



2E. Enabling shared mobility

02:30 PM - 04:00 PM



Governance & Integration











HI!



Bas Kramer



Kim Raijmakers















MASTERPLAN MOBILITY 2050











POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

ANNUAL CONFERENCE 2024









SHARED MOBILITY a brief history DEELMOBILITEIT 1st time permit 3rd time applications permit open applications open sep 2019 2024 2022 Prohibition 2nd time without hub permit permit applications open POLIS CITIES AND REGIONS FOR TRANSPORT INNOVATION ANNUAL CONFERENCE 2024 **EINDHOVEN**

WHY MOBILITY HUBS?



preventing blocking the sidewalks and guidinglines



visible and easily accessible shared mobility in recognisable locations in every neighbourhood

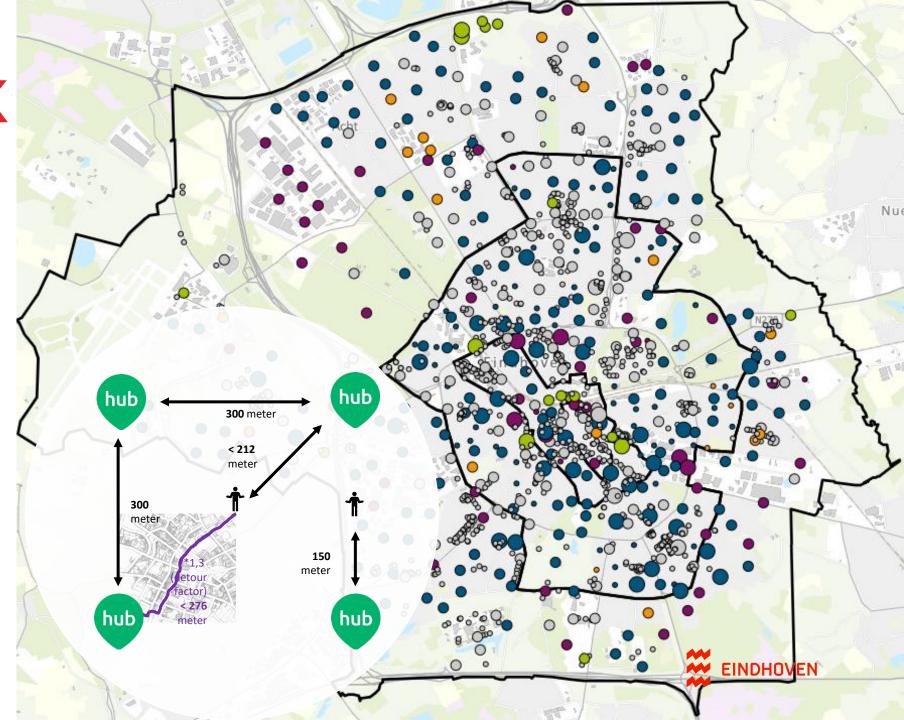




NETWORK OF HUBS

- I. Basic grid based on walking distances (300m)
- II. Relocation of theorised hubs based on GIS modeling to points of interest and otherwise spatial hierarchy:
 - i. Existing bicycle parking
 - ii. Car parking places (mobility for mobility)
 - iii. Large pavements
 - iv. Customised location



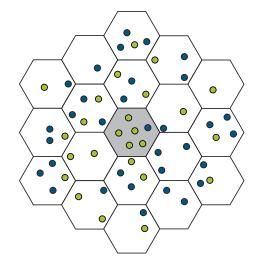


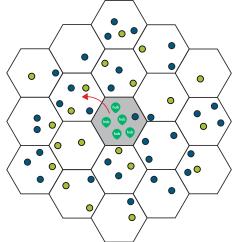
PRIORITISATION AND STRATEGY

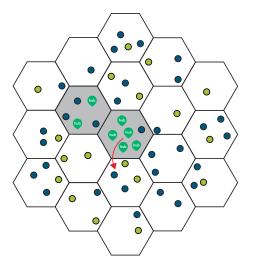
PRIO locations

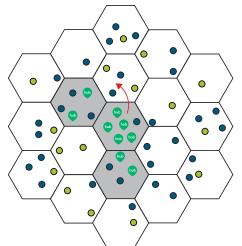
nuisance, POI's, public transport stops, suggestions of residents 'work with work' redevelopment of roads

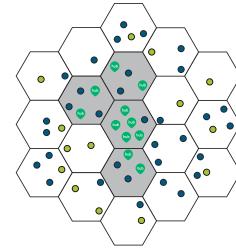
wildcards

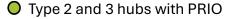










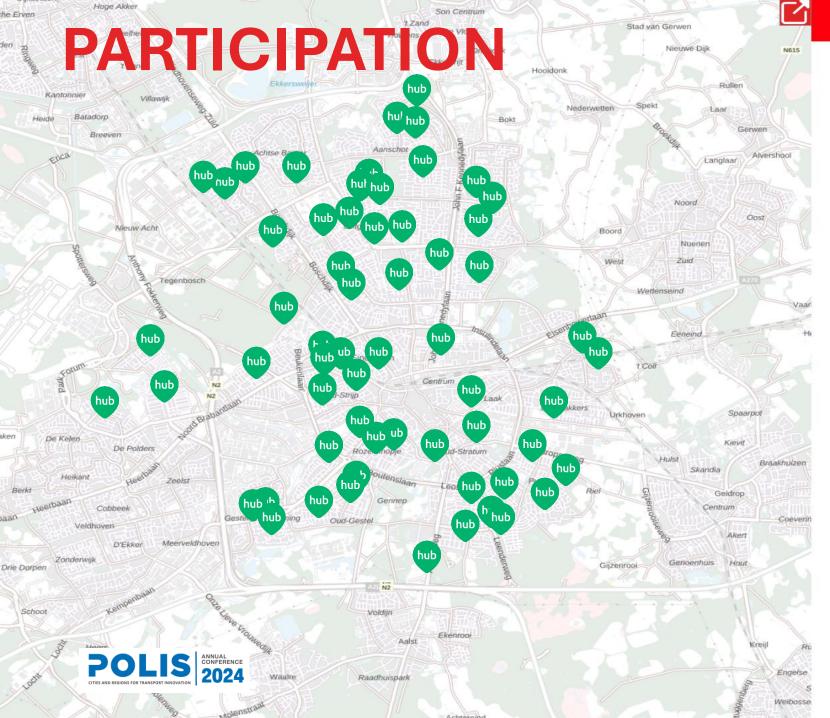


Type 2 and 3 hubs without PRIO

Realised type 2 and 3 hubs







Participatie mobiliteit hubs

Zoom in en klik op de hub waarop je wilt reageren.

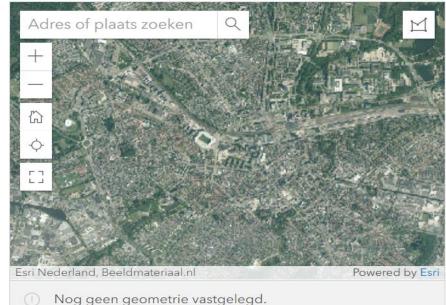
Scroll naar beneden voor de vragen. Op meer onderdelen reageren? Verzend je opmerking, klik op een volgend onderdeel en verzend opnieuw.

