12th ITS EUROPEAN CONGRESS
ITS BEYOND BORDERS
Strasbourg, France | 19-22 June 2017

Digital and seamless: Core driver for a successful eMobility market

HUBJECT
connecting emobility networks

Sonja Pajkovska
R&D / Innovation Manager

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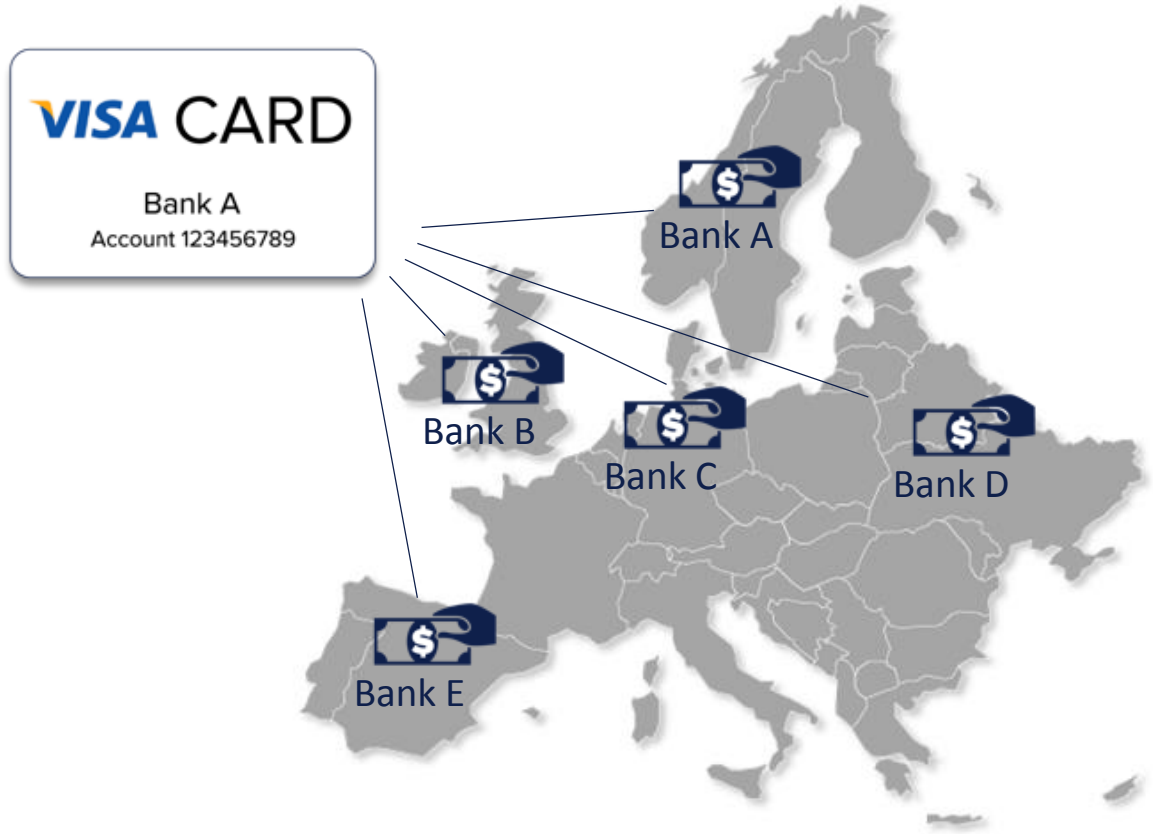
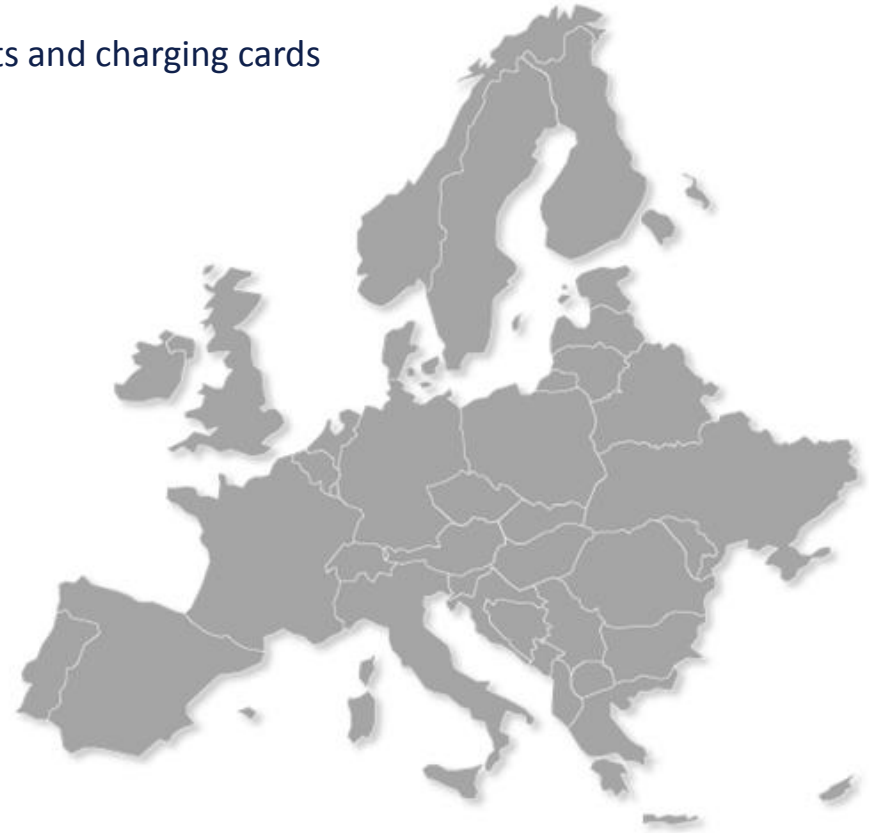
ANALOGY: WHAT DO I NEED TO WITHDRAW CASH WITH MY CREDIT CARD?



