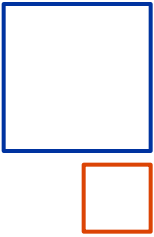


ENEL: Electric Mobility Solution

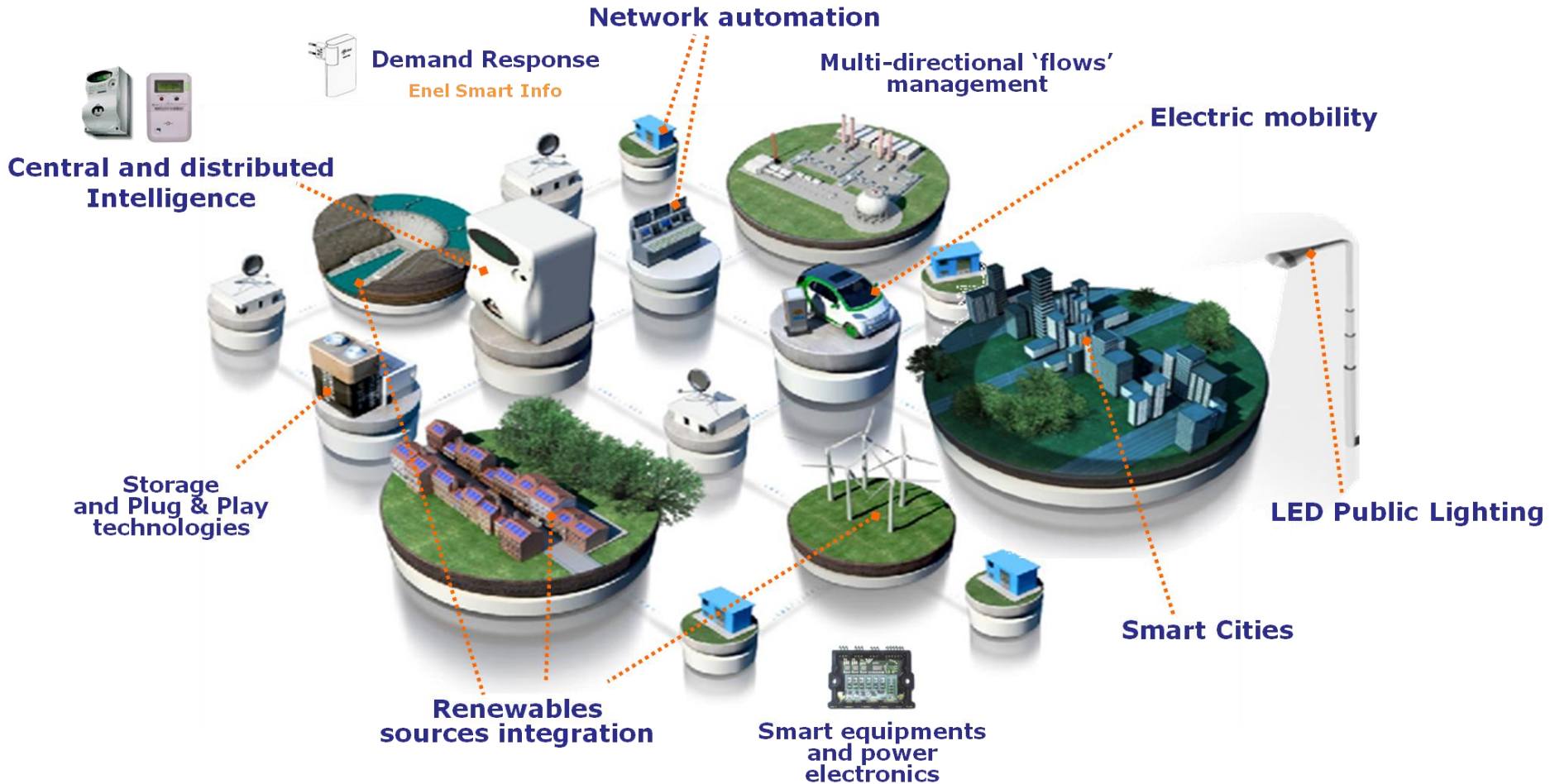
July, 2015

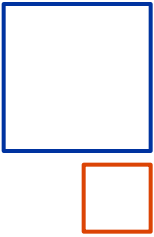




Enel Electric Mobility Solution

Enel Distribuzione Smart Grids technology





Enel Electric Mobility Solution

E-mobility engagement overview



An extensive deployment of charging points by Enel to support electric mobility rollout in Italy

