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- EPA will be celebrating 39 years of activity;
- Holding the 20th International Congress and Exhibition in Brussels;
- We are expecting more than 500 delegates from over 30 countries worldwide;
- An exhibition area with over 70 exhibitors;
- A top level 3 Day Scientific Program prepared by the interdisciplinary STC.

Old versus new mobility paradigm

- On street parking → Curb side management

- Off street parking → Urban Mobility Hubs

- Physical parking spaces → Mobility services

- Parking locations → Integrated urban management/Mobility eco system

Move from a problem (parking cars)
to
an urban mobility solution contributor

Shared mobility: Mobility Models (Ownership towards Usage)

Traditional models

New mobility models

Car ownership

Mass Transit

Taxi / Car leasing

Train

Micro mobility

E-Bike

E-Scooter

Ride Hailing

Single Occupant

Ride-Sharing

Car Sharing

P2P Sharing

Dealer-backed sharing
OEM Backed sharing

Commercial Transport

On-demand freight

Packed goods/food

Sustainable Mobility Shifts – in city plans

Left pyramid (top to bottom):
- Pedestrians
- Cyclists
- Public transport
- Privately held passenger cars

Right inverted pyramid (top to bottom):
- Pedestrians and people with reduced mobility
- Cyclists, public transport, city logistics
- Taxis, shared mobility
- Cars
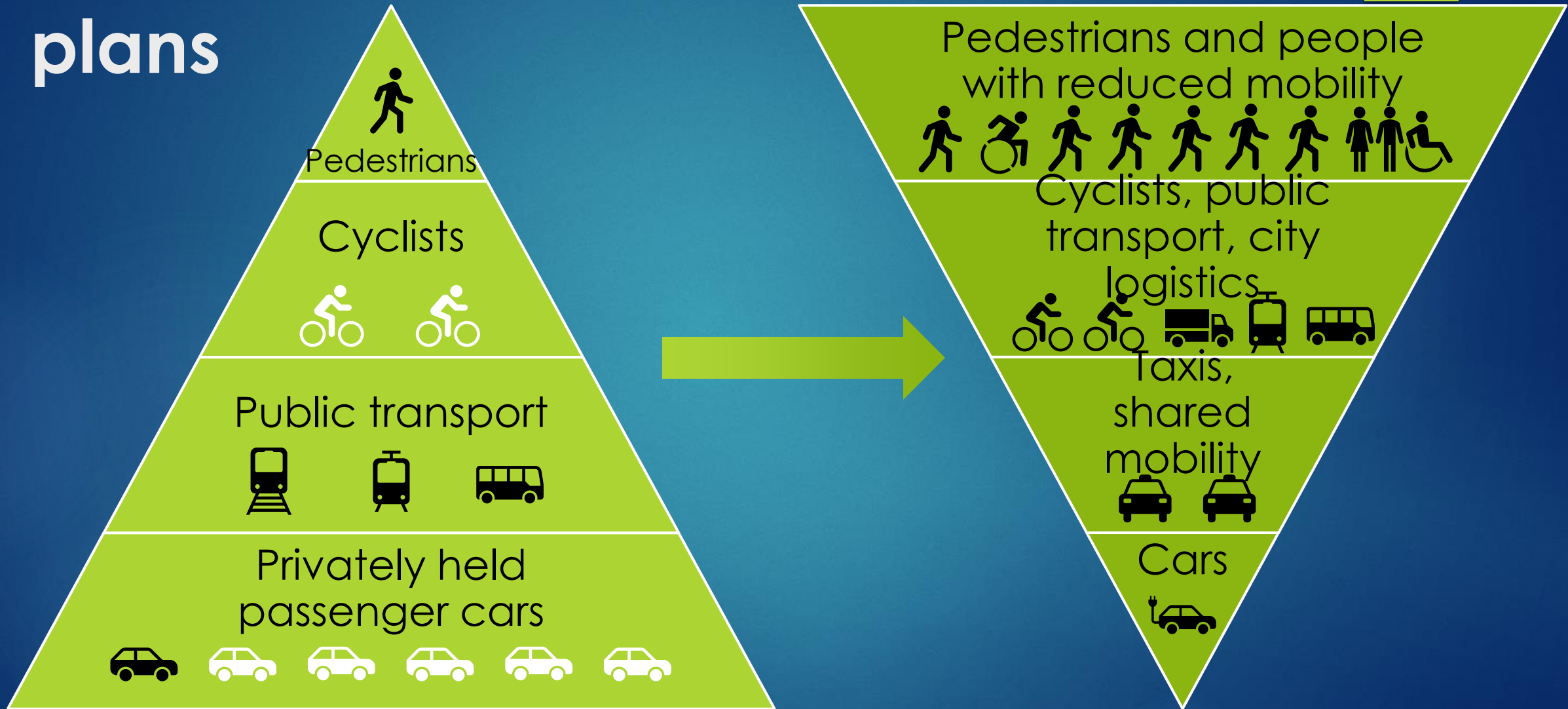
Sustainable Mobility Shifts – impact on parking

Cars on-street

Search traffic

Air pollution

Lorries & Vans

Walking & Cycling

Parks & Squares

Electric vehicles

Public transport

The electric mobility ecosystem

Charging on the go

High-powered fast or super-fast chargers (50kW to 350kW) on forecourts can charge an electric vehicle in between 10 and 30 minutes, depending on the size of the battery.

greenlots   newmotion
Shell Recharge   IONITY

E-Fluids and E-Greases

Our next generation e-mobility lubricant technology "Shell E-Fluids and E-Greases" are designed to meet the needs of electric vehicles. The technical requirements placed on fluids in hybrids and EVs are much greater than they are in ICE vehicles. By designing several dedicated screening methods and through close collaboration with OEMs, these Shell products are engineered for both the latest wet e-motors, as well as dry e-motors that have dominated e-mobility to date.

