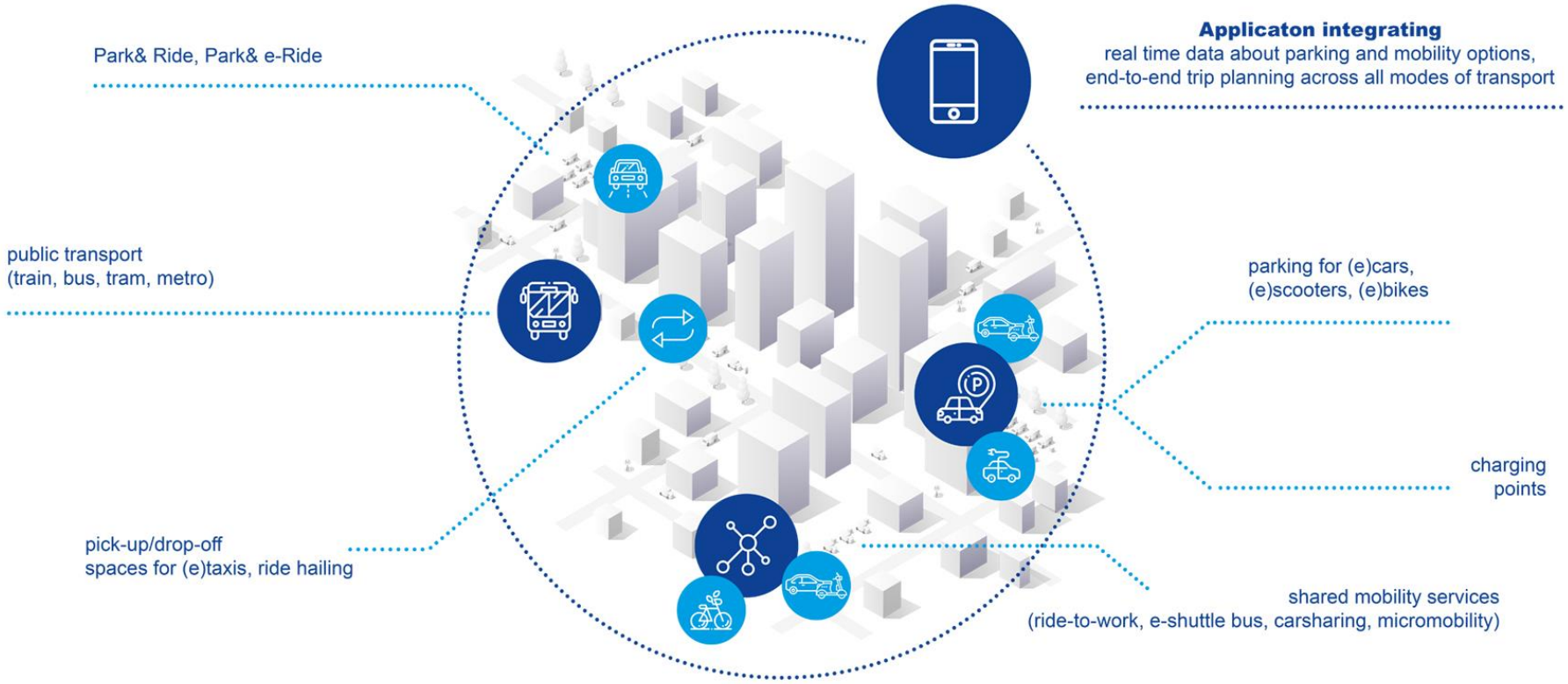
SMART PARKING WORKGROUP

The European Innovation Partnership on Smart Cities and Communities

The New Mobility Services

Smart Parking in New Mobility Services Ecosystem

An enabler of multimodal, interconnected mobility through cross-integration with mobility services and shared data



Positively promoting parking solutions for sustainable mobility

Parking is more than just a physical space

SMART PARKING services are Key to create **CLEAN URBAN MOBILITY** and **ATTRACTIVE CITY CENTRE**

Smart Parking tools are easily available to use the existing urban infrastructure in a more efficient way

There is no « one size fits » all solution, but depend on the different characteristices and challenges of Cities.

