



Carlos Bergera



**FROM PROJECT
TO MARKET**

A STORY OF INNOVATION



Energy transition, electromobility and innovation

“ ... the energy transition is the area of innovation par excellence.”

“ ... mobility electrification, ... is a clear driver to transform the activities of European energy companies through innovation. ... They should generate internal processes of disruption ... taking advantage of the innovative internal potential.”

“ ... beyond a moral duty imposed by the climate change, the energy transition is a tremendous industrial opportunity for Europe to generate growth, employment and competitiveness.”

The energy transition and the innovative ecosystem in Europe.
FuncasBLOG. Jul '18



SMART MOBILITY: DEMO PROJECTS

Year	Region	CP	FCP
2010	ANDALUCÍA	13	0
2011	VALLADOLID - PALENCIA	43	0
2012	GUIPÚZCOA / SARECAR	5	0
2013	BARCELONA	34	0
2014	MADRID	24	0
2015	PAMPLONA / CARSHARING	16	0
2016	CASTILLA Y LEÓN	18	0
2017	VIZCAYA	4	0
2018	SALAMANCA	5	0
2018	PAMPLONA	4	0
2018	BILBAO	0	2



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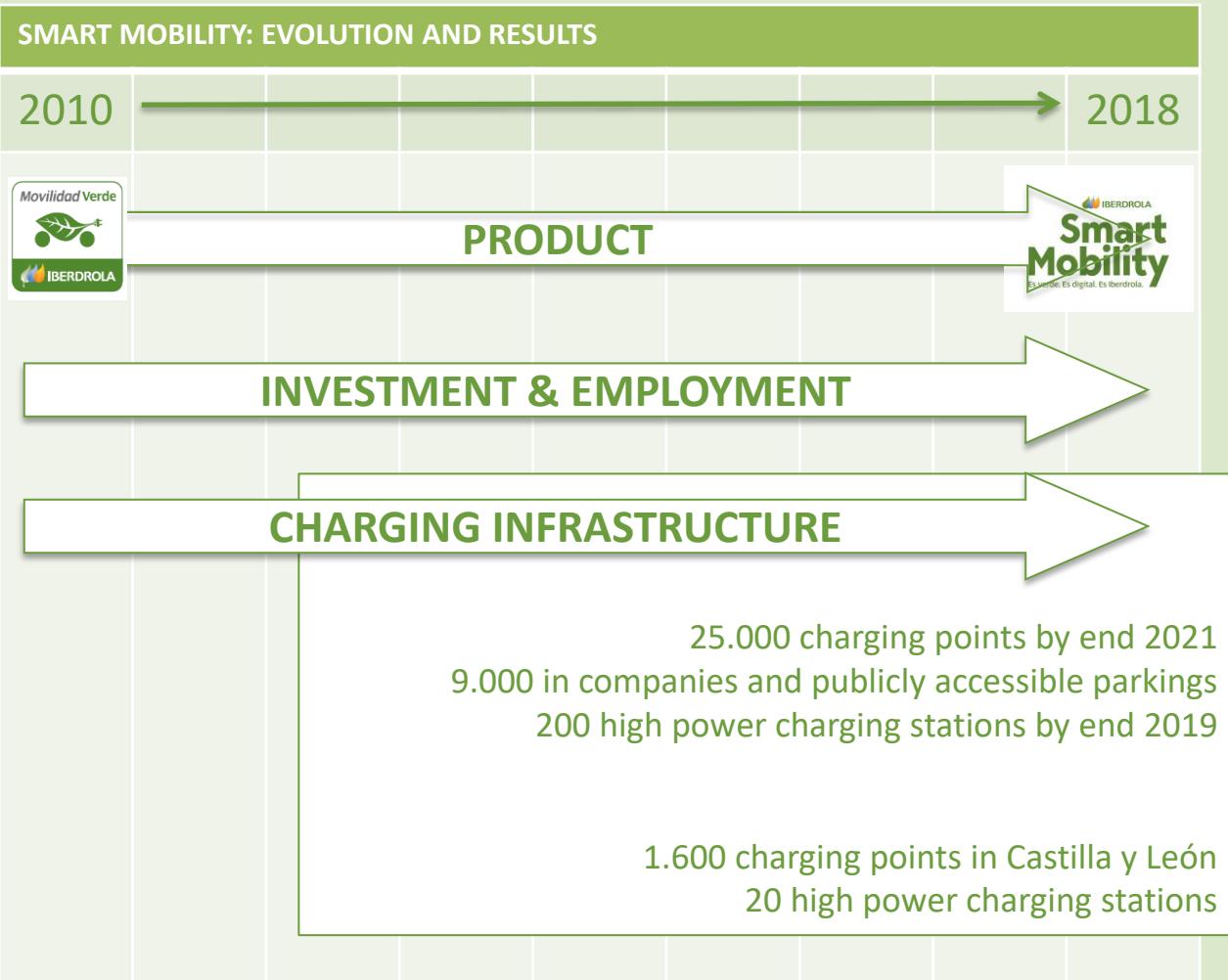
SMART MOBILITY: R&D PROJECTS								
2010	2011	2012	2013	2014	2015	2016	2017	2018
	SURTIDOR Fast charging ChaDeMo system							
	MUGIELEC Charging system development							
	GREEN EMOTION Standard and interoperable charging systems development in Europe							
	ICT4 EV EU Interoperability and public charging							
		AZKARGA Fast, smart, flexible and manageable charging for electric vehicles						
			REMOURBAN Energy, mobility and ICT integration in Smart Cities					