Geolocalization of public charging infrastructure



More than **2,000 EV** stations deployed
1000+ customers in Italy

Fast Charge for highways **43 kW AC**



Slow charge for private
3.3 kW AC

Fast Charge for cities
22 kW AC



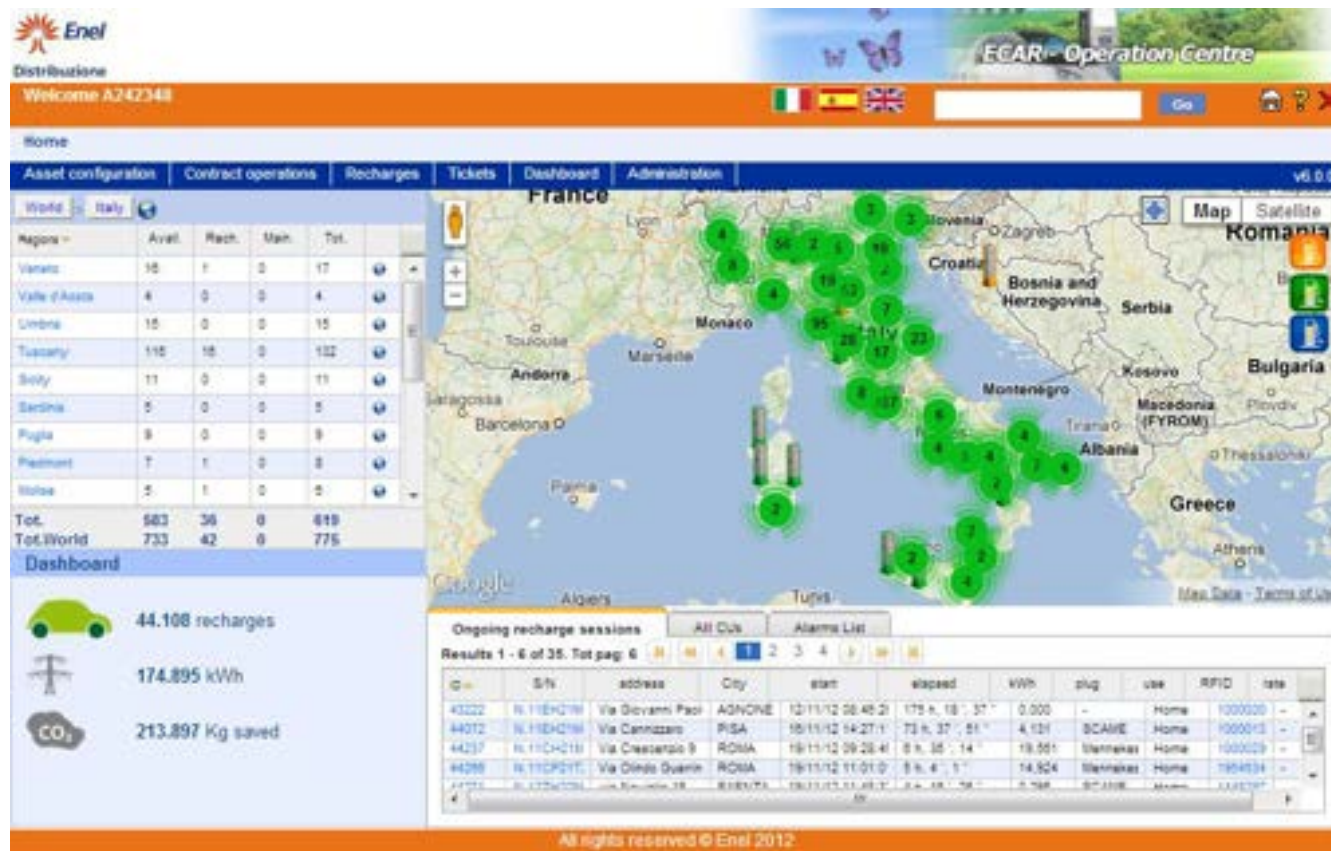
Multistandard Charge
43 kW AC, 50 kW DC, 22 kW AC

