



The cargo bike, a new tool for construction sector logistics?
Summer University (Buildwise & Embuild.brussels) – 26.09.2023

| urbiQe

Developing sustainable last -mile logistics is a priority in the context of the European Green Deal

2030 55% reduction in CO2 emissions

2050 European carbon neutrality

Clean Energy

Sustainable Industry

Building and Renovation

Farm to Fork

Eliminating Pollution

Sustainable Mobility

Biodiversity

Sustainable Finance

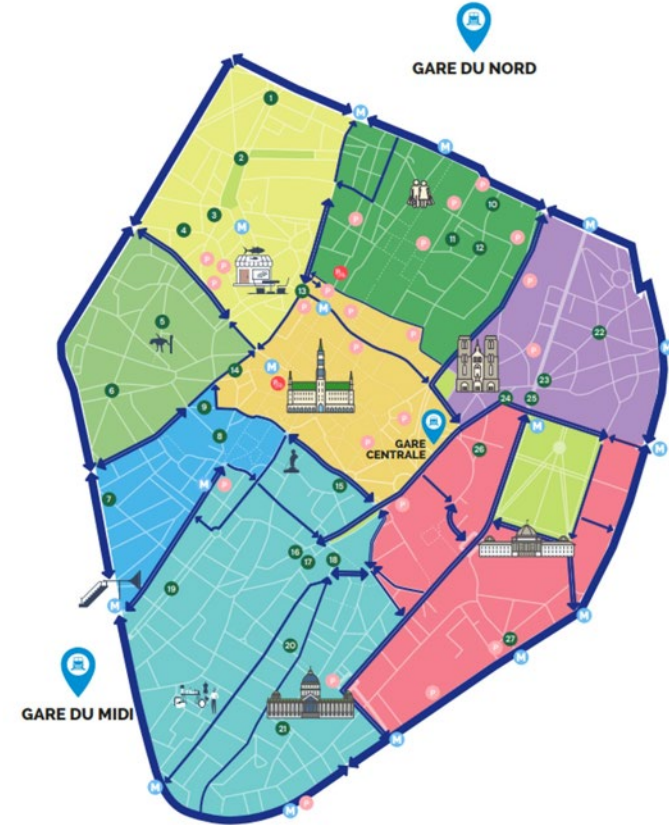
The European regulatory framework is gradually evolving in favour of integrated sustainable mobility plans

Sustainable Urban Mobility Plan (SUMP)

Strategic plan to meet the mobility needs of people and businesses in towns and their surrounding areas to improve quality of life