Na het verzenden van je reactie, kun je op deze <u>link</u> klikken om de kaart te verversen en je reactie terug te zien.

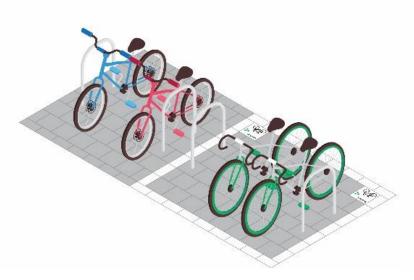
LET OP: de opmerkingen maken we openbaar in de kaart. Vul dus geen persoonlijke gegevens in.

Reageer op hub:

De hub op de kaart:*

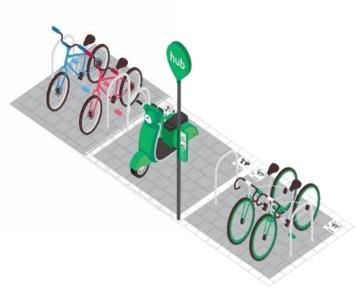


SPATIAL DESIGN PRINCIPLES



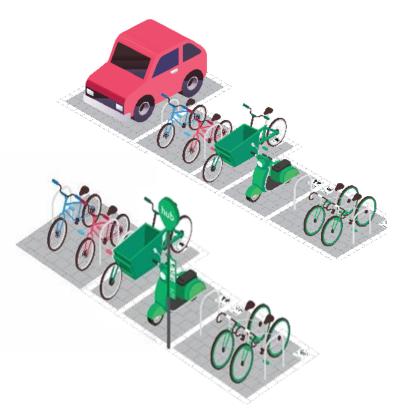
Type 1: bicycle parking with shared bikes

~1000 locations



Type 2: shared two-wheeler hub

~ 450 locations



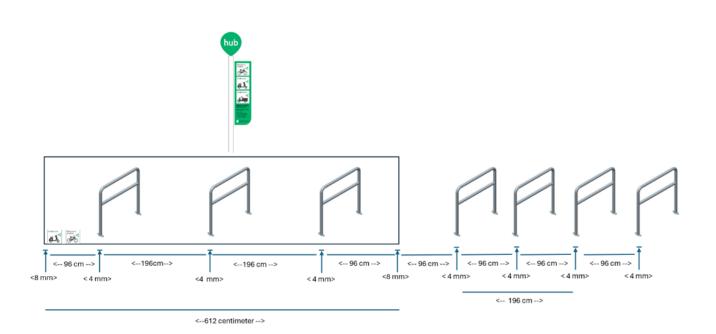
Type 3: neighbourhood hub with shared car and/or cargo bike

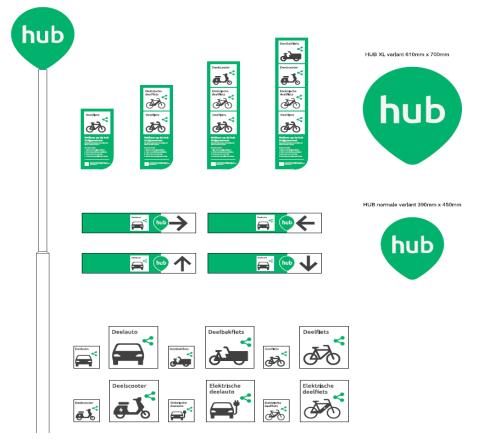
~50-100 locations





SPATIAL DESIGN PRINCIPLES INTO DEFINITIVE HUBS







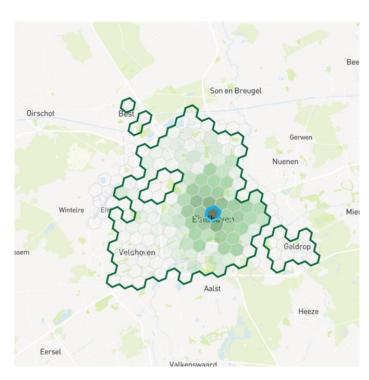




REFLECTION & (FUTURE) CHALLENGES



prevent having a network without vehicles



how does the region benefit?



back-to-many, freefloating or hybrid? waterbed effect











Stationary, free floating and electric carsharing: Lessons learned from the last 10 years of carsharing promotion in Stuttgart

27 November 2024

Michael Hagel, City of Stuttgart Nicolas Leyva, City of Stuttgart

All sharing types are important in Stuttgart

Station based carsharing

Stadtmobil, Flinkster, Ford, deer



Free floating carsharing SHARE NOW, Miles

Bike sharing

RegioRad Stuttgart bikes/pedelecs/ cargobikes



E-scooter sharing Lime, Voi, Tier, Bolt

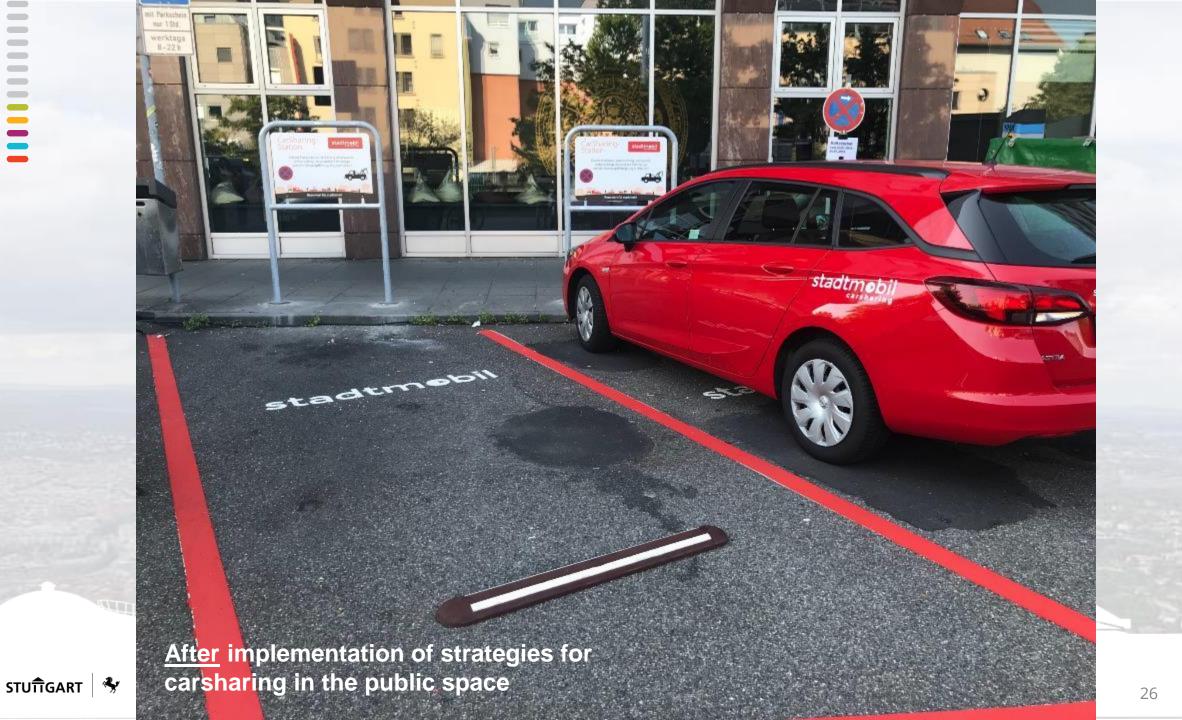
E-moped sharing Stella

Why is sharing so important for Stuttgart?