Shell E-Fluids   Shell E-Greases

Clean Power generation

Turning low-carbon energy sources into electricity to meet the needs of commercial, industrial and residential customers.

Destination, Depot and Hub Charging Solutions

Supporting businesses to provide charging facilities and services for employees, customers and fleets using electric vehicles; providing a reliable base to charge their vehicles.

greenlots   newmotion

Home Charging

Convenient and cost-effective charging solutions and solar energy storage at home.

greenlots   newmotion
sonnen

Shell Recharge

Electric Charging – Smart Parking

Smart charging and V2G will be key to avoid very expensive investments in grid upgrade; either we open up our cities in the next decades and put bigger cables underground, or we use parked cars in a better way...

We want to avoid "green/clean traffic jams" in cities; parking management will be even more important if we want to reduce the number of cars travelling in and around cities
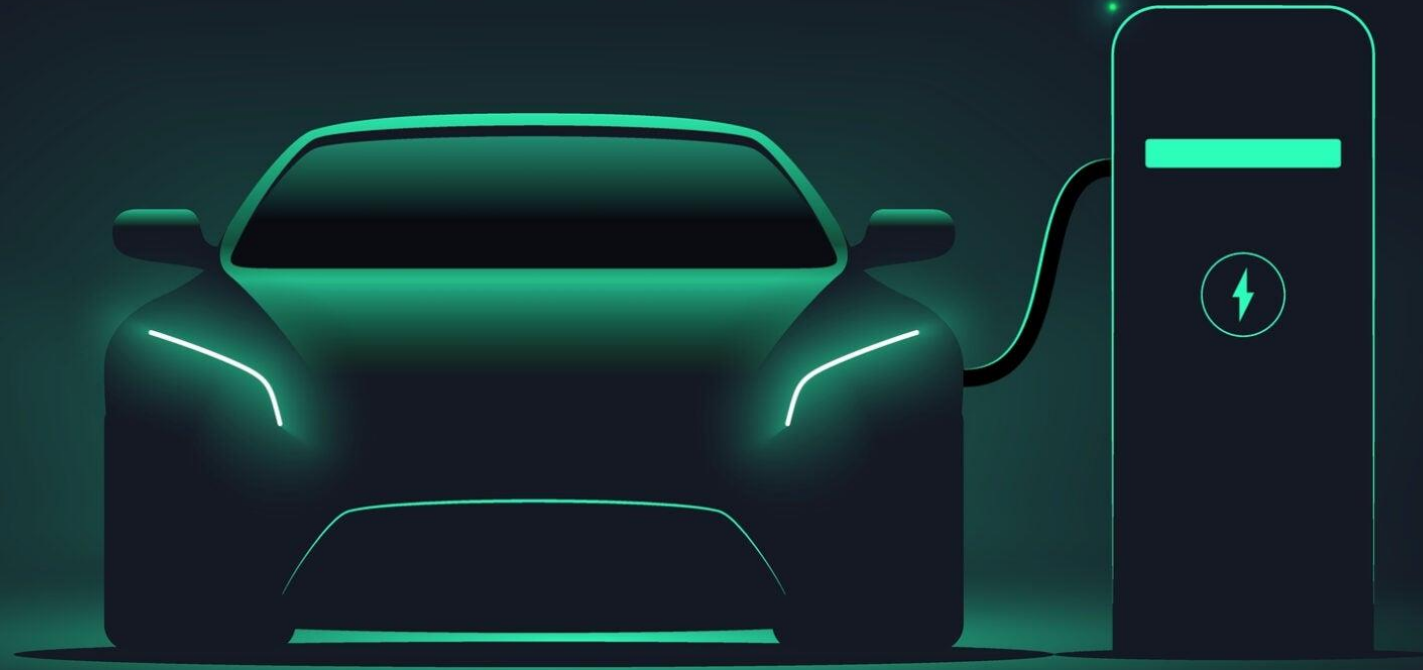
Once cars are clean and the electricity is also clean
(Europe +/-2035-2040), it will be very hard to convince people not to use cars…..
That's why parking management is very important, because through parking we can regulate traffic flows.

City typologies in Europe - differences in modal split between cities

- **Mega cities** : > 2 million inhabitants: London, Paris, Berlin.