EUROPEAN UNION 28 STATES

POPULATION :
1.1.2019 – over 513 million

800 cities with population + 50.000 inhabitants

Almost **700** are with population 50.000 to 250.000 inhabitants

58 cities with population over 500.000 inhabitants (source: EU)

TODAY SMART PARKING IS ENABLED BY DIGITALIZATION

- ✓ Licence plate recognition
- ✓ Dynamic pricing
- ✓ Multichannel payments
- ✓ PaaS
- ✓ Supporting new mobility modes
- ✓ Dynamic multi use of space
- ✓ Data Driven - APDS

THE PARKING INDUSTRY CAN CONTRIBUTE WITH 4 KEY SOLUTIONS TO SUSTAINABLE URBAN MOBILITY

1. POLLUTION AND CONGESTION REDUCTION – DECARBONIZATION

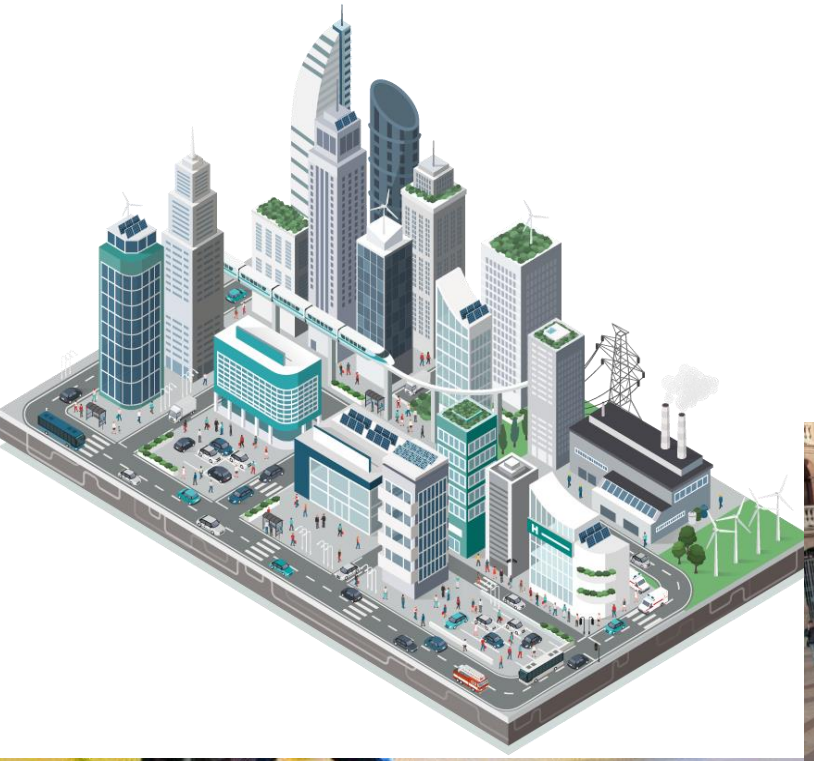
2. SUSTAINABLE MOBILITY

3. PUBLIC AND PRIVATE SPACE ALLOCATION

4. CITY CENTRE ATTRACTIVENESS

REDUCING POLLUTION AND CONGESTION

- ✓ Inducing behavioural change
- ✓ Dynamic tariffs per category
- ✓ EV charging points
- ✓ Demand based fees
- ✓ Real time directional guidance



SUSTAINABLE MOBILITY

- ✓ Smart Parking is an enabler
- ✓ Urban Mobility Hubs
- ✓ Data driven for Maas and Paas
- ✓ Transition management

URBAN PUBLIC AND PRIVATE SPACE ALLOCATION

- ✓ Off street parking locations are in key areas
- ✓ Reallocate public urban spaces for shared use not only for car parking but for new mobility, pedestrian zones, bike lanes and logistic areas for last mile delivery
- ✓ Improve the quality of public space adapting to new requirements
- ✓ New space occupancy fees and management

CITY CENTER ATTRACTIVNESS

- ✓ **No single mobility solution fits all**
- ✓ **Promotion of different mobility solutions**
- ✓ **Differentiated parking tariffs and access rules**
- ✓ **User type variables**

