

Parliament of the Czech Republic



Meeting with the Subcommittee on Transportation

Evolution & Mobility Trends in the Parking Industry

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Part 1 - PARKING IN EUROPE Overview



EPA NETWORK



European Automobile Manufacturers Association













































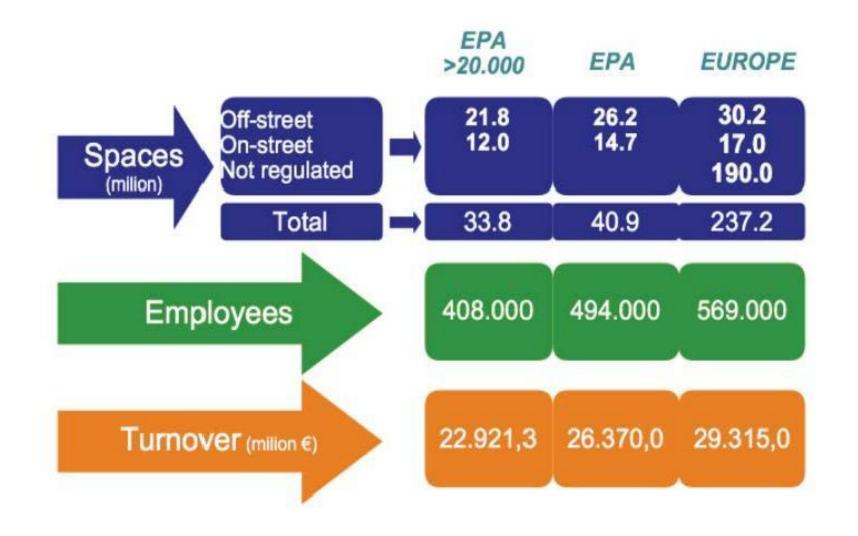








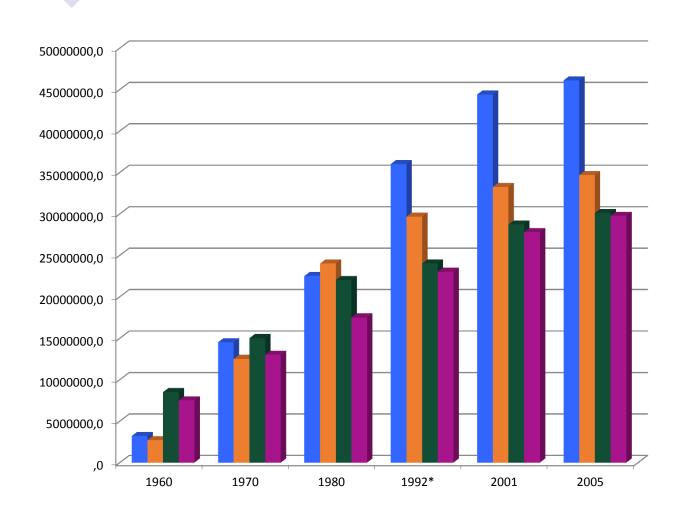
EPA PARKING STOCK





GROWTH IN PRIVATE CAR OWNERSHIP

2011/12 cars/1000 cit.



Germany	43.431.000	526
Italy	37.078.000	624
France	32.555.000	495
Britain	28.467.000	447
I		
	Rome:	700
	Barcellona:	386





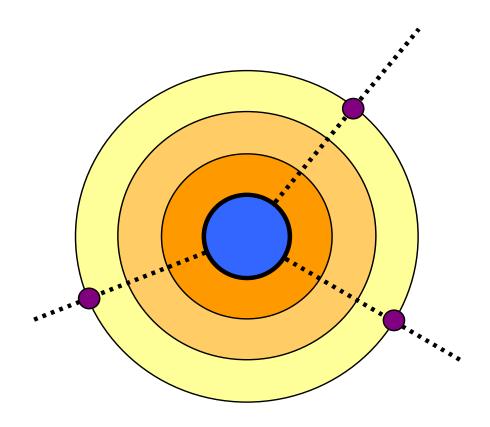
PARKING SPACE AVAILABILITY

Predictions on regulated parking spaces EPA municipalities with more than 20,000 inhabitants