- **Public transport is leading, private transport is complementary**

- **Large cities** : 500,000 to 2 million of inhabitants: Brussels, Munich, Barcelona, Lyon, Stockholm, Amsterdam, Warsaw, Prague, Sofia, Manchester, Dublin, Marseille, Dusseldorf, Cologne, Bordeaux, The Hague, Kopenhagen, Oslo, Helsinki, Rotterdam, Beograd, Boedapest, Stuttgart, Vienna

- **Public transport and private transport are looking for new modal splits**

- **Middle sized cities**: 150,000 to 500,000 inhabitants: Aachen, Maastricht, Talinn, Bratislava, Leeds, Cork, Saarbrücken, Dresden, Malmö, Gotenborg, Stavanger, Turku, Uppsala, Gent, Bielefeld, Darmstadt, Groningen, Eindhoven, Breda

- **Private transport is still more important than public transport due to scale**

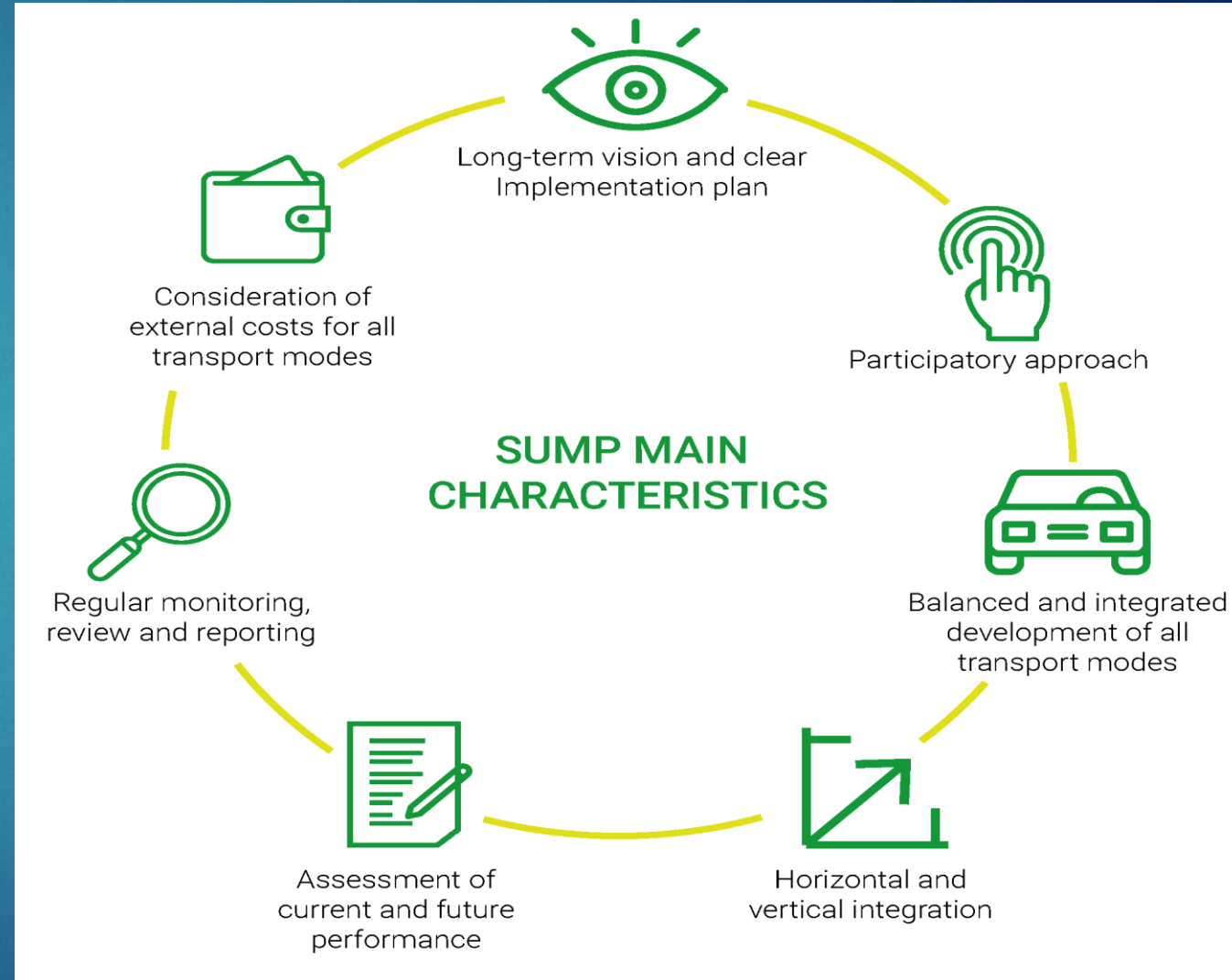# Integrated solutions for dynamic urban management

