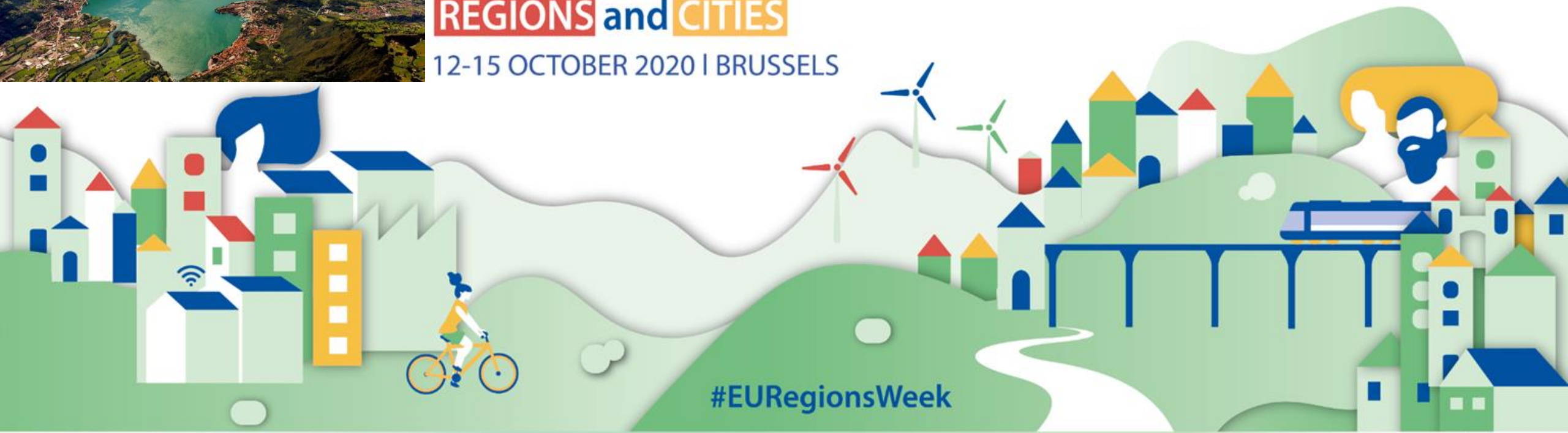




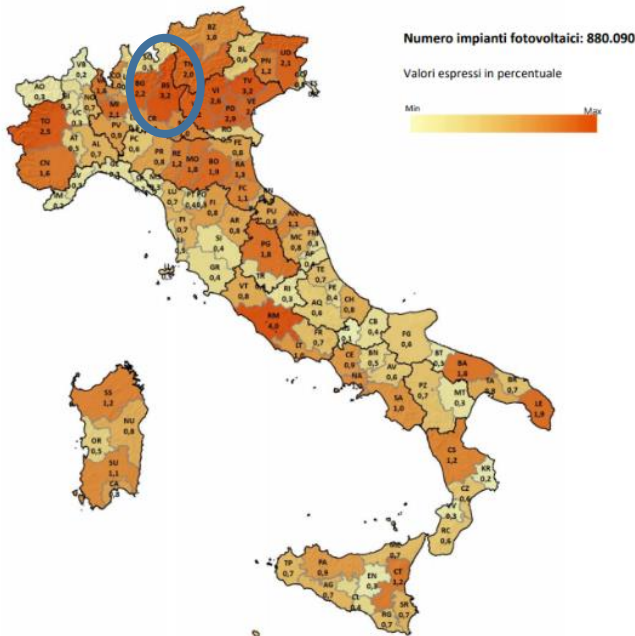
18th EUROPEAN WEEK of
REGIONS and **CITIES**

12-15 OCTOBER 2020 | BRUSSELS



Province of Brescia

- 4.786 km², 205 Municipalities, 1,26 ml inhabitants, over 1 ml vehicles
- one of the most industrialized in Europe
- 1° in Italy for renewable energies: 20 Hydroelectric Dams, 230 micro dams; 2.404 GWh from biodegradable waste; 26.555 photovoltaic plants



• How can a Public Administration foster e-MOBILITY?

