

# Plattform Urbane Mobilität (PUM)

## Urban mobility platform Objectives & roadmaps

Cities for Mobility Congress Stuttgart 2023



# Sometimes a little idea makes a big impact

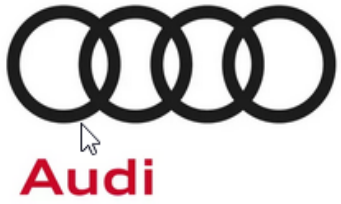
**German  
automotive  
industry**

**786.000  
employed**



**9 German  
Cities**

**8,1 Mio.  
inhabitants**



**BMW  
GROUP**



Mercedes-Benz

**PUM**

Plenary Meetings

Expert Groups

Strategic Papers

**Vision and  
Roadmaps  
toward climate-  
neutral mobility  
in cities (2023)**



**Nutzfahrzeuge**



# The objectives illustrate urban mobility from the point of view of the PUM



The visions for the year 2035 illustrate the ideas and objectives of the PUM for the future design of sustainable, urban mobility. These visions have been divided into five different spatial categories, since a wide variety of requirements apply to mobility depending on the city district. Viewed in combination, the objectives represent an exemplary German city for which there **are comprehensive goals across all districts**, such as:



## Climate-neutrality

- Climate neutrality throughout the city as a overriding goal
- 100% Regenerative energy generation and use
- 100% electro-driven vehicles
- Bike expressways, incl. Bike & Rail



## Space efficiency through new offers

- Efficient use of space and use of space through digitization
- More efficient, convenient public transport with the promotion of mobility sharing
- 100% connectivity between all mobility offers



## Traffic safety

- Accessibility in public space
- Autonomous vehicles in public areas
- Vision Zero in traffic

# Content overview: Achievement of objectives operationalized through roadmaps

## Objectives by 2035



Central city/city center

Mixed use districts

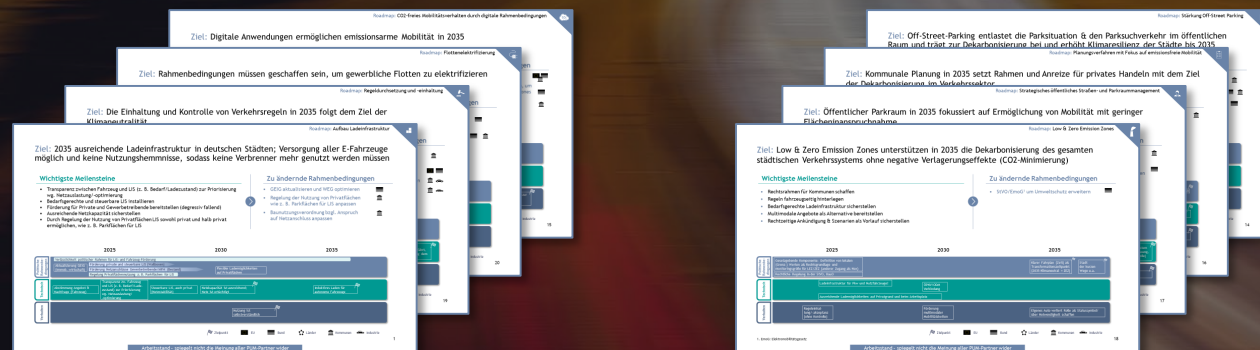
Residential areas with multi-story housing

Suburban residential areas (terraced houses)