Enel Electric Mobility Solution

Flexible IT asset operation and management



A real-time operation and management of EV charging infrastructure to provide **B2B and B2C services**



Enel Electric Mobility Solution

Multi-tenancy for asset management, CRM and B2B



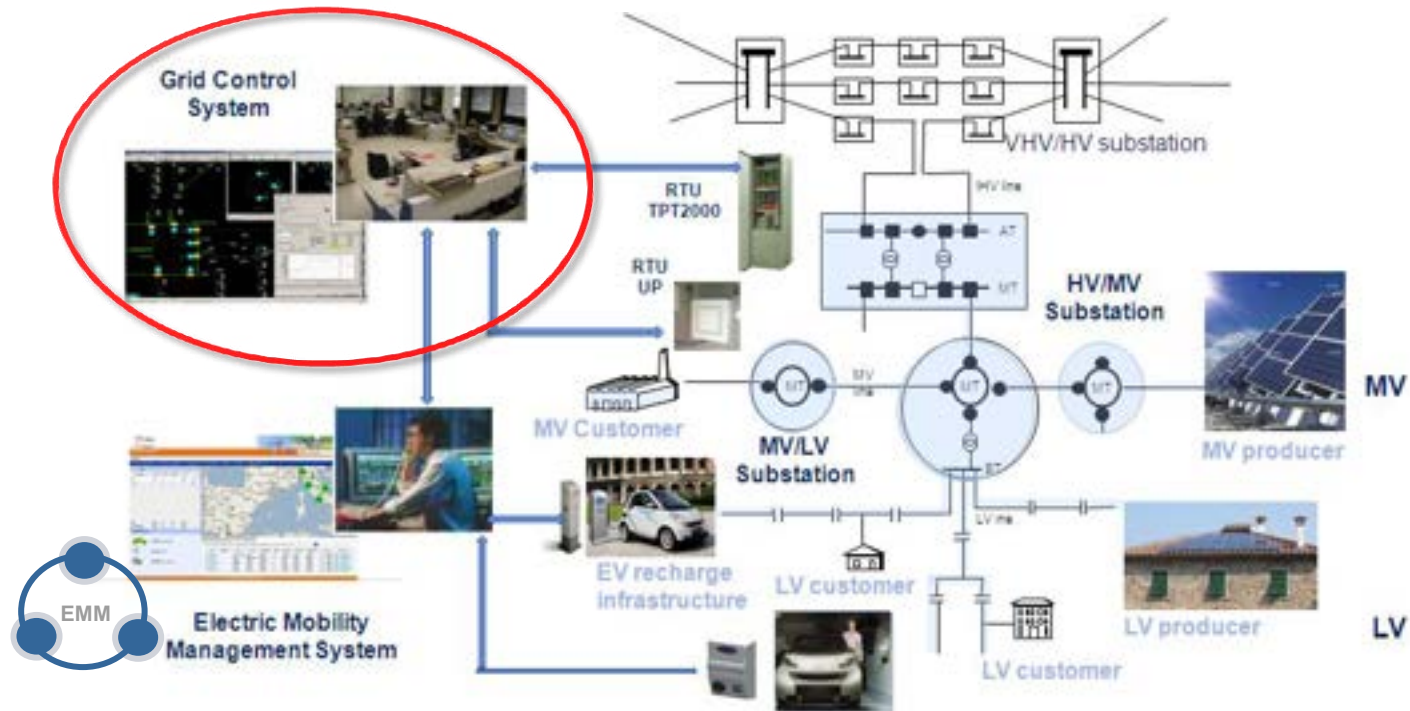
Enabling electric mobility throughout Europe



Our Platform is serving customers in several countries

Enel Electric Mobility Solution

The approach for Smart Grids integration of EVs



The charging infrastructure is designed on purpose to be fully integrated in the **electricity distribution grid**, controlling that the charging profiles are compliant with DSO constraints and using EVs as dynamic loads to implement, improve and secure a GHG-free energy value chain.