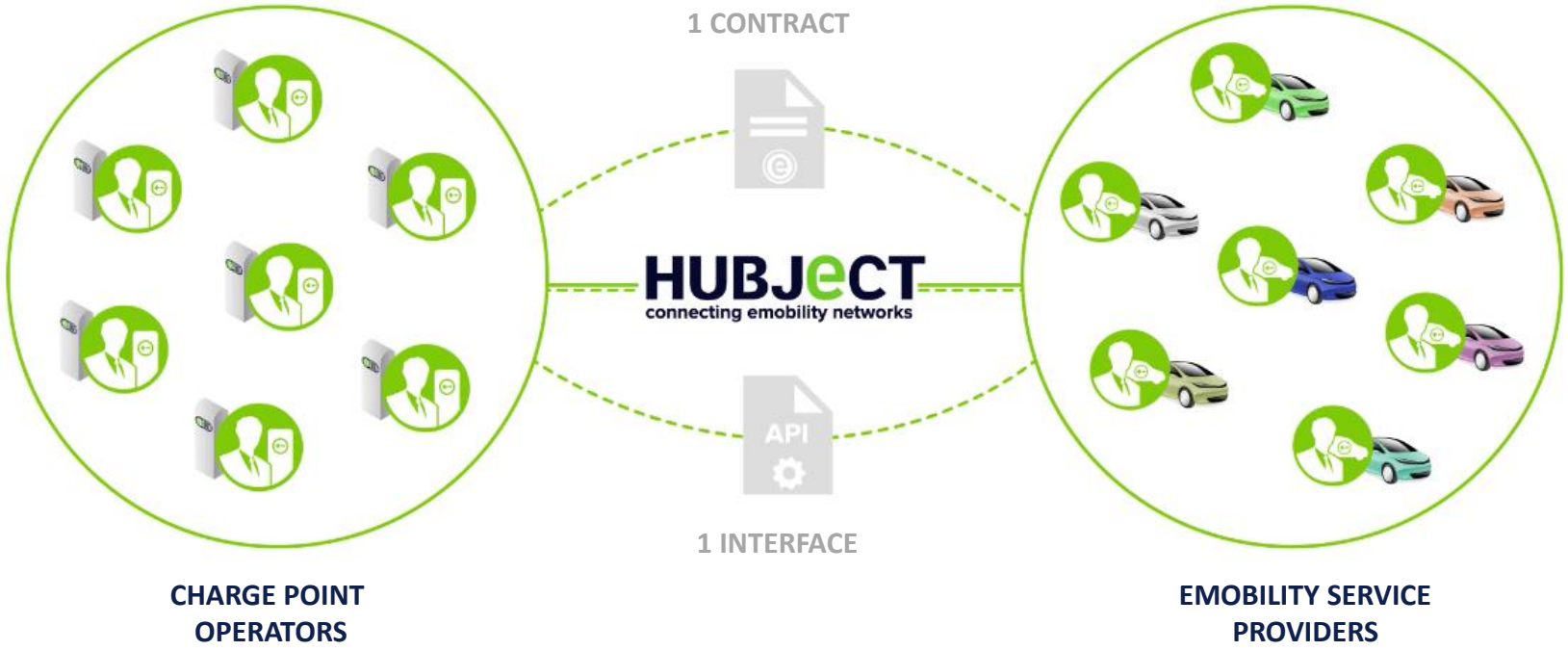
WHAT DO I NEED TO CHARGE AN EV ONLY THROUGHOUT EUROPE?