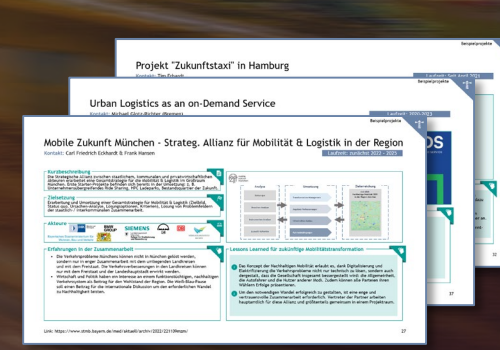
Industrial parks

## Roadmaps & Most Important Milestones

## Models of cooperation



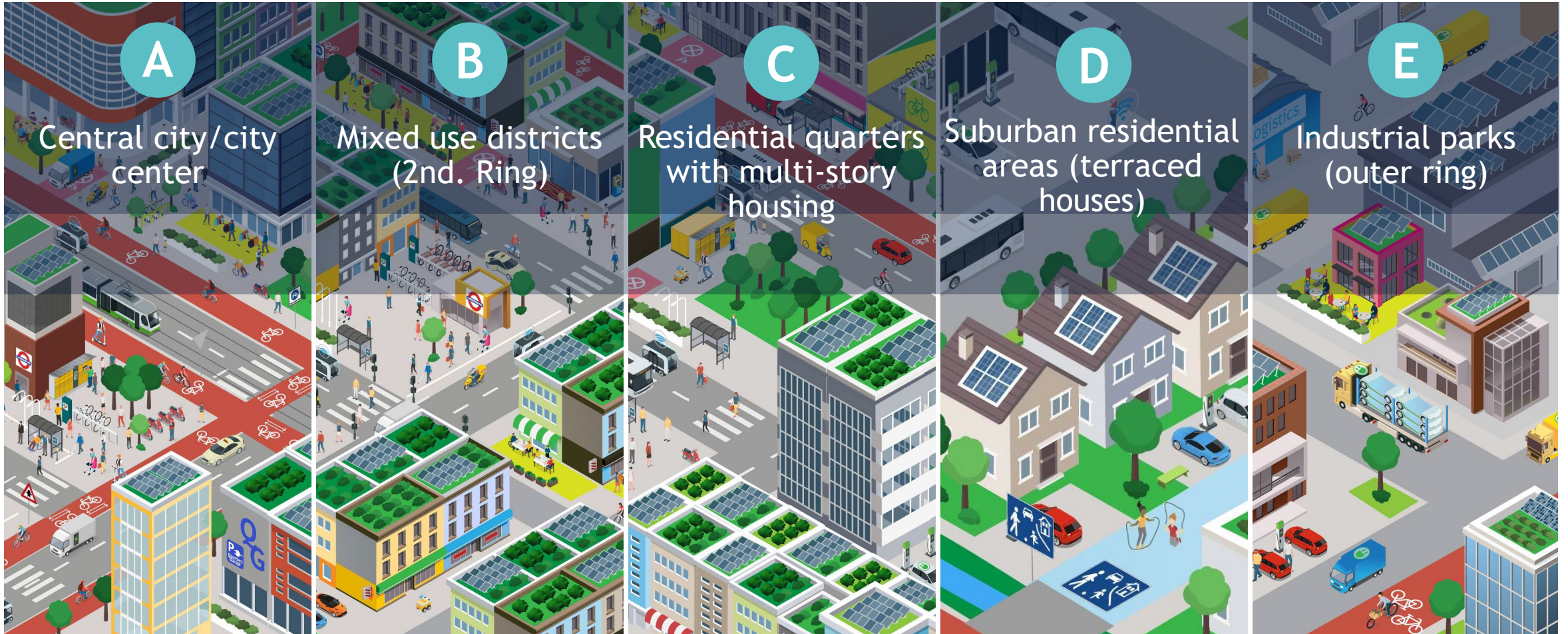
Roadmaps and most important milestones for achieving the objectives by 2035



Models of cooperation as best practice



Objectives have been divided into five different categories, as a wide variety of mobility requirements prevail, depending on the city district





# A Central city/city center

In the core city of 2035, vehicles on the road are fully electrical. The public space is mainly used for recreation, gastronomy and the community. The focus is on walking and cycling. Due to digital booking, delivery and parking take up only a small amount of space, there are no longer any usage conflicts. Underground parking and the use of the parking garage stock for charging electric vehicles makes this district an encounter area instead of a parking space.