Sharing is an important element of the "mobility transition"

- Sharing instead of owning: Carsharing is an environmentallyfriendly and affordable alternative to owning a car
- Relieves pressure on public space / High potential of optimization of public space
- Contributes to strengthening other transport modes (public transport, cycling, walking)
- Contributes to less air pollution, less noise and to climate protection
- Growing importance in the last 10 years, both stationary and freefloating





Promotion of station based carsharing in Stuttgart

- Carsharing offers in public space should be made more visible and accessible
- Free floating was already visible Station based was not!
- Expansion of carsharing stations in public space
- Federal carsharing law from 2017 ("Carsharinggesetz")
- State road law from Baden-Württemberg: "special use" of public space for carsharing purposes ("Sondernutzung")
- Development of a process for the provision of public parking spaces for carsharing

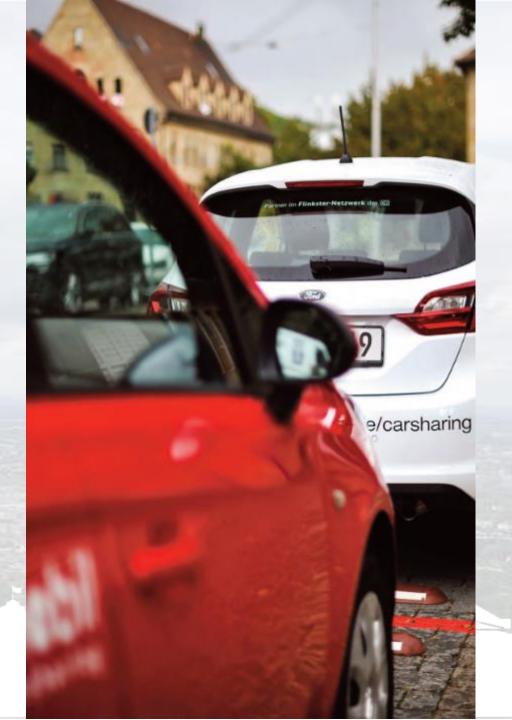


Station-based carsharing in Stuttgart today

- Stadtmobil, Flinkster, Ford, deer e-Carsharing
- 560 vehicles

Public promotion:

- Provision of public parking spaces throughout the city since 2018
- Free parking for all carsharing vehicles
- Funding program for carsharing in residential areas



Free-floating carsharing in Stuttgart today

- launch in 2011, expansion 2013
- SHARE NOW/Free2move and MILES
- Approx. 1.300 vehicles

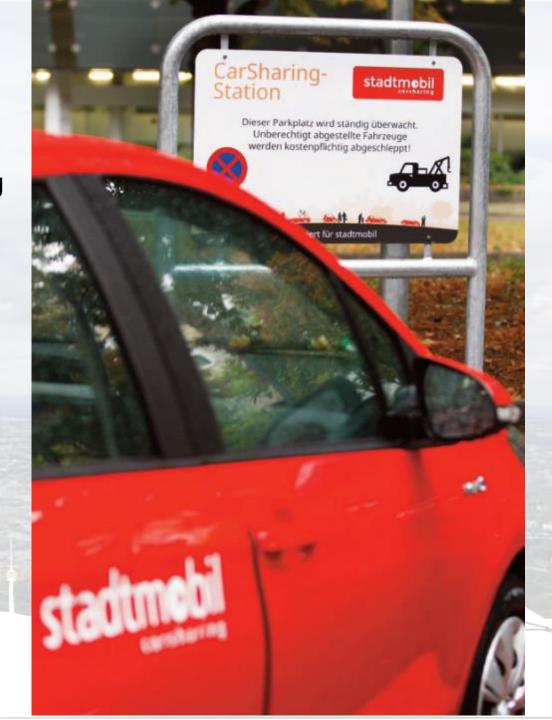
Public promotion:

- Free parking for all carsharing vehicles
- Widespread public charging infrastructure (1.000 charging points)
- Unbureaucratic treatment



Outlook

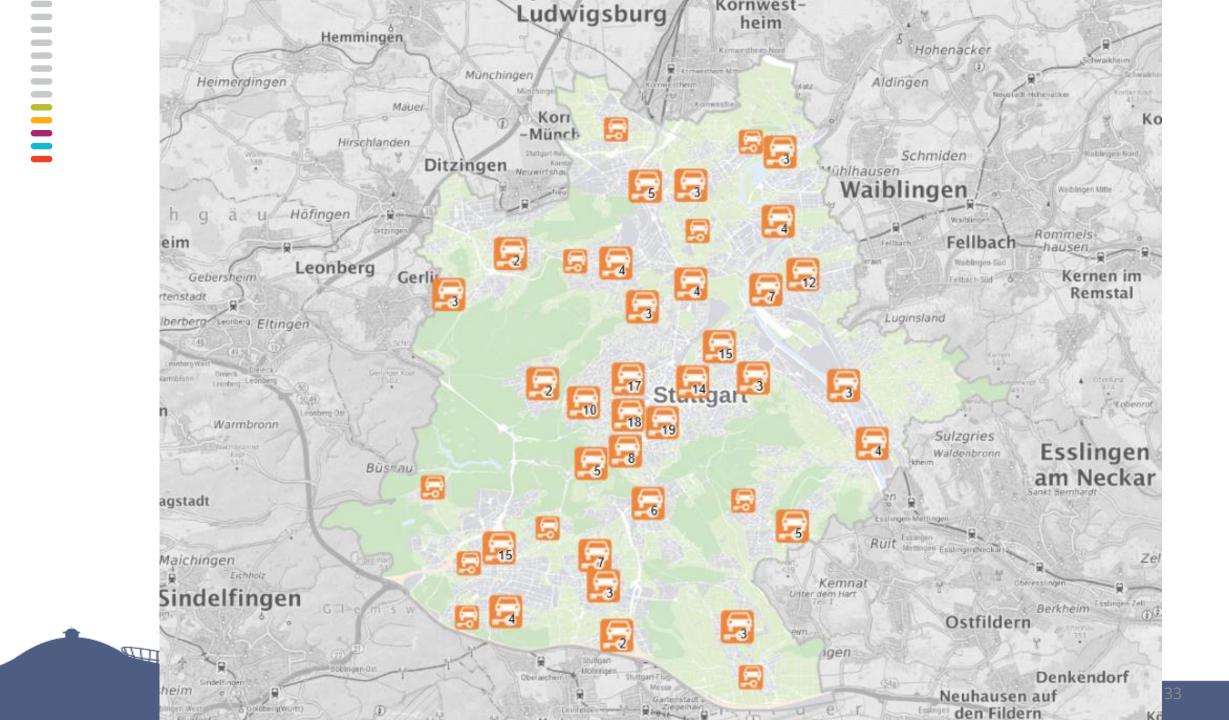
- Since 2018:
 Approx. 170 carsharing parking places in 100 stations in public space in all city districts
- 8 new stations exclusively for e-carsharing
- 2025: 120 new carsharing parking spaces