- Planning & Policies;
- Investments
- Digitalization
- Cooperation/networking with Private sector and Universities



18th EUROPEAN WEEK of
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12-15 LEGENDA

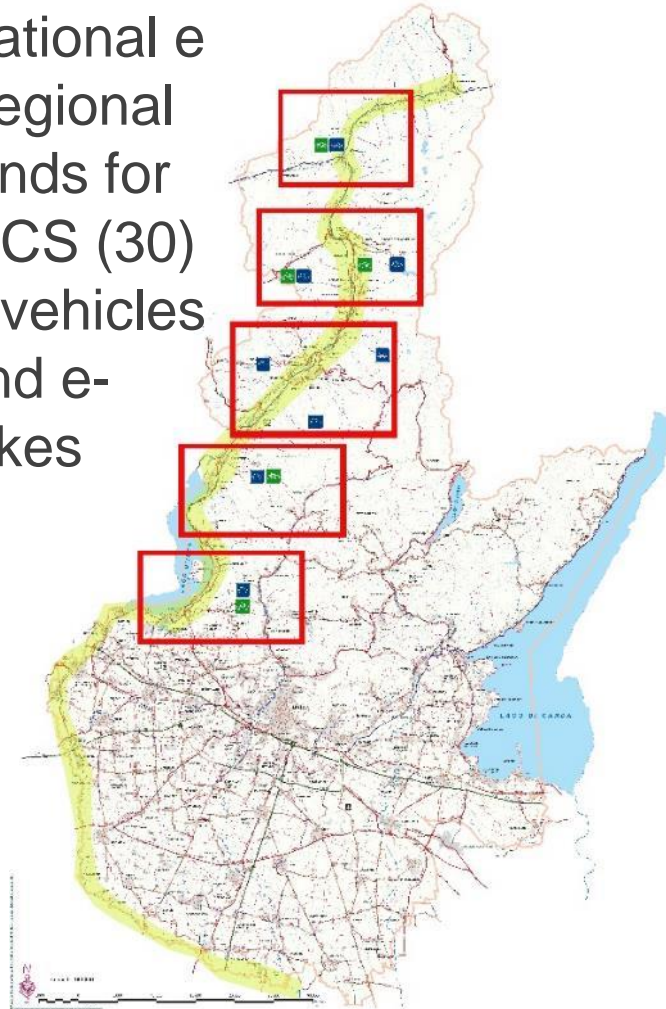
<ul style="list-style-type: none"> Stato (border) Stato (road) Stato (river) Stato (lake) Stato (sea) Stato (mountain) Stato (forest) Stato (park) Stato (other) 	<ul style="list-style-type: none"> Stato (other) Stato (other) Stato (other) Stato (other) Stato (other) Stato (other) Stato (other) Stato (other) Stato (other)
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Province of
Brescia Plan
for the
location of e-
MOBILITY
charging
points