Street space is digitally organized (incl. commercial traffic and space for regular services)

Dedicated delivery zones marked

Plenty space for walking and cycling

Public transport is organized autonomously and supported by ODM<sup>2</sup>

Storage areas for E-sharing scooters are regulated

Wheel parking systems (Also roofed)

Mobility & logistics are 100% electric

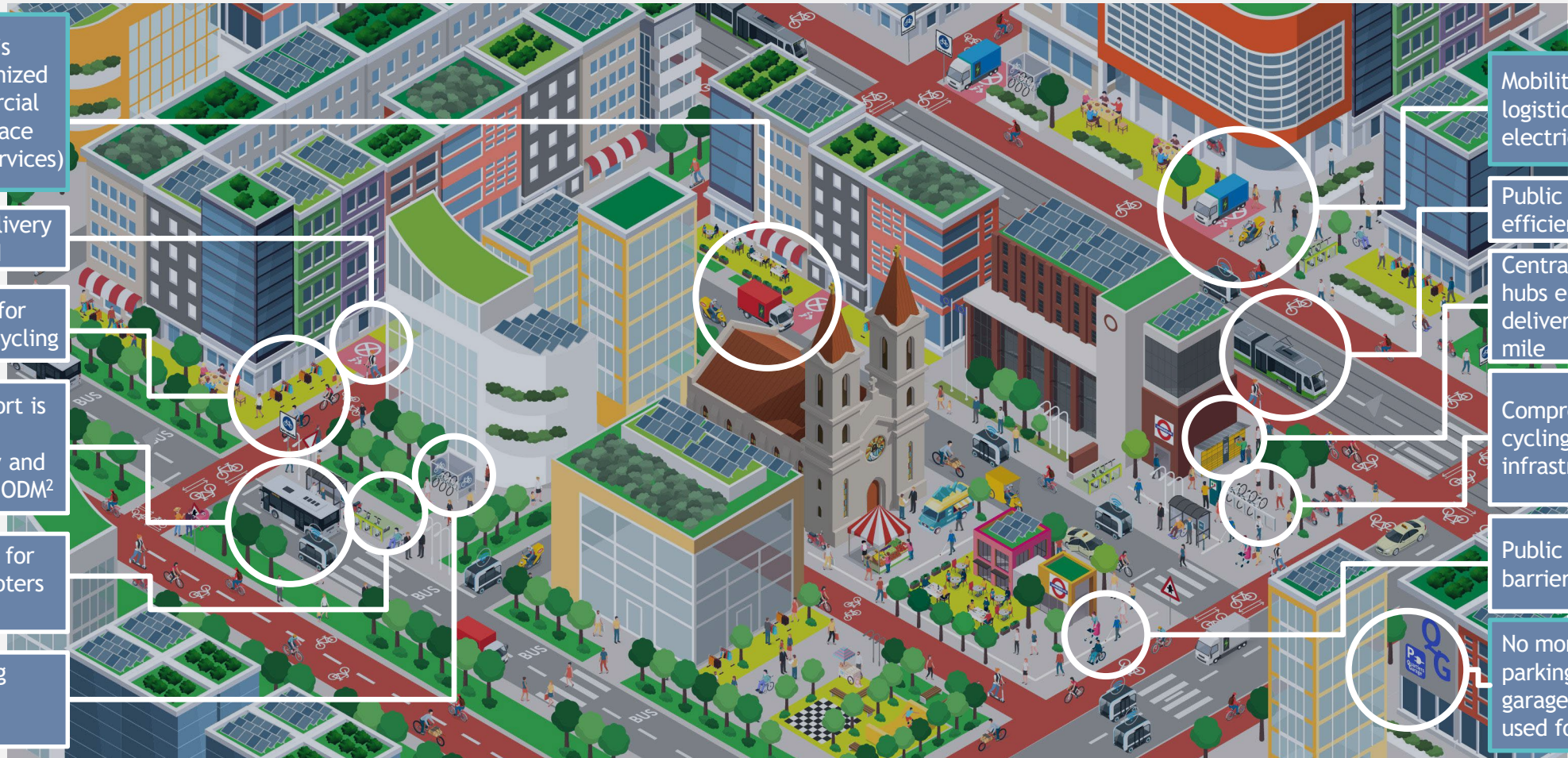
Public transport is efficient

Central logistics hubs enable delivery on the last mile

Comprehensive cycling infrastructure

Public space is barrier-free

No more terrestrial parking, parking garage inventory used for charging





# B Mixed use districts (2<sup>nd</sup> ring)

The mixed use district in 2035 will be a livable district of short distances. It is characterized above all by the gain of additional areas: The construction of centralized garages for residents leads to a new way of use by residents and commuters. Mobility hubs with sharing offers enable comfortable mobility - also for travelling to other districts.

