

# Delivering solutions for urban logistics in the on-demand economy



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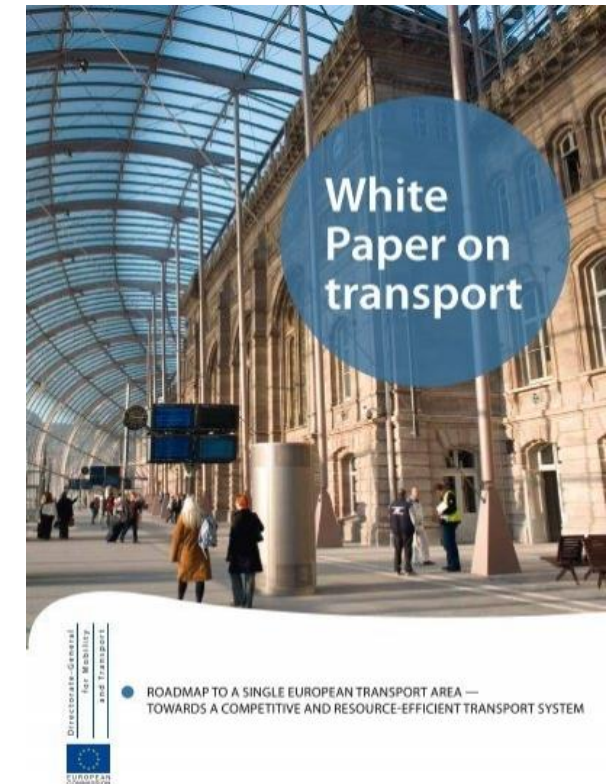
# Regulatory point of departure: EU White Paper 2011

- **10 Goals** for competitive and resource efficient transport

Developing and deploying new and sustainable fuels and propulsion systems

1. Halve the use of 'conventionally-fuelled' cars in urban transport by 2030; phase them out in cities by 2050; achieve essentially CO<sub>2</sub>-free city logistics by 2030

➔ „achieve essentially CO<sub>2</sub>-free city logistics by 2030“

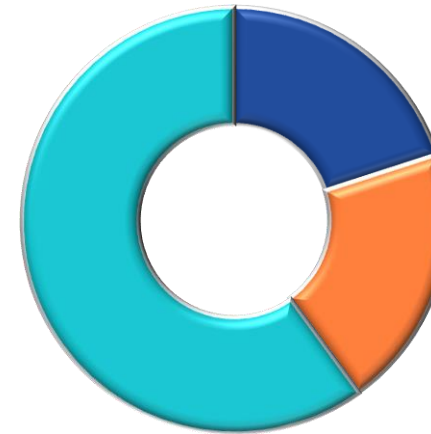


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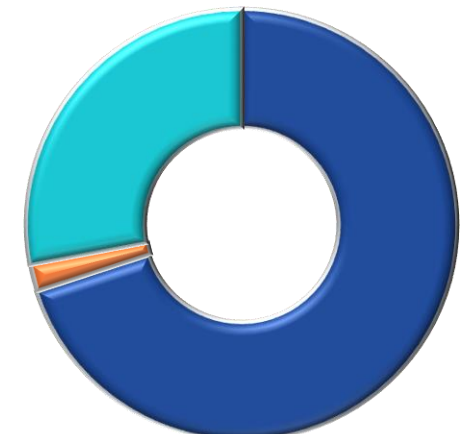
# Freight transport: the last mile is key

- “Freight transport receives less attention from policy makers than it deserves. ... Policy ambition has been relatively low compared to passenger transport”
- “Even in the most optimistic scenario, projections see **freight transport demand more than double over the next three decades**”

CO<sub>2</sub> Emissions



Freight Volume



Urban delivery trips account for around 20% of all freight emissions – the same as maritime shipping.

