

## Pilot - Lombardy region, Province of Brescia

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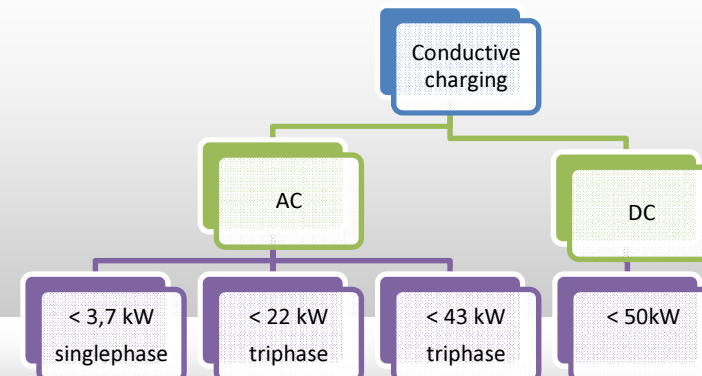
“Energy in Motion”

A.L.O.T. s.c.ar.l.



## Before AlpStore: Our Challenges

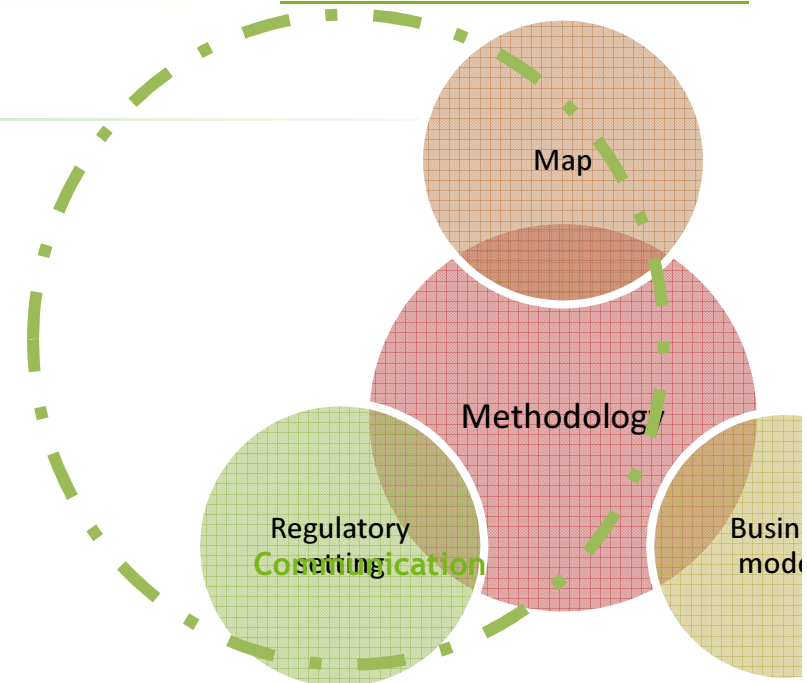
- A territorial analysis of the Province of Brescia, aimed to a definition of an optimal architecture for a network of charging stations for EV overcoming *the range anxiety*, combined to the storage of electric energy produced by renewable resources;
- technological suggestions;
- business model for companies and stakeholders that will manage the charging/storage stations (*service providers*).



## During AlpStore: Our Activities

Three main phases:

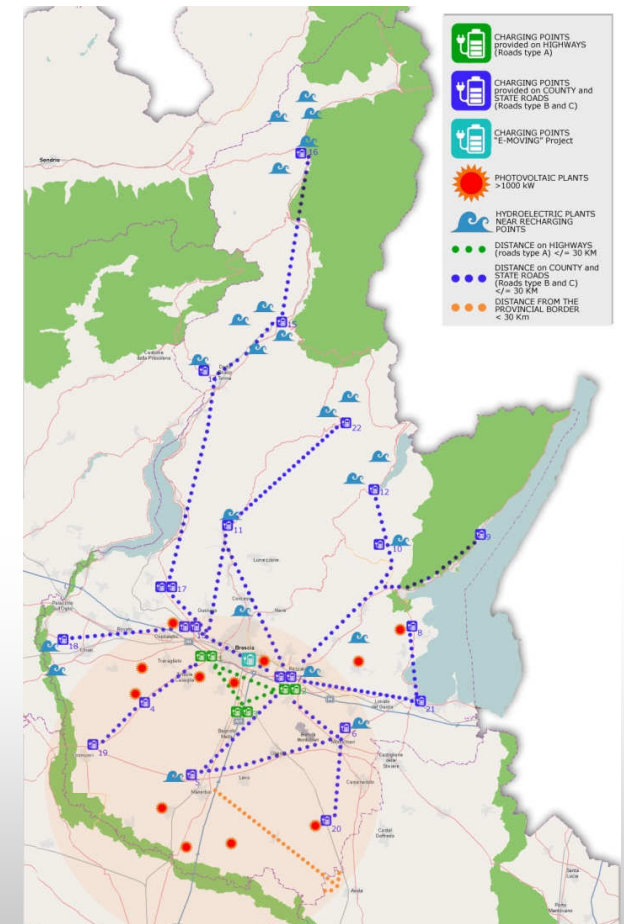
- Defining a map of optimal locations for storages/charging stations and identifying a economically sustainable management mode for the infrastructure;
- Defining and describing the Business model;
- Defining a regulatory/legislative setting which protects and incentives the set up for the network of charging/storage stations, especially in the phase of first penetration in the region.



TYPE OF CHARGING	Utility (A2A)	Subscription and parking (ENERGY CAR)	Sponsor (EVBILITY)	Electric car sharing	Renewable energy production and charge service sales (SEU)	Charging service sale included in other services	Production, storage and charge service sales (OIL&SUN)	Transport and Logistic (Energym ob.)
SLOW	(domestic / public)	(public)		(public)		(public)		(domestic / public)
QUICK	(public)		(public)	(public)	(public)	(public)	(public)	
FAST					(public)	(public)	(public)	(domestic / public)

## After AlpStore: Our Achievements

- Two maps were defined for the location of the recharge stations in the Province of Brescia; in summary, **22 stations along the roadways** and **444 stations near poles** which attract traffic, completely cover all the territory of the Province, allowing the EVs to freely move without restrictions, overcoming the *range anxiety*. The location of the recharging stations is also polarized on the location of renewable energy plants;
- A collection of the **business model** identified for charging/storage service provider;
- A report with **regulatory proposals** and a list of **key-actions** for the Public Administration;
- The detailed description of the methodology;
- Planning a communication program.





## After AlpStore: Our Recommendations

Storage and electric mobility, some milestone:

- Recharging infrastructure combined to the production of energy from renewable sources and storage are not developed because there is not a significant development of the electric mobility;
- There exist no more technological limits to the spreading of the electrical vehicles and electrical mobility is not nowadays an experimental technology;
- Policies at zero costs may be effective in order to support e-mobility and storage solutions
- The economic limits tied to the overpricing of the electric vehicles are much overestimated in respect of reality and the charging infrastructure with the support of storage, mainly G2V, may optimize renewable energy development and local communities' energy balance

Exhibition	★	5
Health facilities	◆	32
Cinema	▲	43
Railway stations	✱	56
Shopping centers	★	81
Methane service stations	★	21
Municipalities	★	206
<b>TOTAL</b>		<b>444</b>