Examples: Berlin-Prenzlauer Berg, Cologne-Ehrenfeld

District is characterized by short distances

Coworking spaces are available locally (i.e. outside the city)

Additional space is gained by converting private parking lots

Loading and unloading zones are marked separately

Green and water management allows sustainable area design

Dynamic pricing of parking and charging in public space

Parking spaces for cargo bikes and bike sharing enable green mobility

Indoor garages for commuters & residents: indoor pool parking space

Customized mobility hubs and shared mobility ensure a good connection

Public transport has high frequency and is easily accessible

Parking spaces are converted into green areas

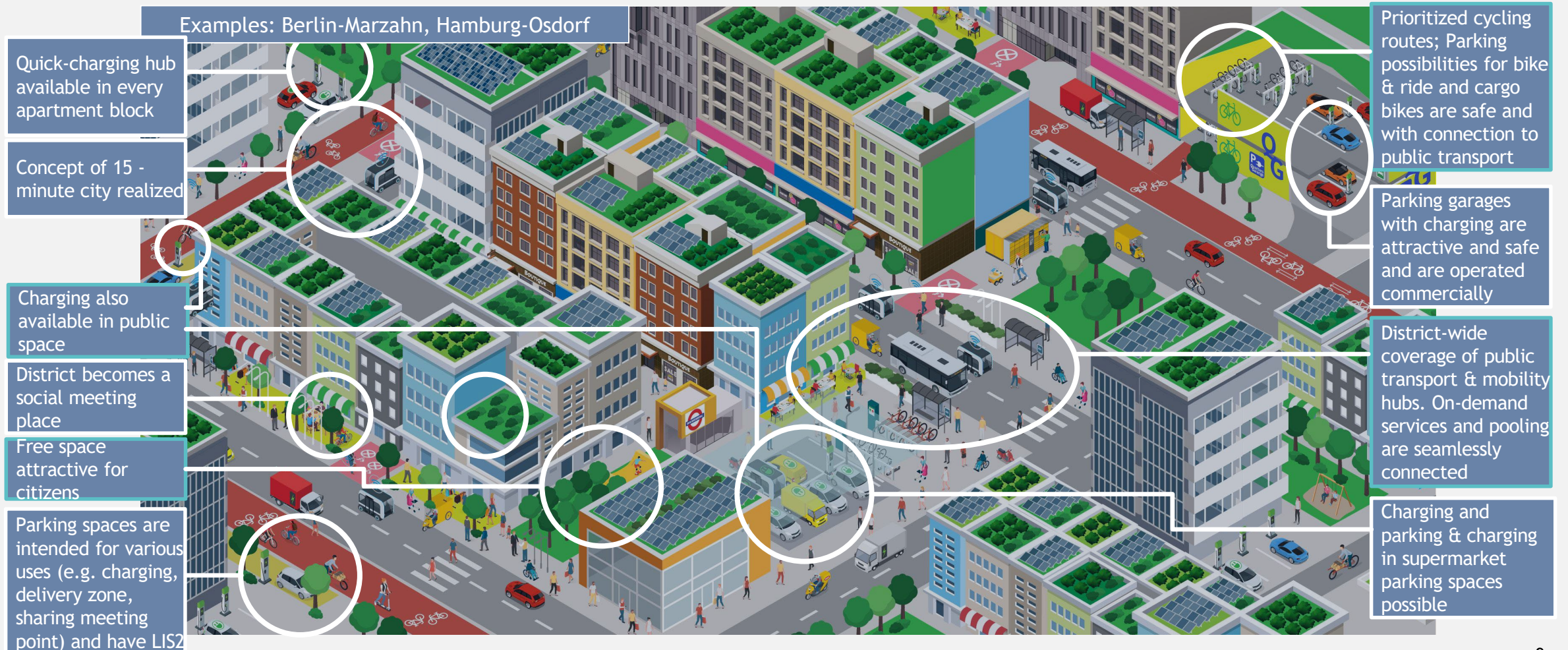






# C Residential areas with multi-story housing

The urban quarters in 2035 enable all sustainable and shared forms of mobility, so that space can be saved. The residential area is therefore characterized by a dense charging infrastructure, which is available both in the residential blocks and in public places. At the same time, alternative means of transport are available through prioritized cycling routes, mobility hubs and a dense public transport network. The attractively designed open spaces promote social life.