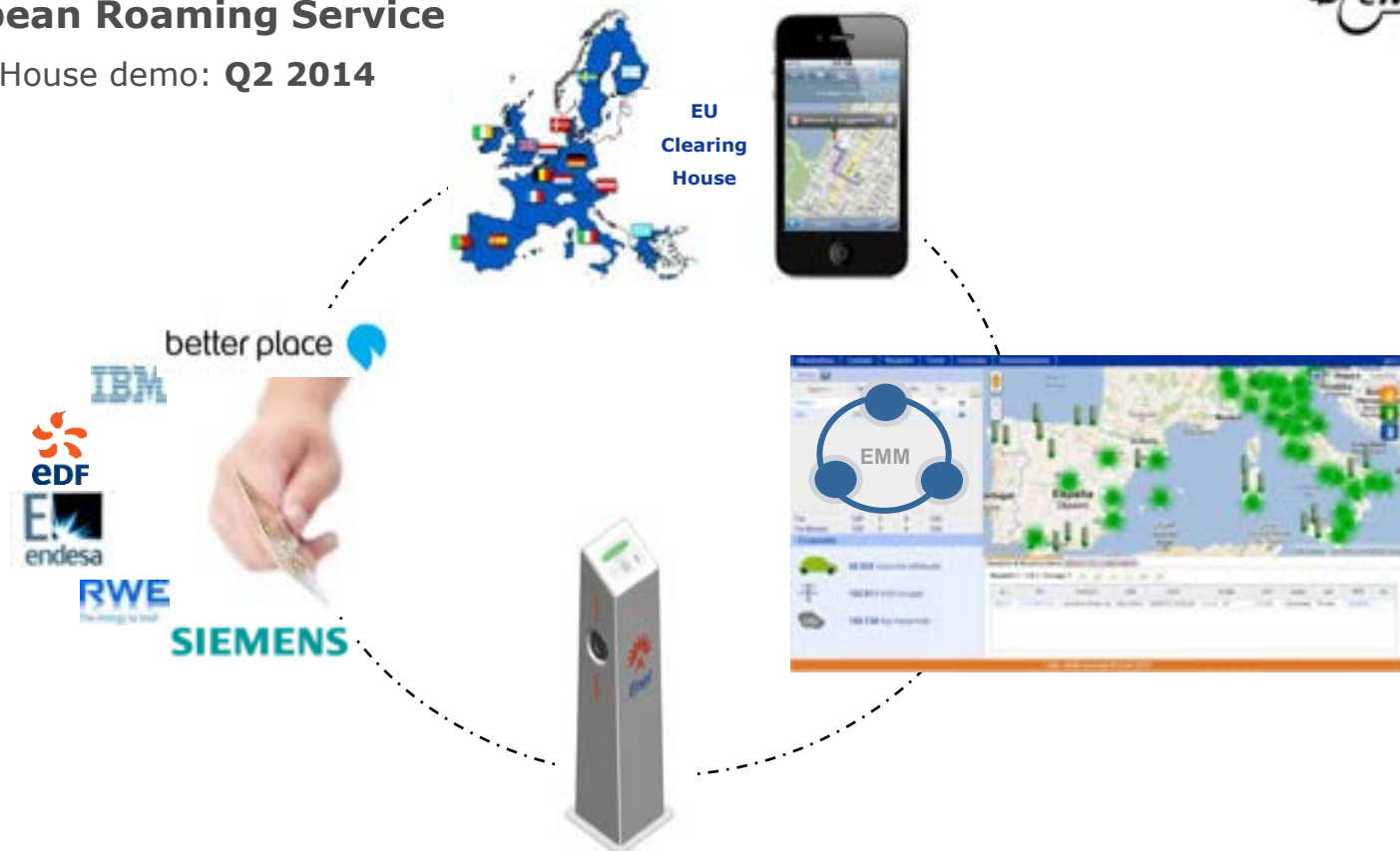
Enel Electric Mobility Solution

EU wide interoperability



Pan-European Roaming Service

Clearing House demo: Q2 2014



Enel was **Demo Regions Board Leader** and managed the business scenarios demonstration, including **roaming**.

Green eMotion proposed the definition of Customer Card and Contract standards, too.

