





The CHALLENGES

Currently most EV owners have their own garage and live in peri-urban areas...

Current business models and revenues from charging infrastructure are not enough to ensure a sustained market growth...

The market share of full electric vehicles is still low in many European member states...

Innovative solutions are required to allow EV drivers having a similar mobility experience than with conventional vehicles...

Support the accelerated deployment of EV charging infrastructure in Europe

THE PROJECT

USER-CHI is an industry-powered, city-driven and user-centric project which will co-create and demonstrate smart solutions around 7 connecting nodes of the Mediterranean and Scandinavian-Mediterranean TEN-T corridors to boost a massive e-mobility market take-up in Europe.

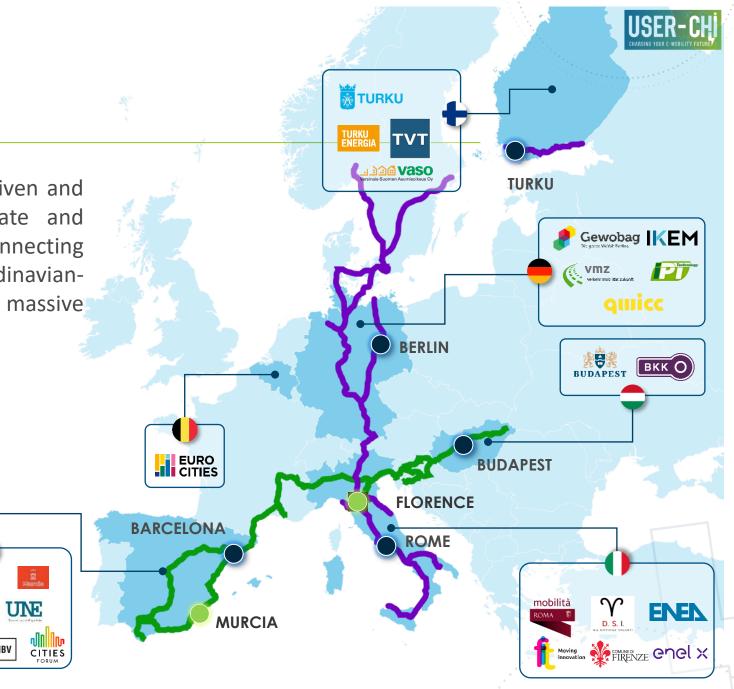
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CIRCONTROL Mobility & allobility

5 demo sites + 2 replication cities

- Barcelona
- Berlin
- Budapest
- Rome
- Turku
- Florence
- Murcia





Objectives

- DESIGN OPTIMISATION OF CHARGING NETWORKS WITH A USER-CENTRIC APPROACH
- DEVELOPMENT OF INNOVATIVE AND HIGHLY CONVENIENT CHARGING SYSTEMS

- DEPLOYMENT OF AN INTEROPERABILITY FRAMEWORK AND PLATFORM
- DEMONSTRATION OF NOVEL BUSINESS AND MARKET MODELS

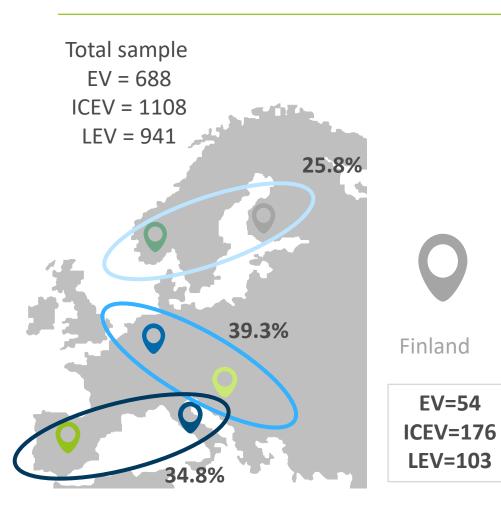
- SCALABLE INFRASTRUCTURE ROLL-OUT BY MEANS OF SMART GRID INTEGRATION
- LEGAL AND REGULATORY RECOMMENDATIONS FOR MASSIVE EV DEPLOYMENT





2. Main results of USER-CHI survey. Sample description

EV=54



A survey performed in six EU countries (Finland, Hungary, Germany, Italy, Norway and Spain) from 21st of July to 31st of July (2020)





Italy

EV=134



Germany

EV=169

ICEV=188 LEV=165

Hungary

EV=117 ICEV=113 ICEV=271 LEV=167 LEV=232

Norway

EV=72 ICEV=202 LEV=100

Spain

EV=142 ICEV=158 LEV=174





2. Main results of USER-CHI survey

Differences of Type user/driver between EV vs ICEV

Satisfaction level with your car





4.4

4.4



Mean of EV

Mean of ICEV



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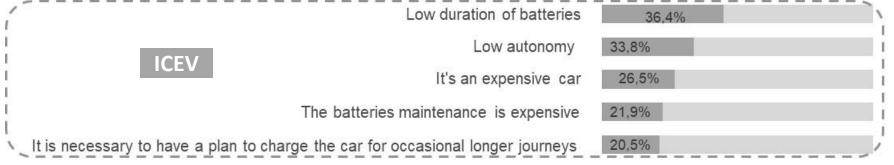