**But shipping covers 70% of all freight activity, urban deliveries only 3%.**

# The need to act ... now!

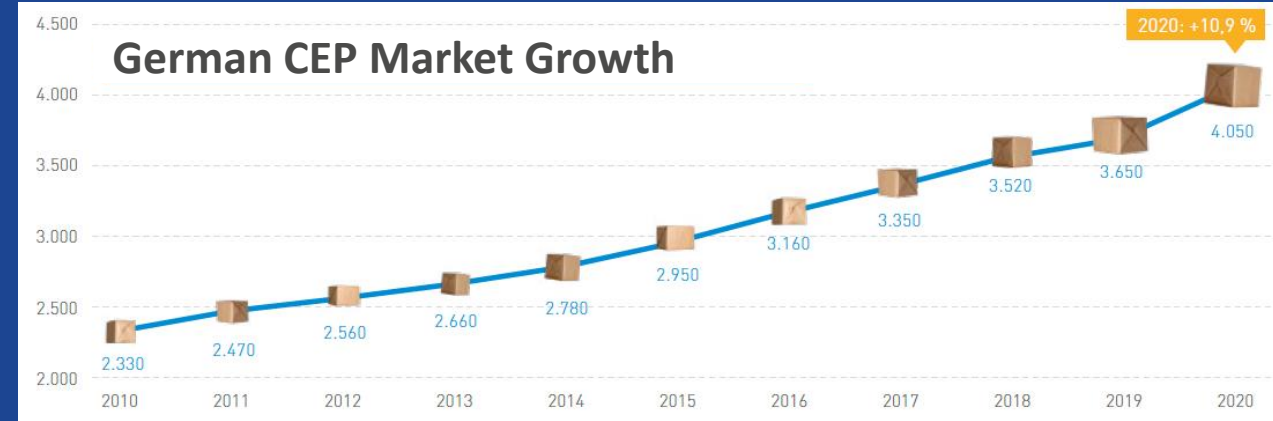
If we do not take action:

+36%

- more delivery vehicles in inner cities (due to e-commerce and on-demand delivery)

+30%

- increase in emissions and congestion due to urban last mile delivery



BIEK, KEP-Studie 2021



# Bremen: early focus on sustainable mobility



**BREMEN**  
MOIN ZUKUNFT!



**2014**  
“Verkehrsentwicklungsplan 2025”

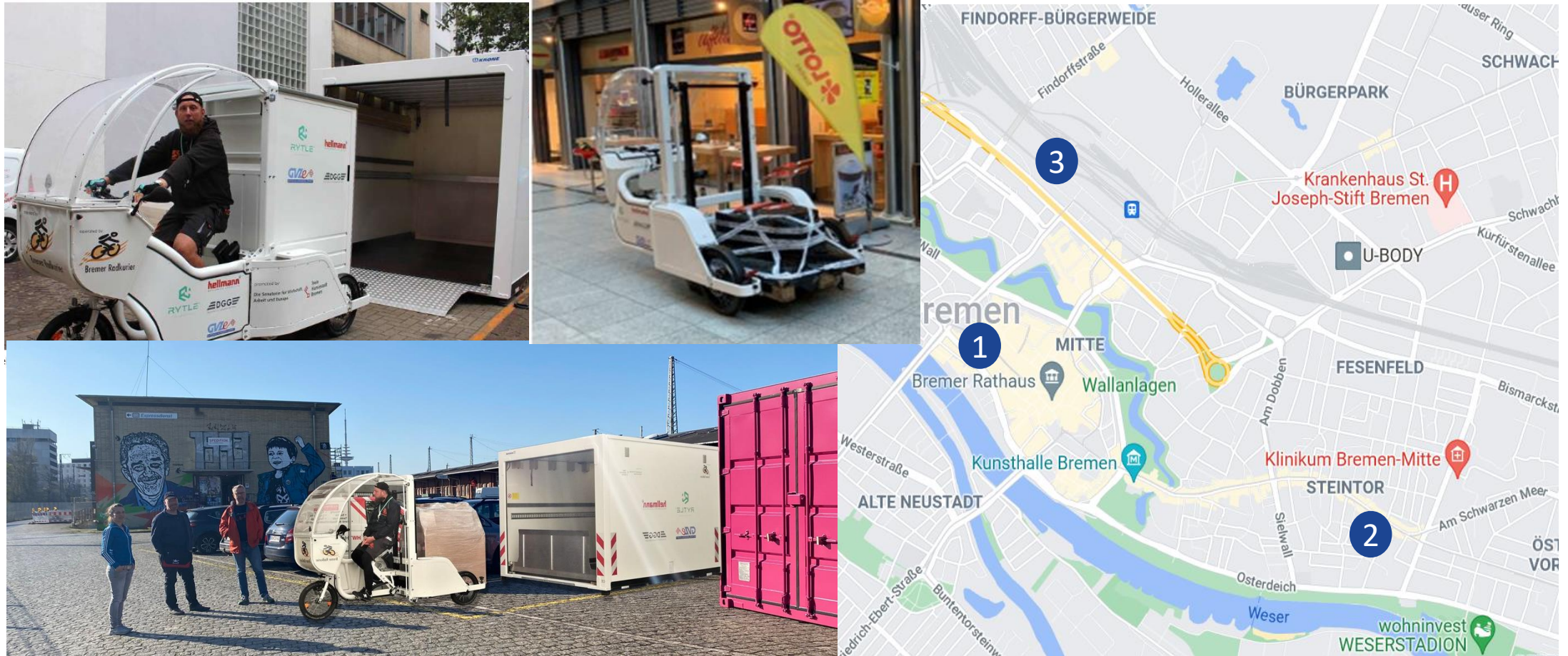
**2015**  
Winner of European Commission’s  
Sustainable Urban Mobility Plan  
Award