Carsharing strategy in Stuttgart

- wide sharing offer
- Simple tender procedure
- Visibility and accessibility
- Small stations in public and private space
- Stations in inner districts and periphery
- Dense station network, short distances
- Connencted to public transport and in residential areas
- Reinforcement of mobility hubs
- Permanent expansion of the network
- Electrification of stations
- no parking fees for carsharing vehicles
- Close communication and cooperation
- Marketing





Electrification of carsharing stations in public space: an enormous challenge

- High acquisition costs of vehicles
- High initial investment for charging infrastructure
- Uncertainty regarding operating costs
- (Still) psychological obstacles among users
- Uncertainty regarding organizational models: Who plays which role? (city administration, carsharing companies, charge point operators)
- Complex contractual models, long contract terms
- Different legal basis for different types of contracts (carsharing law, emobility law)



Possible models for electric carsharing – Case A: Charging infrastructure as part of the tender

Public tender / "Expression of interest"

Purchase / operation of charging point (CPO)

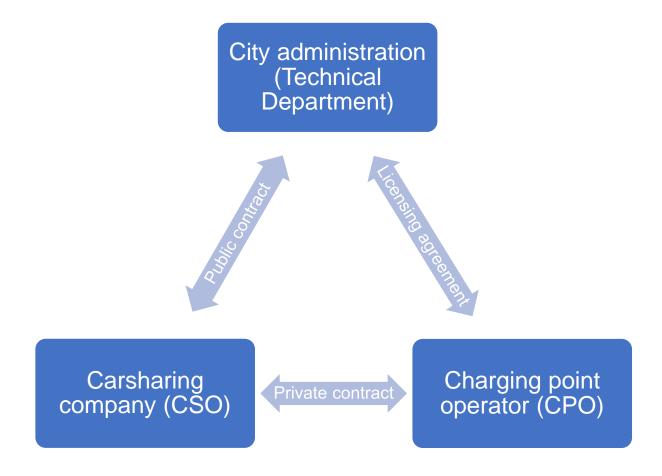
CSO or subcontractor Access and billing of charging point (EMP)

CSO or subcontractor Purchase of vehicle and operation

CSO or subcontractor

CPO = Charging point operator: Technical operator of charging infrastructure EMP = Electric mobility provider: mobility provider (sometimes identical to CPO) CSO = Carsharing Operator

Contracts needed in model A



Possible models for electric carsharing – Case B Charging pole as part of the city's infrastructure

In-House contracting with EDS (subsidiary company of the city)

Purchase and operation of charging point (CPO)

Stuttgart -> EDS (in-house)

Access and billing of charing point (EMP)

Stuttgart -> EDS (in-house) Public tender

Purchase of vehicle and operation

CSO or subcontractor

(Not carried out until now)

(E-)carsharing promotion in Stuttgart

Funding program "E-carsharing in residential areas" for private construction projects

- Funding of e-carsharing and other sustainable mobility forms in residential projects
- With up to 150.000 € per project

Funding of station-based electric carsharing in public space

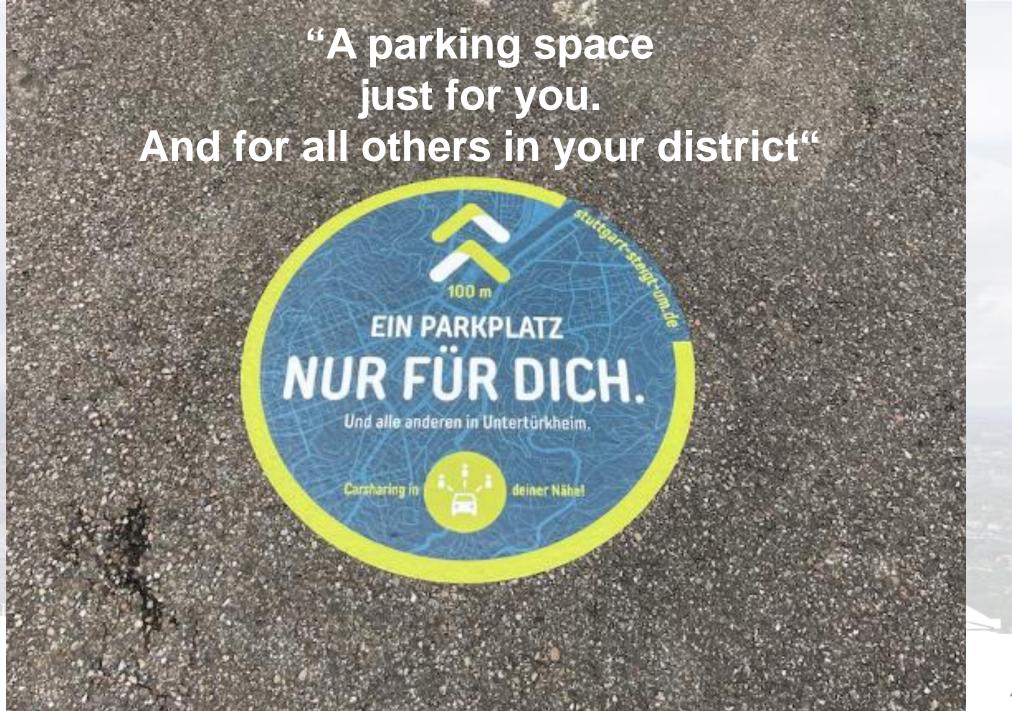
- Funding of charging infrastructure for carsharing as subsidy for models A or B
- Available amount: 300.000 € (in 2024/2025)

EU-Project Interreg-STEER (in application phase)

Objective: Integration of e-carsharing as standard in residential projects

No parking fees for carsharing vehicles











Thank you for your attention!