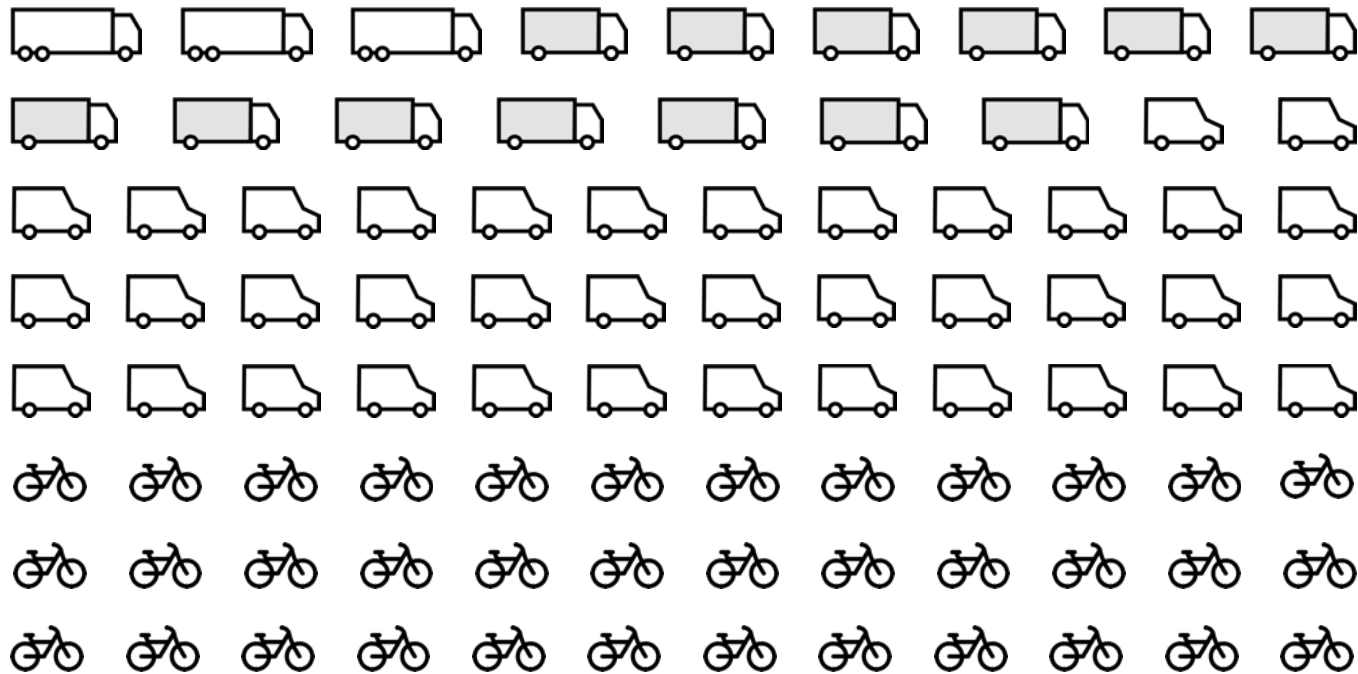
400+ European cities

Gand
Bruxelles



New traffic plan for the City of Brussels to be implemented in August 2022 as part of the Good Move regional plan

In most European cities,
1 in 3 deliveries could be made by bike



32%

Source: Cyclelogistics study (2017)

urbike: mission & approach

Transforming urban logistics to accelerate the transition to more sustainable and human cities .

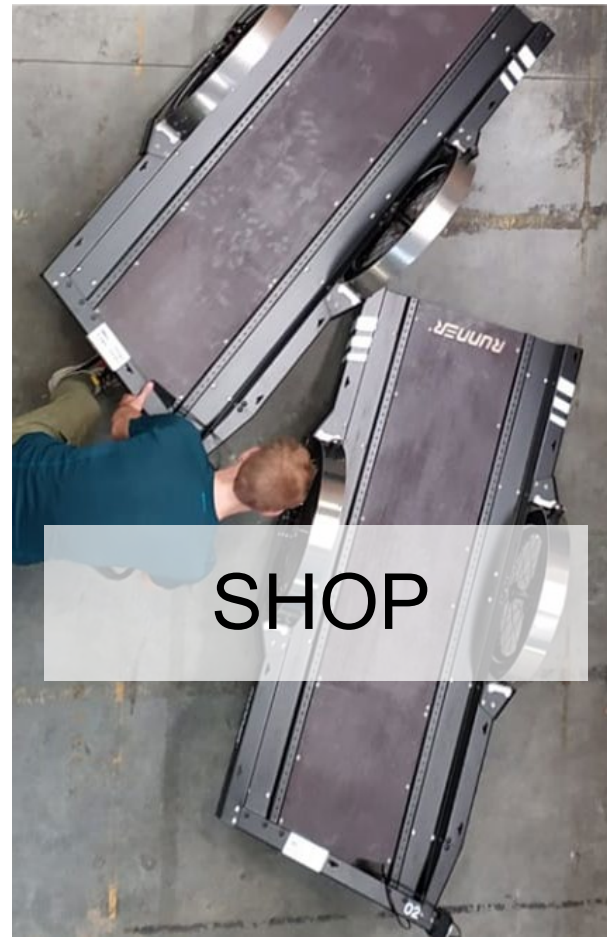
An approach combining 4 different activities converging towards our mission.



