



Smart Grid for Smart City

Valerie Anne Lencznar

Vice Chairperson of the GSGF

Managing Director of Think Smartgrids (France)



 **GSGF**
Global Smart Grid Federation



THINK SMARTGRIDS BRINGS TOGETHER A FULL ECOSYSTEM AND DEVELOPS INTERNATIONAL COLLABORATIONS

Observing Members



Associate Members



Partner members



Clusters



Schools, Research centers and Labs:

Centrale Supélec, Ecole des Ponts ParisTech, Ecole Polytechnique, L2EP Lille, LNE, SEE, SNCF Cluster, Université de Montpellier, LNE...

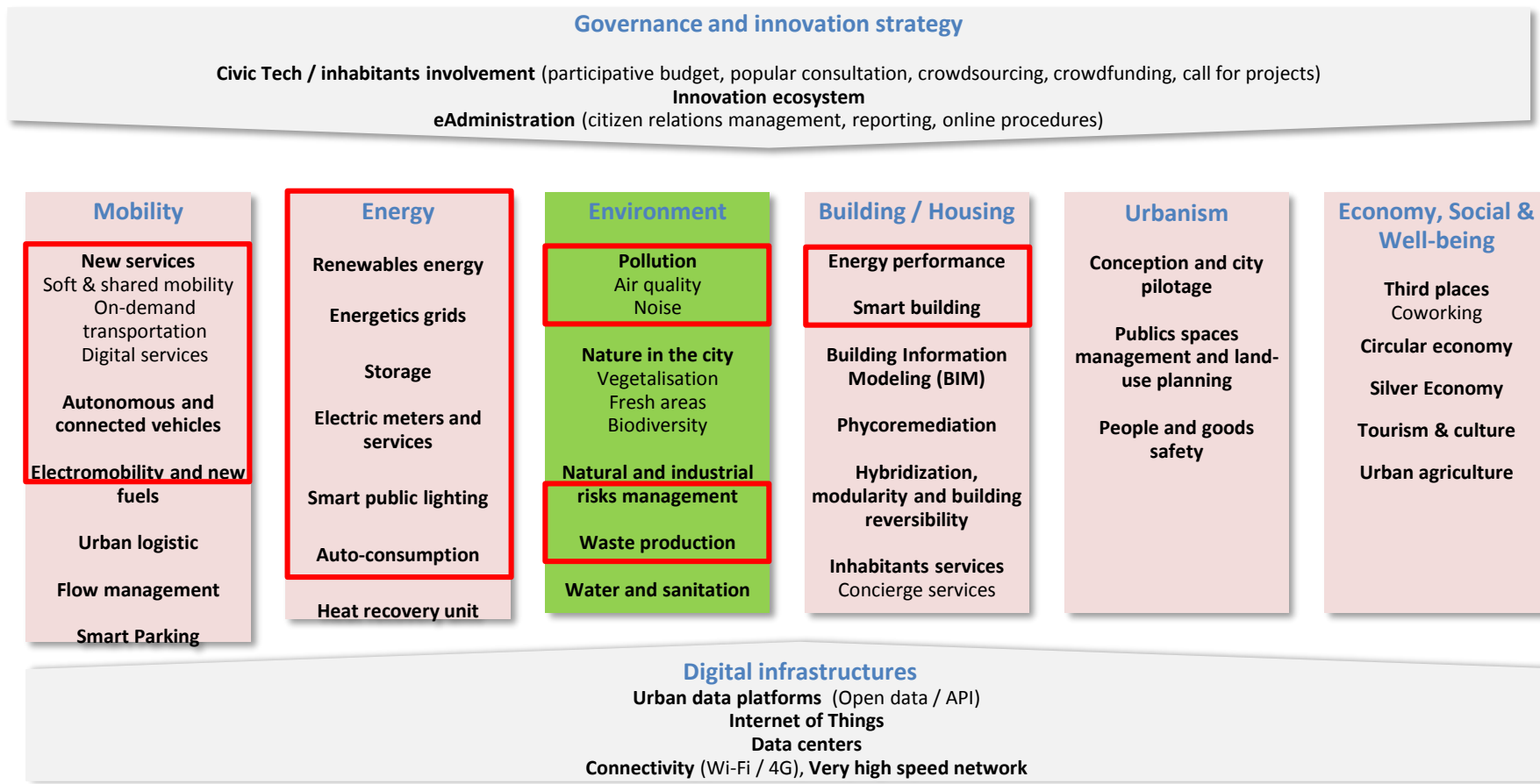
Associations: Promotelec, UFE, Gimelec, OFATE, Smile...