Off-street		21,756,041	-1
	In structure	7,324,109	10.461.639
	Surface level	3,137,530	= 48%
Total 62%	Park&Ride (dissuasion)	922,759	
	In sport, cultural and leisure facilities	2,171,436	
for av. 11 cars/space	In shopping centres and markets	5,326,328	
	Hospitals, universities	1,993,466	
	Airports	880,414	-
On-street		12,004,105	
	Regulated for general public use	7,069,879	
	Residents only	2,975,493	10,742,499
	Loading and unloading	482,528	89%
	Motorbike spaces	779.464	03/0
	Other reserved spaces (handicapped, police, etc.)	696,741	
Total		33,760,146	



ACCESSIBILITY MANAGEMENT: THE STRATEGIC CHOICE



Which mobility tool for adjusting the modal split to inner urban areas?

manage movement

(congestion charging, road pricing, etc.)

or

manage the static part of traffic (parking)



INTEGRATED PARKING MANAGEMENT

parking management



- well accepted
- quick implementation
- little investments

road pricing / congestion charging



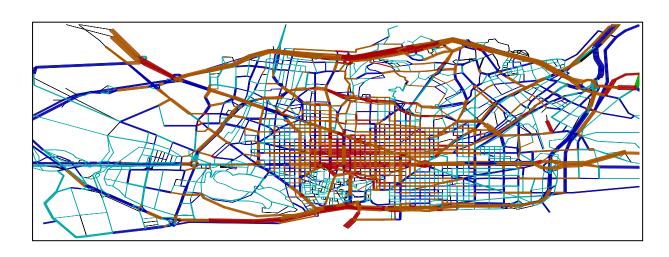
- political controversal
- mid term implementation
- high investiment

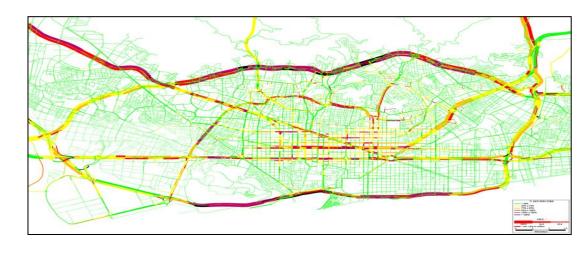
The integrated parking policy choice is the most used and very succesful



INTEGRATED PARKING MANAGEMENT

THE strategic choice: Accessibility Management - Barcelona





MODAL DISTRIBUTION DATA			
	1.986	1.998	2.010
PRIVATE TRANSPORT	1.876.000 (40,12%)	2.610.409 (43,53%)	1.533.838 (23,7%)
TOTAL TRIPS PER DAY	4.675.853	5.996.473	6.471.891

DAILY CAR TRIPS

ALL DAILY TRIPS



THE URBAN MOBILITY SYSTEMS - EU - TODAY

Mode	Average EU: range from – to		
Private car	24%	50	77%
Public transport	15%	40	60%
2 wheels	0%	5	25%
On-foot	3%	5	46%



UITP MODAL SPLIT DATA (all sustainable modes)

Rome 40% - Paris 60% - London 60% - Barcelona 75%



Part 1 - PARKING IN EUROPE On-street parking

Who determines:

- 1. the regulations
- 2. The tariffs
- 3. The form of the parking fee
- 4. Who collects the fees
- 5. Who does the enforcement
- 6. Is it easy to enforce



Many politicians and planners have not understood or have underestimated the power of the parking tool.