Urban development and mobility management

All kind of clean vehicles: special attention for bikes

New modal splits

More green in the city

**Parking management on price and enforcement: effective access regulations implemented on the short term**

Long-term vision and clear Implementation plan

Consideration of external costs for all transport modes

Participatory approach

SUMP MAIN CHARACTERISTICS

Regular monitoring, review and reporting

Balanced and integrated development of all transport modes

Assessment of current and future performance

Horizontal and vertical integration

PRACTITIONER BRIEFING

PARKING AND SUSTAINABLE URBAN MOBILITY PLANNING

How to make parking policies more strategic, effective and sustainable

Mobility Hub Concept
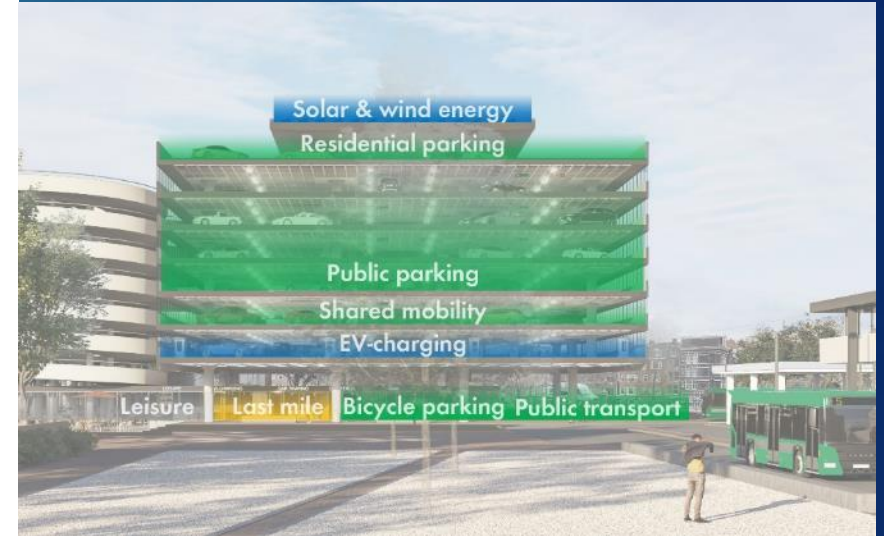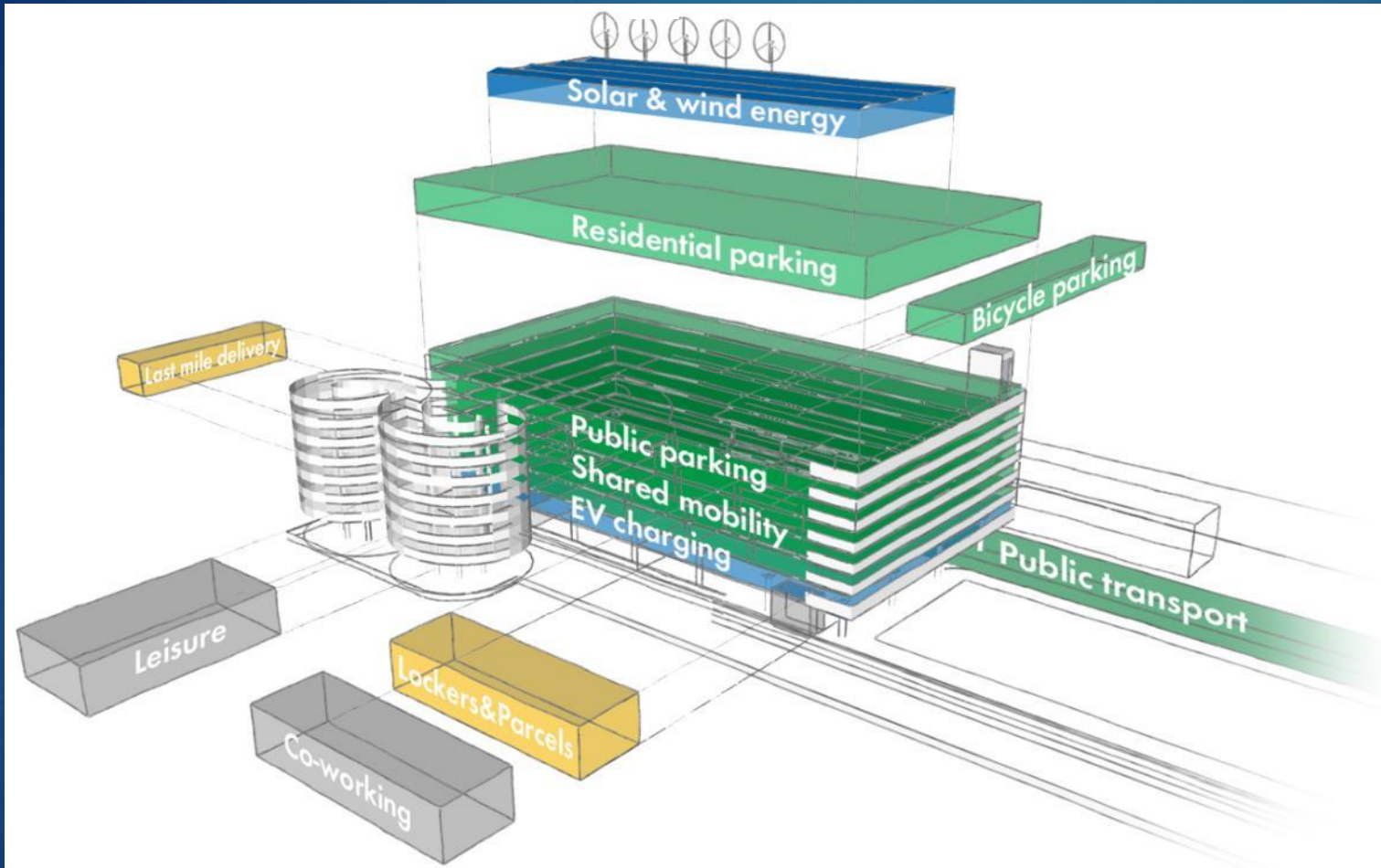
Urban Vehicle Access Regulations will be implemented everywhere in Europe: different access right for different kind of vehicles

Access Management – Parking Management

- **Urban Vehicle Access Regulations will be implemented everywhere in Europe: different access right for different kind of vehicles**

- **Access fees for city zones compared with parking zones in parking facilities**

- **Customer benefits for off street parking in stead of on street parking in pricing and enforcement**

- **Access rights – parking rights -   residence rights**

Zero-emission zones   Spatial interventions   Pricing measures   Future options

City zones with Access fees versus Parking zones with parking fees

Access rights – parking rights

What's the difference?