Green For Grey

- Smart Parking as a part of a more integrated city development to improve accessibility of POI”s and improve liveability for city citizins
- More efficient use of existing infrastructure, opening up private parkings instead of building new car parks in combination with the reduction of on street parking capacities
- Parking revenue allocated for improvements in public transit, bike lanes, green and more walkable streets, parklets
- Boost for deployment of MaaS, shared mobility, e-mobility, mobility hubs (including AVs serving micro-warehouses) as connectors for all possible forms of low-carbon distribution

A People approach

- Focus on PEOPLE : commuters, intracity dailytravellers, business travellers, leisure travellers
- Easy Customer Experience: the role of Smart Parking as an infrastructural and digital link between interconnected Smart Mobility eco system
- Liveability: limiting emissions by shortening the time spent on searching for parking, Mobility-as-a-Service enhancement, enablement of electromobility transition (EV parking)
- Working together: complementarity with the objectives of the other NMS workgroups.

Cross Overs other NMS groups e.g.

- – traffic management (informing customers where to park);
- - urban freight/ urban logistics (curb side management/mobility hubs)
- – walking/cycling lanes (road capacity)
- - first and last mile (Mobility hubs)
- - governance – system-level collaboration between all stakeholders of the mobility eco system

Network – Cooperation e.g.

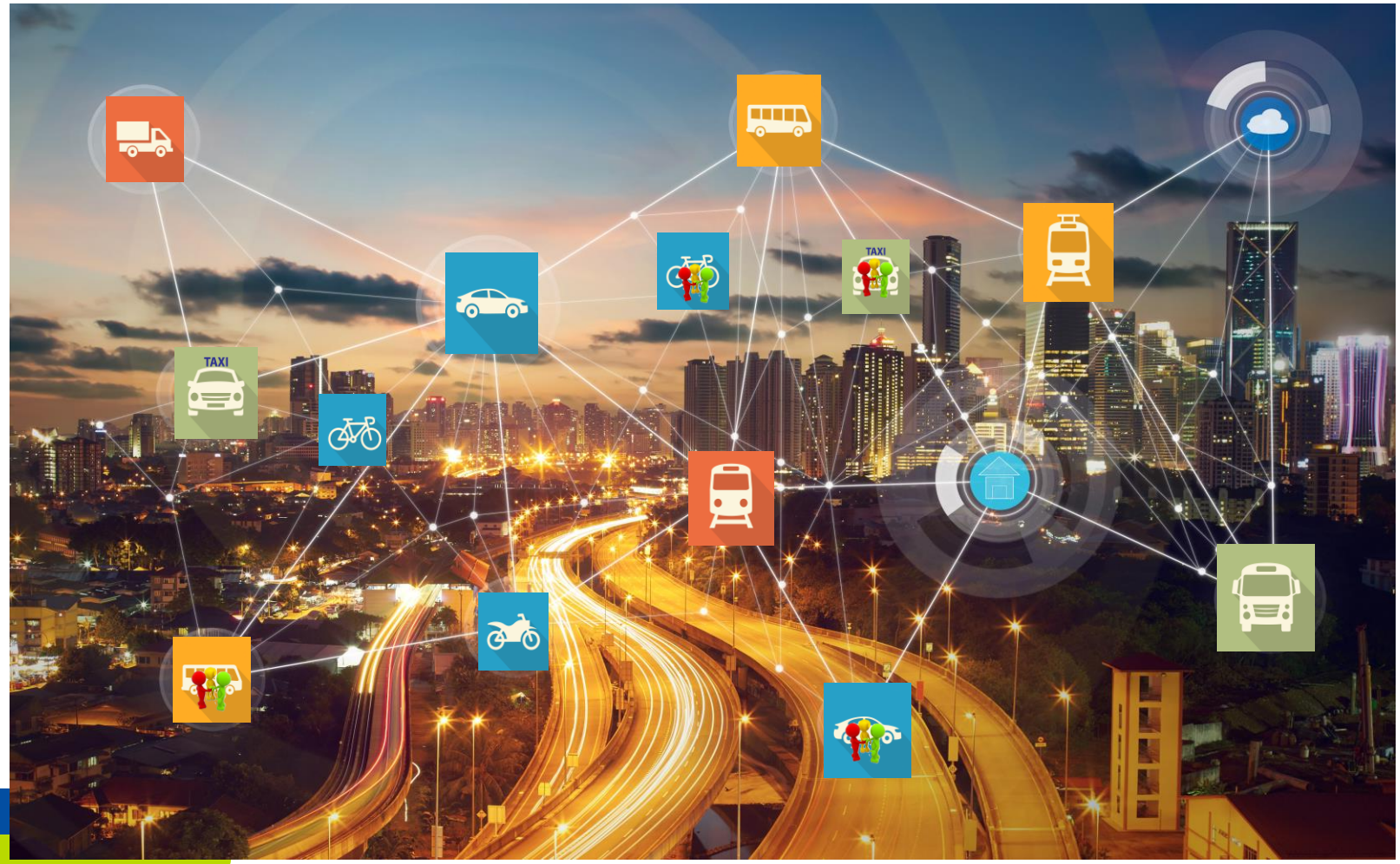
* APDS (Alliance Parking Data Standards/ DATEXII-ITS)
* Traffic Solutions (Ertico)
* Park4SUMP (Polis/Civitas)
* Urban Logistics (Freight Leaders Council)
* Cyclists Federation

