



Objets connectés et service énergétiques

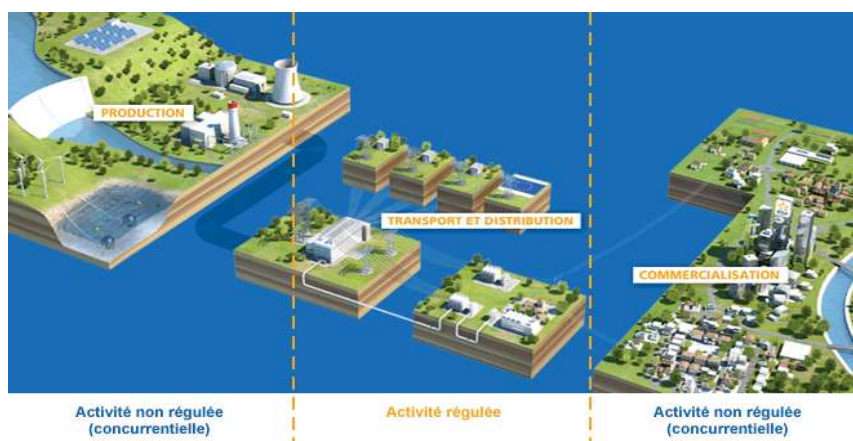
GridPocket 18.11.2016

Filip Gluszak, Président - filip.gluszak@gridpocket.com

Energie et IoT

Services à valeur ajoutée énergétiques :

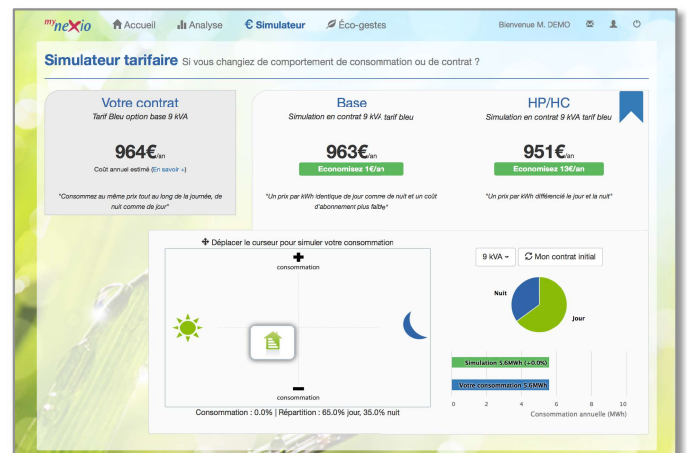
- Compteur intelligents et objets domotiques
- Efficacité énergétique
- Réduction d'émissions CO2
- Engagement d'utilisateurs