# D Suburban residential areas (terraced houses)

The suburban residential quarters in 2035 provide a good mix of urban offers and open spaces for the production of renewable energies. They have a seamless public transport connection and at the same time a high e-car density. For this purpose, private individuals generate green energy in private areas and thus ensure the required charging infrastructure. At the same time, last mile delivery is made possible by decentralized logistics hubs. The municipality creates incentives for renewable energy production and shared mobility.

Examples: Düsseldorf-Heerdt, Berlin-Mariendorf

Renewable energies are generated locally

Municipality creates framework for self-organized district mobility

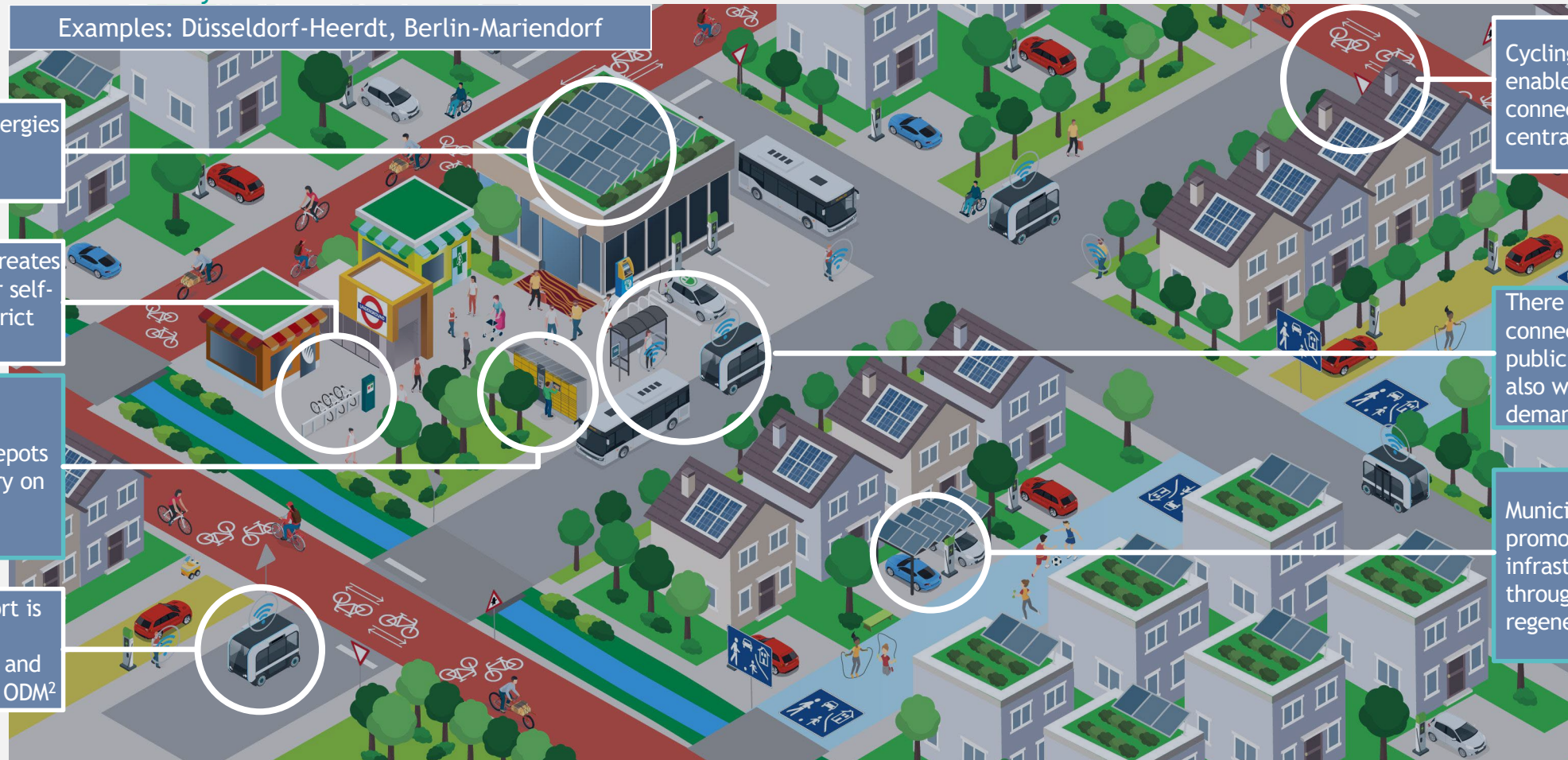
Decentralized hubs/micro-depots enable delivery on the last mile