Over 500 contracts and charging cards

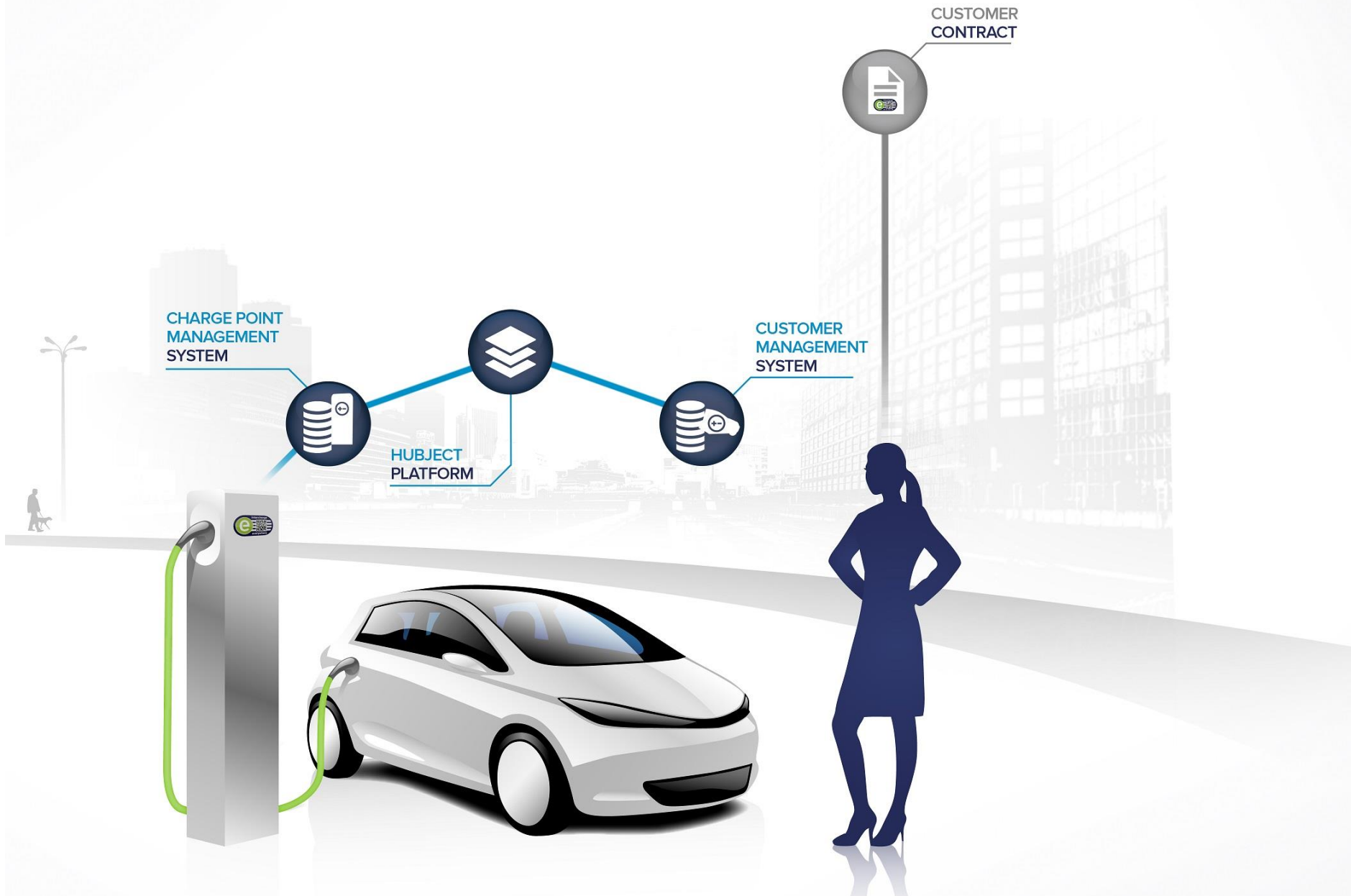


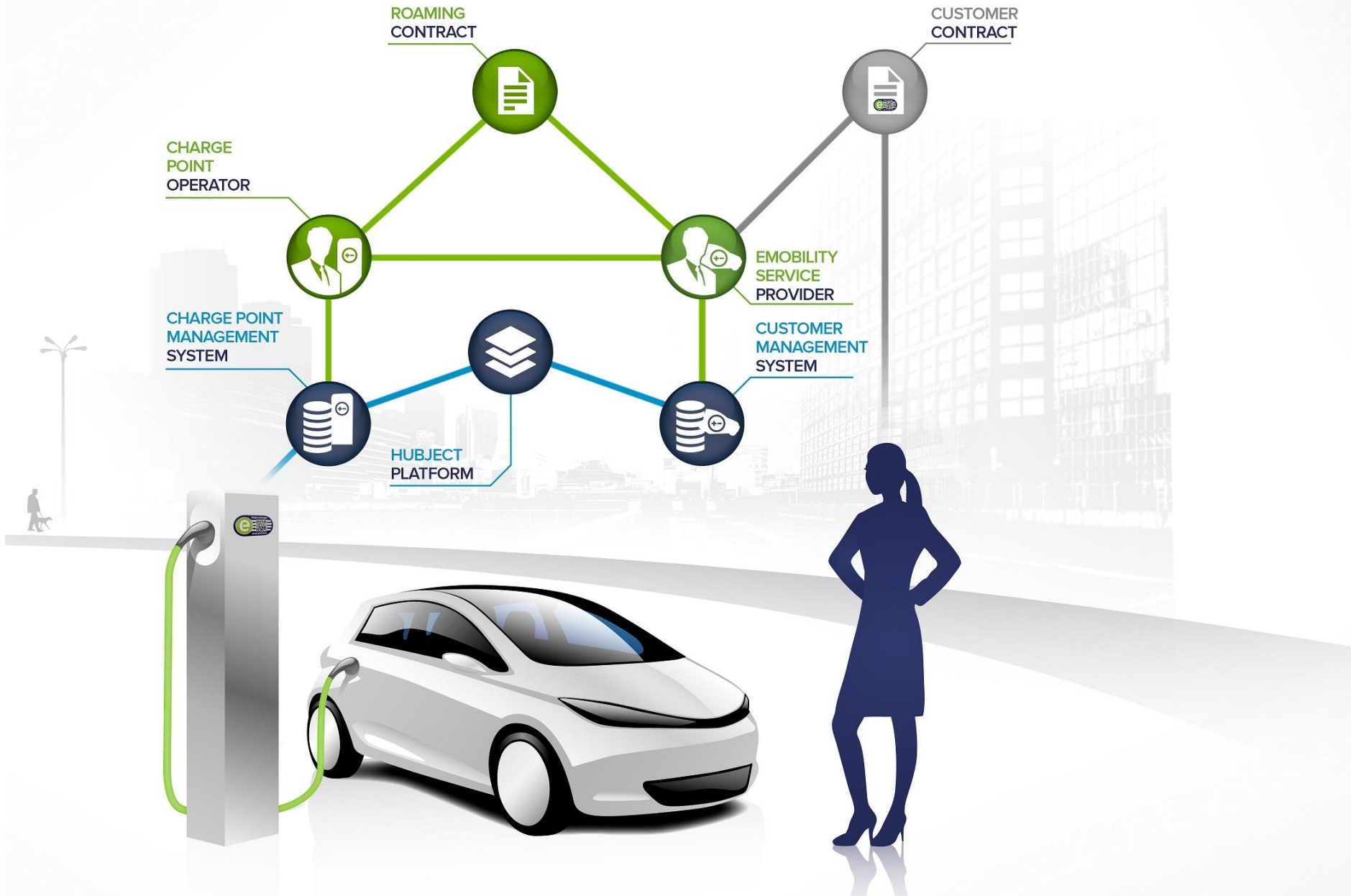
STATUS QUO: BIGGEST INTERNATIONAL CHARGING NETWORK WITH 250 PARTNERS AND OVER 43.500 CHARGE POINTS

