



# CITYLAB - *City Logistics in Living Laboratories*

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# CITYLAB

- Horizon 2020, Mobility for Growth
- Topic MG-5.2-2014 *Reducing impacts and costs of freight and service trips in urban areas*
- Budget 4 Million Euro
- 1 May 2015 – 30 April 2018
- 25 partners, 7 countries





## What we do

*Emission free city logistics in urban centres by 2030*

- improve **basic knowledge and understanding** about the impacts of freight distribution and service trips in urban areas;
- test and implement **7 innovative solutions**
  - **reduce negative impacts** of freight vehicles
  - **enhance business profitability**
- provide a platform for **replicating and rolling out** the solutions





## How we do it: Living labs

- Challenges: air quality, CO<sub>2</sub> emission-free 2030, livability, accessibility, noise
- Many demonstrations, but limited lasting implementations
- A new approach required, from individual, to freight partnerships, to city logistics living labs
- Collaboration industry, local authorities and research





# CITYLAB partners

toi  STEEN & STROM  
WE ENRICH MODERN SHOPPING

ROMA TRE UNIVERSITÀ DEGLI STUDI  Meware 

**Posteitaliane**

gnewt cargo *love the last mile*  TRANSPORT FOR LONDON

TNT THE PEOPLE NETWORK  UNIVERSITY OF GOTHENBURG

 Vrije Universiteit Brussel  BRUSSELS MOBILITY BRUSSELS REGIONAL PUBLIC SERVI 

 IFSTAR  DLR

**MAIRIE DE PARIS** 



**TNO** 

**ROTTERDAM**



UNIVERSITY OF Southampton  SOUTHAMPTON CITY COUNCIL 





# The implementations

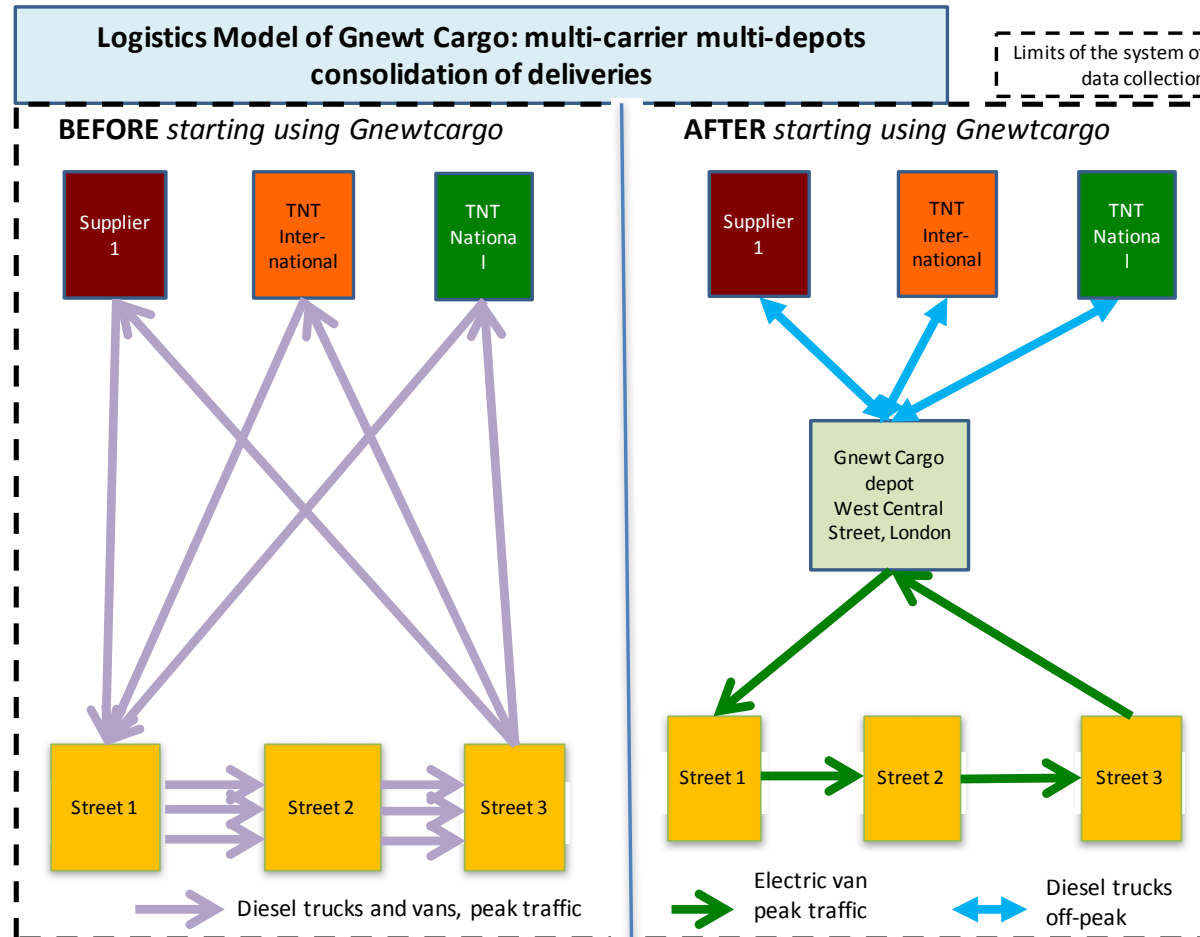
Axes for intervention	Implementation	City	Partner
Highly fragmented last-mile deliveries in city centres	Growth of consolidation and electric vehicle use	London	TNT and Gnewt Cargo
	City centre micro-hubs and clean vehicles	Amsterdam	PostNL
	Increasing load factors by utilising spare van capacity	Brussels	Procter & Gamble
Inefficient deliveries to large freight attractors and public administrations	Joint procurement and consolidation	Southampton	Meachers Global Logistics
	Common logistics functions for shopping centres	Oslo	Steen & Strøm
Urban waste, return trips and recycling	Integration of direct and reverse logistics	Rome	Poste Italiane, Meware
Logistics sprawl	Logistics hotels	Paris	SOGARIS





