

#### **PUBLIC TRANSPORT TRENDS**

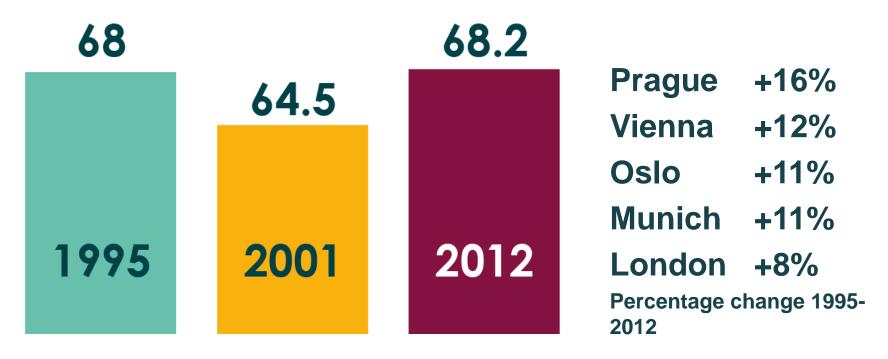
STRATEGY FORUM 10 MARCH 2016

#### **UITP**

- Global network of public transport operators, regulators and suppliers
- 1,300 member organisations in 90 countries
- Supporting excellence and promoting a better policy environment for public transport

## 1. EVOLUTION OF URBAN MOBILITY PATTERNS

#### **GROWTH IN URBAN DENSITY**



Average number of inhabitants per urban hectare in developed cities

#### **EVOLUTION OF MOTORISATION**

London -10%

Geneva -8%

**Delhi** +88%

Beijing +111%

Percentage change 1995-2012



Average number of cars per 1000 inhabitants

#### **GROWTH IN PT SUPPLY**



Average evolution of public transport vehicle x km produced

#### PT MODAL SHARE EVOLUTION

Oslo +61%

Geneva +35%

Stockholm +32%

Singapore +28%

**Vienna** +26%

**Paris** +22%

Budapest -29%

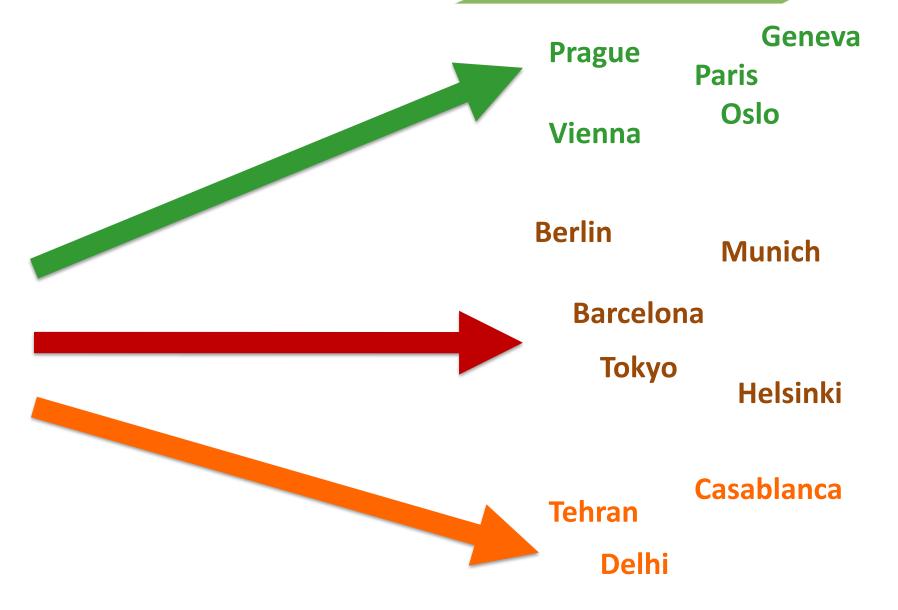
Casablanca -22%

Percentage change 1995-2012



Average share of public transport out of motorised and mechanised trips

#### MODAL SHARE EVOLUTION



#### WE NEED A MIX OF MEASURES

- Increase in public transport supply necessary but not sufficient to improve modal share
- Must be complemented by policies that manage the demand for private vehicle travel, such as parking restrictions or congestion charging
- As well as Integrated urban planning and design aimed at increasing density and reducing urban sprawl

#### **DISCUSSION**

Any question on these trends?