Proposals (conditional)

- People Oriented – looking for workable better experiences
- Based on system-level collaboration between all stakeholders in the mobility eco system
- Connectivity – Networks – Data standards – Content

Proposals (2)

- 1. Traffic Management – Navigation – Mobility Hubs (P & R, P & W): informing the traveller to reduce searching traffic
- 2. Shared Use Mobility Zones – Curbside management – re organising road capacity – Park4Sump: more efficient deliveries and public space back to the citizins
- 3. People Movers – walking – cycling – (semi) autonomous vehicles (public & private) conditional for an inclusive society (including disabled, elderly people and young families with children)

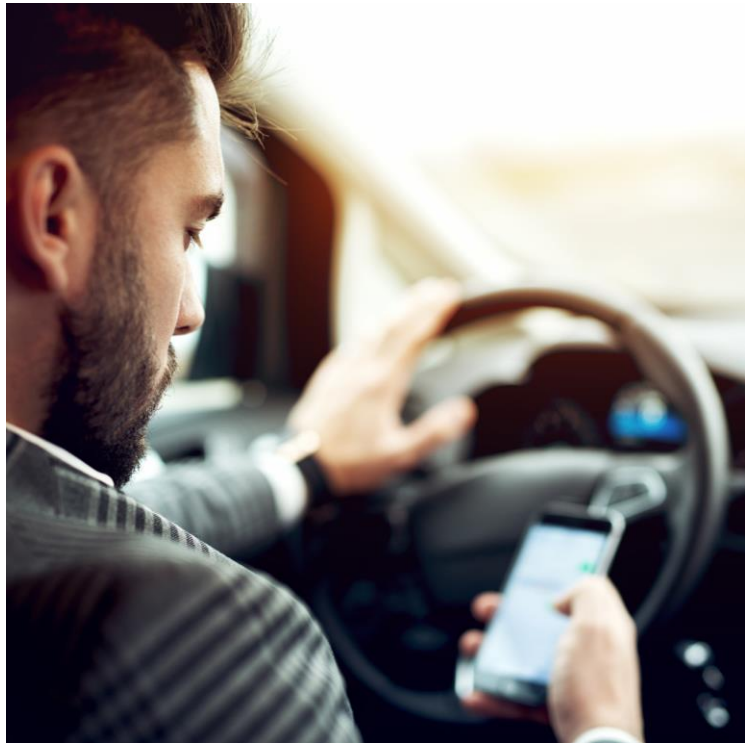


BARCELONA
A BEST PRACTICE

- ✓ Integrated “curbside management” and urban mobility system
- ✓ Overall daily mobility demand: 6 to over 7.000.000 daily trips over the last 20 years
- ✓ Private vehicles decreased from:
  2.6 million to 1,2 million

https://park4sump.eu/resources-tools/pushpull-tools

Driving New Mobility Services Ecosystem



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