

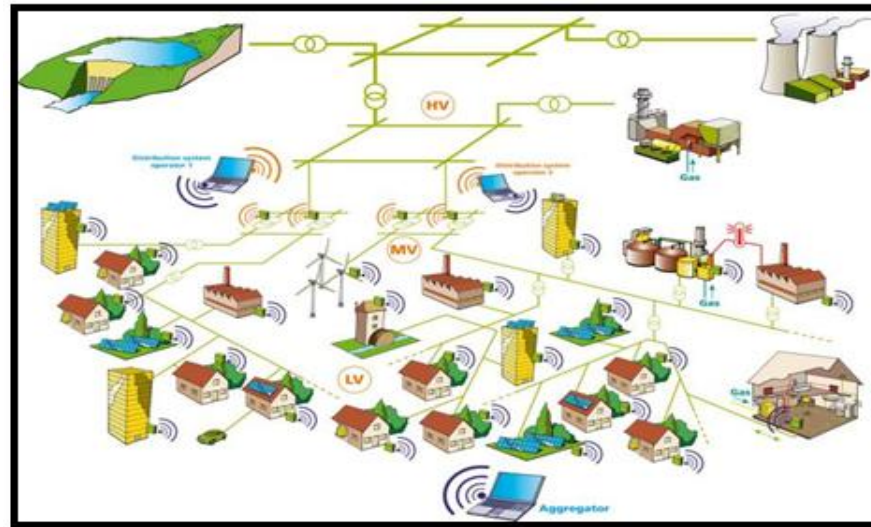


Table Ronde 1 : Les Smart Grids et la recharge des véhicules électriques

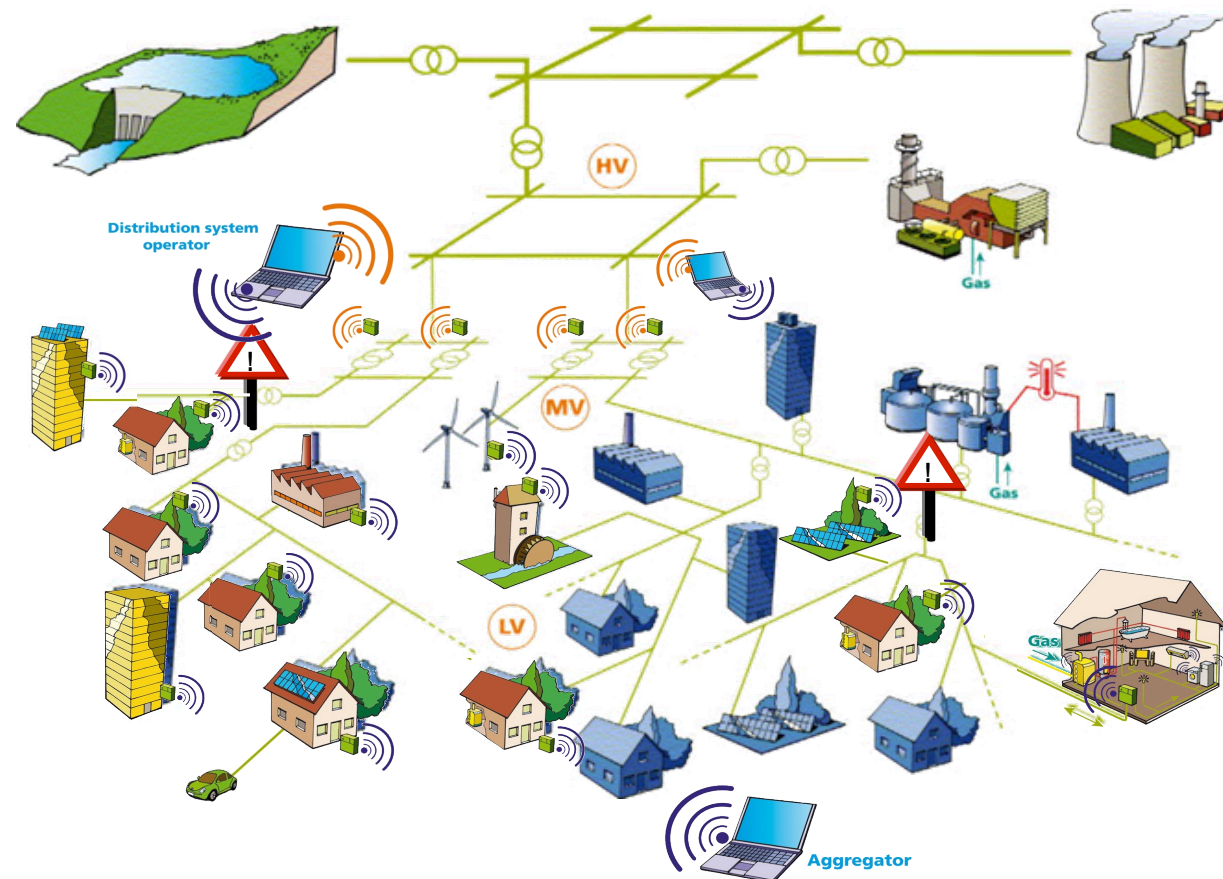
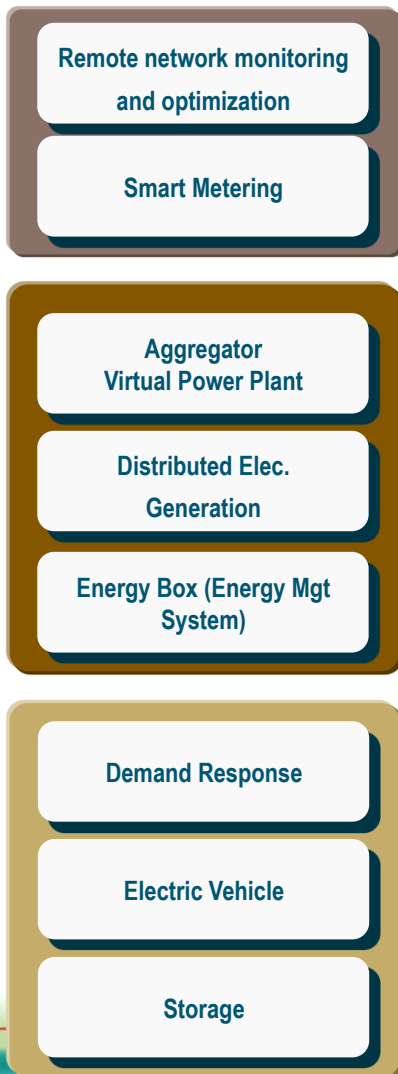
15th of November 2011