The parking road map – a holistic approach for competitive cities

Off street spaces

On street spaces

Special categories spaces Residents

Loading & unloading bays

Parking fees Visitors Dynamic pricing

Payment systems

Info for Mobility Long term parkers Space availability

Parking wardens

Access Control Special Categories Data/info distribution

Motorcars

Motorbikes and bikes Urban Logistics Real time controls

Tourist Busses

Electric mobility support Public transport

Soft mobility support

The central role of the local authority



The "GART" initiative

- **✓ The importance of political objectives**
- **✓ Parking is part of the wider mobility system**
- **✓ Efficiency enables investments in positive growth**
- ✓ Integrate the roles of the different players public & private
- **✓ Use controls to make the parking policies efficient**
- **✓ Explore hard & soft enforcement solutions**
- ✓ Readability make it easy and understandable for users
- **✓** Communication a constant process
- ✓ Get away from the image of a revenue generating initiative
- √ Social schemes funded from parking revenue

GART - Parigi - 28 gennaio 2016



PARKING is a right - it should be free - FALSE

The parking tariff improves circulation and allows a democratic right.

With the French reform, more parking spaces have to be created - FALSE

It optimizes what is there, this is one of the objectives.

The reform is simply making it more difficult to park - FALSE

In reality, the current situation is complex. Only 15% of users pay spontaneously in Paris.

With this reform the mayors will do what they want - FALSE

On the contrary, this reform will give citizens the chance to express their needs

- there are not 2 equal cities.

This reform will be unjust, it is not supporting equality – FALSE

This reform will abolish the abuses present.



Drivers' rights will be reduced - FALSE

The rights will be maintained and the time for justice will be reduced.

This reform will only bring money to the coffers of the administrations - FALSE

The goal is not related to economic reasons, but will be instrumental in improving the flow of mobility.

The mission of payment control will be limited to private companies - FALSE

This is not the case, administrations will have the option to run directly or manage outsourced.

The system will encourage parking in the loading and unloading stalls or on the pedestrian crossing - FALSE

The possibilities made available by the reform will make these habits risky.

This reform will damage commercial activities in urban centers and will attract less economic activity from the territory - FALSE

On the contrary, better management of the parking will increase the dynamism of the city



Part 1 - PARKING IN EUROPE Pricing Policy

What are:

- 1. On-street/off-street rates
- 2. Price rates for: Residents, local businisses, vistors
- 3. Extent of preference for local residents, local business spaces and prices



SIIM KALLAS
The Vice President of The European Commission and Commissioner of Transport



MR SIIM KALLAS EXPLICITLY EXPRESSED THE IMPORTANCE OF PARKING AS AN ECONOMIC AND OPERATIVE COMPONENT OF THE URBAN MOBILITY SYSTEMS OF OUR EUROPEAN CITIES.

PARKING POLICIES AND DIFFERENTIATED PARKING SUPPLIES AND PARKING FEES CAN CONTRIBUTE:

- TO A MORE EFFICIENT USE OF PRIVATE CARS
- AS AN ECONOMICAL INSTRUMENT FOR DETERMINING THE OVERALL MOBILITY DEMAND
- TO OPTIMIZING SPACE THAT IS A PRECIOUS COMMODITY
- AND TO INTEGRATE DIFFERENT MOBILITY MODES



THE DIFFERENT PARKING "CLIENTS" WHO REQUIRE DISTINCT PARKING PRODUCTS ARE:

- A. **RESIDENTS** ON AND OFF STREET LONG TERM PARKING NEAR THEIR HOMES
- B. Non residents on and off street for short and medium term turnover parking
- C. **NON RESIDENT LONG-TERM USERS** WORKERS IN OFF STREET,

 PARK & RIDE STRUCTURES AND USE OF PUBLIC OR ALTERNATIVE TRANSPORT
- D. **SPECIAL USERS** DISABLED PARKING, EMBASSIES AND CONSULATES, TAXIS AND HOTELS, SPECIAL & ESSENTIAL SERVICES
- E. **LOADING AND UNLOADING BAYS** IMPORTANT FOR BUSINESS AND COMMERCIAL ACTIVITIES.





INTEGRATED PARKING MANAGEMENT BARCELLONA ROME

Metropolitan area's Modal Split

Public Transport: 34 %

Walking & Cycling: 42%

Private car trips: 24%

Daily trips to centre: 6,5 million
23,7% of daily trips corresponds to 1,5 million
trips using private vehicles.