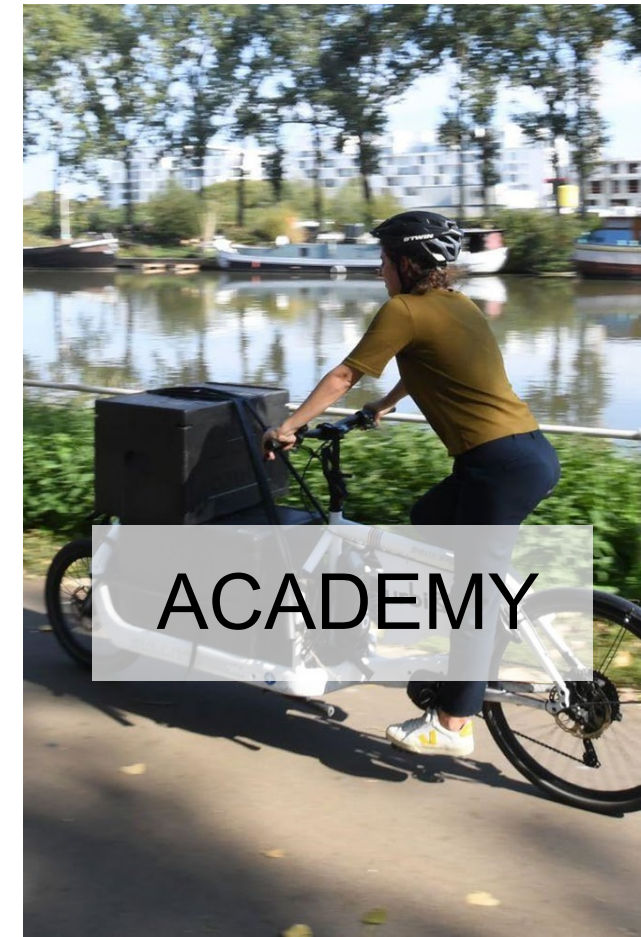
DELIVERY



CONSULTANCY



SHOP



ACADEMY

urbike.Delivery

40+ workers
(33 courriers)

4 logistics hubs
(Brussels & Gent)