Guillaume Brecq – GDF SUEZ

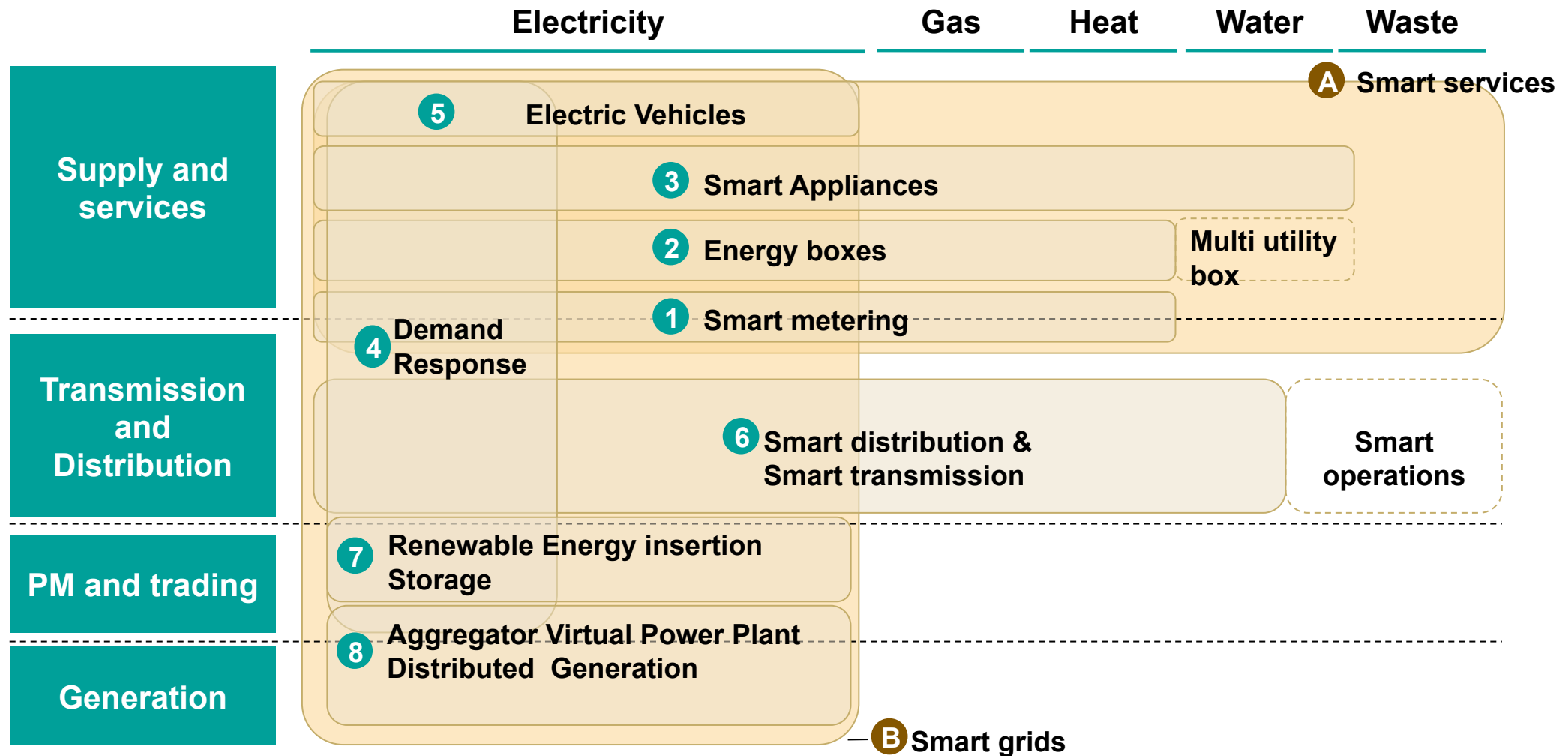
Research and Innovation Division

Smart Grid is the association of an electric grid and a telecommunication network for:

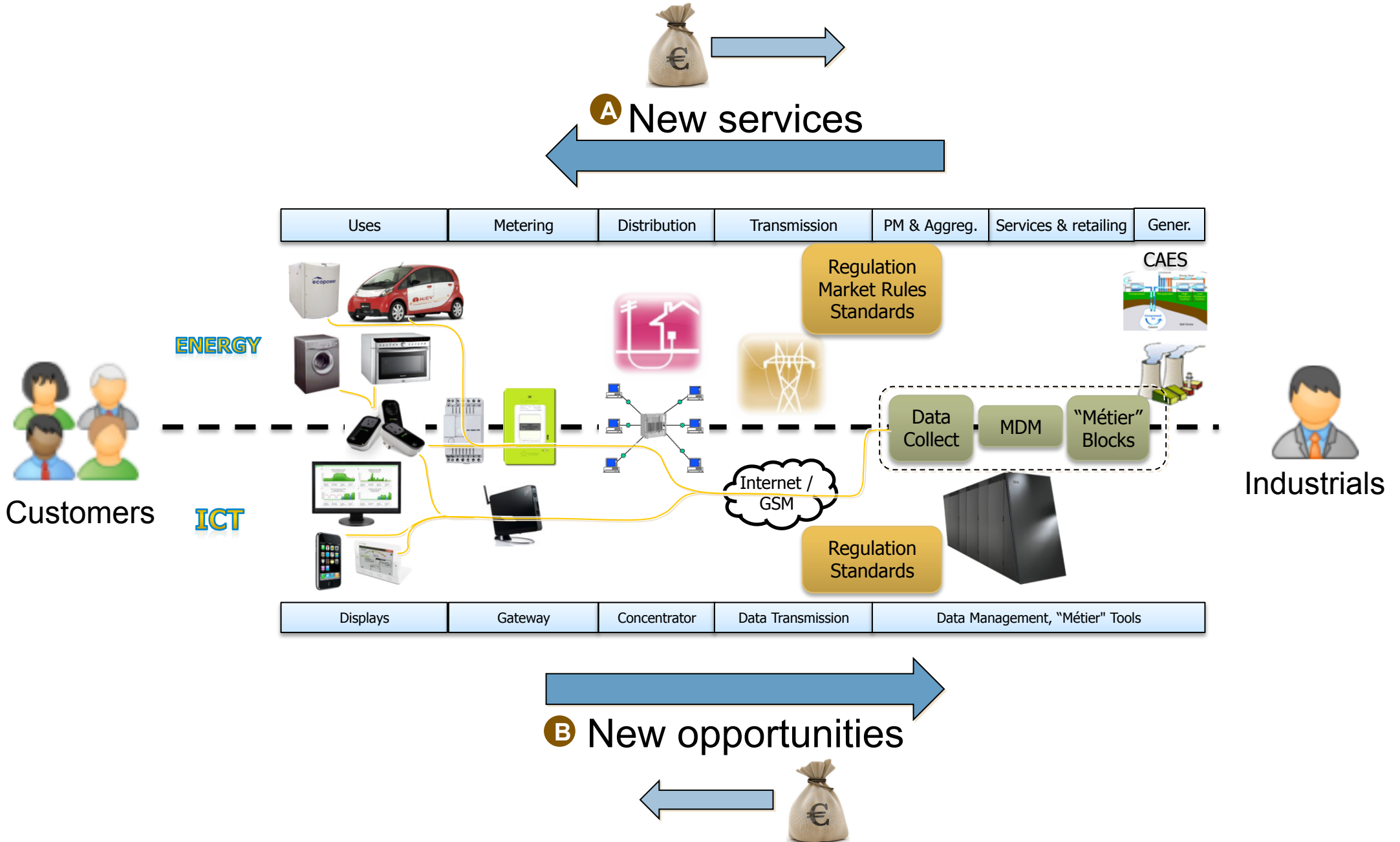
- 1) Remote control and automation of the network operation, including defense actions and automatic restoration to avoid blackouts (NETWORK)
- 2) Active participation of the clients to the management of the systems (GENERATION, LOAD, STORAGE)