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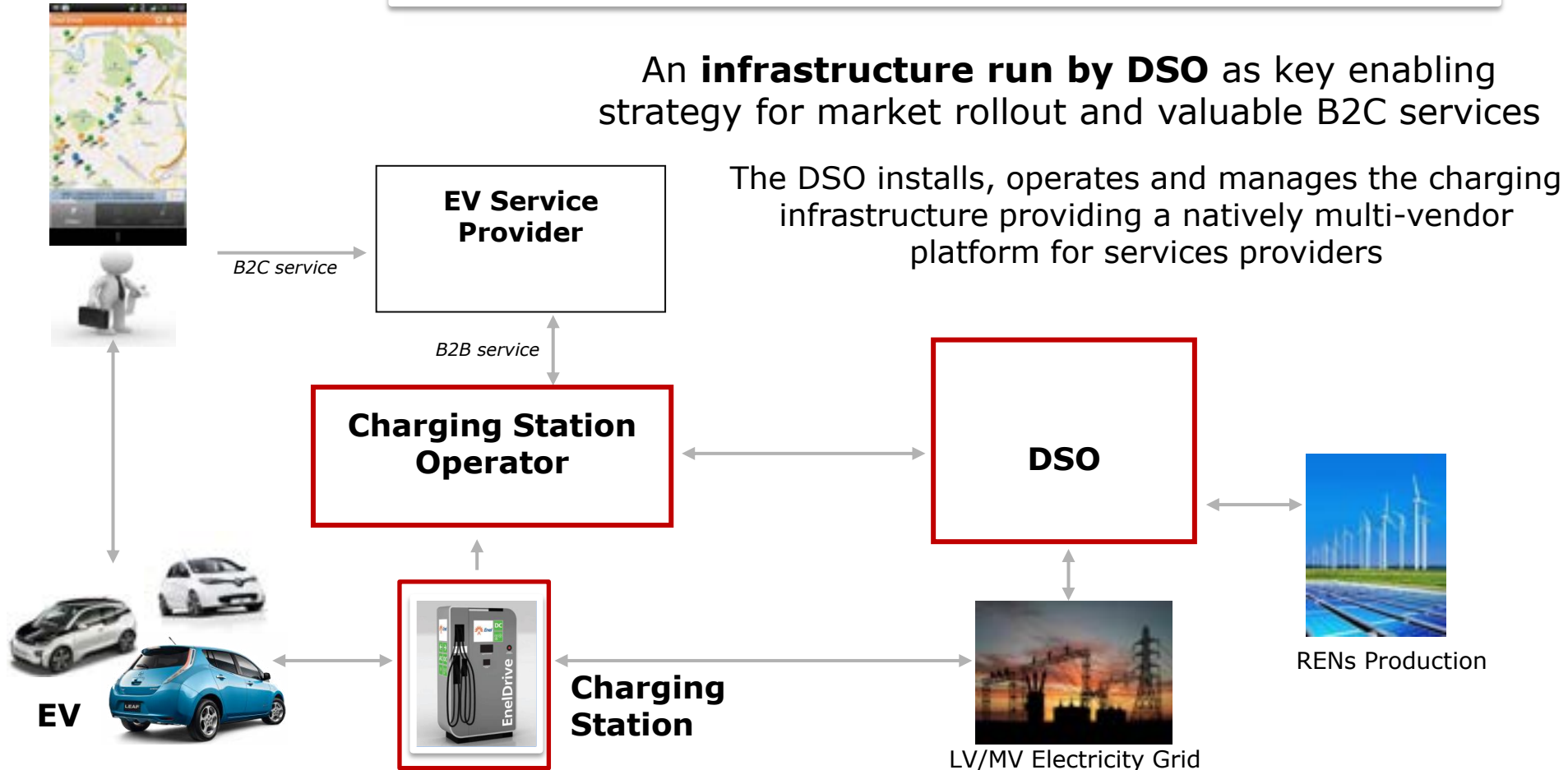
Regulated model of EV stations deployment



Possible target: **75,000 public stations** by 2020 in Italy

An **infrastructure run by DSO** as key enabling strategy for market rollout and valuable B2C services

The DSO installs, operates and manages the charging infrastructure providing a natively multi-vendor platform for services providers



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Regulated model of deployment: preconditions



85% of distribution market in Italy
(most of the country except for Rome, Milan and Turin)

Enel Distribuzione network



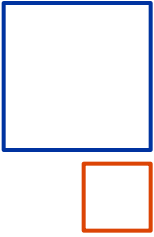
34 Mln of smart meters deployed
Single country in Europe with complete rollout of AMI

2,000 public/private EVSEs deployed
Real-time operated by a dedicated e-mobility platform



Pioneering the EV-EVSE communication
Jointly developing advanced communication with Daimler, Renault





Thank you for your attention!