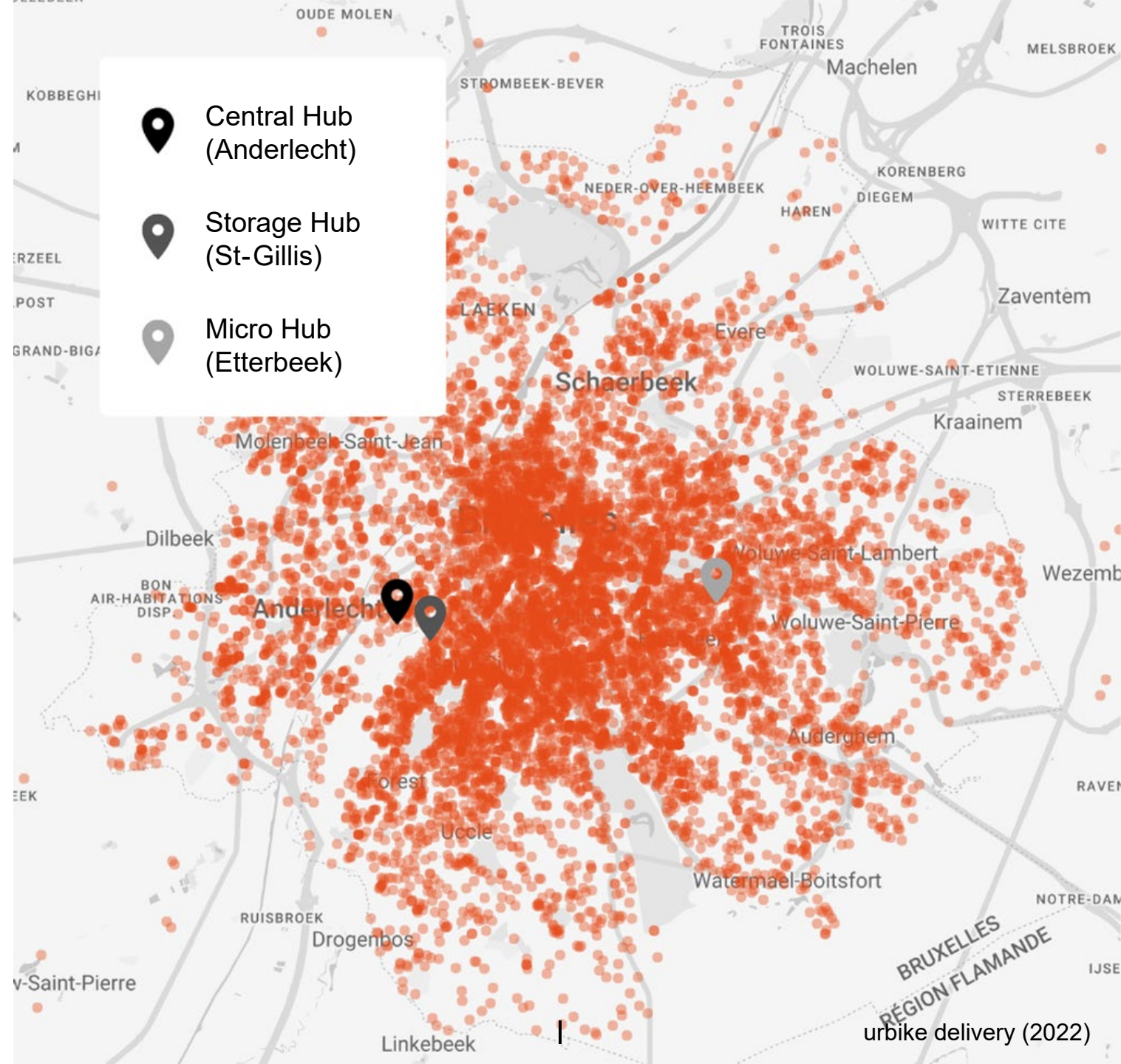
247.000 delivered parcels

97% success rate

164.000 km cycled

40+ tons of CO2 avoided*

*Compared to veh.km of N1 Class3 vans ([European Commission](#), 2020)



urbike delivery (2022)

Innovation for the development of cycle -logistics

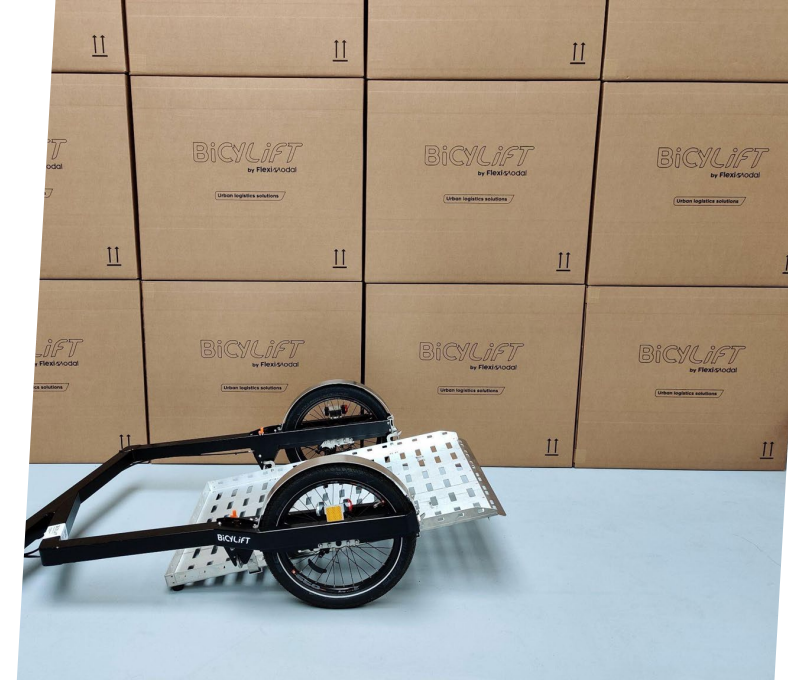


BicyLift (FlexiModal): an innovative bike trailer designed for cycle logistics and compatible with the EUR standard