HUBJECT CONNECTS VARIOUS CHARGE POINT OPERATORS AND EMOBILITY SERVICE PROVIDERS ON ITS PLATFORM

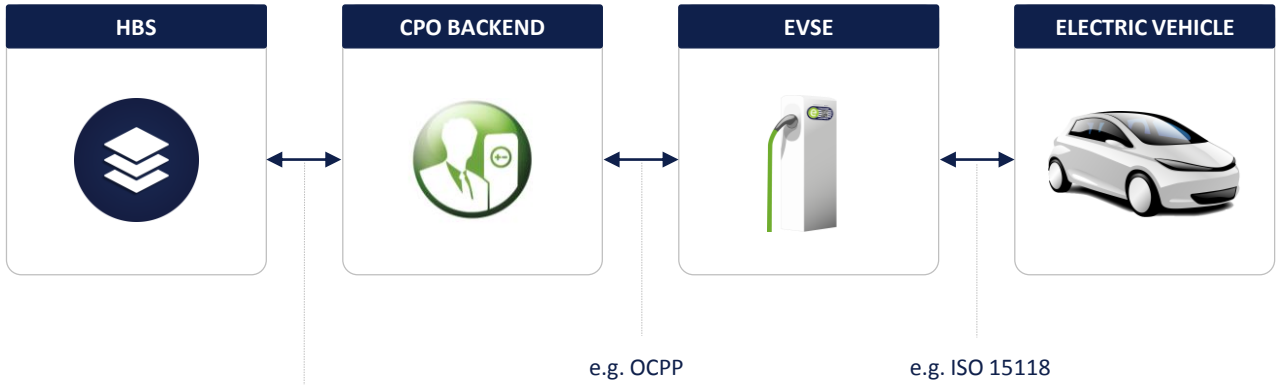


CUSTOMER
CONTRACT


CUSTOMER
CONTRACT
CHARGE POINT
MANAGEMENT
SYSTEM
HUBJECT
PLATFORM
CUSTOMER
MANAGEMENT
SYSTEM


ROAMING
CONTRACT
CUSTOMER
CONTRACT
CHARGE
POINT
OPERATOR
EMOBILITY
SERVICE
PROVIDER
CHARGE POINT
MANAGEMENT
SYSTEM
CUSTOMER
MANAGEMENT
SYSTEM
HUBJECT
PLATFORM