27-28 NOVEMBER 2024

KARLSRUHE (DE)

For more information:

Michael Hagel, michael.hagel@stuttgart.de Nicolas Leyva, nicolas.leyva@stuttgart.de















ShareDiMobiHub



Regulatory frameworks for shared mobility

POLIS Conference 2025





ShareDiMobiHub

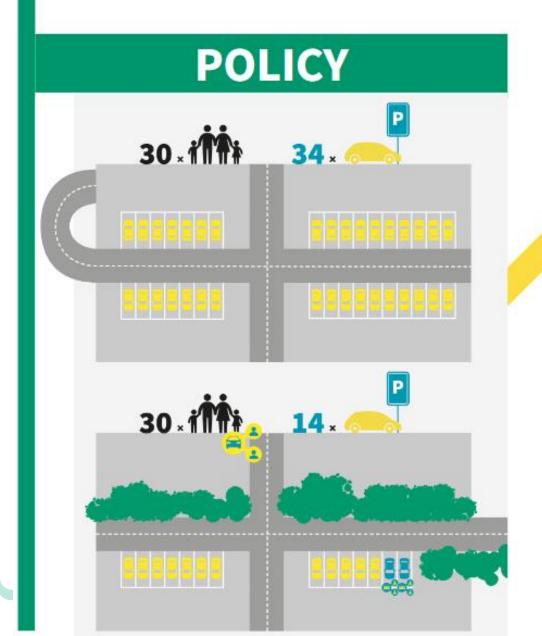
BRAM SEEUWS PROJECT AND POLICY COORDINATOR Autodelen.net



"

My job? Making shared mobility the new normal

AUTODELEN.NET?



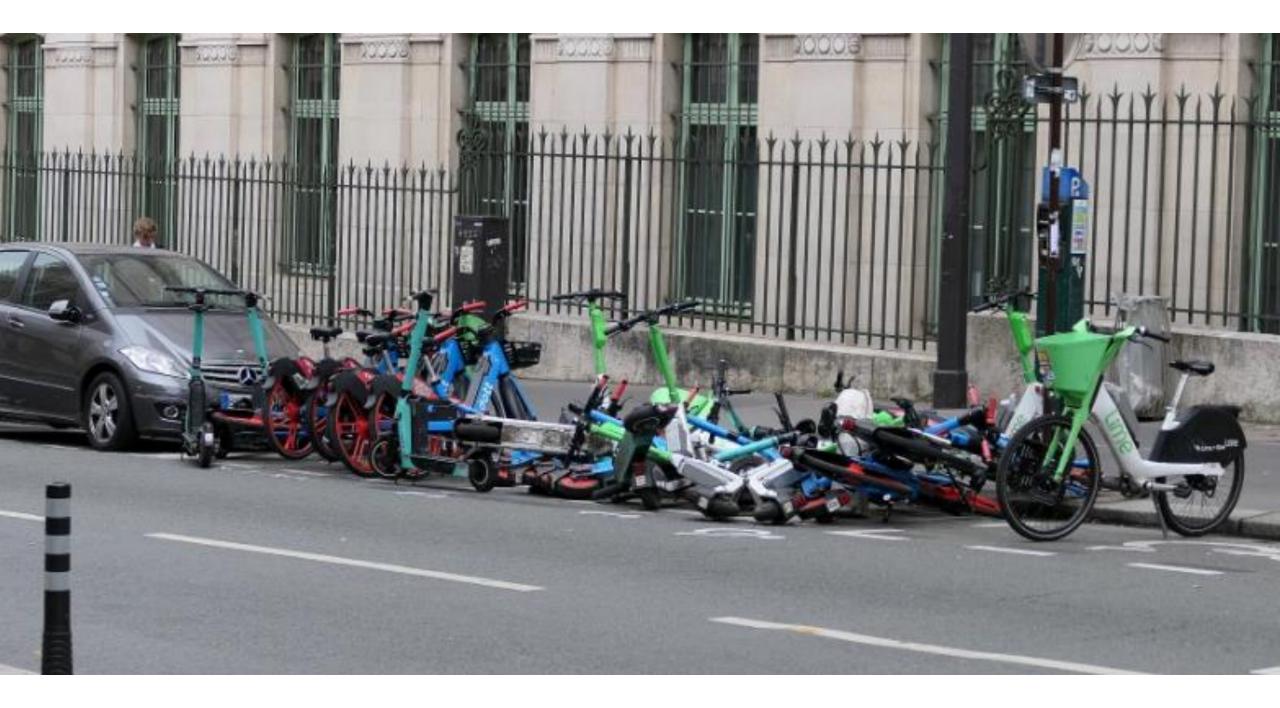


February 2025











| Launch calendar | Car tests







Car sharing is increasing

Since mid-2023, Europe's car sharing fleet has grown by 14% to 120,000 cars, writes the "European Car Sharing 2024" report. 580 lenders in 39 countries use a total of 360 different models from a total of 55 manufacturers. Germany is the largest market with 43,100 cars. Then comes France with 13,500 and the Netherlands with 7,000. Two thirds of the business takes place with a so-called Free-Floating model.











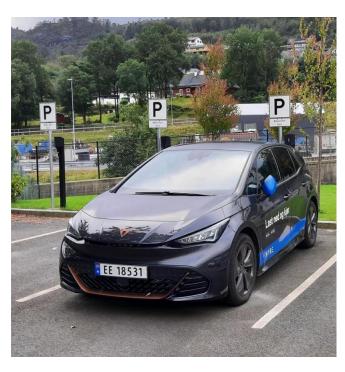


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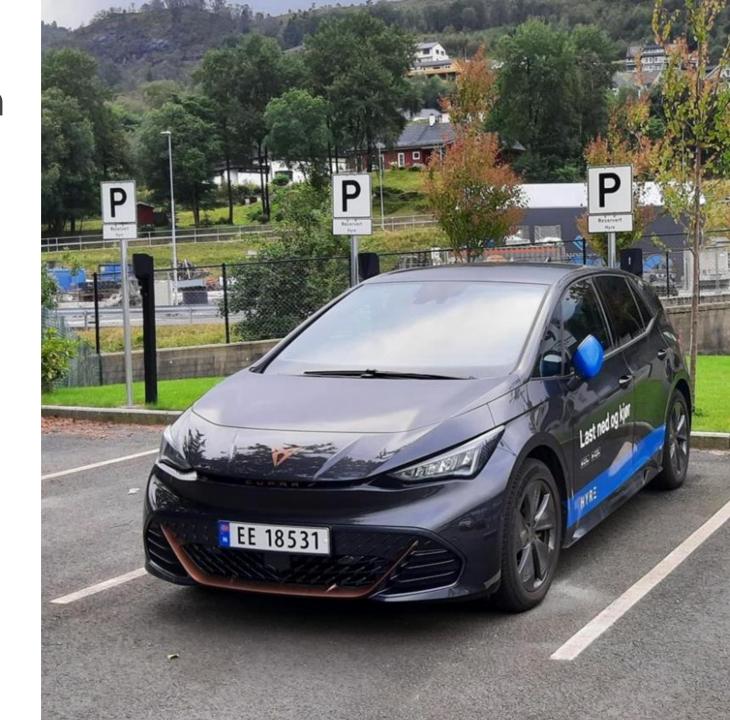
Multiple reasons

- Protection of public space
- Level playing field on different policy levels
- Safety of users and non-users
- Impact measurement and incentives
- (Protection) of passenger rights
- •••

Collaboration between policy levels

- **1. Definitions** => EU or national level
- **1. Conditions** => EU or national level, additional conditions on regional or local level
- 1. Quality criteria => EU or national level, additional conditions on regional or local level
- 1. Incentives => local or regional level

- **1. Definitions** => What is a shared car? A user?...
- 1. **Conditions** => 24/7 service, price per hour or less, one time contract,...
- Quality criteria =>
 Emissions, inclusivity,...
- 1. Incentives => public space, funding, ...