Watch the full video on <https://youtu.be/F9dw9gQJuxU>

-pallet

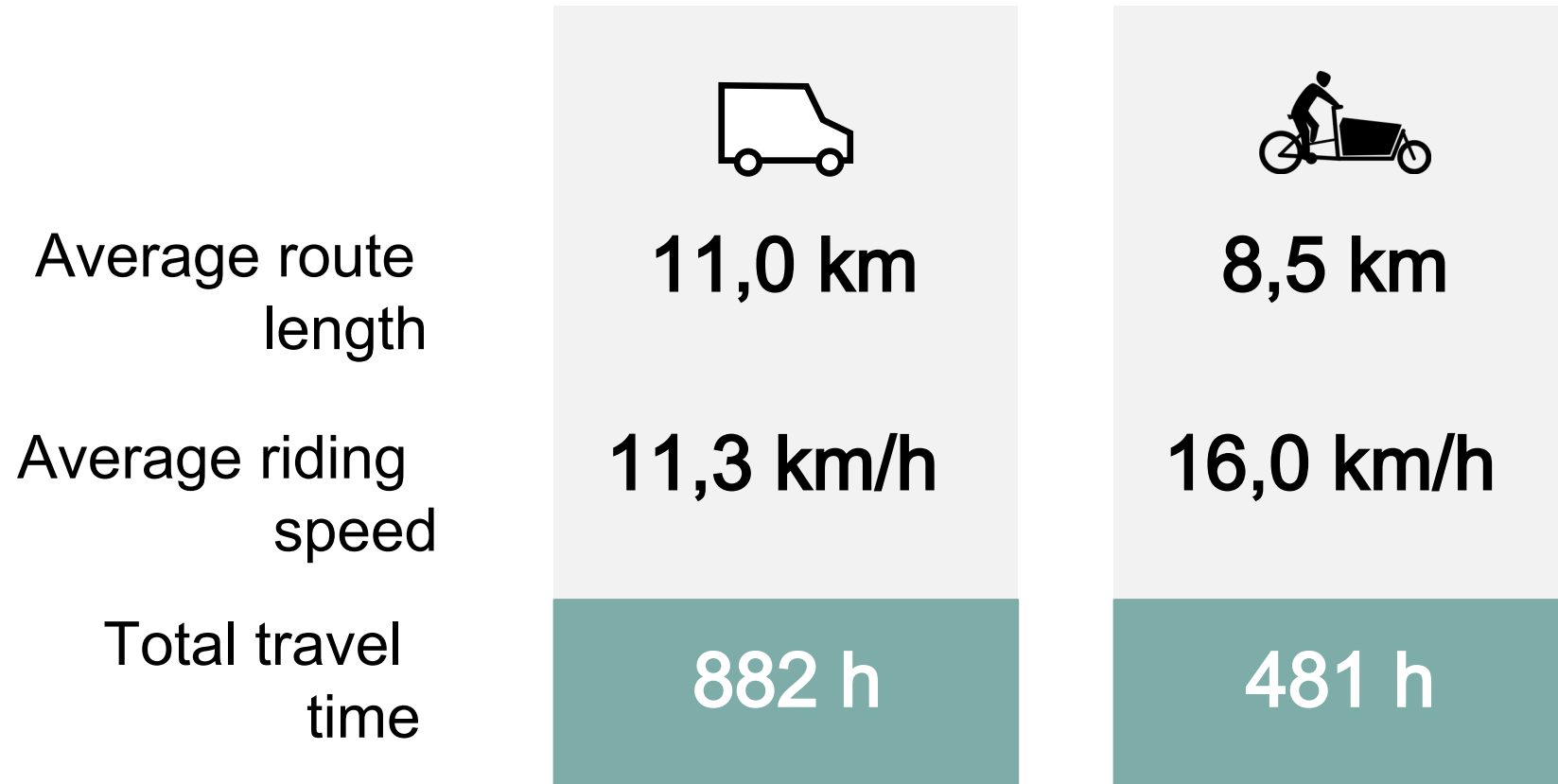






Is cyclelogistics really competitive?




Comparative analysis: Kale Collective



Source : Kale Collective (2023), Urbike: a Bullit case study. Evaluating the advantages of Bullit cargo bikes in urban logistics.

Is cyclelogistics really competitive?

