Available data** combined with our **expert knowledge**

▪ User-centred

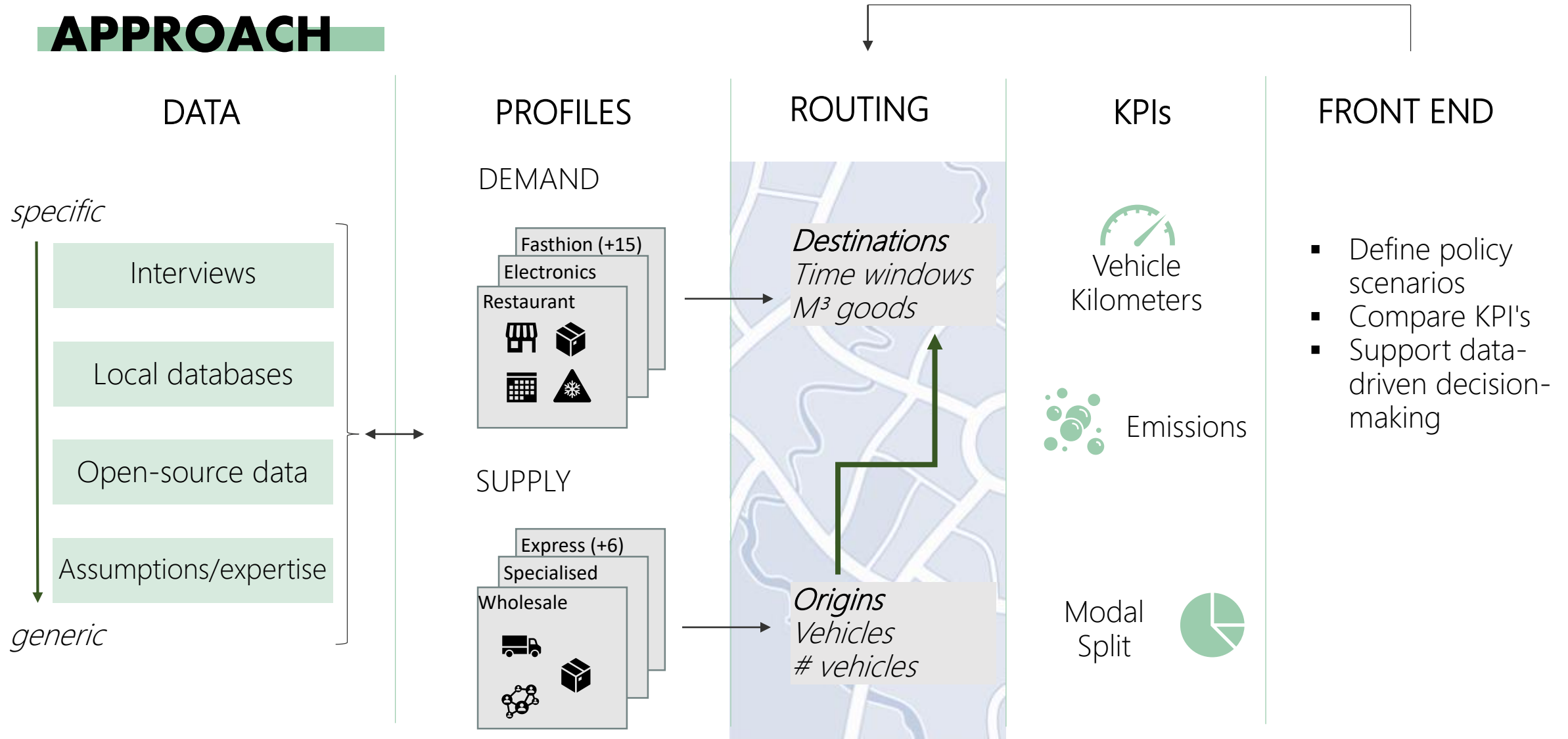
- Going beyond visualisation: **scenariobuilding**
- **Simulations** instead of real flows

▪ Scalability

- Use of internationally available **open-source** data



OUR APPROACH



OUR WISHLIST

- **Collecting more / better data**
 - Interaction with logistics sector / retail
 - Validate of outcomes (internationally)
 - Optimize **simulation time**
 - Prototyping **phase 2** (logistics sector)
 - **Test and develop** our **tool** together with cities
- ⇒ *If you have a project / use case, contact us!*

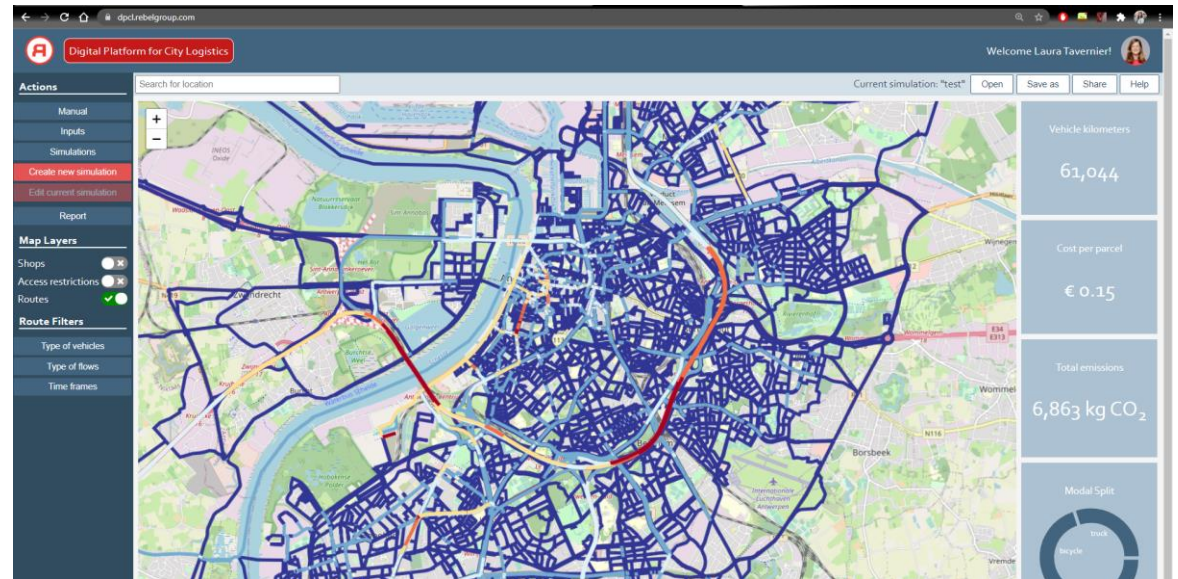




<https://www.rebelgroup.com/en/dpcl>



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