Making of EV-roaming solution: integration of payment schemes in France

FOURTH CHADEMO MEMBER MEETING Barcelona, 2013-11-20

Gilles BERNARD
GIREVE
Chairman of the Board



GIREVE: a company created by 5 major actors implied in e-mobility











2009 2010 2011 2012 2013

French Plan of Action for e-mobility.
W.G. on payment & Roaming

Oct. 2012 : agreement to create
GIREVE Co

SAS

« Dedicated to a charging infrastructure visible, accessible and interoperable »

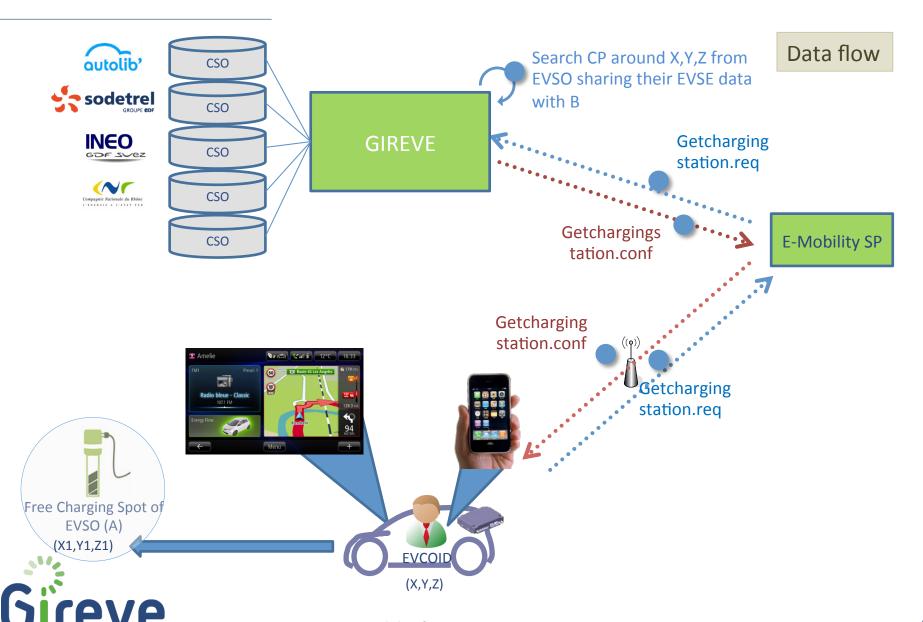


A need for real time data exchange for end user convenience

- Mapping of publicly accessible charging points (CP) is under development, but end users need more:
- Information on status of the CP: available or not.
- Possibility to reserve a CP at the destination proximity.
- Authorization to charge for a customer having a mobility contract with another operator.
- Charging conditions settlement for the sake of the end customer
- Payment through a single contract with an e-Mobility service provider.
- Smart charging for energy efficiency
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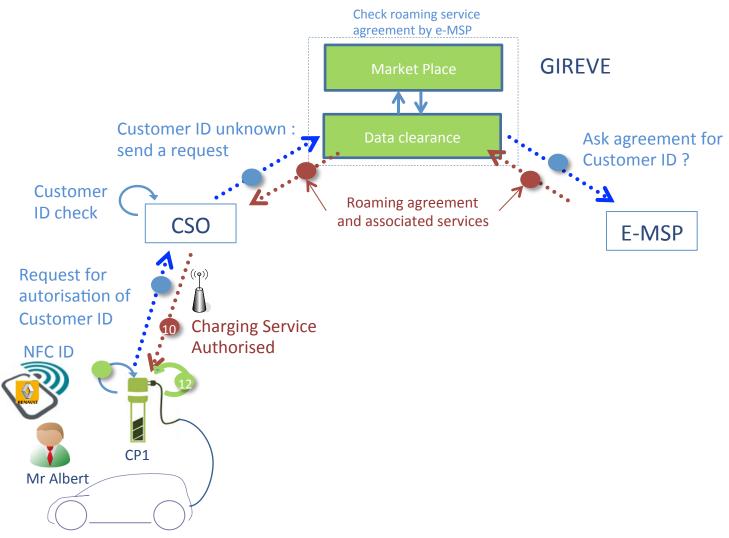