**2018**  
“Green City Masterplan”  
with elements of SUMP and SULP



# Solution 1

## Containerised urban last mile



# Solution 2: cargo bike-sharing for “private micro-logistics”

Potential to shift motorised trips related to goods transport to bicycles in European cities

**25%**

of all trips in EU cities

**42%**

of all motorised trips in EU cities

**51%**

of all motorised private and commercial trips related to goods transport in EU cities



„cyclelogistics – moving Europe forward. Potential to shift goods transport from cars to bicycles in European cities“, October 2013

# Solution 3: cargo-hitching

Mobility and logistics on demand:  
combining passenger and freight transport





# The broader context: ULaaDS



- Research centres
- Universities
- Service providers
- Consultancies
- Operators
- Organisations
- ...

# ULaDS Solutions and Schemes



**Dual MobiHub**



**CargoHitching**



**Containerised urban last-mile delivery**



**Sharing economy platforms for on-demand city logistics**



**City-wide platform for integrated management of urban logistics**

# Lighthouse City Mechelen

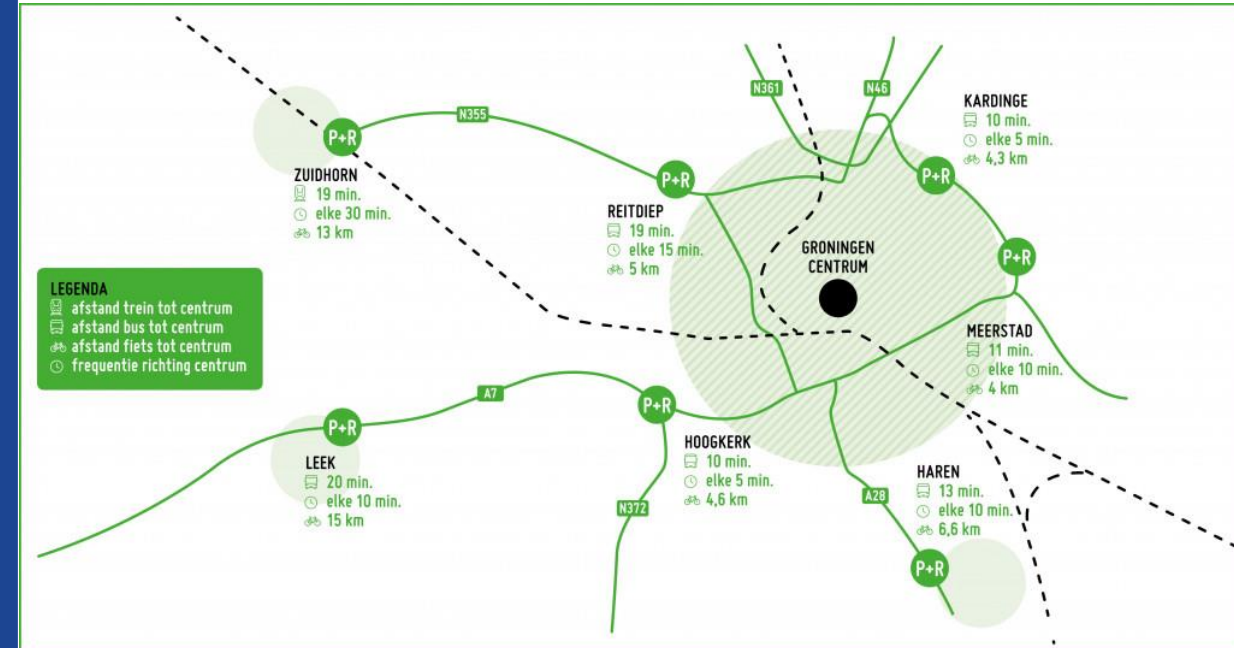
- „city-wide UFT platform“
- integrating management of urban logistics between various players



UPS LEVERT IN MECHELEN MET ELEKTRISCHE CARGOFIETS

# Lighthouse City Groningen

- Sharing of urban spaces, infrastructure, and transport and vehicle capacities
- combined solutions: urban logistics as a service for commuters



Thank you.  
Questions?  
Comments?

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