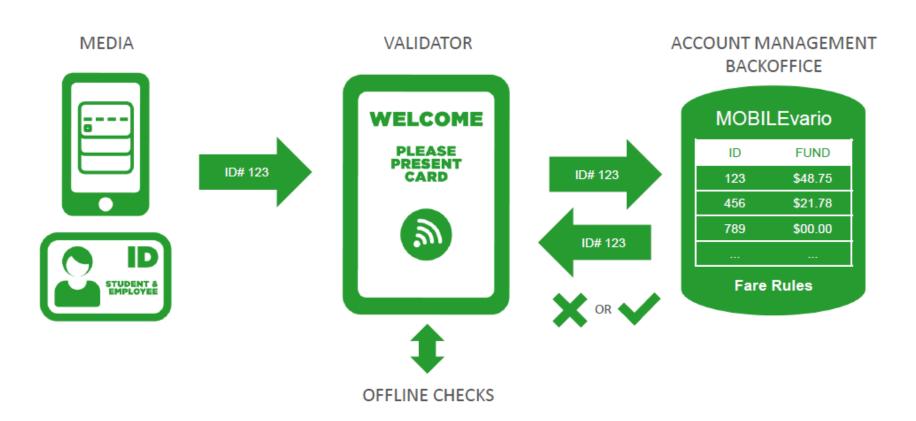
## 2. GLOBAL TRENDS AND IMPACT ON PUBLIC TRANSPORT

## DIGITALISATION: MAKING MOST OF THE DATA

**Case study: Transport for London** 

- Better planning of bus networks (e.g. inferring exit point from next boarding point)
- Enhancing customer experience (e.g. customer segmentation at stations)
- Building trust with users (e.g. automated fare refunds)
- Influencing travel (e.g. provision of recommendations)

## DIGITALISATION: ACCOUNT BASED PAYMENT



Source: INIT

## DECARBONISATION OF URBAN MOBILITY

- Strong trends towards decarbonisation of bus fleets.
- Paris: 100% ecological fleet in region by 2025 consisting of buses running solely on electricity and buses using renewable gases.
- Zeeus project: Innovative electric bus technologies and charging infrastructure solutions in 10 demonstration sites.

#### PUBLIC TRANSPORT FUNDING

- Rising demand and renewal of existing assets vs. public budget constraints.
- Fare often used as adjustment variable.
- Innovative use of **assets** by operators to generate additional funding.
- Acknowledgement of indirect benefits and location value capture
- Limited role of private sector in funding and financing.

## RESTRUCTURATION OF PUBLIC TRANSPORT MARKET

- Emergence of large transnational passenger transport operators in several markets, with varying maturities and opportunities.
- Liberalisation encouraged new entrants to develop a mix of improved service quality and better price.
- Several non-European players have entered the global market, including in Europe.
- Since 2013, the market has undergone further developments which may lead to disruptive evolution in the coming years.

#### **EMPLOYER BRANDING**

- In order to attract and retain talented employees, public transports operators seek to build a strong employer brand and a unique Employer Value Proposition.
- Employer branding is the identity-based development and positioning of a company as a credible and attractive employer

