The Future of Mobility in Cities Prof. Joan E. Ricart



Message 1: Mobility represents several challenges for cities.







The traffic problem

is increasing day by day increasing delay, operating costs, emissions and stress

Emissions & pollution

Transport is the main cause of **air pollution** (CO2, SO2 and NO2) causing health problems Parking

Parking when going from one place to another It's one of the worst elements of vehicle ownership Road traffic injuries cause great economic losses to individuals, their families, and nations

Accidents



Logistics

Last mile. the movement of people and goods from a transportation hub to a final destination





Medioambiente

Message 2: A portfolio of different "solutions"

How cities trying to respond to these challenges



Traditional mobility Public transport, infrastructure, traffic

flows



Sharing mobility systems



Future mobility solutions





New urban New models technologies

15-minute city, Superblocks, "Vancouverism EV, V2G, AV, V2X, 5G, blockchain, digital platforms, AI





Smart mobility systems



Message 3: Smart governance is key

Governance and Transportation



Smart Urban Management Model A tool



- Screen for favorable and civic-minded city managers
- Proactively anticipate policies (rules of the road, public safety, parking and scooter zones, permits, liability, etc)

BERRONE, P., RICART, J. E., FERRADANS, H., RODRÍGUEZ PLANAS, M., SALVADOR, J. (2017). 7 Forces to Success in PPPs. Smart Cities via Public-Private Partnerships. IESE Insight (34), pp. 15 - 23.

Prof Pascual Berrone

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Message 4: Governments play multiple (and new) roles

How cities trying to respond to these challenges



Greater efficiency

Public transport, infrastructure, traffic flows



Role of the public sector Service provider



New urban models

15-minute city, Superblocks, "Vancouverism



Designer

Facilitator (or blocker)

New

technologies

EV, V2G, AV, V2X,

5G, blockchain,

digital platforms, Al



New business models

MaaS, Micromobility and Startup and investing landscape



Orchestrator

The Future of Mobility in Cities

A new ecosystem is emerging (ideation)

- Role of the Public Sector?
 Tradeoff on efficiency affect
 - Tradeoff on efficiency, affordable, sustainable, safe?
 - Who leads in the platform? What is the basis for collaboration?
 - Which governance for the PPP?

Steps to be done for orchestration



- Data integration
- Service integration
- Tariff integration
- · Planning of mobility services
- Integral management of mobility services

Future evolution and expansion

- Artificial Intelligence and autonomous cars
- Disruptive technologies
- Who is best positioned?
- How can cities better prepare for it?
- Can a MasS system evolve to integrate new mobility in the future?







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The Future of Mobility in Cities The emergence of innovative ecosystems





A Way to Learn A Mark to Make A World to Change

Profesor Joan E. Ricart