Managing the Kerb

*Reduction of volumes of people and goods movements

*Less search traffic for people and goods movements and more purpose driven traffic

Managing the Kerb (cont'd)

*Introduction of kerbside management (drop-off / pick-up points, kiss + ride, shared mobility stops) and fair pricing of usage of different customer groups

*Priority for residents (e.g. only 1 permit, restrictions on extensions and fair pricing)

Parking street
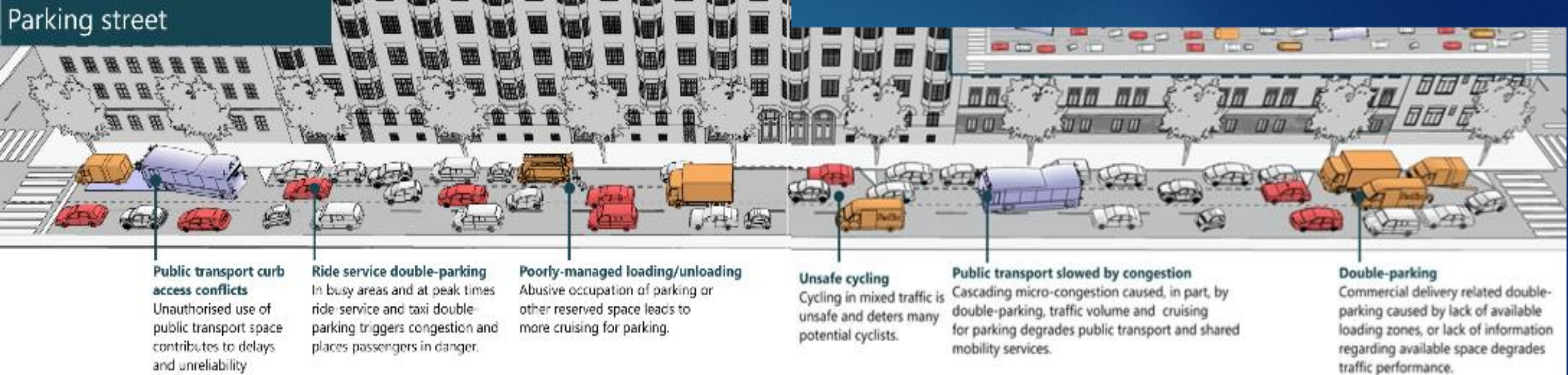
Public transport curb access conflicts
Unauthorised use of public transport space contributes to delays and unreliability

Ride service double-parking
In busy areas and at peak times ride service and taxi double-parking triggers congestion and places passengers in danger.

Poorly-managed loading/unloading
Abusive occupation of parking or other reserved space leads to more cruising for parking.

Unsafe cycling
Cycling in mixed traffic is unsafe and deters many potential cyclists.

Public transport slowed by congestion
Cascading micro-congestion caused, in part, by double-parking, traffic volume and cruising for parking degrades public transport and shared mobility services.

Double-parking
Commercial delivery related double-parking caused by lack of available loading zones, or lack of information regarding available space degrades traffic performance.

Flex-use street

Public transport:
early start and priority at junctions

On-demand micro-transit
accommodated with public transport

Semi-automated people movers provide first and last kilometre links alongside cycling walking

Metered parking
15 vehicles/day

Food truck
150 meals/day, €650-€1500 income/day

Flexible use zone
Use varies according time of day and day of week

Paratransit and accessibleloading:
28% of the EU population requires some assistance

Bus stop
1000 passengers/day
Open to on-demand micro-transit in off-peak hours

Separated bike track
and safe junction treatment for cycling. Entices a broad segment of the population to cycle conveniently and safely

Parklets and "streeteries"
activate public life in the street and spur commerce
Parklet: 100 visitors/day, 10-20% additional revenue to nearby bussinesses

Loading zone:
20 deliveries /day supporting €8100 in sales/day/block

Pick-up and drop-off zone,
priced at peak hours with priority for shared rides
100 passengers/day

Space for bike share:
Fixed or dockless --
40 riders/day for fixed

Cycling ▢ Fixed-route Public Transport ▢ Ride services ▢ Goods pick-up/drop-off ▢ Commercial/social use ▢ Paratransit ▢

DIGITAL DISRUPTION

"THE NEXT BIG THING WILL NOT JUST BE A LOT OF SMALL THINGS. IT WILL BE A LOT OF CONNECTED SMALL THINGS. WHAT DOES THIS MEAN FOR LEADERS AND LEADERSHIP?"