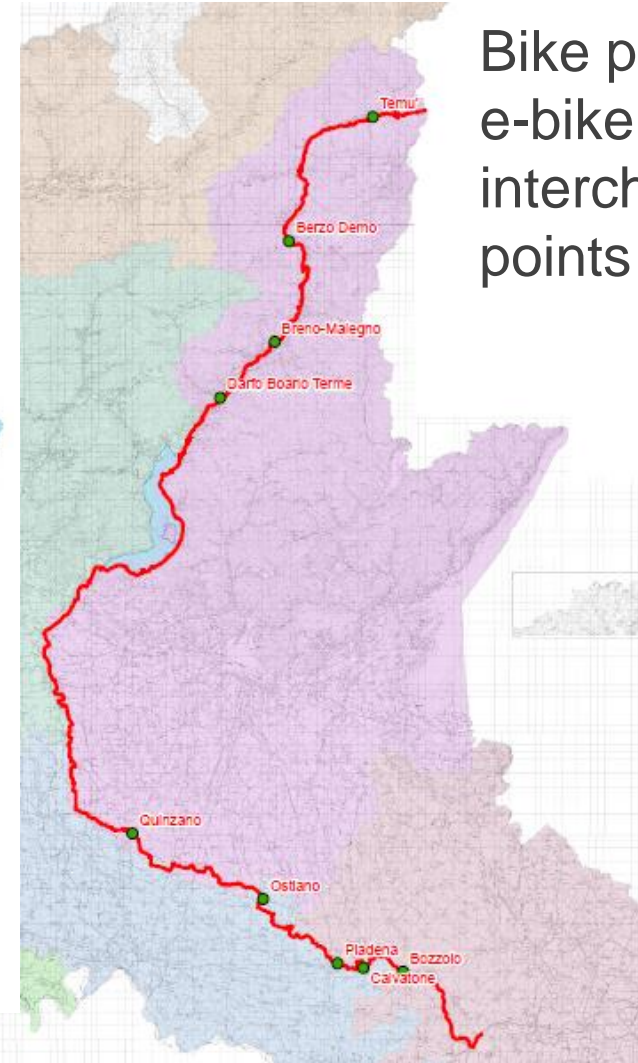


Planning & funds

National e
Regional
funds for
e-CS (30)
e-vehicles
and e-
bikes



Bike paths for
e-bike and
interchanges
points



Planning instruments

e-MOTICON Strategy

Regional Action Plans

TARGET GROUP:

Regional/Local Public Administration responsible for spatial planning

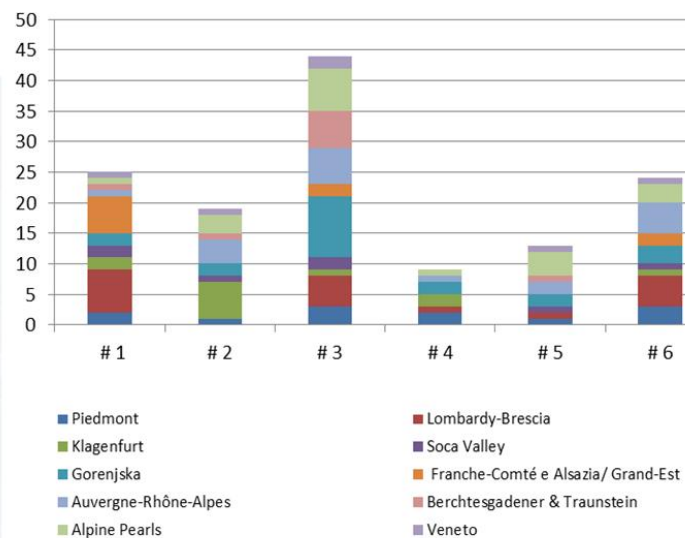
WHAT WAS DONE in the Project:

Regional Action Plans in 11 Partnership territories – example for other territories

SCOPE

- Define **coherent actions to achieve common objectives** in the Alpine Space Area
- Help implementation of a common Alpine Space **Strategy** at Regional/Local level;
- **Support the transportation choices of Public Administrators** to implement interoperable E-CS

RAP actions distribution according to strategic Pillars



#1 DEFINE THE BEST POSSIBLE ROLES OF PUBLIC AUTHORITIES

#3 COMPLETE THE MINIMUM INFRASTRUCTURE

#5 EMPOWER COMMUNICATION AMONG PUBLIC AUTHORITIES

#2 SET COMMON MINIMUM RULES ON INFRASTRUCTURE

#4 ADOPT AN INTEGRATED, SUPRA-REGIONAL MAPPING TOOL

#6 GUARANTEE SYNERGY AMONG PRIVATE AND PUBLIC TRANSPORT

- "5 golden rules" for Regional Public Administrations
- "5 golden rules" for Municipalities

E-MOTICON

e-Mobility Transnational strategy for an Interoperable Community and Networking in the Alpine Space
WHITE BOOK