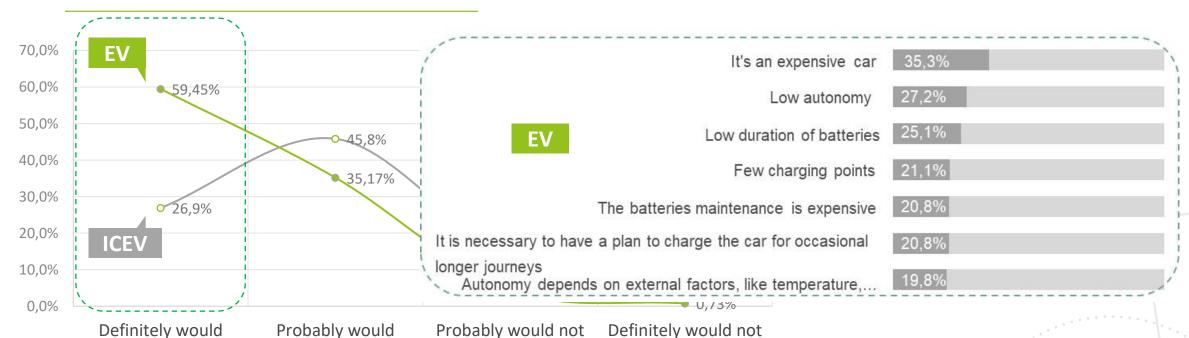


2. Main results of USER-CHI survey. Would you buy an electric vehicle as your next

car? (EV vs ICEV)

05/11/2020









2. Main results of USER-CHI survey. Electromobility plans

Thinking in a new generation of charging stations: which are your expectations regarding features they should have? (Check the most relevant three options)





	Standardization of technical components	32,4%	
	Easy access to the charging points and properly signalized	27,9%	
	Automatic user detection in the charging point	25,6%	
	Availability of charging infrastructure on the (small) neighborhood level	25,4%	
11111	Interoperability at European level	23,5%	
1 1 1	Excellent availability (multiple chargers on one location)	21,8%	
200	Increase charging points locations	20,8%	
	Availability of charging infrastructure on the Overnight parking, Shop & charge and Streetlight-parking	17,3%	
	Registration and payment in an application	16,9%	
	Regular payment methods	13,4%	
A	Roaming	12,8%	

0,7%

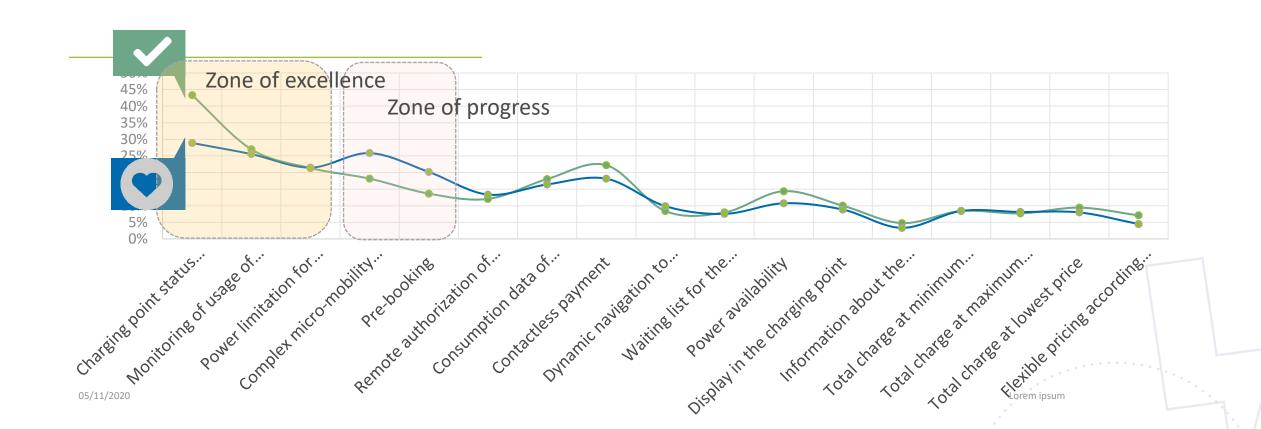
Other

05/11/2020 Lorem ipsum





2. Main results of USER-CHI survey. SERVICE FEATURES. Differences between "the features that they are employing actually" and "the features they are more interested in"







2. Main results of USER-CHI survey. CHARGING EXPERIENCE -APPs

Which is the charging app you use?

4.2



Rate of App





Tesla	23%	
Easycharger	15%	
I don't use app	14%	
Electromaps	13%	
EV charge	12%	
Chargeway	12%	
Enel X	12%	
Duferco	11%	
Nextcharge	7%	
Plugshare	7%	
Ionity	7%	
K-lataus	5%	
Plugsurfing	5%	
Ibil	4%	
Juice pass	4%	
AMB	3%	
Virta	2%	
Smou	2%	
Other	5% Lorem ipsum	10

2. Main results of USER-CHI survey. Best ideas to improve the charging process



/ 	Increase the amount of fast charging points 39.5%	
1111	Several plugs per charging point or simultaneous charge of EVs 30,5%	
1 1 1	Customization of the charging speed / charging time 26,2%	
1 1 1 1	Real time information about availability, type of plug, and booking list for next 30 minutes and on 25,6%	
1111	Monitoring the charging progress on a mobile app 22,8%	
į	Increase the amount of charging points in public parking lots 20,2%	
	Efficient procedure for communicating failures&malfunctions of charging 14,5%	

points

Priority for electric vehicles

Universal plugs or availability of all plug models

Incentives: highways for free, exclusive parking lots for EVs, 10,3%

Charging points at the workplaces

Increase the amount of charging points on the road...

Penalizations for drivers that use charging points as parking lots

Charging point activates when connecting the plug or through a mobile application 3,8%

Mobile phone's alert when charging time is exceded in 30 minutes

Improve maintenance and improve facilities (e.g. a roof for the rain) 3,6%

Mobile phone's alert when charging process is completed

Other (please specify)





THANK YOU!

CONNECT WITH US:

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