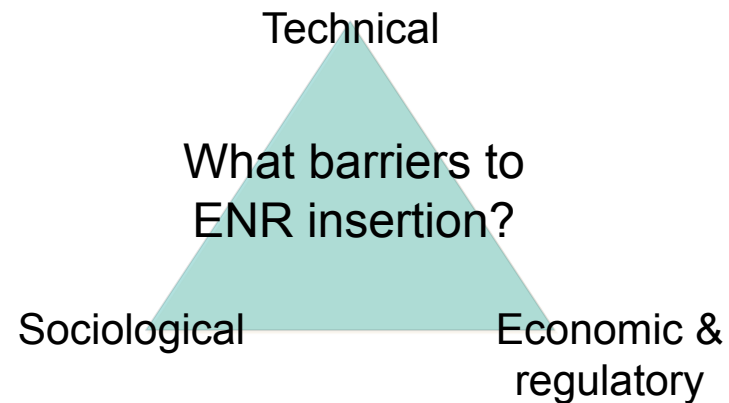
Smart Energy & Environment concepts impact all segments of utilities value chain



What fundements for Smart Businesses?

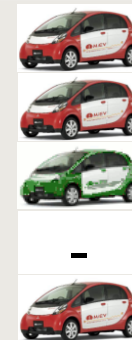


How EVs help to raise main Smart Grid barriers?



•Technical issues

- Standardization
- Interoperable and interchangeable IS forecasting and analytics
- Cost of energy technos & ICT
- Convergence of ICT and energy technologies
- Data security



•Sociological issues

- Customers appetite for *smart* technology (level of client involvement)
- Data property and privacy protection