Interreg
Alpine Space
E-MOTICON



European Committee of the Regions



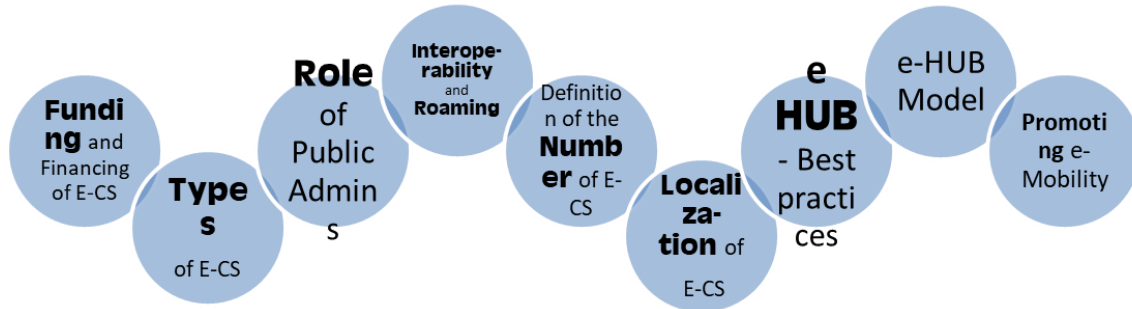
PROVINCIA DI BRESCIA



ALOT
INNOVATION FOR SUSTAINABILITY

Tools

The on-line training courses for PA



Pilot e-HUB: Understand which **communication** measures help to ensure **legal and political interoperability**



Pilot e-TRAIL: Understand which measures help to **ensure technical interoperability** (Setting up interoperable systems & User information platforms & eRoaming platforms)



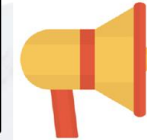
Pilot P&L (Process & Location) Understand which measures help to ensure a **good localization** of EV charging Station

E-MOTICON
e-Mobility Transnational strategy for an Interoperable Community and Networking in the Alpine Space
GUIDELINES

Shape and name	Standard		
Schuko plug	IEC 60884		
Type 2	IEC 62196-2 "Type 2" VDE-AR-E 2-2 (*Mennekes)		
CCS Combined Charging System	IEC 62196-3 combined with IEC 62196-2 and including ISO 15118 (DIN 70121)		
CHAdeMO	IEC 62196-3 ISO/IEC 61851-23 and 61851-24	for fast DC charging: up to 100 kW (in practice 50 kW)	fixed connection at E-CS, plug connects to car, mainly used by Japanese cars, often available at fast charging E-CS in Europe

Guidelines

Elektrofahrzeuge während des Ladevorgangs frei



BEST PRACTICE
E-GRAND TOUR OF SWITZERLAND



CAMPAIGN "TESTING AN E-CAR FOR 6 DAYS FOR 60 €"



TRAVELLING EXHIBITION ELECTROMOBILITY



The 3 Pilots experiences

e-MOPOLI - Electro MOBility as driver to support POLicy Instruments for sustainable mobility

- **Limited awareness of public administration** about alternative fuels and e-mobility potential
 - **Low capability on planning its development**, often causes a **limited application** of good practices
 - **Ineffective deployment of public (Structural) funds** and **limited impact on the reduction** of congestion and pollution in urban areas.
- **Developing effective policies to increase the knowledge and introduce behavioral change;**
- **Strengthen the innovation elements in the fuels policy** as part of the wider regional efforts to lower or zero CO2 emissions.



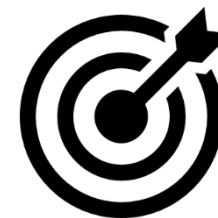
Learning process: sharing knowledge and experiences to define the ROP Action Plans



Specific objectives

Set of **9 policy instruments** with the specific objectives:

- charging and tolling policies favoring e-vehicles, increasing accessibility to charging infrastructure for both public and private sector in urban and rural areas, and alternative fuels mobility;
- development of charging infrastructure powered by alternative sources like biogas;
- support to the deployment, purchase of alternative fuel vehicles in public transport by financial incentives and setting up regional financial support schemes;
- promotion of electromobility in niche market fleets (i.e taxi), public transport (bus and ferry fleets) and urban logistics;
- promotion of new measures favouring public-private partnership (PPP) in e-mobility sector;
- enhancement of the capability of public authorities in developing effective policies for reducing the carbon footprint of transport activities, addressing general and specific challenges of environmental protection included in Operational Programmes.