The paradigm is not displacement and replacement but connectivity, interoperability and recombination
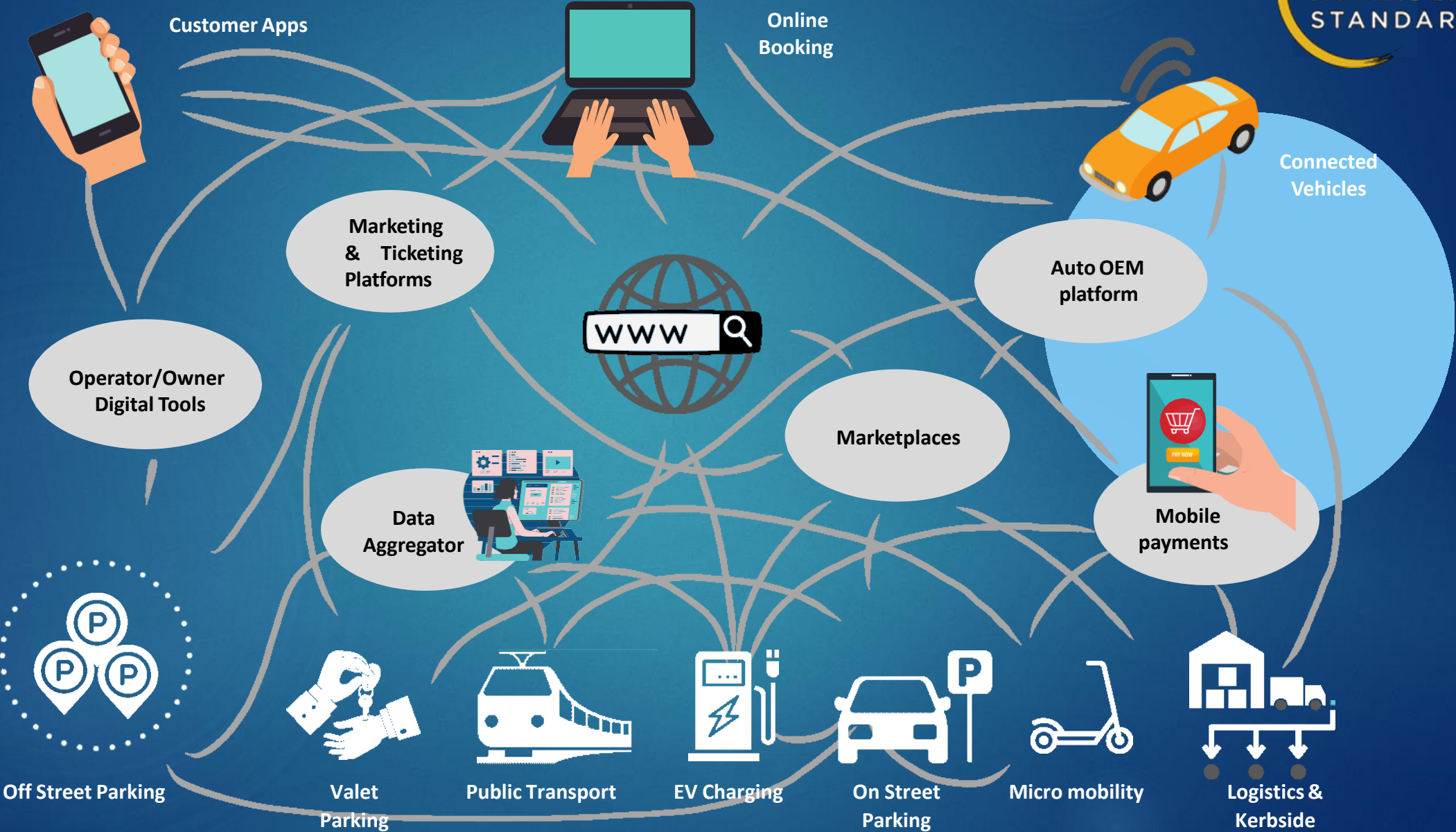
TODAY SMART PARKING IS ENABLED BY DIGITALIZATION