Metropolitan area's Modal Split

Public Transport: 28,9%
Walking & Cycling: 5,6%
Private car trips: 50,0%
Motor bikes: 15,5%

Daily trips to centre: million

% of daily trips corresponds to million trips using private vehicles.



Barcelona

Total parking offer 789.849

Parking off street:

648.788 spaces:

419.971 for residents 142.865 for public use 85.952 reserved Parking on street:

141.060 spaces

-

8.850 rotation

35.647 shared use:

10.631 loading and

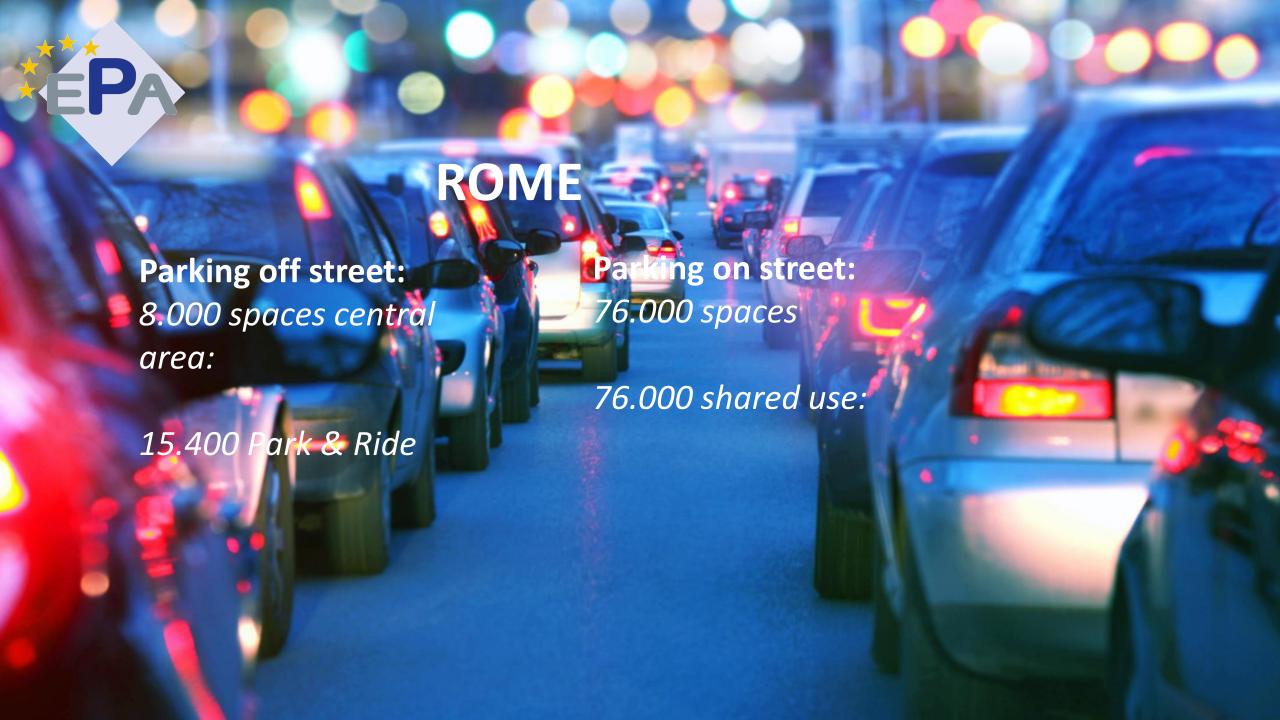
unloading

8.317 special

3.392 only residents

74.224 white

64.468 motorbike spaces









TARIFAS (BONIFICACIÓN Y PENALIZACIÓN)

Nueva ordenanza fiscal: bonificaciones y recargos

TIPO DE VEHICULO	BONIFICACIÓN/ RECARGO	NIVEL DE OCUPACIÓN	BONIFICACIÓN/ RECARGO
A	-20%	А	-20%
В	-10%	В	-10%
С		С	
D	10%	D	10%
E	20%	E	20%