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Interreg
Alpine Space
e-SMART
EUROPEAN REGIONAL DEVELOPMENT FUND



- In the Alpine Space **e-vehicles are strongly increasing**
- Public Administrations should support this diffusion and a **better perception of citizens** about e-mobility benefits, by experimenting and **investing on e-mobility in Local Public Transport (LPT) and City/Last-Mile Freight Logistics (LML) sectors.**
- e-mobility applied to LPT and LML can demand a higher, localized energy density therefore it's necessary to invest for the **electricity grid reinforcement** that should be planned in advance taking in consideration the **link to RSE and micro-grid and local energy community models.**

The challenges to overtake:

- **PAs' awareness** of energy & smart grid functionalities, charging infrastructure localization planning and digitalization,
- **coordination among public and private actors**, therefore support a participatory approach
- **data availability and sharing among public and private in a smart village ecosystem vision**



European Committee
of the Regions



PROVINCIA
DI BRESCIA



ALOT
INNOVATION FOR
SUSTAINABILITY

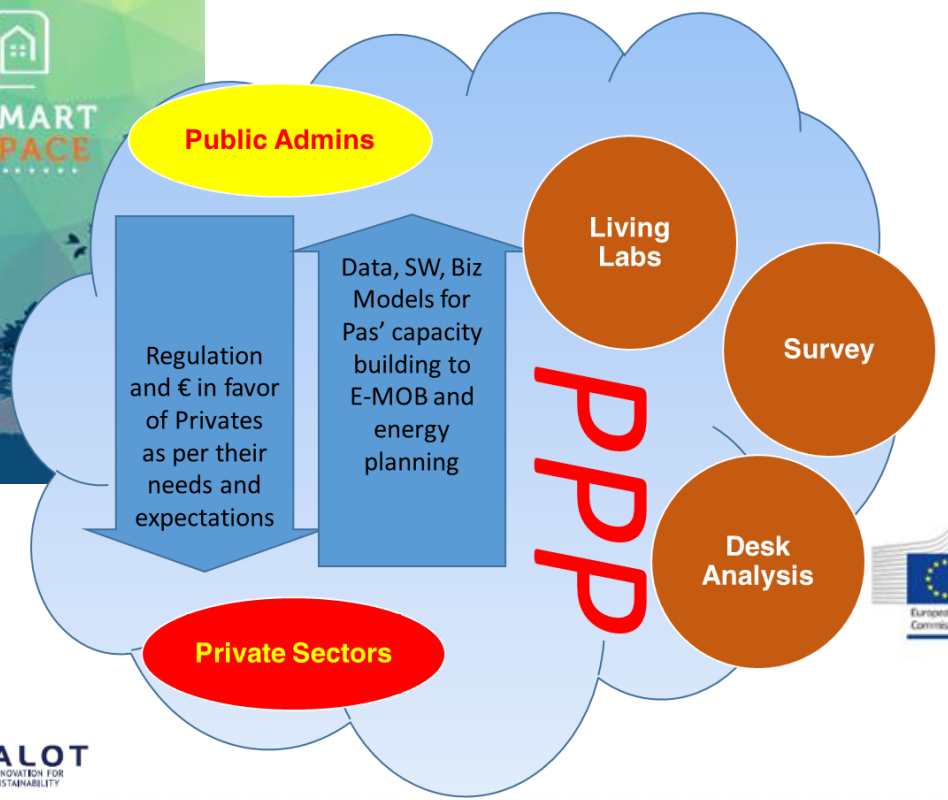


Overall Objective

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Thanks to cooperation of regional and local authorities with the private sector, the project will design and test an operational model to plan E-CS (Electric Charging Stations) in the framework of smart grid, smart territories and e-mobility services in passengers and freight transports (Local Public Transport and City/Last-Mile Freight Logistics)



Core Output 1

Policy Road-Maps for common benefits:

Government

- Effective Procurement resulting in services, solutions and architectures that are interoperable
- Data driven policies
- Attracting private investment
- Higher quality, greener mobility for Alpine region

Private Sector

- Business Development
- Facilitate partnerships with public sector
- Enable and sustain local companies
- Scale!