Comparative analysis: Kale Collective

			
Yearly vehicle cost (depreciate over 5 years)	5.000 €	7.000 €	1.200 €
Yearly insurance cost	900 €	900 €	580 €
Yearly maintenance cost	270 €	200 €	270 €
Yearly parking penalty cost	1.500 €	1.500 €	0 €
Yearly congestion charge	1.500 €	0 €	0 €
Total yearly cost	9.170 €	9.600 €	2.050 €

Source : Kale Collective (2023), Urbike: a Bullit case study. Evaluating the advantages of Bullit cargo bikes in urban logistics.

Case Study : Facq

A multimodal urban logistics model



Intensification of traffic **congestion** and urban **accessibility constraints**

Reflection on logistics model **efficiency** in urban areas

Strong commitment to reduce the **environmental impact** of urban logistics

Will of customers to test cycle logistics model

Case study : Facq

Delivery of small parcels on construction sites



Case study : Facq



Collaboration between Facq and urbike since June 2022 starting with a **feasibility study** and a **positive pilot test of 4 weeks**

3 tours per day
(North, Center and Zaventem)

Up to 50% efficiency gain per tour
Better accessibility of construction sites and no impact of traffic

Training organised by Facq on process, tools and client service

Start of delivery services in Ghent since november 2022

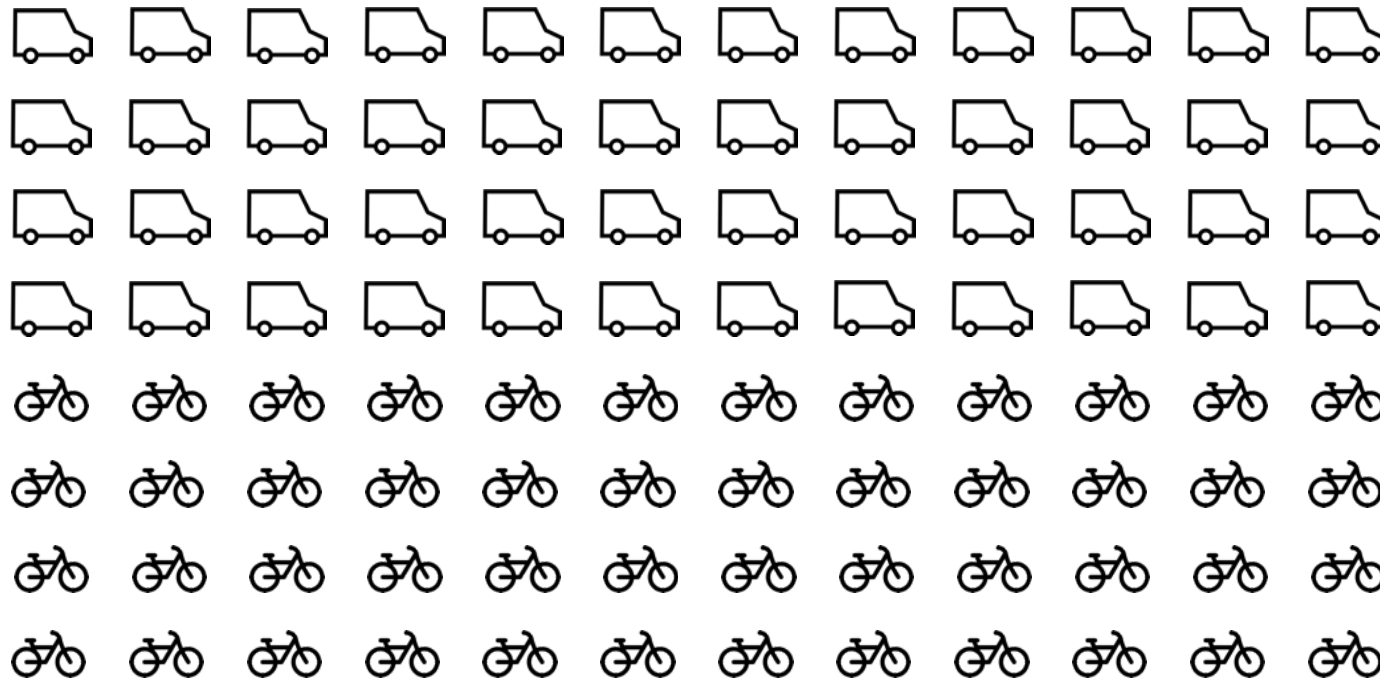
Other case studies



A photograph of a warehouse or industrial setting. Several workers in high-visibility orange safety suits and masks are present. In the foreground, a worker is adjusting a silver metal cargo box on a bicycle. To the right, another worker is standing next to a black cargo bike. In the background, there are white delivery vans, metal shelving units, and other workers. The floor is made of grey cobblestones.