SMART MOBILITY: COOPERATION AGREEMENTS

2010	2011	2012	2013	2014	2015	2016	2017	2018
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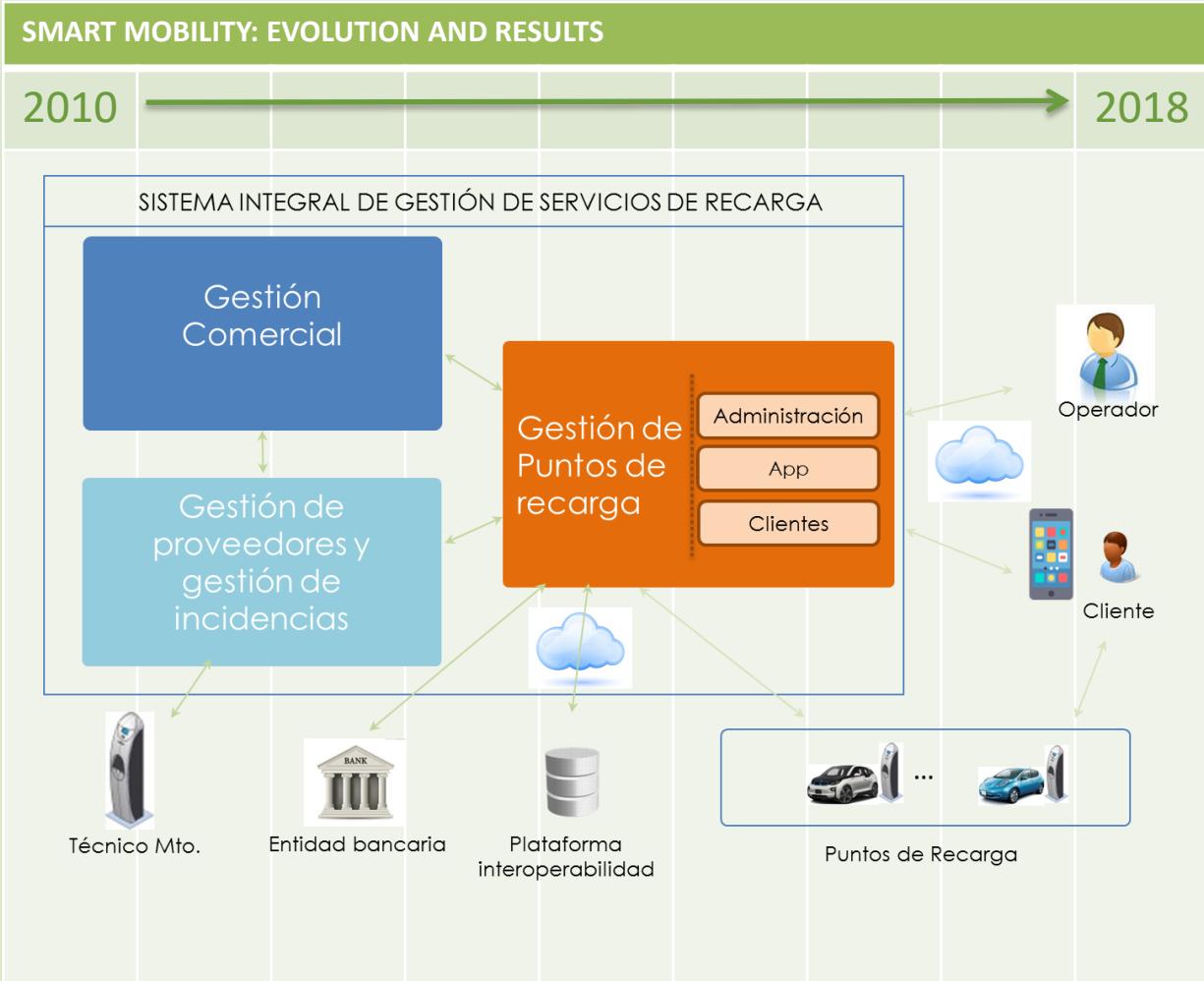
								