#### DISCUSSION

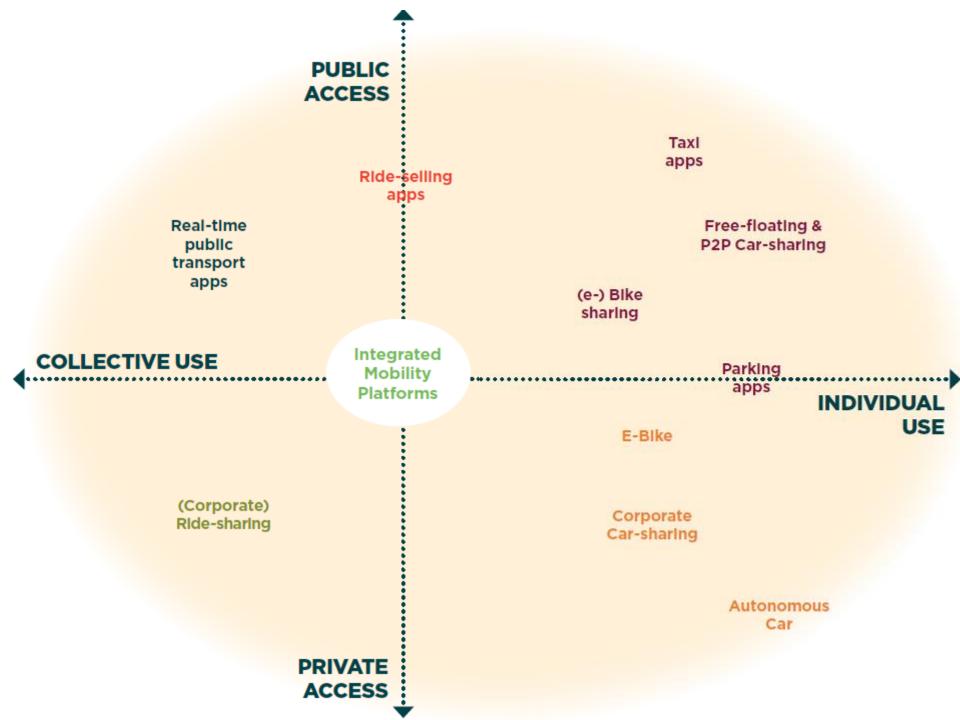
- Digitalisation
- Decarbonisation
- Alternative funding
- Incentives / share of risks
- Employer branding