Consumers



Example Service Linky



Accueil et synthèse

Simulateur tarifaire



Analyses de données compteur

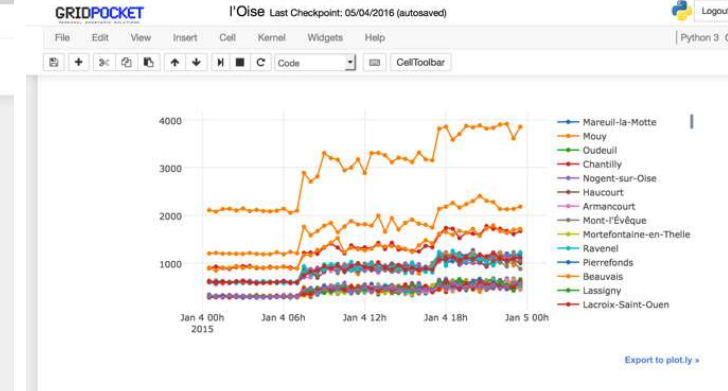
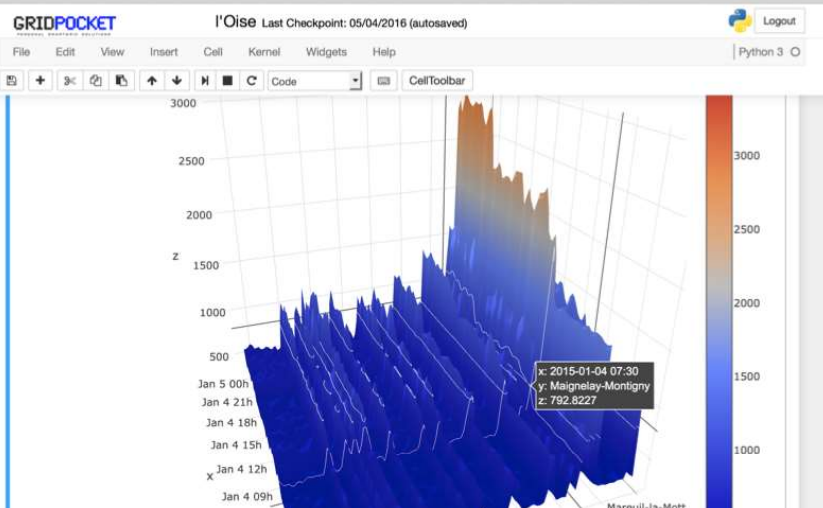
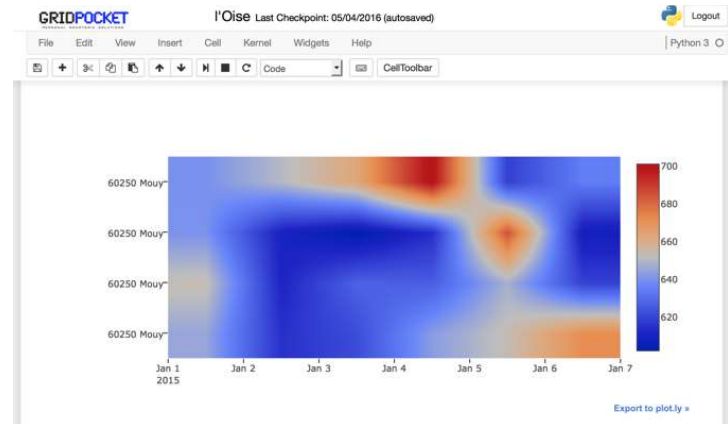
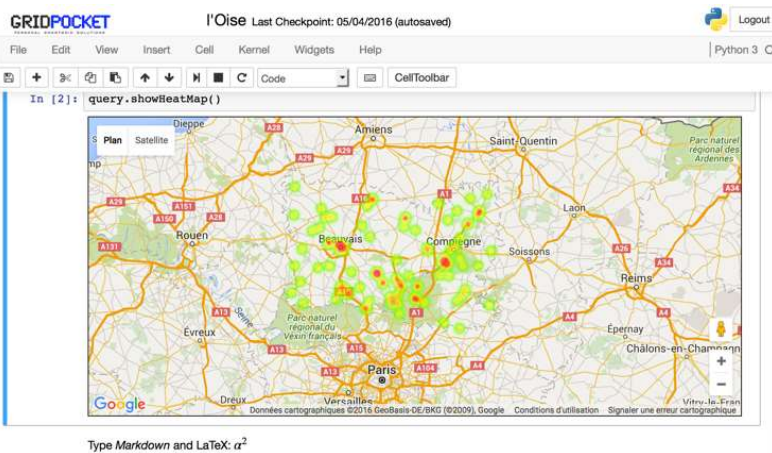
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Conseils énergétiques