Para más información consulte: www.madrid.es





CONSIDERATIONS for Mobility Decision Makers

- ✓ WHAT TO DO:
 - **✓ EVALUATE THE EFFECTIVE UNUSED CAPACITY OF THE PUBLIC URBAN TRANSPORT SERVICES OR THE POSSIBILITY**
 - TO INCREASE THE OFFER.
 - ✓ INTRODUCE PARKING FEES THAT MAKE THE COST OF THE DAILY LONG TERM PARKING UNACCEPTABLE
 - ✓ INTRODUCE TIME LIMITS TO ENSURE THAT LONG TERM PARKING IS NOT POSSIBLE
 - **▼ ESTABLISH CONTROLS TO ENSURE THAT THESE CONDITIONS ARE RESPECTED**

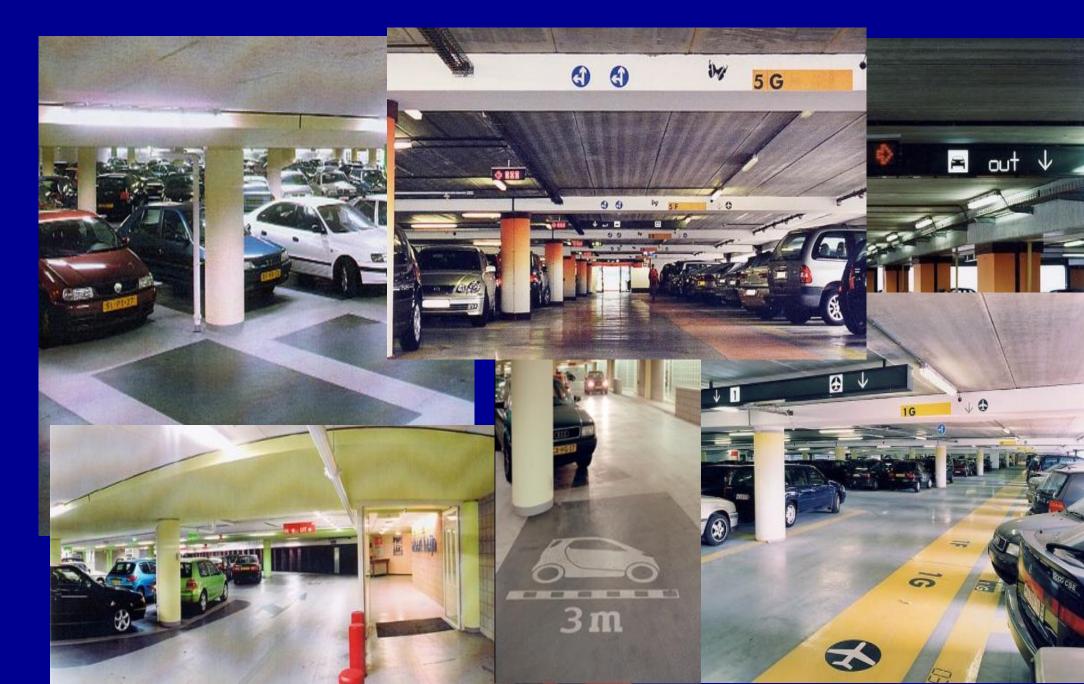


Part 1 - PARKING IN EUROPE Garage buildings

Who is:

- 1. The main investor
- 2. Public Private Partnerships





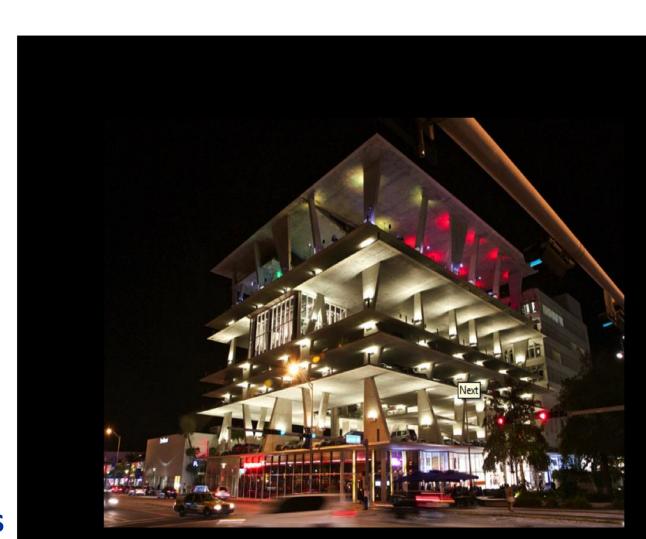


URBAN MOBILITY HUBS

TRANSFORMATION

of parking infrastructures, into important urban mobility hubs, Supplying logistic support for:

- ✓ electric mobility:
- electric charging infrastructure
- smart grids storage
- parking as a new fuel supplier
- ✓ soft mobility components;
- ✓ last mile logistic support platforms etc.
- ✓ Info intelligent networking of vehicles





Part 1 - PARKING IN EUROPE Urbanism

What are:

- 1. The technical requirements of new parking structures
- 2. Minimum and maximum parking standards
- 3. What do they regulate and what not



- DEDICATED SINGLE FUNCTIONAL PARKING FACILITIES
 - AT OFFICES, ONLY USED MON-FRI 8AM 6PM
 - RESIDENTIAL CAR PARKS: SPACES AVAILABLE MON-FRI 8AM 6 PM
 - SHOPPING CENTERS: PEAK USE OUTSIDE OFFICE HOURS
- REAL TIME OCCUPATION DATA & TREND:
 - AVAILABILITY IN-CAR INFORMATION FOR VISITORS
- UNUSED SPACES AVAILABLE FOR VISITORS' CARS
 - INNER CITY OFFICE CAPACITY
 - COMBINATION OF OFFICE PARKING & RESIDENTIAL PARKING
 - COMBINATION OF OFFICE PARKING & RETAIL PARKING
- OPTIMIZED USE OF EXISTING PARKING CAPACITY:
 - HURDLES TO OVERCOME: SECURITY, ACCESS OUTSIDE OFFICE.





Part 1 - PARKING IN EUROPE Parking revenues

Where do:

- 1. revenues generated from parking go?
- 2. are they reinvested in city regional transport?

THE CENTRAL ROLE OF THE LOCAL AUTHORITY

















TOMORROW







Part 2- PARKING IN EUROPE Trends

Here do:

- 1. Moving from on-street to off-street
- 2. Dynamic use of on-street parking
- 3. Digitalization in parking for drivers, enforcement and planning
- 4. The opportunities how to go forward ...



Cities have adopted the ENVIRONMENTAL AGENDA

- Reduce pollution (CO2, PM10, NOx)
- Reduce Congestion
- Reduce the presence of private cars
- Improve accessibility
- Improve quality of life