Public transport is organized autonomously and supported by ODM<sup>2</sup>

Cycling highways enable fast connection to central districts

There is a seamless connection to public transport, also with on-demand offers

Municipality promotes charging infrastructure through regenerative energy





# E Industrial parks (outer ring)

The industrial parks optimally connected to public transport in 2035. Freight transport is organized on a sustainable basis, i.e. by rail or by fully electrified fleets. This is made possible by the demand-driven charging infrastructure. Mobility management for employees, e.g. via carpools or joint public transport offers, is organized across all companies. This exploits the maximum synergy effects between the local companies.



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Residential areas with multi-story housing



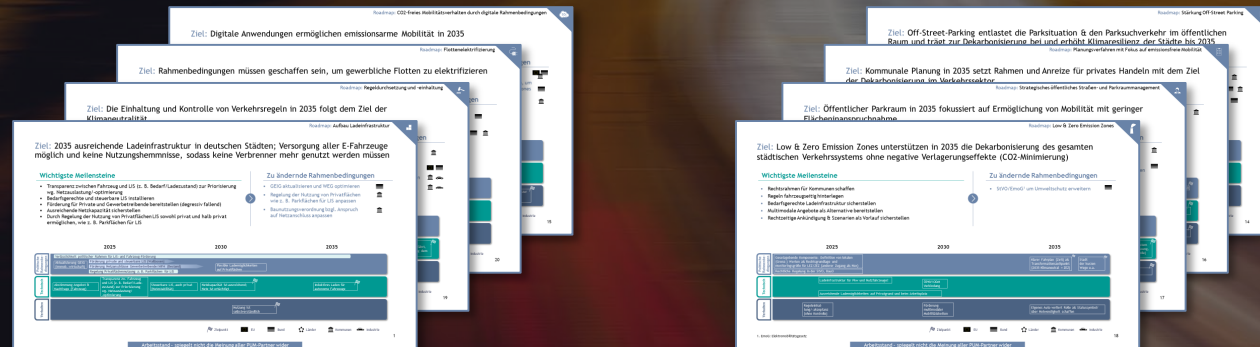
Suburban residential areas (terraced houses)



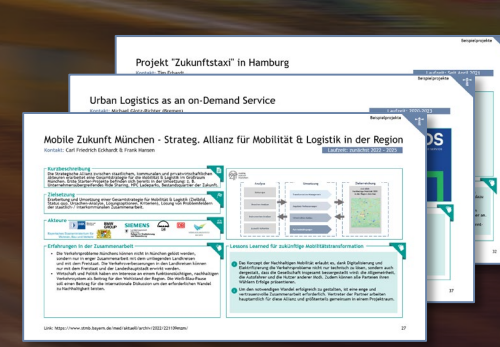
Industrial parks

## Roadmaps & Most Important Milestones

## Models of cooperation



Roadmaps and most important milestones for achieving the objectives by 2035



Models of cooperation as best practice

# Decarbonization of urban mobility: Parallel procedure for vision and measures roadmap

PUM measures roadmaps  
and visualization of objectives

Identification of gaps  
and requirements

Positioning of the PUM in Federal and State Policy  
and the public, including visions