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

Smart Parking Landscape

APDS – TOMP - Interoperability
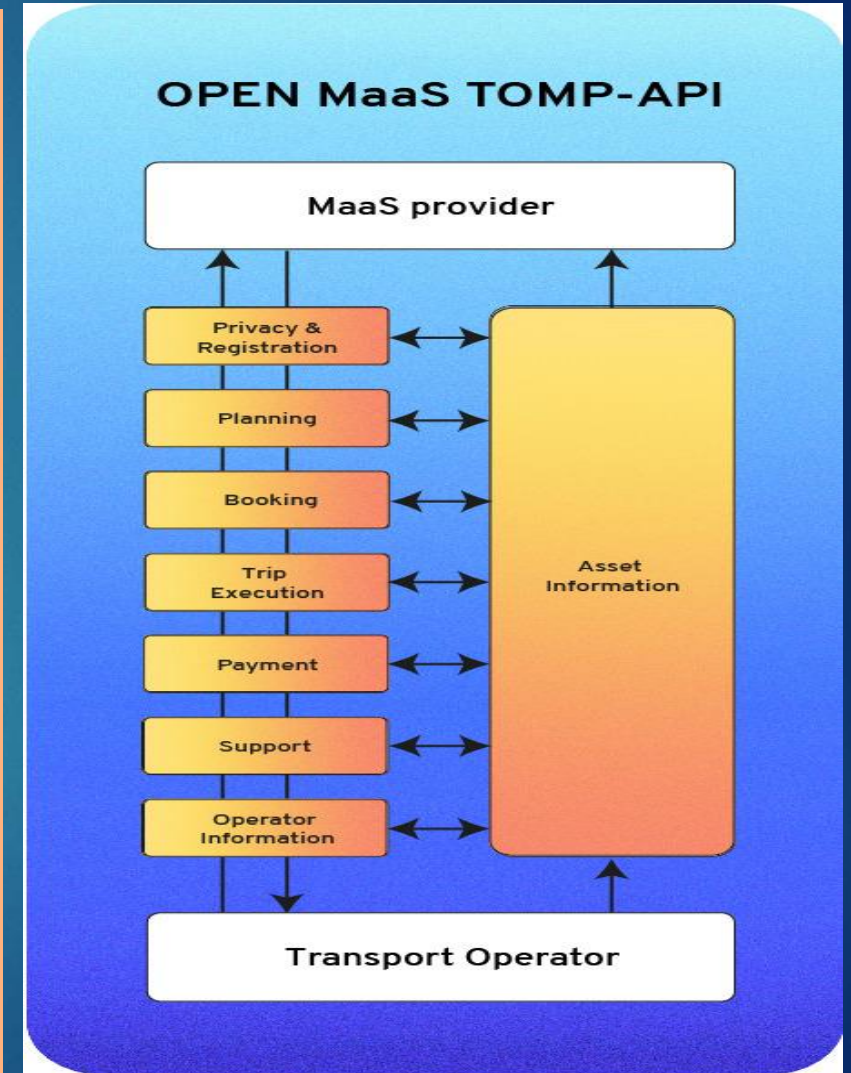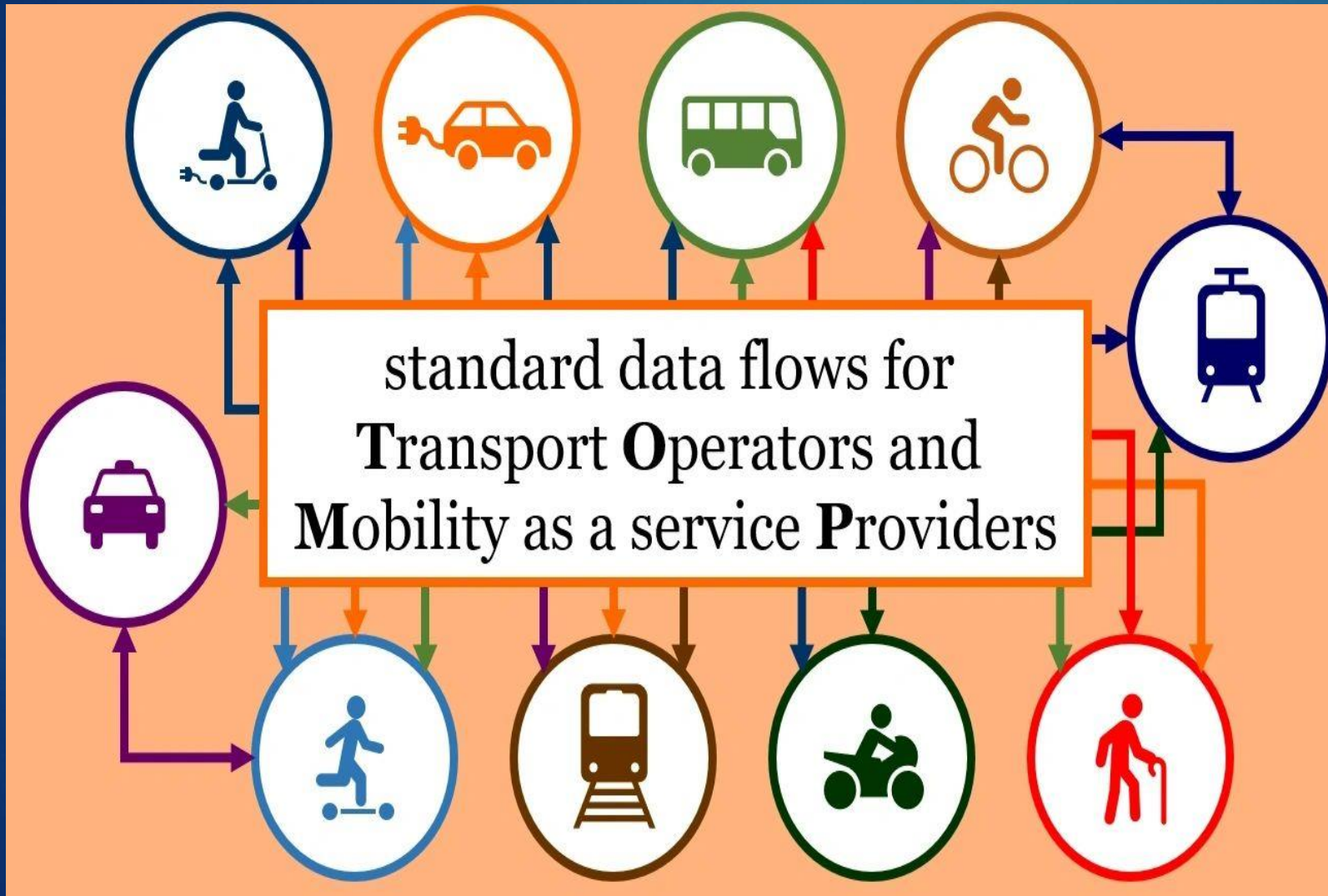
Mobility Movements during Covid19 (baseline February 2020)

