Smart COMMUNITIES Tech
Italian Technology Cluster for Smart Communities

Smart Mobility perspectives: added-value services, integrating both technologies and environmental/societal requirements

Marc Charlet, General Manager, NextMove

next move
collaboration is the driver

MOBILITY = a major transformation

- **Technological disruption** with electrification & the evolution of the energy mix
- **Digital disruption** with connected, intelligent, autonomous vehicle
- **Societal disruption** with new mobility services

"With the ecological transition, the development of electric and autonomous vehicles and the intensification of international competition, the automotive industry is facing a historic transformation"

Jean-Dominique SENARD

Chairman of the board of directors – Renault Group

Tomorrow will be MOBILE

Urban growth, environmental and public health challenges, population ageing, new mobility, changes in behaviors, digital revolution… **The mobility of tomorrow will be:**

- **CLEANER, SUSTAINABLE**
- **SAFER, AUTONOMOUS & CONNECTED**
- **INCLUSIVE, SHARED**

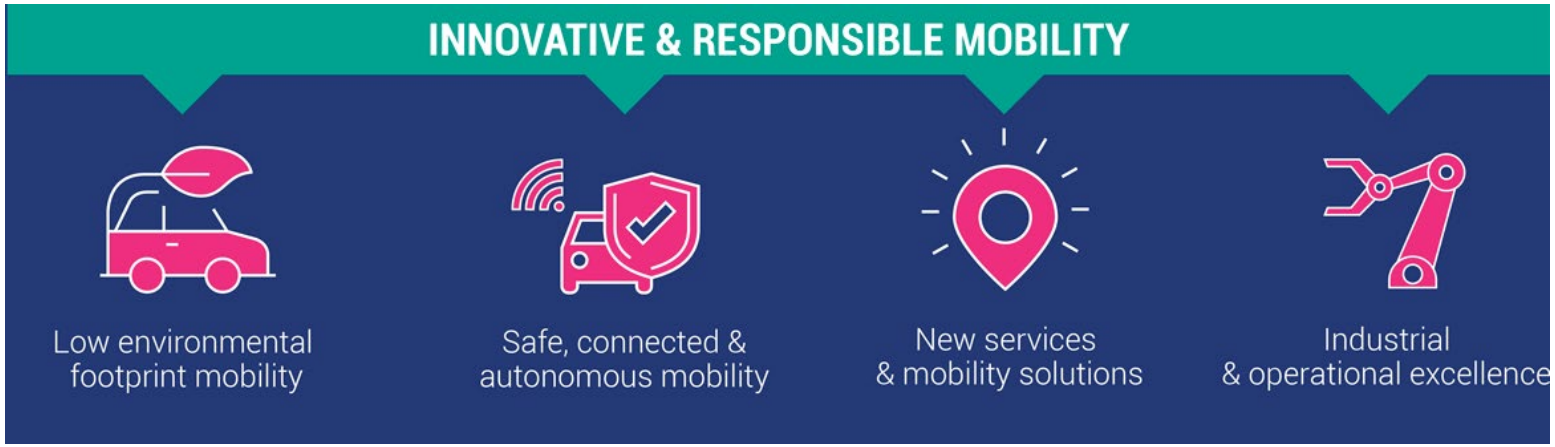
Mobility's revolution is a collaborative challenge. To face the many technical, scientific and social issues, actors needs to:

- **work together**
- make use of **all the skills found in the ecosystem**

NextMove: European Automotive & Mobilities Cluster

collaboration is the driver

- Which brings together a **unique network**: manufacturers, SMEs, start-ups, public institutions, research and higher education institutions, local authorities (+ 600 members)
- Based in the scientifically and technlogically **advanced regions** of Greater Paris and Normandy (25% jobs in the automotive industry upstream in France)
- Where solutions are **invented**, **developed**, **tested** and **industrialised** to meet the mobility challenges of the future.



« FRENCH MOBILITY VALLEY »

Become the leading Automotive & Mobility ecosystem in Europe along the entire value chain

Smart Mobility Solutions

Focus on 3 main trends:

- Connected and Autonomous Mobility
- Soft/Active Mobility
- Urban Logistics and last mile delivery

Connected and Autonomous Mobility

Autonomous, shared and collaborative mobility

For an inclusive, efficient, user friendly and sustainable mobility

⇨ Connect peri-urban and urban zones (commuters)

⇨ Flexible, personalized and accessible services: transport "on demand"

⇨ Extended services (in time and/or in space)

⇨ Improved safety and comfort

Rouen Normandy Autonomous Lab projet

TORNADO project

MILLA-ISFM project

Connected and Autonomous Mobility

Smart Services

For an improved mobility experience

⇨ Vehicle connectivity: V2X, 5G, Cybersecurity

⇨ Smart Public Transportation solutions

⇨ Mobility as a Service – Seamless mobility

⇨ Data management

5G OpenRoad project

ATSUKE: Smart ticketing service

Betterway: Mobility Credit Card

Soft/Active Mobility

New modes of transportation / Mobility services

- ⇨ Micro-mobility: e-2-wheelers, e-bikes, e-scooters
- ⇨ Shared-mobility
- ⇨ Electromobility
- ⇨ Smart Grid

CITYSCOOT: shared electric 2 wheelers

ZOOV: shared e-bikes

Antilope: electric consumption prediction

Urban Logistics and last-mile delivery

Challenges of sustainable logistics

- ⇨ Regulatory restrictions and requirements
- ⇨ Resource management and consumption
- ⇨ Responsible solutions that meet social and societal expectations (Logistics as a Service)

K-Ryole: innovative urban delivery system

TwinswHeel: Collaborative and autonomous droid for logistics

Conclusions

- A major transformation of Mobility
- Smart mobility will depend on many complementary skills
- Smart mobility needs other "smart" initiatives: smart city, smart infrastructure, smart grid, smart data…
- Collaboration is the answer to tackle the challenges of smart mobility

collaboration is the driver

Thanks for your attention !

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