								
								
								
								
								





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 **Smart
Mobility**





REMOURBAN PROJECT. 2015 - 2019

REgeneration MOdel for accelerating the smart **URBAN** transformation



Develop and demonstrate a **holistic** and highly replicable urban regeneration model to

- leverage the **convergence** of energy, mobility and ICT
- accelerate the **development** of innovative technologies, organisational and economic solutions
- increase resource and energy efficiency improve the sustainability of urban transport and drastically **reduce** greenhouse gases (GHG) emissions in urban areas
- facilitate **replication** across Europe
- **empower citizens** to be actors in their cities' transformation

Mobility

Create a **new culture of urban transport** reducing demand for emission-intensive transport models



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IBERDROLA
**Smart
Mobility**



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 **Smart
Mobility**

REMOURBAN PROJECT. 2015 - 2019



Drive urban innovation

Interventions and expected impacts

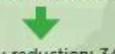
Low Energy Districts



Retrofitting, renewable heating and cooling, distributed energy generation, monitoring tools for energy efficiency, electricity distribution and advanced building energy management systems

CURRENT DISTRICTS

4,500 kWh/person-yr
1,485 kg of CO₂/person-yr



Energy reduction: 34%
CO₂ emissions reduction: 50%

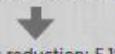
Sustainable Mobility



Clean energy vehicles, renewed transport infrastructures and plans for reduced energy consumption and CO₂ emissions

CURRENT MOBILITY

8,340 kWh/person-yr
2,752 kg of CO₂/person-yr



Energy reduction: 5,1%
CO₂ emissions reduction: 5%

Integrated Infrastructures



Smart grid connectivity, city information platforms, optimized traffic flows, multi-modal transport solutions and collaborative information transfer

19 Charging Points

- 14 upgraded to 7,4 Kw Shucko + Mennekces (type 2)
- 4 of 22 Kw
- 1 fast charger

Connected to IBERDROLA's back end system to operate and monitor

Accessible from IBERDROLA's Public charge APP

- Easy and intuitive
- EV user doesn't need to have a previous contract
- Features: Charge, Reserve, Route to the Location, Charge session, Historical, ...



REMOURBAN PROJECT. 2015 - 2019





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THANK YOU FOR YOUR ATTENTION!