The challenges of the smart city



- « The smart city is a human smart city » Carlos Moreno
- The goal of the smart city is to provide a desirable living environment to its inhabitants, emphasizing the need for sustainability which is attained by **putting energy at the core** of its development.
- Yet, due to a **silos organization of cities services**, energy projects cannot be managed efficiently.
- **lack of innovative business model inclusive** of all actors partaking in the transformation.

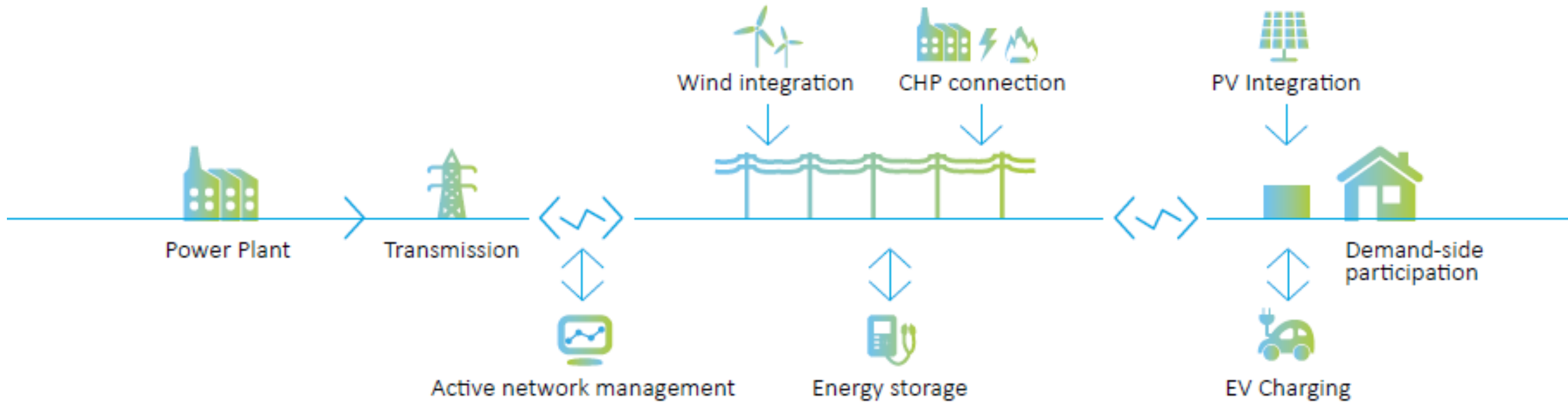
Smart Cities' services framework highlight the importance of Energy Transition for a given territory



Credits. CapGemini, a Think Smartgrids member



Smart grid for Smart City, a wide range of services to be developed



Smart grids intervene in ...



Renewables

- Impulse/Support solar, wind, methanisation ...
- Green energy supply
- Own consumption at different mesh sizes
- Positive energy territory
- Energy autonomy