ENVIRONMENTAL REVOLUTION

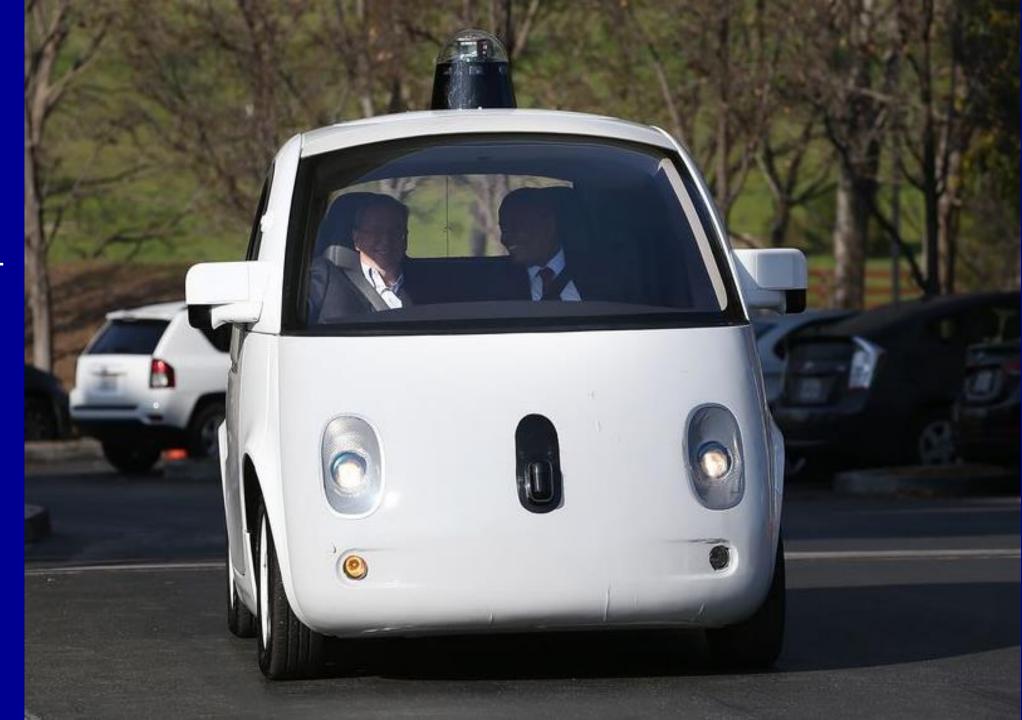
Sustainable enviroment contribution enabling:

- identification of the euro 0 to 6
 classification of vehicles and
 determining parking fees as a result;
- balancing the urban modal split ratios;
- lowering polluting and timely searching traffic;
- promoting co-mobility notions;
- Important support systems for electrical mobility.



NEW MOBILITY MODEL

- limited capacity of TPL
- Connected cars
- Electric & Hybrid
- Sharing economy
- AV's
- Possible increased mobility demand – discuss algorythms





SUSTAINABILITY

- Quality of life
- Reducing air, noise and visual pollution
- Accessibility
- Economic growth





NEW MOBILITY SERVICES & NEW SPATIAL NEEDS

- Shared vehicle parking
- Electric charging
- Pick up drop off for goods, personal "bus" stops...
- surface activity serving mobility





NEW MOBILITY SERVICES

NEW SPATIAL
NEEDS ...
substituting
parking space





- New spatial solutions
- "New" mobility will occupy the "Old" mobility spaces
- Car drivers to change transport mode Not anybody else ...
- New rules
- New players
- New investments