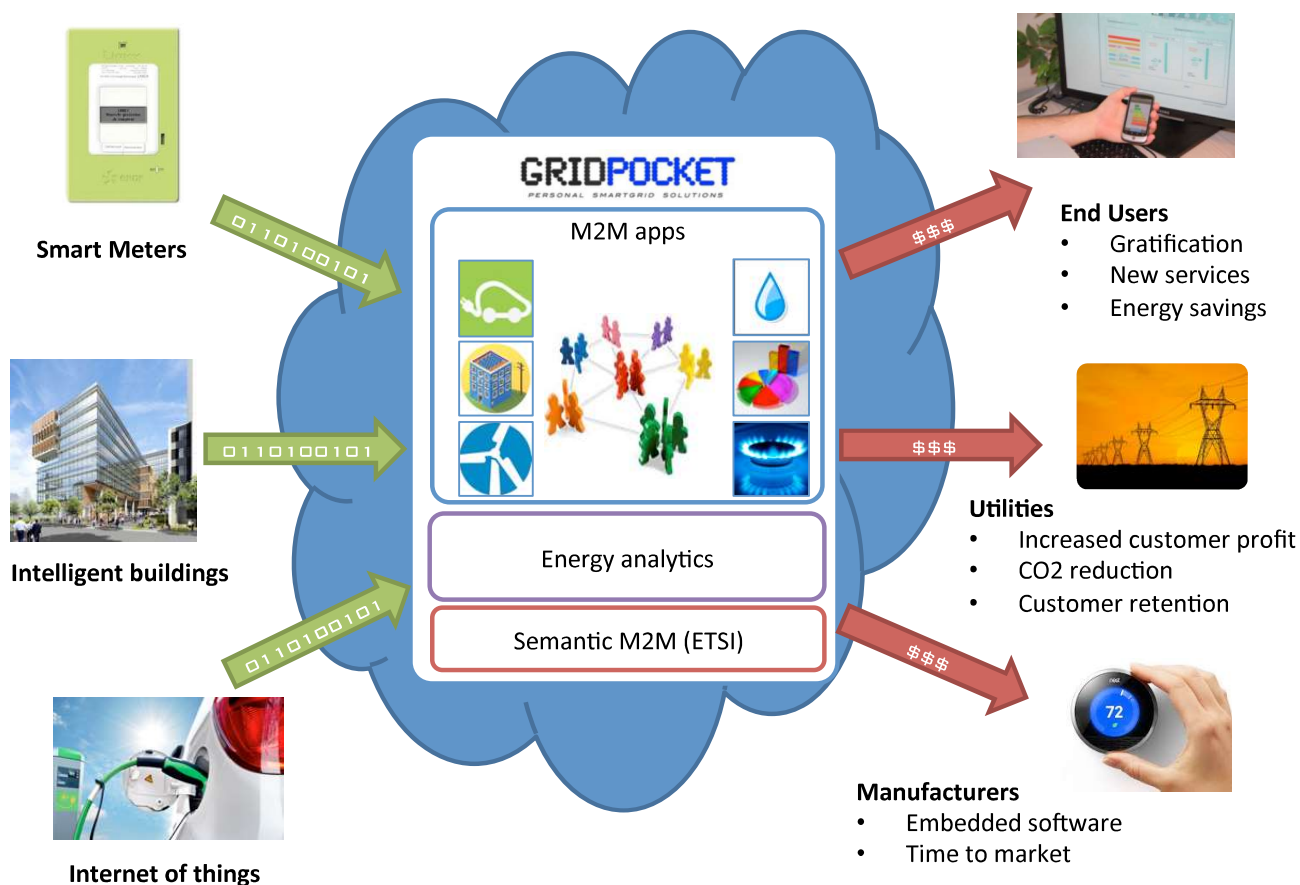
Energy information wall



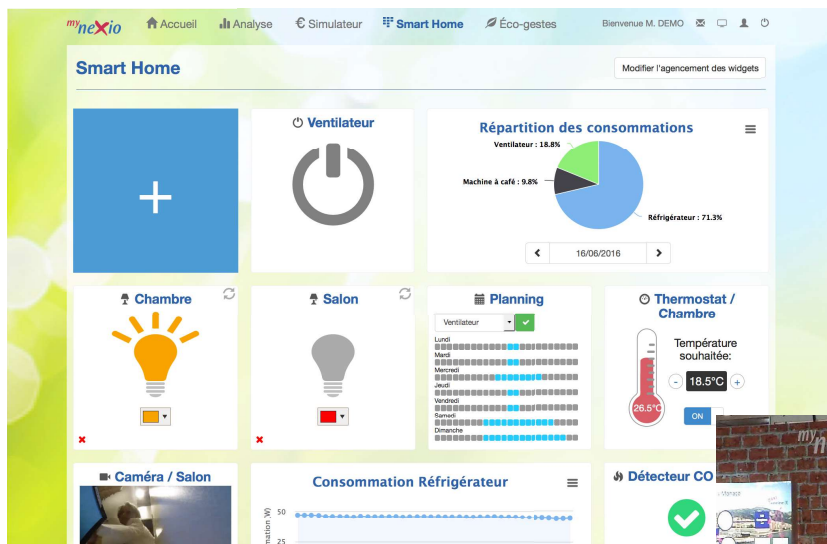
Data analysis



Architecture système PowerVAS



PowerVAS - Internet of things and smart meters integration



nest

SIEMENS

ZWAVE

SIGFOX