Retail – Recreation ⬇10-15 %

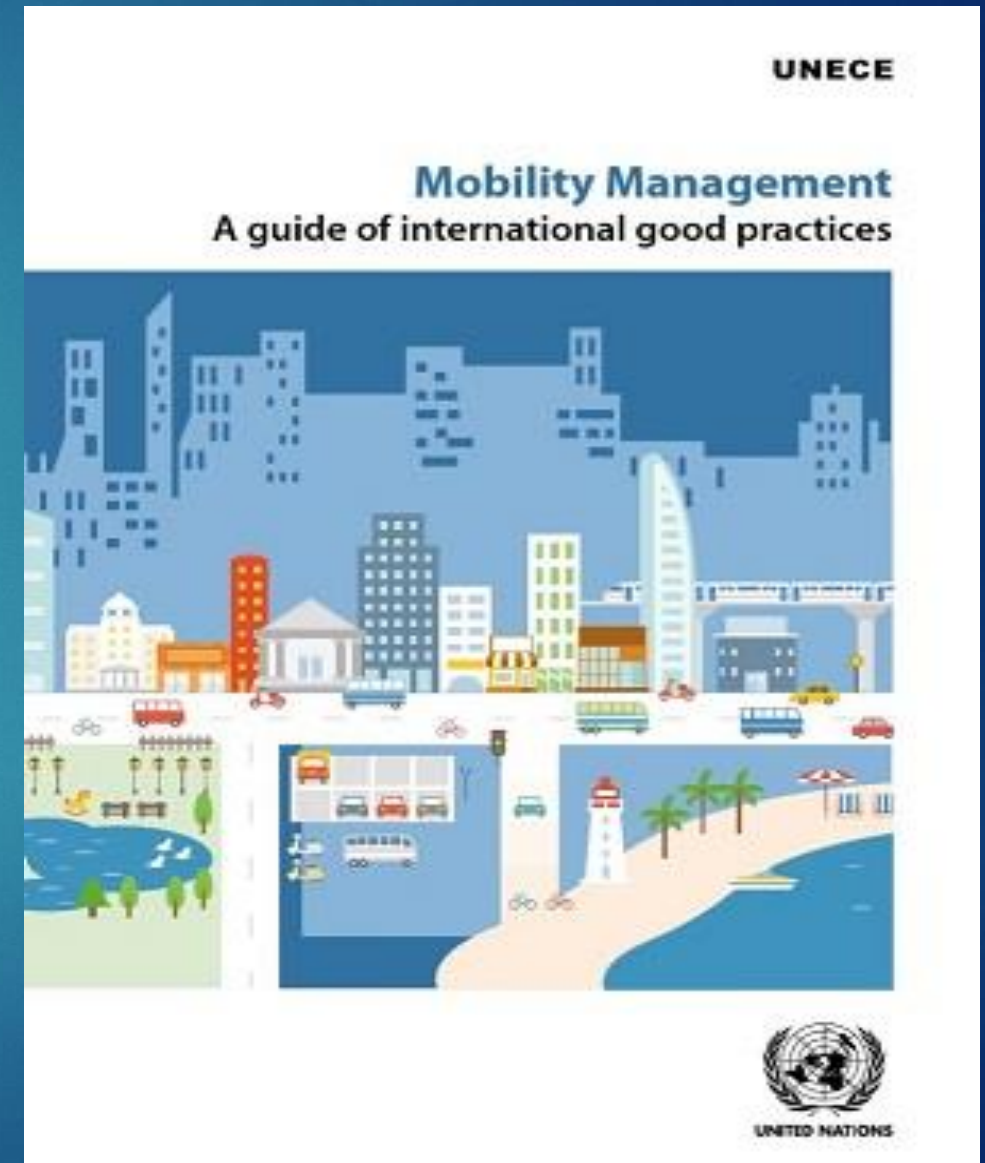**Supermarket - Pharma** ⬆ 5 - 15 %

Parcs, Plazas, Public garden ⬆ 10 - 40 %

Public transport ⬇10 - 30 %

Work places ⬇ 5 - 20 %

Residentials ⬆ 0 - 10 %

UNECE

Mobility Management
A guide of international good practices

UNITED NATIONS

Plenary Sessions:
Keynotes/Roundtables /Talk shows/Presentations

- *EPA EV SURVEY: the state of the art of the transition to electric mobility*
- *EU Green Deal from the European Commission*
- *Future of Parking in a disrupted Mobility Urban Scene*
- *Mobility, Infrastructure, Urban Planning, Citizens*
- *Post Covid Models - Disruptive situations, new opportunities, integration*

2021-2022 EPA Awards Ceremony

- *7 different award sessions – EU State of the Art*

Parallel sessions

- **Digitalization- Connectivity – APDS**
- **New Business Models**
- **UVARS: relationship between access management and parking management**
- **Young Urban Parking Professionals**
- **Park4SUMP**
- **Kerb Side Management - On Street Parking**
- **Mobility Hubs - Off Street Parking**
- **Managing Urban Logistics**

- **Our first CO2 neutral event – all locations within walking distance in the centre of Brussels.**
- **Congress Center „Square" in the heart of Brussels;**
- **Welcome Reception at the Brussels City Hall;**
- **Gala Dinner in a Majestic Car Park close to the Grand Place.**

See you in Brussels in September 2022

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