PARKING MANAGEMENT TODAY AND TOMORROW



























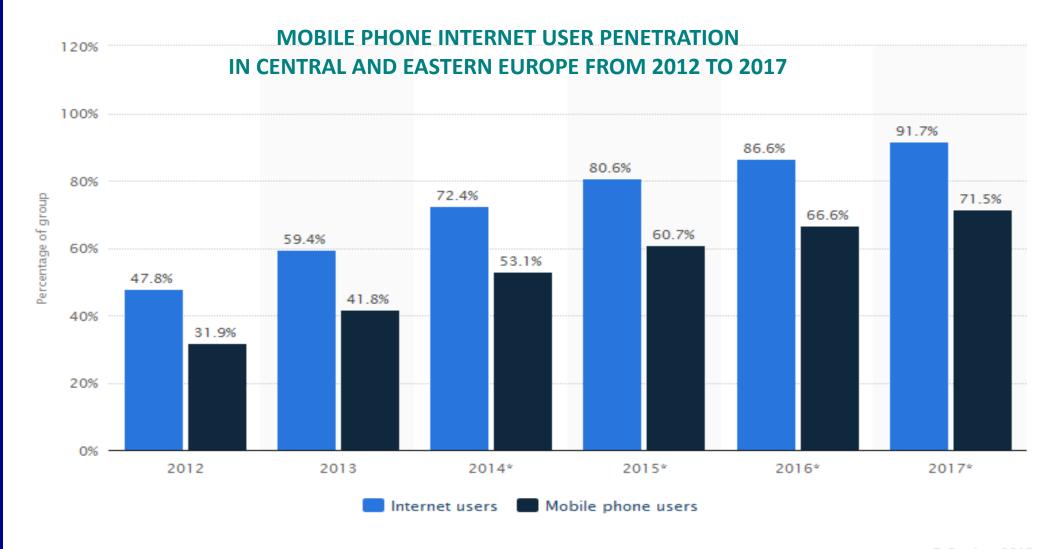














41% of population owns a smartphone	92% of smartphone users find local info on the mobile phones
84% of smartphone users know products via use of cell phones	1 out of 3 users have bought an app for the cell phone
30% of smartphone users buy using cell phones	4 out of 5 smartphone users interact with pubblicity on their cell phones

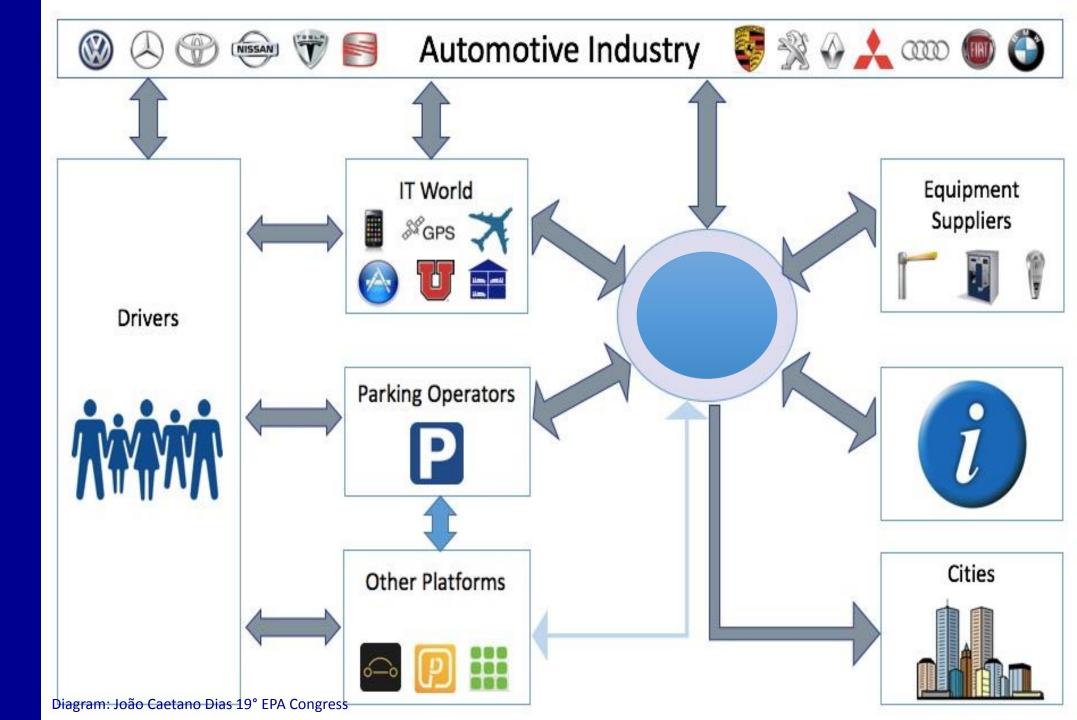
The digital world is transforming the way in which we live and many aspects of our daily life



THE NEW URBAN MOBILITY WORLD



THE NEW URBAN MOBILITY CLIENTS





- New road categories ...
- New urban mobility infrastructures – not simply parking structures
- New digital standards for all our mobility related services
- Local authorities with vision and not blinded by "ready" technological solutions





EXPERTISE:

- We manage integrated services
- We know how to condition behaviour introducing change & regulation
- We can contribute to modal change
- We plan systems and apply appropriate technology
- We can contribute to sustainability





WE MUST PROMOTE:

- collaboration with local authorities, governments, stakeholders etc...
- integration in the mobility chain
- sustainable solutions... for customers
- participation for a new mobility pact