« Charge Spot Finder »: Find available charge spots



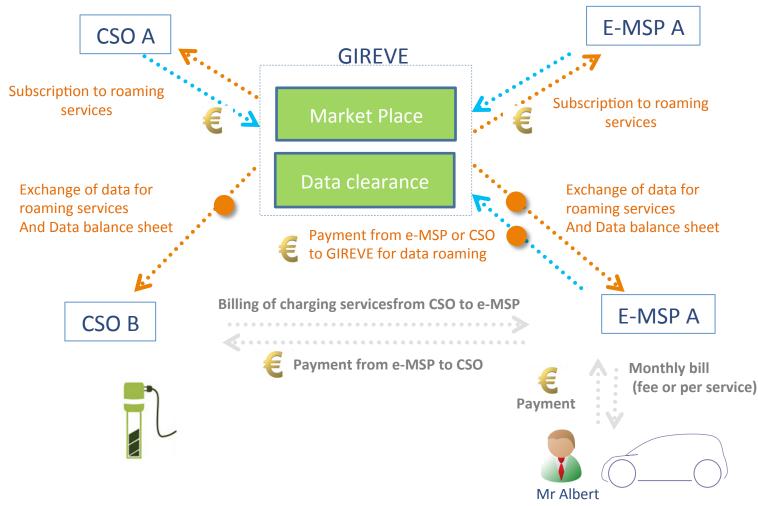
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« Charge service Authorisation »: Access to a charging spot





« Data clearance »: Exchange of data and balance sheet emission for roaming services



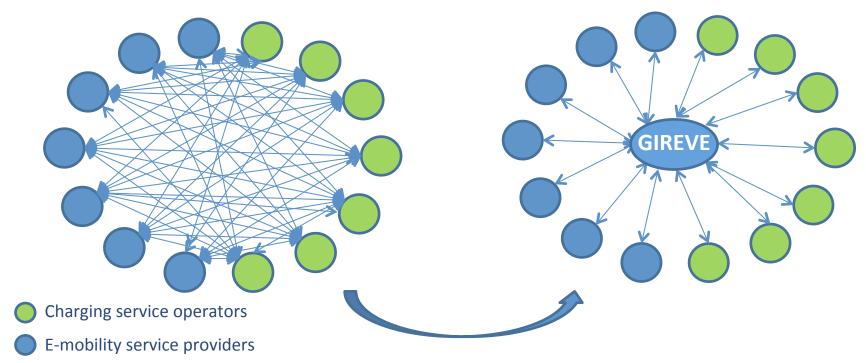


Easy introduction of new players on the market





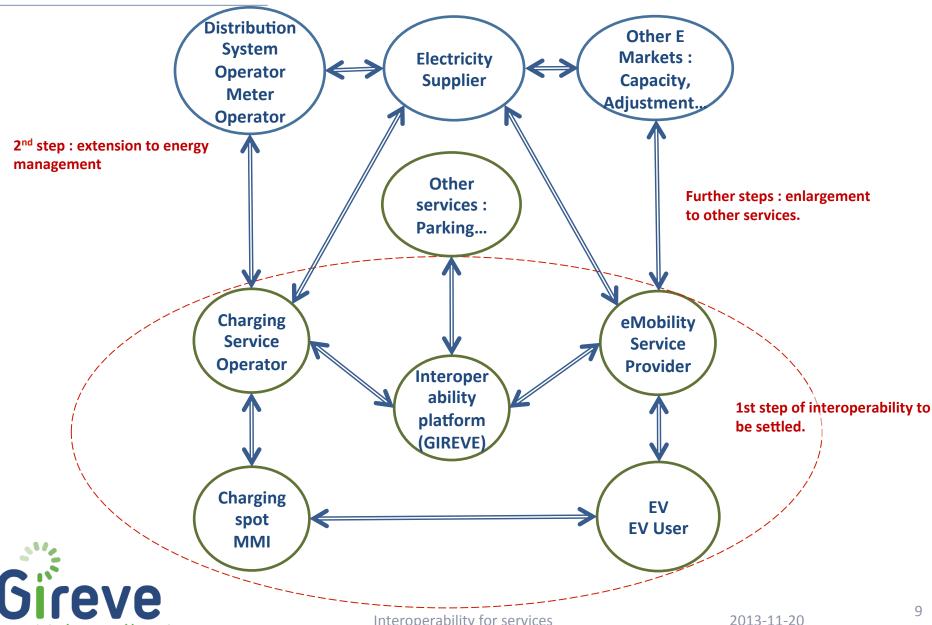
Interoperability platform for an open and fluid market of services.