# 3. DIGITAL TRANSFORMATION OF THE URBAN MOBILITY LANDSCAPE

NEW SERVICES, NEW PLAYERS, NEW





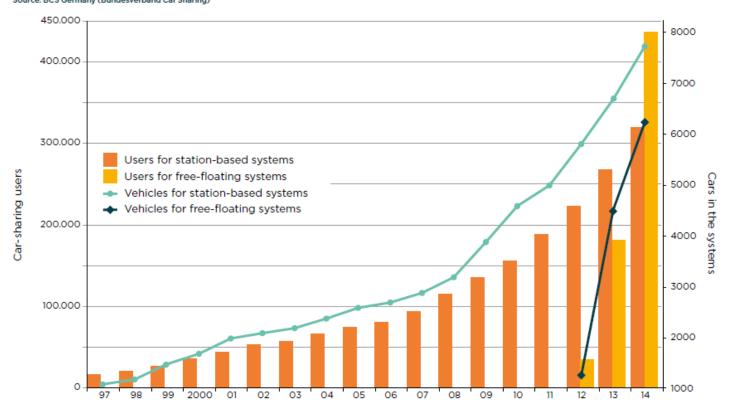




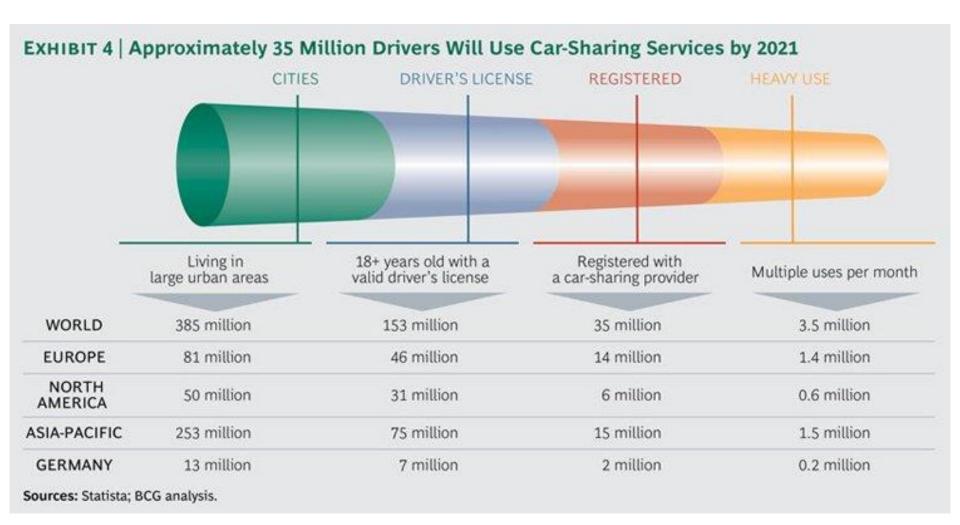
and public transport: an evolving interaction

"One car-sharing car replaces up to 12 privately owned cars."

FIGURE 7: CAR-SHARING DEVELOPMENT IN GERMANY IN THE LAST YEARS Source: BCS Germany (Bundesverband Car Sharing)



#### CAR SHARING TRENDS



#### MOBILITY PLATFORMS

84 out of the 86 public transport companies worldwide surveyed by UITP in 2014 see combined mobility as an opportunity for their organisation.

One-stop-mobility
shops or integrated
mobility platforms are
emerging, bringing
convenience, time, and cost savings to

the traveler.

FIGURE 6: MOBILITY BEHAVIOUR CHANGE OBSERVED WITH UBIGO USERS Source: web.viktoria.se/ubigo

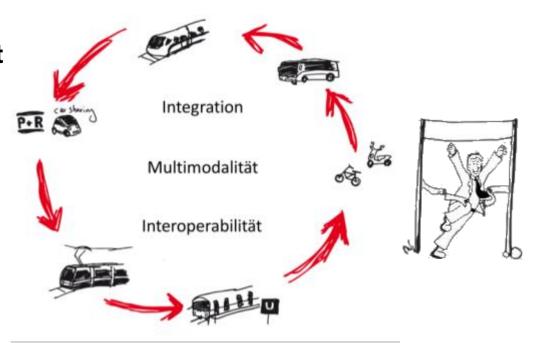


#### PT AS INTEGRATOR: VIENNA

Main goal of project "SMILE" is developing and evaluating a prototype of a multimodal, integrated information-, booking and payment-system ("Integrated Mobility Platform") which connects private and public transport in a smart and efficient way.

#### **Personal Mobility Assistent**

- + info
  - + key
    - + entry
      - + ticket
        - + assistance
          - + clearing
            - + bill



#### PROJECT UBIGO GÖTEBORG

### UbiGo

70 households in Gothenburg subscribing to a fully integrated mobility service called UbiGo.

The service combines Public Transport, car-sharing, rental car service, taxi and a bicycle system, all in one app and all usage on one invoice every month.





#### **DISCUSSION**

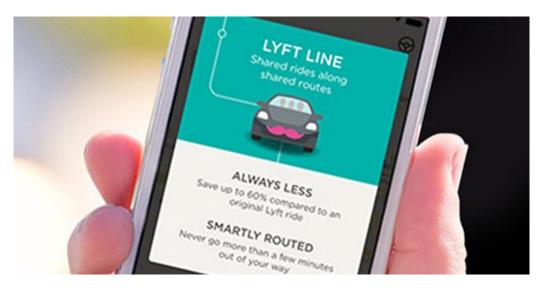
Opportunity or threat for PT?

## 4. EMERGING TRENDS IN URBAN MOBILITY

#### **ON-DEMAND BUSES**







#### SHARING AUTONOMOUS VEHICLES







#### **DISCUSSION**

- Reorganisation of bus network design?
- Joint ventures with app-based on-demand service providers?
- Profiling public transport as natural manager of autonomous vehicle fleets?