Measures roadmaps  
"Our path to CO<sub>2</sub>-free urban mobility"

**Roadmap:** Design of charging infrastructure

**Roadmap:** Fleet electrification

**Roadmap:** Strategic public road and parking management

**Roadmap:** Digitization for sustainable mobility behavior

**Roadmap:** Compliance with rules and regulations

**Roadmap:** Strategic private parking management

**Roadmap:** Planning procedure with a focus on emission-free mobility

**Roadmap:** Low & zero emission zones

Objectives  
"Our positive vision of urban mobility in 2035"







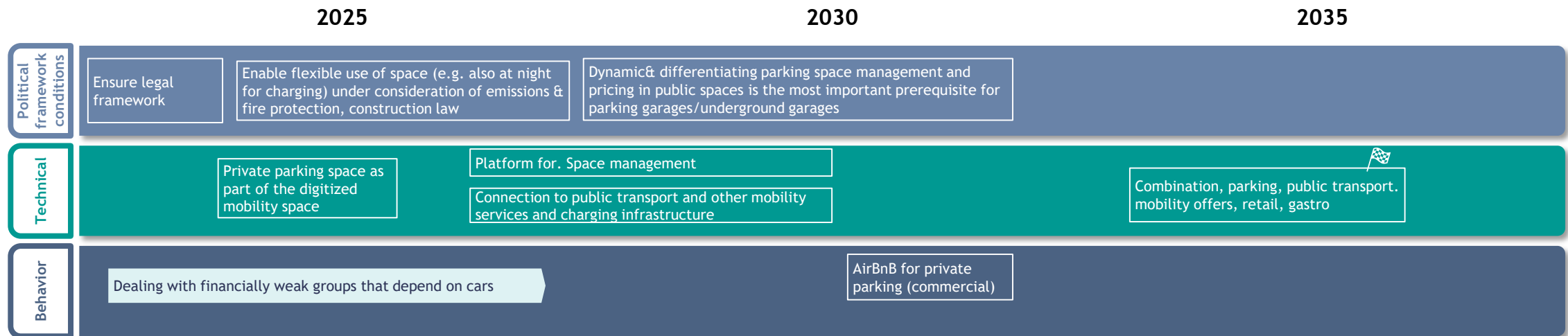
**Objective:** Off-street parking relieves the parking situation & search traffic in public areas and contributes to decarbonization and increases climate resilience in cities by 2035

### Most important milestones

- Introduce dynamic and differentiating pricing, i.e. the price changes depending on the demand-this applies to private and public spaces
- Connection to public transport for easy changeover and other mobility services (e.g. P & R) through digital applications
- Enable flexible use of space on private and commercial premises so that, for example, private individuals can also share/rent out their areas