# London – growth of electric vehicles

- Add volumes from TNT domestic business to TNT international delivery business already distributed by Gnewt Cargo







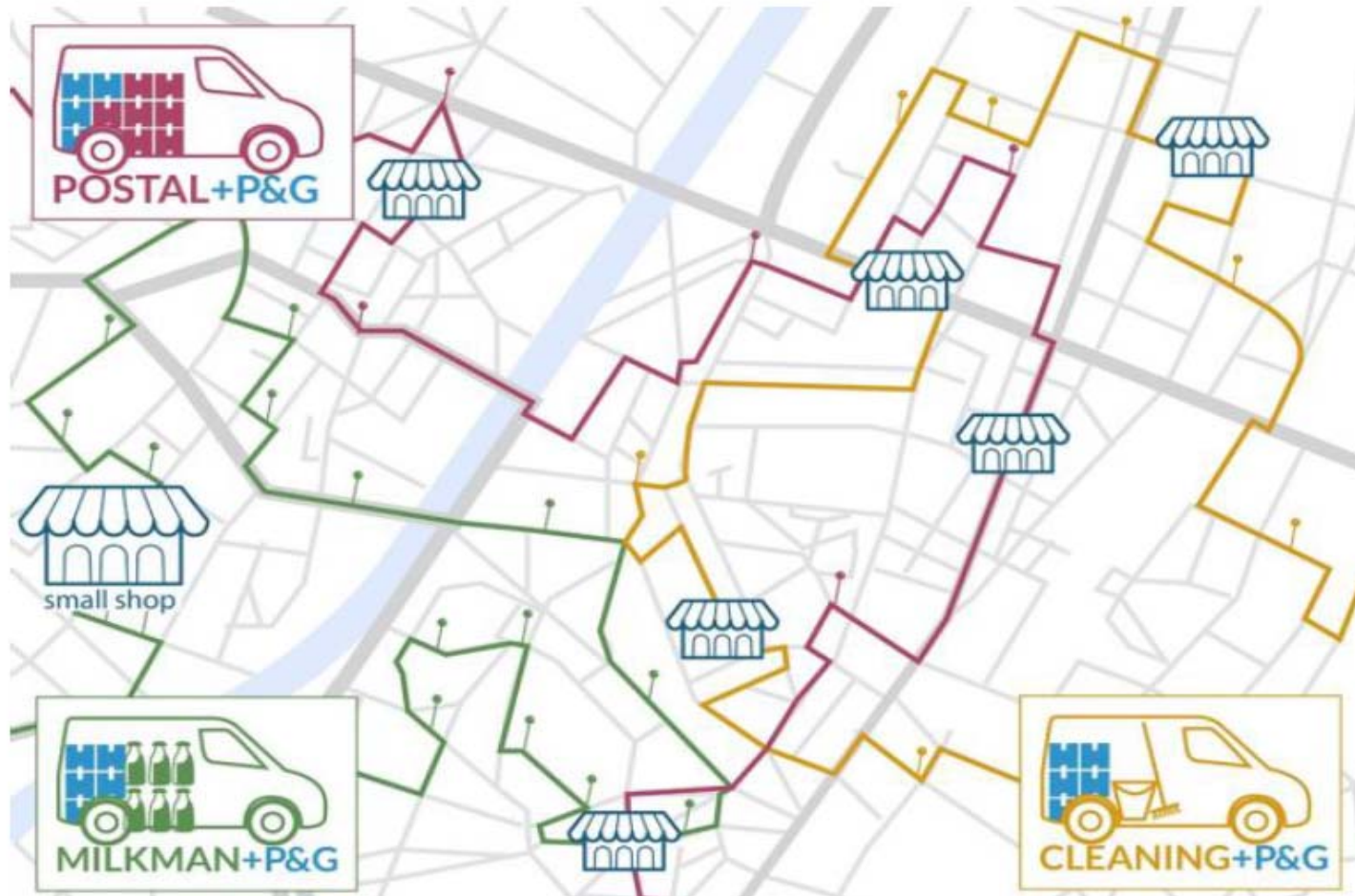
# Amsterdam – micro hubs and clean vehicles