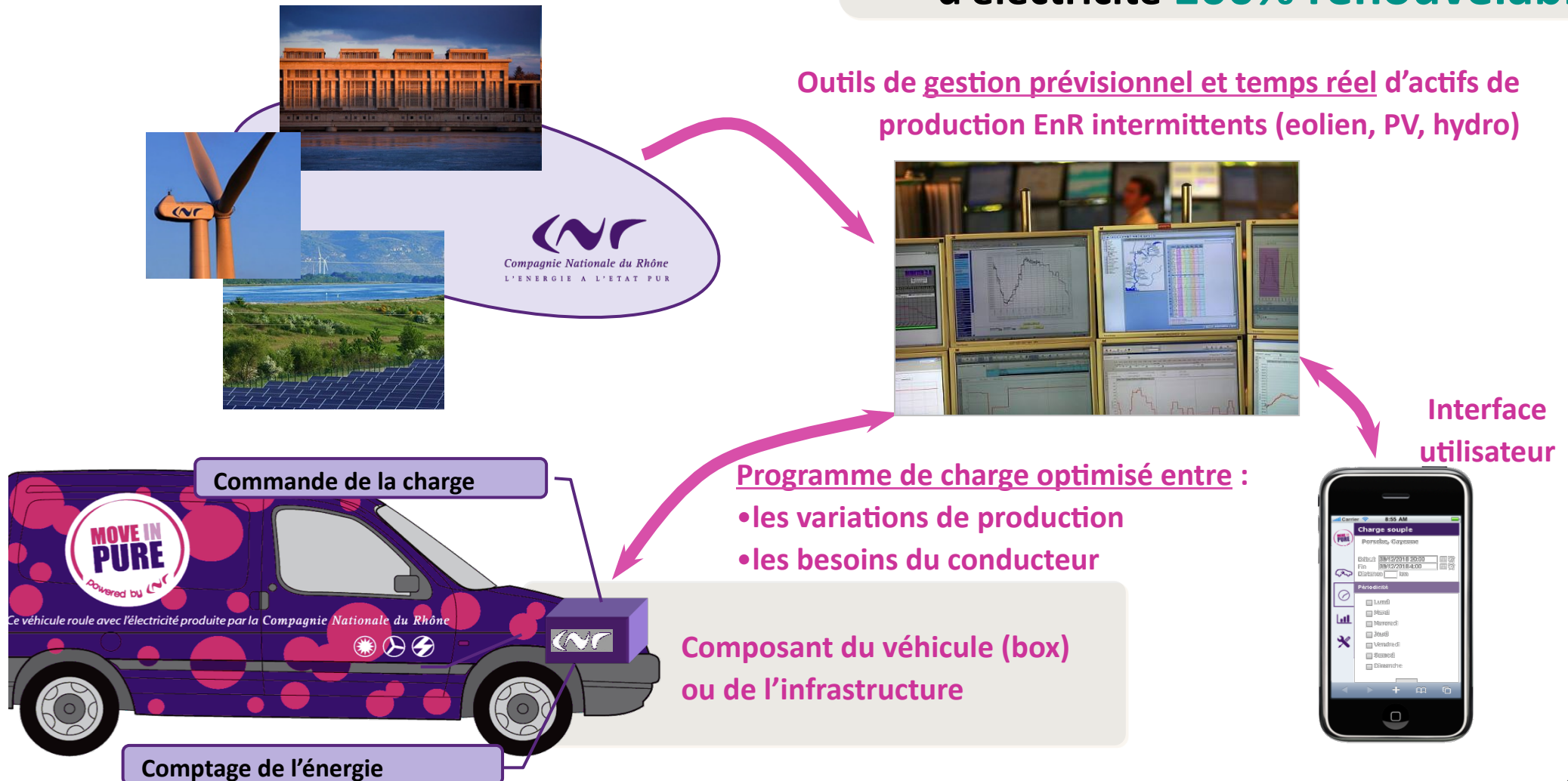
•Economic and regulatory issues

- Opaque rules (UoS charges clarification, capacity market)
- Insufficient value for energy (energy scarcity)
- Business model validity

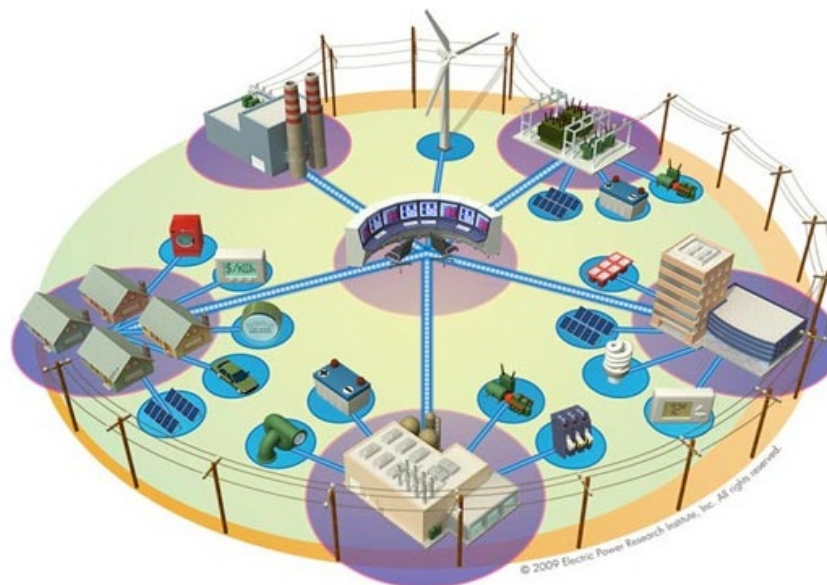


Move in Pure™: a major EV project for GDF SUEZ

Schéma de principe



1^{er} producteur français
d'électricité **100% renouvelable**



Thanks for your attention!

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