One network A billion dreams

netatmo

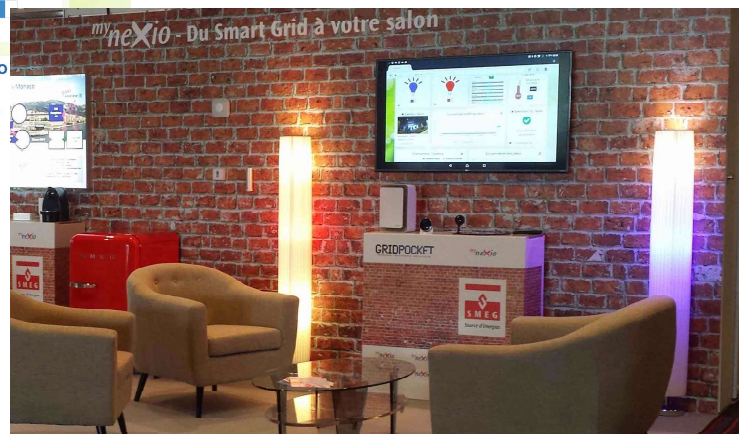
FIBARO
Home intelligence

HomeKit

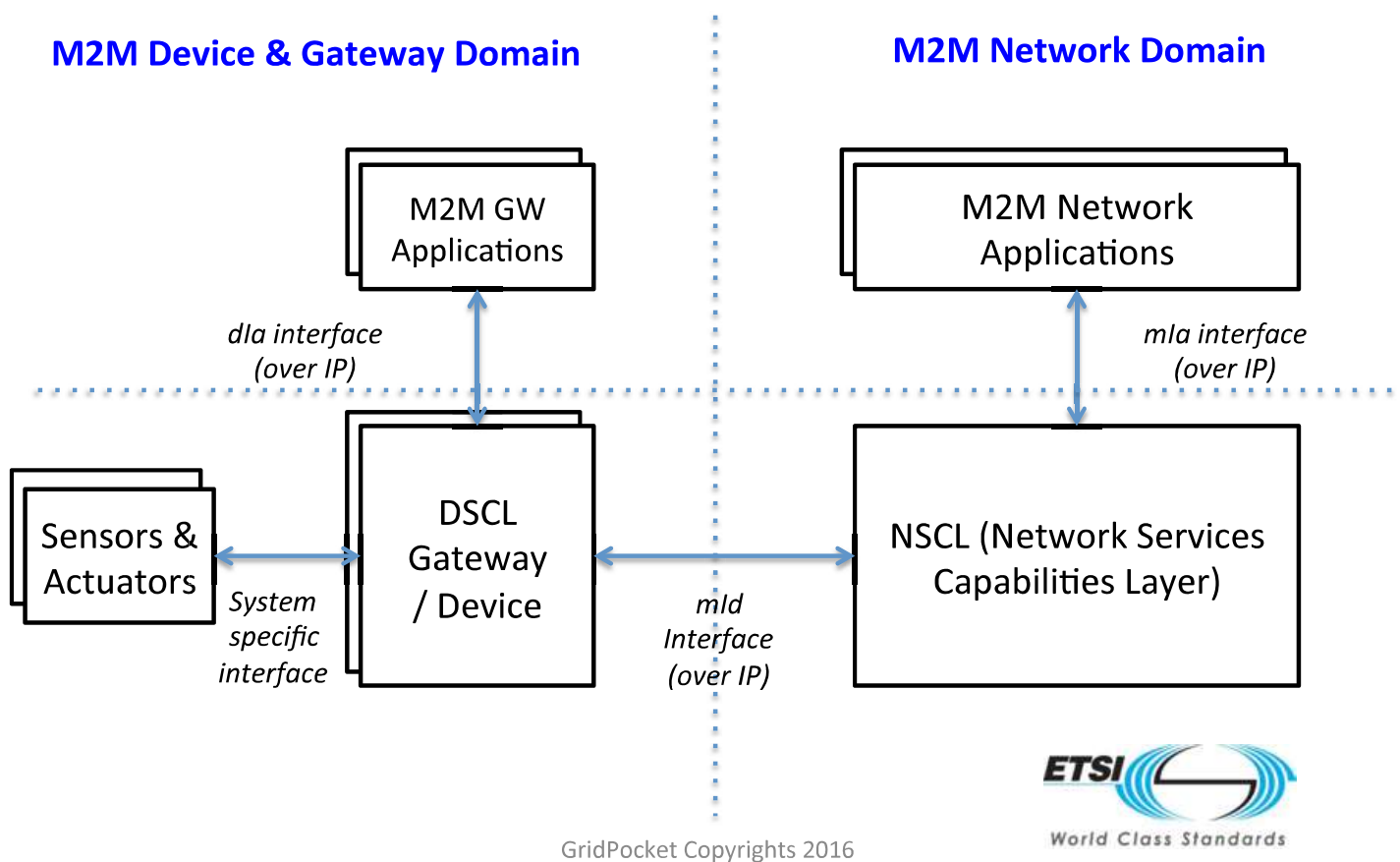
LIFX

WIT

- Demand Response
- Remote building control
- Centralized programming