A place to create an open and competitive market of operators producing high value services for the final customer using an EV, freeing him from the burden of autonomy and charging management.

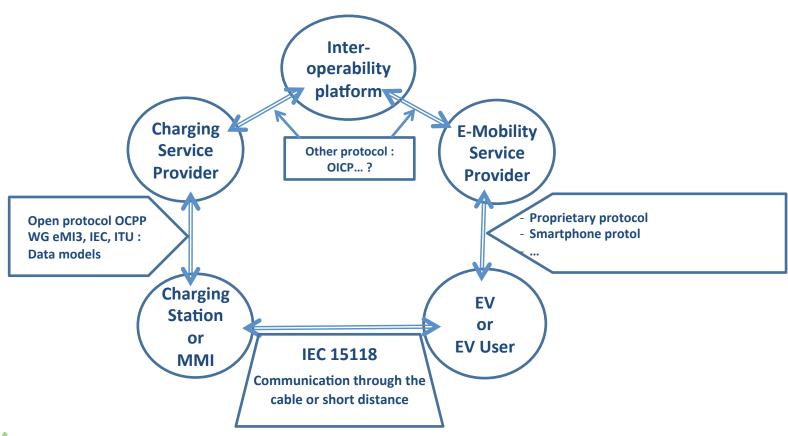


System design: codification of roles and their interactions.



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System design: standardisation of protocols between different roles (under construction).



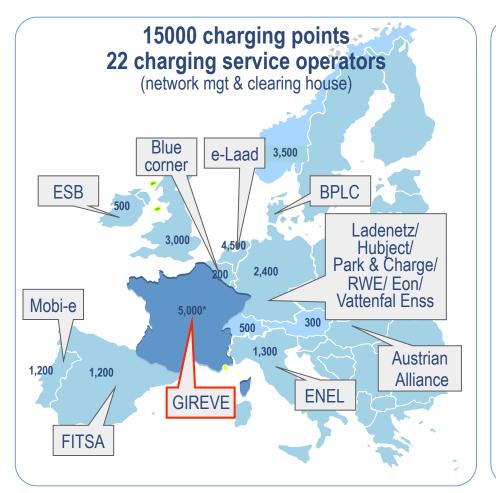


Situation in France for the time being

- Public charging points are installed in streets, public parking and private parking (supermarkets, hotels, and also businesses...) -> # 10 000 CP by end 2013.
- Multiple investors: mostly public (local communities) and private (parking operators, trading centers, hotels, Companies...)
- Either they are dumb (not communicating), or they are operated in a closed perimeter (Autolib, Charging service operators).
- Some private initiatives are launched to create e-mobility service providers through bilateral agreements with charging service operators.



Similar initiatives in Europe



Standardisation process for e-mobility and charging interoperability (beyond plugs).



Multiple European initiatives



Mobi-Europe (DG Connect)



Green e-Motion (DG Transport)

Plateforms for eRoaming

eMI3 Alliance to establish interoperability standards