| Services on cargo bikes

50% of urban -related transport could be done by cargo bikes



50%

Source: Result from the European CycleLogistics study (2017)

cAIRgo Bike (2020 -2023)

Improving access and use of cargo bikes for professionals and citizens, for a better **air quality** in Brussels-Capital Region.

Transversal approach : parking, purchase subsidy, training and advice, sharing systems, etc.

une selle, 1000 possibilités

Projet Cairgo Bike



1

Convertir les indécis

2

Permettre l'accès et l'usage

3

Faciliter le stationnement

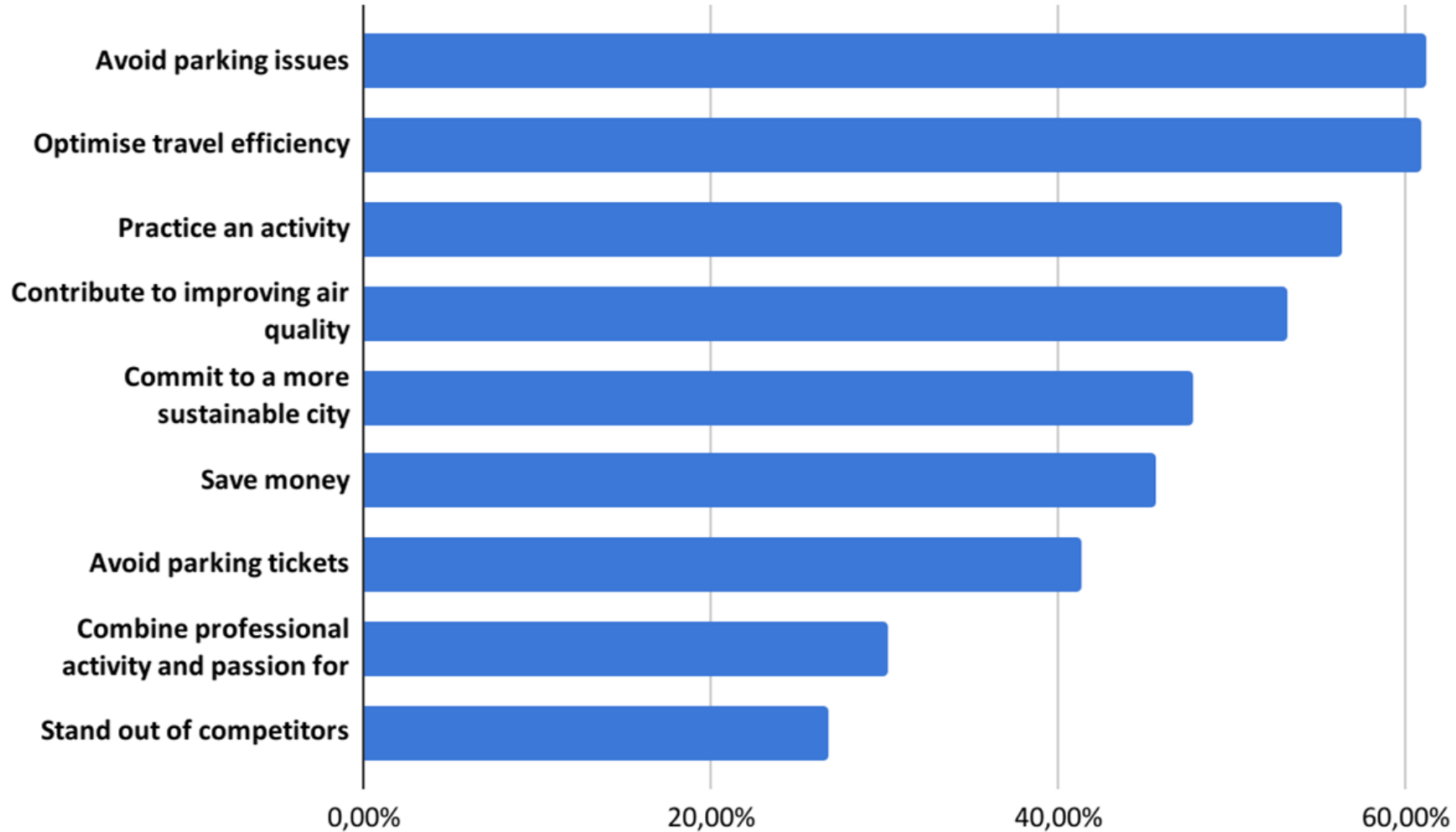
Un plan global pour développer l'usage du Cargo Bike pour les pros et les citoyens