ETSI M2M / OneM2M High Level Architecture



Customer case : Monaco SMEG



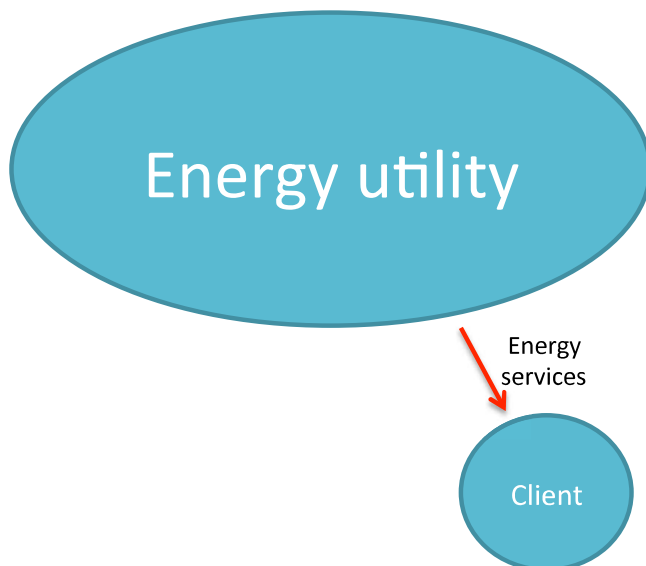
- Customer : **SMEG**, National utility in Monaco (25k end-users)
- Technology : PowerVAS platform interconnected to national **smart metering system**