Open License	Limited License	Limited License Strong Oversight	Multi-Operator Partnership	Single-Operator Partnership	Municipal Program
Any eligible operator can receive a license if they meet the license terms	Any eligible operator can apply for a license, but limited number available (granted either first- come-first-serve or competitive process)	Any eligible operator can apply for a license, but limited number available; City works closely with operators to regulate service	Competitive process used to select operators for multi- year contracts to partner with City in developing and operating a program	Competitive process used to select one operator for multi- year contract to partner with City in developing and operating a program	City develops and operates program with internal resources and owns infrastructure; City may contract out for support services

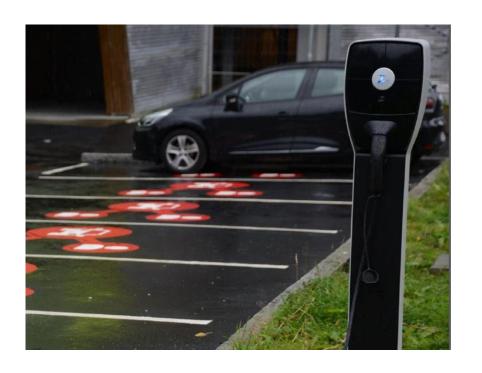
Increasing City Involvement, Investment, Ownership, Control and Accountability for Outcomes

Sam Schwartz and Mark Bennett

Open license?

Mostly car sharing

- National car sharing laws (Germany)
- Regional car sharing labels (Ile-de-France, Flanders)
- Regional permit system (Wallonia)
- Local regulations on city level (Bremen, Bergen,...)



Limited license?

- local Bike sharing permits (Gent, Rotterdam,...)
- Local e-scooter permits (Oslo, Brussels,...)
- Local Mopeds permits (Amsterdam, Rotterdam,...)



Single operator partnerships?

- Public city bike sharing (Antwerp, Paris,...)
- As part of PT concessions (Flanders)



Roadbook share mobility frameworks (2025)





Interested in joining?

- A beta version will be released in spring 2025
- Join our stakeholder list if you want to get access to the free platform when

it's released:



https://de.surveymonkey.com/r/C92ZSFC



THANKS

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Bram Seeuws

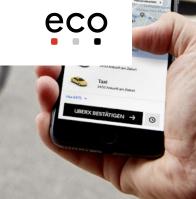
Bram@autodelen.net

Unleashing the power of seamless multimodality: Integrating public transport and shared mobility solutions

Roland Werner, Senior Director Public Policy

27 November 2024





One app for all destinations

In 76 countries and 11,000+ cities/municipalities: An app for everyone in their native language with real-time translation for communication between drivers and passengers.











UberX

UberXL

UberX Share

Uber Green











Uber Black

Uber Black SUV

Uber Comfort

Uber Reserve











Uber Moto

Uber Auto

Uber Shuttle



Uber Wheelchair









Uber Intercity

Uber Hourly Uber Rentals









Uber Connect

Uber Transit

2 Wheels

Carshare

Uber Rides















Sustainable Mobility Platform



2025

50% of all mobility kilometres in 7 European cities emission-free

2030

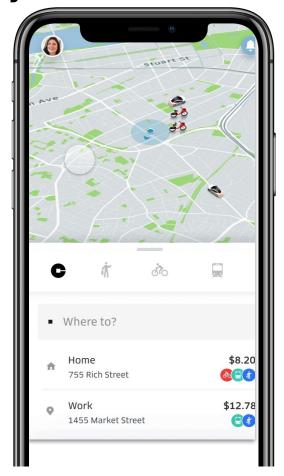
100 % emission-free trips in the USA, Canada and Europe

2040

100% of trips worldwide in zero-emission vehicles

Data as the basis for multimodal mobility



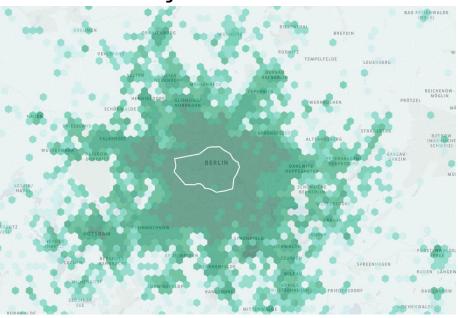


Uber outside the city centers

Portugal



Berlin/Brandenburg



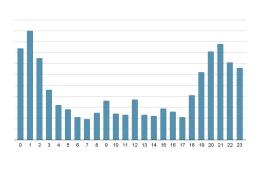
2024

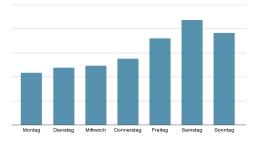
Last-mile service in Berlin

Last mile service outside the S-Bahn ring



Rides by time & weekdays





Number of rides & development of demand



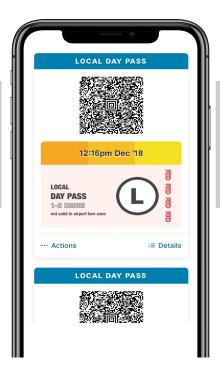
Further public transport cooperation opportunities



Journey planning

Berlin:

Public transportation, arrival times and costs



Ticket purchase

Denver:

Public transportation tickets in the Uber app

Dallas On-Demand Transit

+150%

Increase in ridership

+25%

modal shift from private car

50%

50% additional public transit coverage in rural areas

30%

Reduction of fixed route network with more service network overall

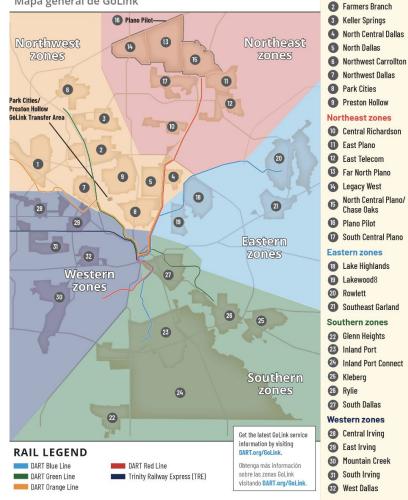
Average cost per Uber subsidised ride

51%

cost reduction from fixed route rural bus service



Mapa general de GoLink



Northwest zones

Cypress Waters





Mobility hubs Groningen: moving towards a reshaped and liveable city

Sarah Boshuizen
Policy Advisor Mobility on Hubs, P+R's, and Bike Parking
City of Groningen