Territory Citizens

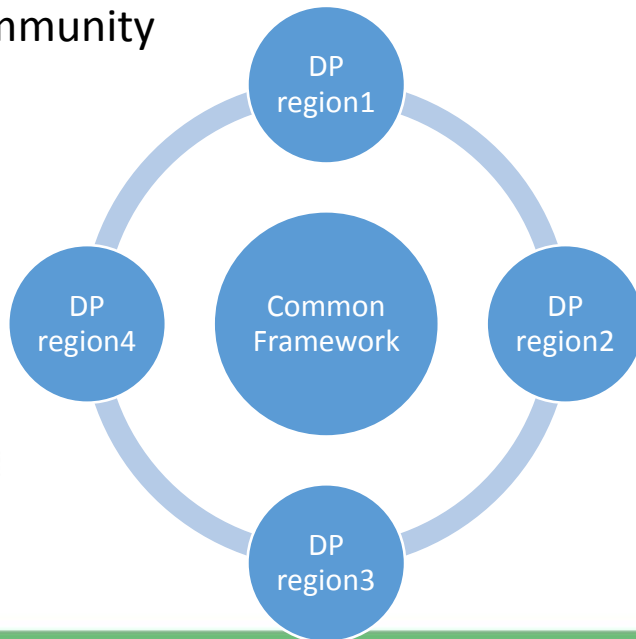
- Better, greener, multi-modal mobility
- More (green and digital) services
- New job opportunities
- Enhanced quality of life



Core Output 2: Model of Regional Data Platform

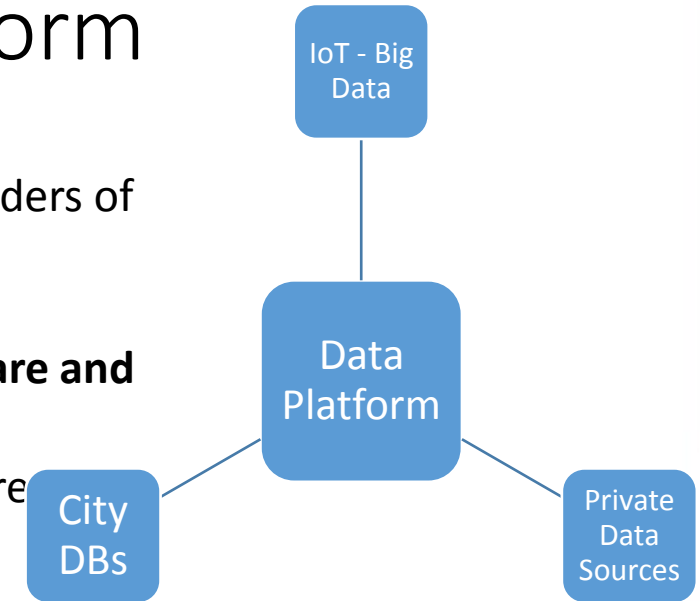
What and Why:

- A **unique and comprehensive source** of services and information for main stakeholders of a region to facilitate development of green and digital , public and private services according to new business models
- A place where stakeholders, referring to different application domains, can join, **share and build new attractive Services** to citizens and companies
- An extremely powerful **tool for planning social and economic development** of the regional community



How:

- Developing a **joint feasibility** study which defines **how to design and implement** a data platform for all regions
- Defining a **shared framework** for the regional community able to **sustain independent implementation** in each region
- Implementing a **real pilot** for those regions interested to test the platform



To sum-up: lessons learned

1. Fast Track to Innovation (FTI) of private sector trends;
2. Jointly actions with knowledge merge from Universities and Competence Centers

Therefore ...

3. Collaboration and Public-Private Partnership to gain a greater awareness and to enable tools (planning and monitoring) related to e-mobility, smart grids, smart territories and digitalization:
 - Inclusion process to express needs and find effective solutions
 - Strategic tools for planning (transnational and operational road map).
4. Digital initiatives to facilitate planning and monitoring of electric mobility for private users but moreover where the PA are planning as per Public Transport and Freight transport sectors jointly with the energy smart grids (ecosystem, data platform, database, applications, etc.)

Moreover:

5. Policies with a multi-sectorial integration: mobility, energy, environment, R & I, social rights & education





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Thank you for your attention
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