# Brussels – utilising spare van capacity





# Southampton – public procurement and consolidation

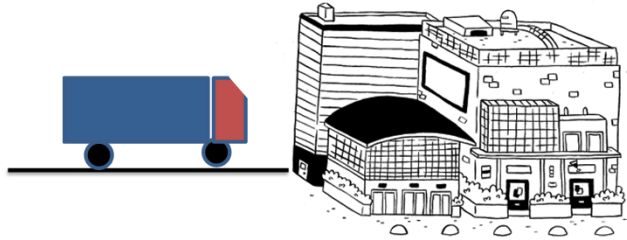




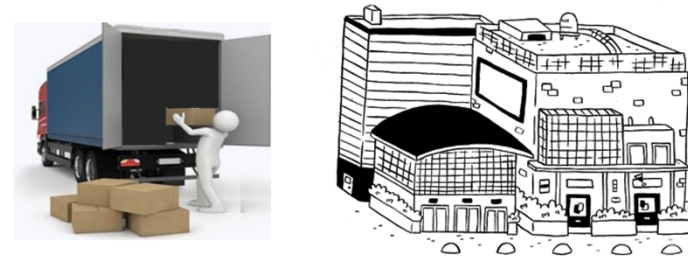


# Oslo: common logistics functions

1. Truck arrives



2. Driver unloads vehicle



3. Truck and driver leave



4. Local staff brings freight to tenants



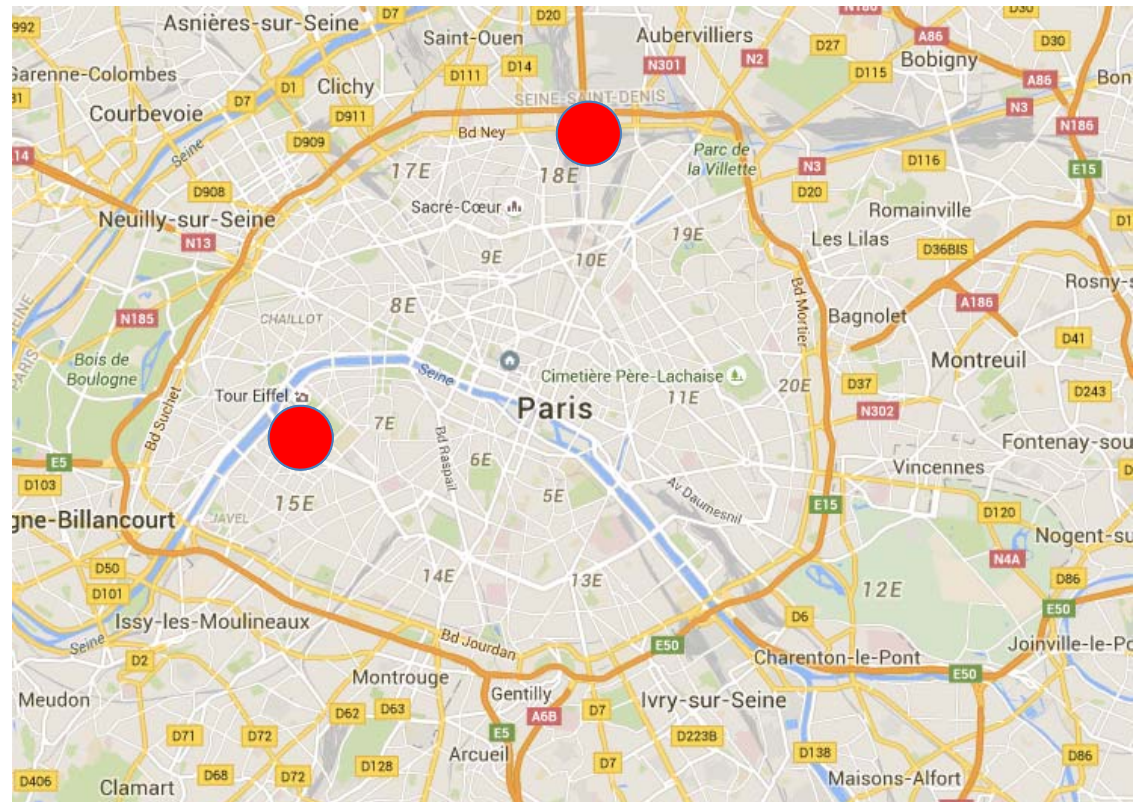


## Paris: Logistics hotels

**Chapelle International:** 35,000m<sup>2</sup> in the North of Paris,  
in construction

**Beaugrenelle:** 3000m<sup>2</sup> in the South West of Paris: in  
operation

**Sogaris** is the  
investor/manager  
(Private company  
owned by city of  
Paris)





## CITYLAB outcomes

Increased load consolidation

Improved space and time use

Increased uptake of clean vehicles

Improved delivery efficiency and reliability

Reduced total distance driven

Reduced emissions and costs

Collaboration practices

Supporting policies

Scaling and replication

CO<sub>2</sub>-free city logistics



# Pilot projects



## Sustainable Urban Logistics Plans (SULP) Freight Quality Partnerships (FQP)

### SULP

an overall plan for sustainable urban logistics in an urban or metropolitan area

Specific	measures
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City  
Logistics  
Living  
Labs

### FQP

- Stakeholder dialogue
- Information and exchange
- Inform about specific problems and challenges

### PILOT PROJECTS

Test specific measures aimed at improving efficiency and sustainability







# Living lab fundamentals

Build knowledge, evaluate, improve, implement

Solutions that  
are not with one  
stakeholder  
alone

Supporting  
urban freight  
strategies

Shared  
situational  
awareness



Thank you!

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