27/11/2024

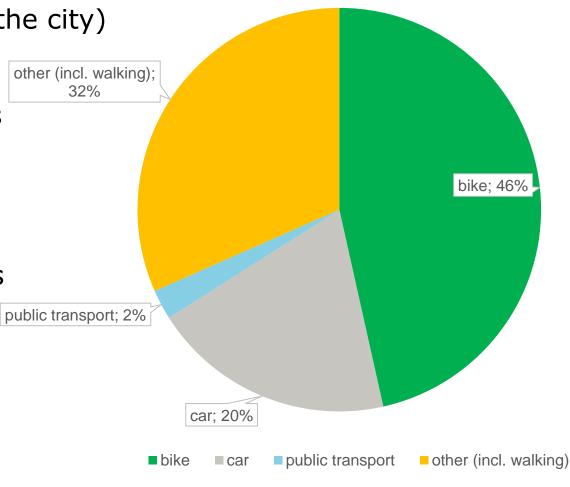




Groningen

- 244,000 inhabitants
- 180.000 people commuters (from and to the city)
- Ø 38 years
- Cycling city!
- 1st 2nd healthiest city of the Netherlands

... fast growth! In 2050, 270.000 inhabitants



Modal Split



Groningen - well on the way: Sustainable urban mobility plan (SUMP, 2021)















Time for change

Limits have been reached:

growing cities - growing mobility

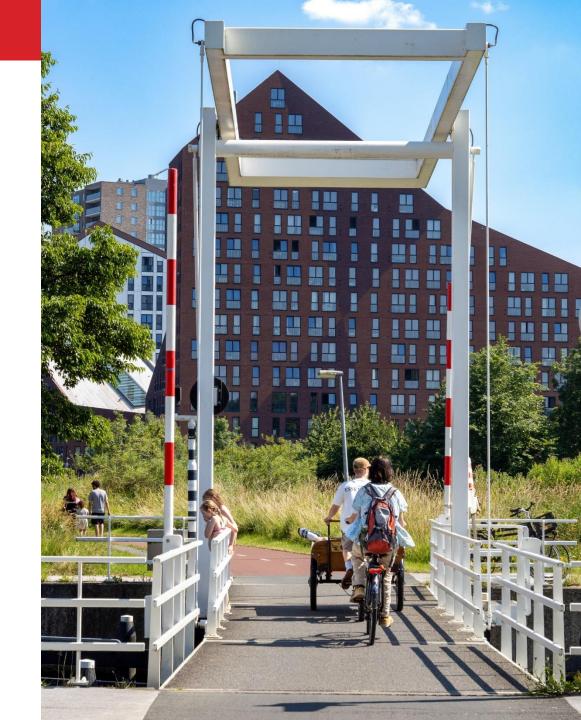


radical changes necessary

Population Growth in Groningen

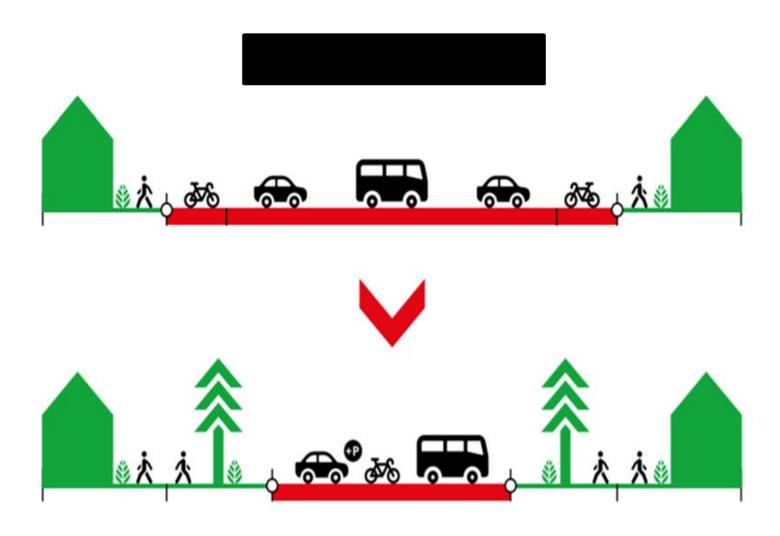
- More space in the city
- Improving quality of the urban environment
- Redesigning public space (e.g., changes to car and bike parking)





Public spaces

- In the past:
- space for traffic was starting point
- remainder for the other functions
- Now:
- public space serves primarily for quality of life
- mobility is part of that
- priority for mobility that requires less space







Traffic Circulation Plan (1977)







Traffic Circulation Plan (1977)





Noorderplantsoen (1994)





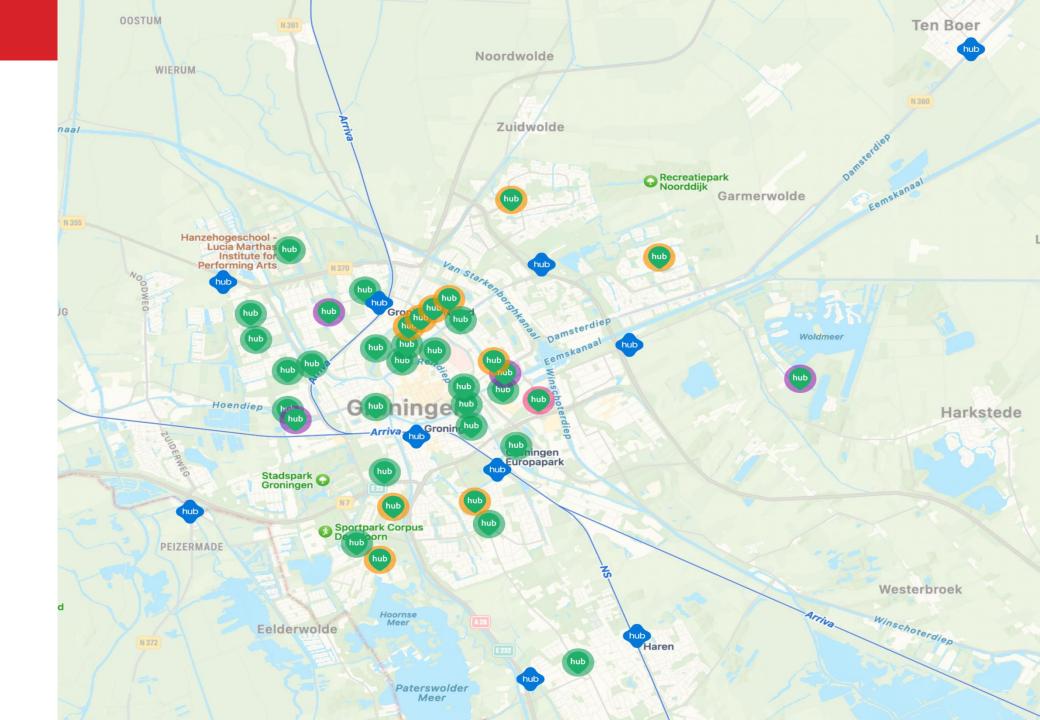
Hubs (2024)