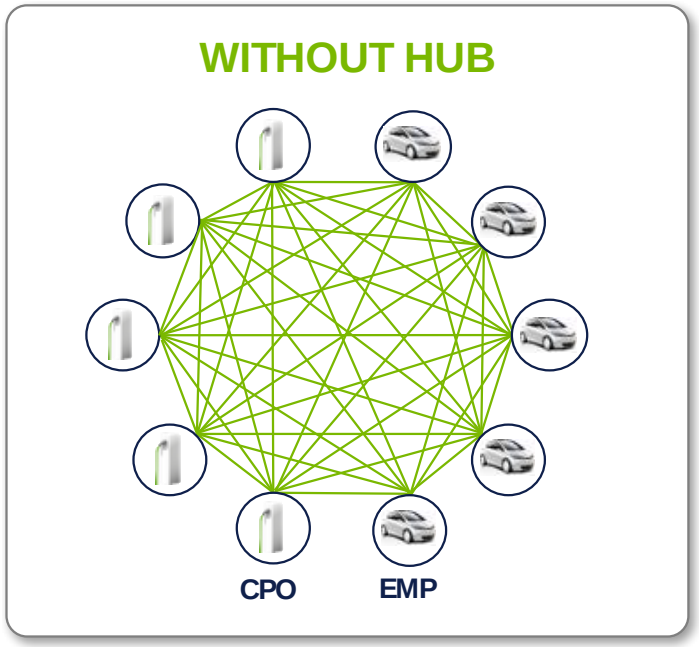
eROAMING M2M COMMUNICATION

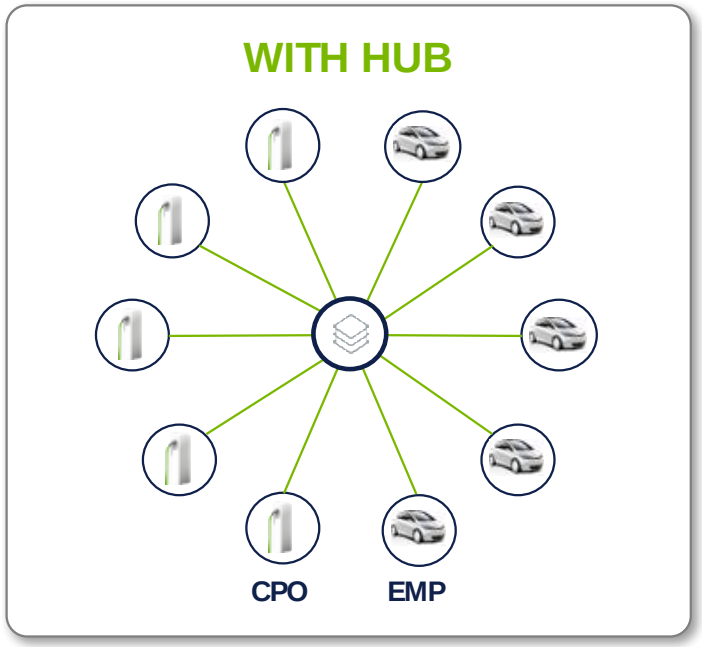


OICP

- Leading international eRoaming protocol
- Open protocol – but mature governance!
- First ISO15118/Plug&Charge ready protocol available today
- Defines all needed M2M communication modules
- Includes detailed information about business processes
- Standarzed support model for technical implementation