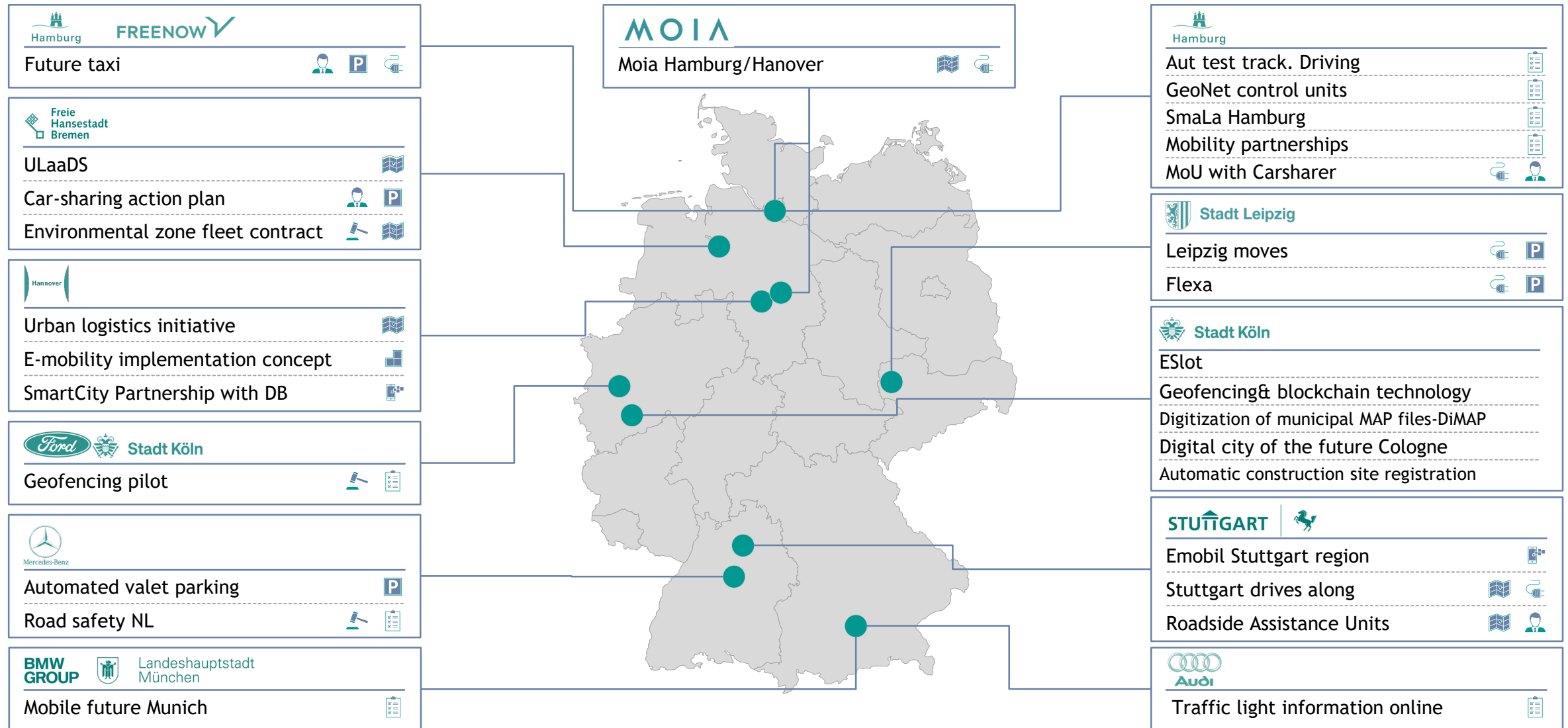
### Framework conditions to be changed

- Modification of development plans via national/federal building regulations 
- Modification of federal laws and regulations  
- Modification of German Traffic Law 





# PUM partner projects offer important insights into mobility transformation



## **Conclusions:**

1. Don't think that different organizations have totally different goals
2. You have to respect differences between political and commercial sector, be open for new points of view
3. Define common positions and targets
4. Establish a good culture and spirit of work
5. Strategy is important, but you have to be visible through common projects



## Elke Piepenbring

**Senior Manager External Affairs Sustainability |  
Mercedes Benz Group | Germany**

Elke Piepenbring is an experienced communicator in the field of sustainability, circular economy and change management. As External Affairs expert for Mercedes Benz Group she is deeply engaged in a wide range of topics related to the future of urban mobility. Elke has more than 15 years of experience in the automobile industry and is particularly passionate about initiating sustainable projects and new partnerships.

Contact: [elke.piepenbring@mercedes-benz.com](mailto:elke.piepenbring@mercedes-benz.com)



## Wolfgang Forderer

**Head of Urban Mobility Department | City of Stuttgart |  
Germany**

Wolfgang Forderer leads the department for urban mobility which is part of a strategic unit for Climate, Mobility and Housing directly assigned to the Mayor of Stuttgart. He is coordinating the overall strategy as well as the activities of the municipal departments. By working for the European Commission, Wolfgang created the European-Latin American Network „Control of urban Mobility“ which was the nucleus of Cities for Mobility. For six years, he was the manager of the Urban Mobility Committee of UCLG and was also involved in many European and national projects, As Wolfgang does most of his daily trips by walking, his heart beats for the recognition of walking as an important mode of transport.

Contact: [wolfgang.forderer@stuttgart.de](mailto:wolfgang.forderer@stuttgart.de)