- Improving Public Transport Hubs
- Neighborhood Hub
- Bike Parking in the City
- Shared Mobility Hubs
- Park + Rides





Hubs



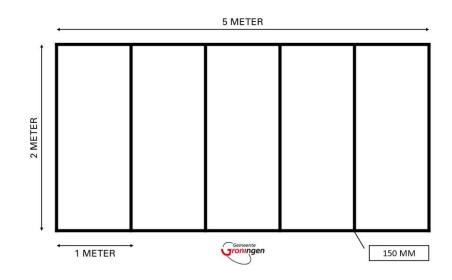




Shared Mobility Hubs



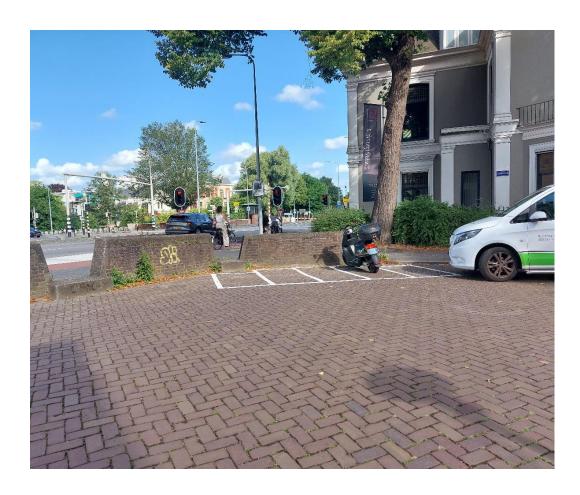






It works!







It works!







But...





But...





But...





Salience is essential!



×

Park +Ride









Learnings



- ✓ Salient rules work best
- Public space is scarce
- Uncertainty about future of MaaS
- New concept in society new habits?
- Monitoring and evaluation essential and complex
- Prioritize mobility in new area developments



Thank you!



Sarah Boshuizen
Policy Advisor Mobility on Hubs, P+R's, and Bike Parking
Sarah.boshuizen@groningen.nl

Questions?

Ideas?



Sarah Boshuizen
Policy Advisor Mobility on Hubs, P+R's, and Bike Parking
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Alexander BräutigamGlobal Head of Partnerships, FREENOW



EUROPE'S MULTI MOBILITY APP WITH TAXIS AT ITS CORE

Our mission: safe, reliable, accessible and increasingly sustainable mobility options for all

Digitalisation of transport

Integration of shared & electric vehicles

Modernisation of the Taxi sector

Collaboration with cities and regulators



70%

of Europeans prefer to use one app that integrates all mobility options*



DRIVE & RIDE UNLIMITED

ONE DOWNLOAD, ONE **REGISTRATION, ONE**

INTUITIVE. FUNCTIONAL.

DOCUMENT UPLOAD & UNLIMITED ACCESS TO ILTIPLE VEHICLES &





DOWNLOAD THE APP ONCE

REGISTER ONCE





VALIDATE ID & DRIVING LICENCE ONCE





100% Daimler take-over



Merger with Hailo



Acquisition of Beat & Clever Taxi



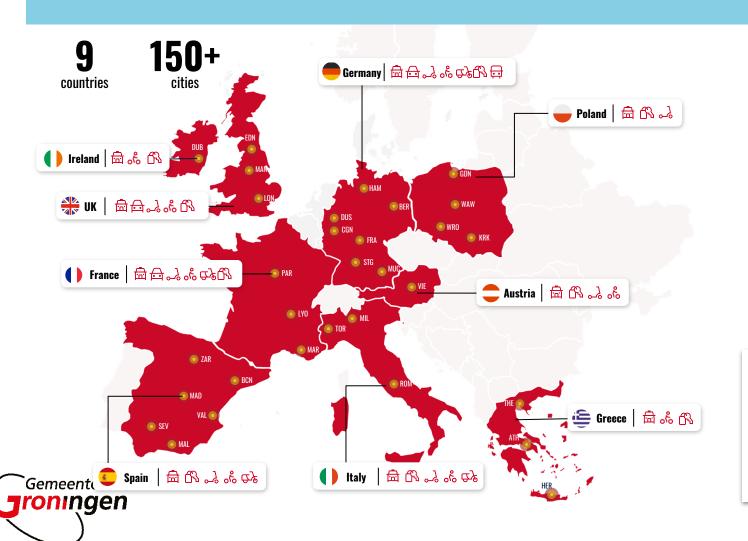
Acquisition of Kapten & Launch Hive scooter



Joint Venture NOW Group & rebranding



OUR BUSINESS IN NUMBERS











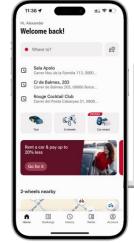




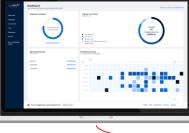


FREENUW is an interconnected collaborative ecosystem

FREENOW Passenger App



FREENOW Web Booker





Private users **Business travellers** Travel managers 3rd party users

Gemeente

roningen



API



3rd-Party App (ex. Ryanair)

















FREENOW collaborates closely with cities and policy makers

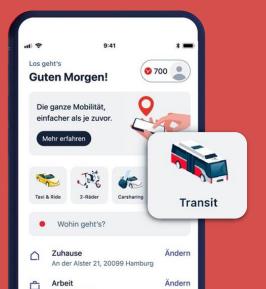
PUBLIC TRANSPORT IN FREENOW

FREENOW offers public transportation tickets directly in our app to give our users the easiest access to trains, buses, metros and trams.

+156% YOY increase in tickets sold

By giving users more options to choose from, our goal is to increase the use of public transportation.



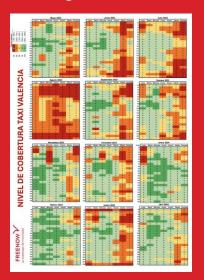


DATA SHARING WITH CITIES

FREENOW engages with cities by sharing data regarding traffic flow, peak usage times, and areas with high demand for transport services.

This information can inform infrastructure development, optimise transit routes, and improve traffic management.

This coverage heat map shows taxi or multimodal demand in specific areas or during certain timeframes to help justify the need for improvements, such improvements, such as increasing the frequency of public public transport or adding more taxi lanes.



INTEGRATING WITH PUBLIC MAAS

FREENOW offers its taxi services to public MaaS platforms to facilitate urban mobility and strengthen public transportation by improving the value proposition to the users.

We recently launched a pilot with the Transport Consortium of Madrid to give their users access to our taxi supply in the capital.









A best-in-class App is key to provide easy access to tickets

BEST USER EXPERIENCE

FREENOW invests a lot of time and resources into optimizing the user experience (UX), so that the access to tickets is more intuitive and frictionless.



INTERNATIONAL SCOPE

FREENOW users are always on the move and can use the app when they travel to other countries. They know where to find their mobility options when they're abroad.