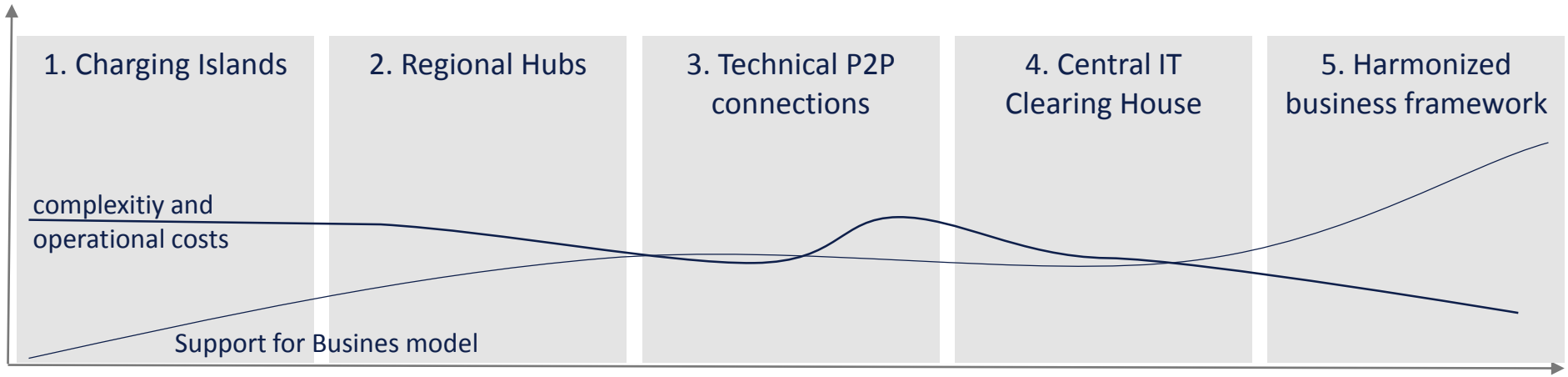
OVERVIEW eROAMING MODELS





EROAMING MATURITY MODEL

B2B PERSPECTIVE



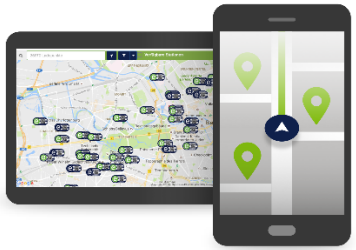
1. Charging Islands	2. Regional Hubs	3. Technical P2P connections	4. Central IT Clearing House	5. Harmonized business framework
▪ No connection between different operators ▪ No payment ▪ No Value added services ▪ Development only based on external triggers (regulation)	▪ Whitelist based ▪ Low Secirty level ▪ manually triggered processes with high operational costs	▪ realtime data possible ▪ high connection costs ▪ no common value added services	▪ real time data ▪ no joint service level – customer experience based on the “weakest part of the chain“	▪ Harmonized Business Framework leads to common service levels -> B2C customer exp. the same experience on each charge point

AIMS AND BACKGROUND PAN-EUROPEAN EROAMING INITIATIVE

1. interconnecting five major eRoaming platforms across Europe
2. simplifying charging of electric vehicles on a cross-operator and cross-border level
3. reducing existing barriers and provide a European interoperable charging infrastructure
4. following a path that is desired by policymakers (e.g. EU directive CPT)
5. being open to other entities operating in the field of emobility

SEAMLESS EV CHARGING FOR EVERYONE. EVERYWHERE.

SEARCH



FIND

CHARGE

Thank you for your Attention

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Sonja Pajkovska Goceva
Manager R&D / Innovation

Hubject GmbH
EUREF-Campus 13
10829 Berlin

T +49 30 788 9320 19
M +49 152 592 971 44
F +49 30 7889320-29

sonja.pajkovska@hubject.com
www.hubject.com