JUILLET 2020 • JUIN 2023



pour en savoir + : www.caigobike.brussels

Main motivations to consider use of cargo bikes



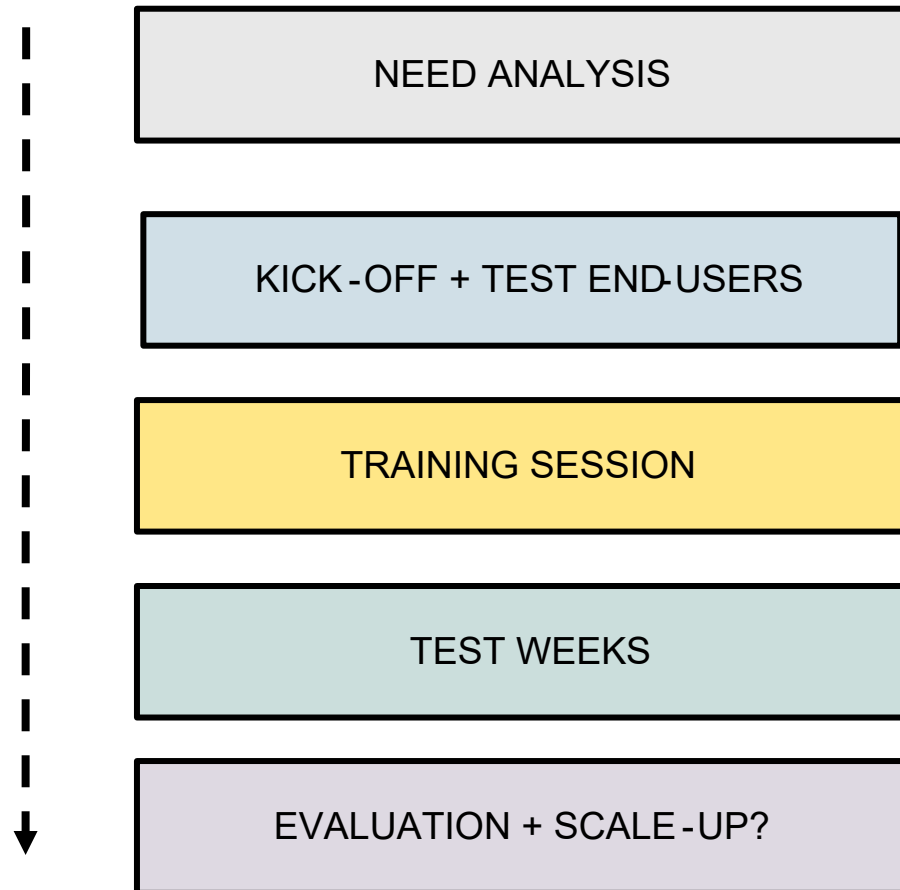
Source: Urbike

The construction sector = the 2nd most represented in Caipro Bike



Programme « CAIRGO BIKE FOR PROS »

Pilot project on cargo bikes





Are you next ?

SMEs and self-employed

→ Every 3 weeks a free group training to discover a wide range of cargo bikes and trailers

Large enterprises

→ Still 4 places for a full accompaniment (incl. needs analysis, test session, training, test weeks and evaluation) free of charge with the support of Brussels Mobility

Contact and information

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