Dynamic Access Control (DAC)

A way to promote sustainable last-mile delivery in the city



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Horizon 2020 project:

1

Public Funding Distribution

Transformative impact of blockchain technologies in public services



Management of Public Accounts



Urban Logistics



Data Valorization



Horizon 2020 European Union funding for Research & Innovation



Urban logistics challenges



Goals

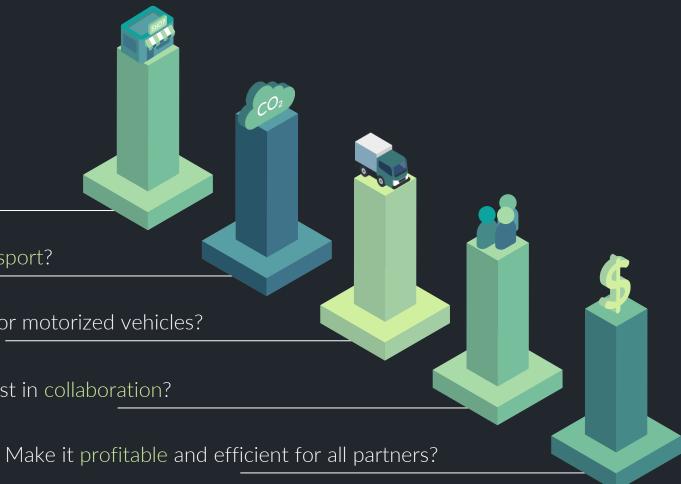
How to...

Promote local goods?

Enable zero-emissive transport?

Optimize city access for motorized vehicles?

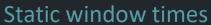
Create trust in collaboration?







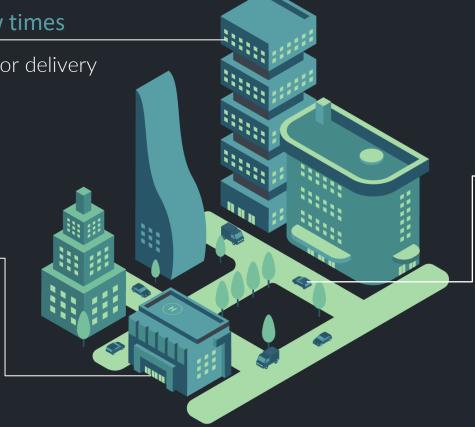
City access for motorized vehicles



Limited hours for delivery

(no) parking policy

Limited parking or (un)loading spots



Traffic plan

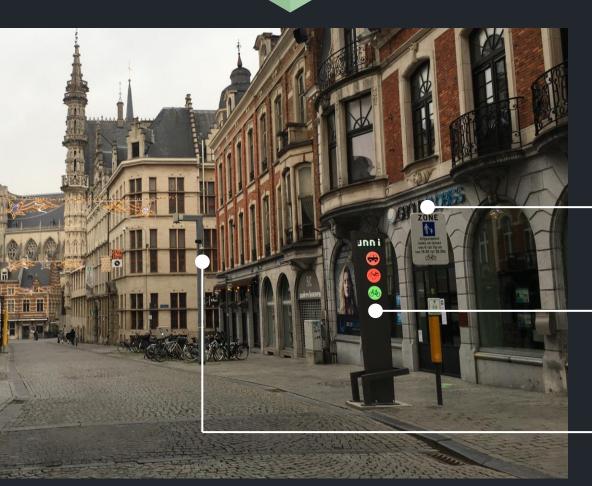
Guide motorized vehicles to ringroad





City access for motorized vehicles

Example: Leuven



Static window times

Delivery between 6 and 11 or 18.30 and 20.30

Signage boards

Visual indication on allowed modality

ANPR camera

Control mechanism in the city



Urban logistics solution: Dynamic access control



Solutions

Dynamic Access Control

What?

- A system to evaluate access requests
- Parameters + advantages decided by the city
 - Zero-emission transport
- Extra time for delivery
- Consolidation / load factor
- Passage through traffic plan

Local goods S

Extra parking possibilities

How?

- Linked with planning systems of transport companies
- >>> Linked with city control mechanism



Solutions

Dynamic Access Control – the journey

Example: Leuven

Gathering orders

Producer delivers transporter the orders through the Token platform.

Access request

Transporter asks for exception through DAC.

DAC evaluation

Evaluation according to parameters set by the city.

Granting access

White listing of license plate: control ANPR

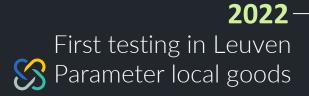


What's next?



What's next?

What will happen next







What's next?

Which opportunities do you see?

2022

First testing in Leuven
Parameter local goods

Search for new project partners

- New parameters (e.g. vehicle emmission, consolidation)
- Real time/historic traffic/parking data
- New incentives (e.g. dynamic parking and passage)





Dynamic Access Control

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Thank You!

Questions?
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