Energy efficiency

- Drastic reduction in consumption (50%)
- Monitoring/Alerting



Waste management

- Waste reduction
- Offshore waste management
- Waste recovery



Low-carbon mobility

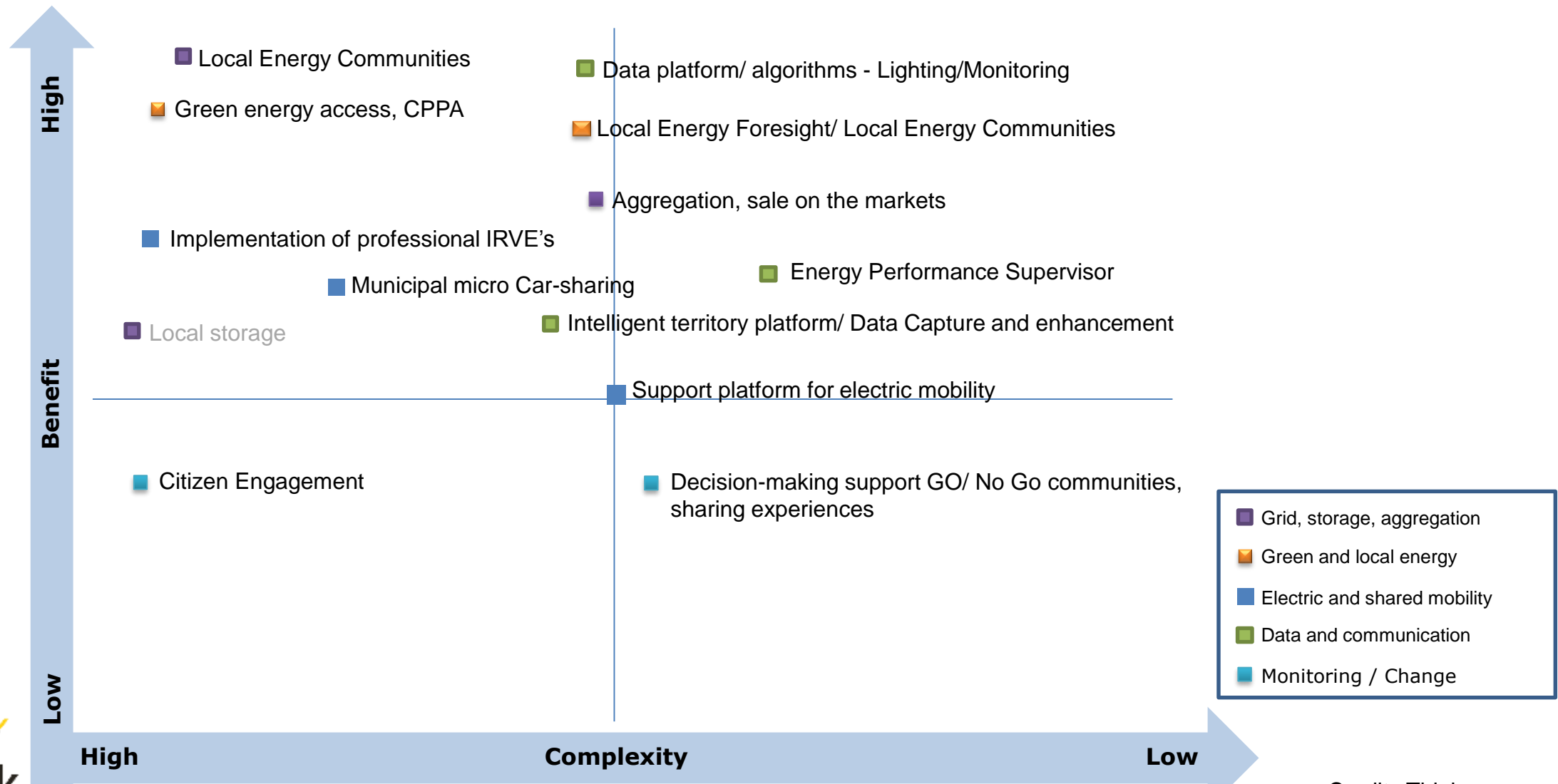
- Electric mobility
- Electrified public transport
- V2X
- Car sharing plan



Others

- Heating networks
- Renovation of public lighting
- Network Resilience
- Storage
- Ability to attract large consumers
- Seize opportunities linked to national plans (hydrogen, research centres, etc.)

Selection of offers seized for smart cities



Thank you for your attention !



contact@thinksmartgrids.fr

+33 1 42 06 52 50

www.thinksmartgrids.fr



Description

IssyGrid is a demo-project led by Enedis and some 10 industrial partners for a large range of smart grid use-cases that have been scaled up to a whole urban district: flexibility, storage, integration of local solar power, smart EV charging, smart lighting, as well as applications for power consumption optimisation in households and office buildings.

Application Areas

e-mobility, smart meters, smart homes, integration of renewable energies, flexibilities, storage.



Appendix

THINK SMARTGRIDS BRINGS TOGETHER A FULL ECOSYSTEM

France is spearheading global smart grids sector, through a comprehensive ecosystem, internationally recognized:

- From fundamental research to industrial applications
- From start-ups to large companies, through associations and public authorities



100+ active members



+121 Smartgrids demos in France

€130 M in large-scale deployment
(Smile, Flexgrid, You&Grid)

€100 M
in R&D/year



Turnover
x2
(2014-2020)
from €3 to 6 billion

The French sector is organized through an association, *Think Smartgrids*