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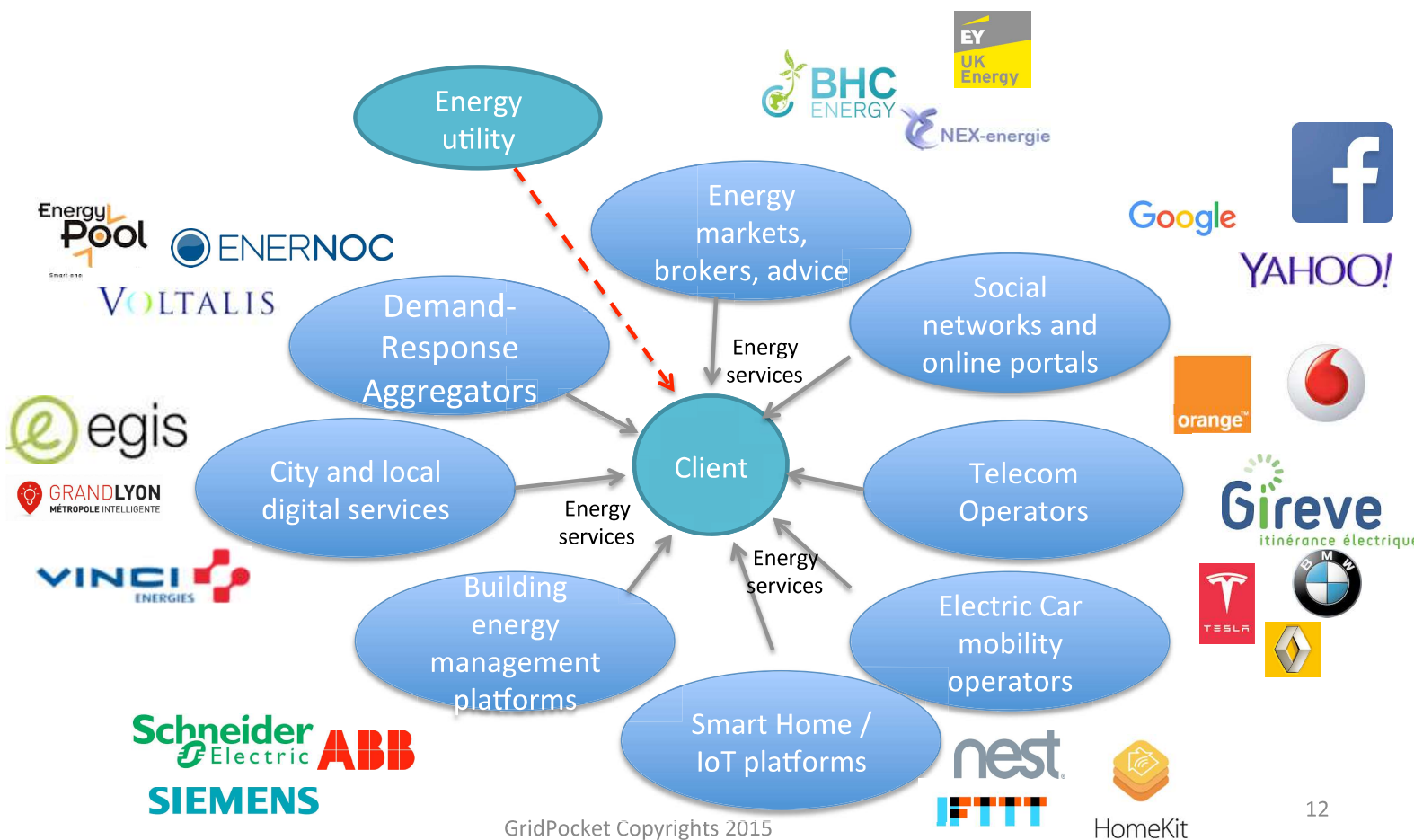


Relationship of Utilities and Customers evolved over time.

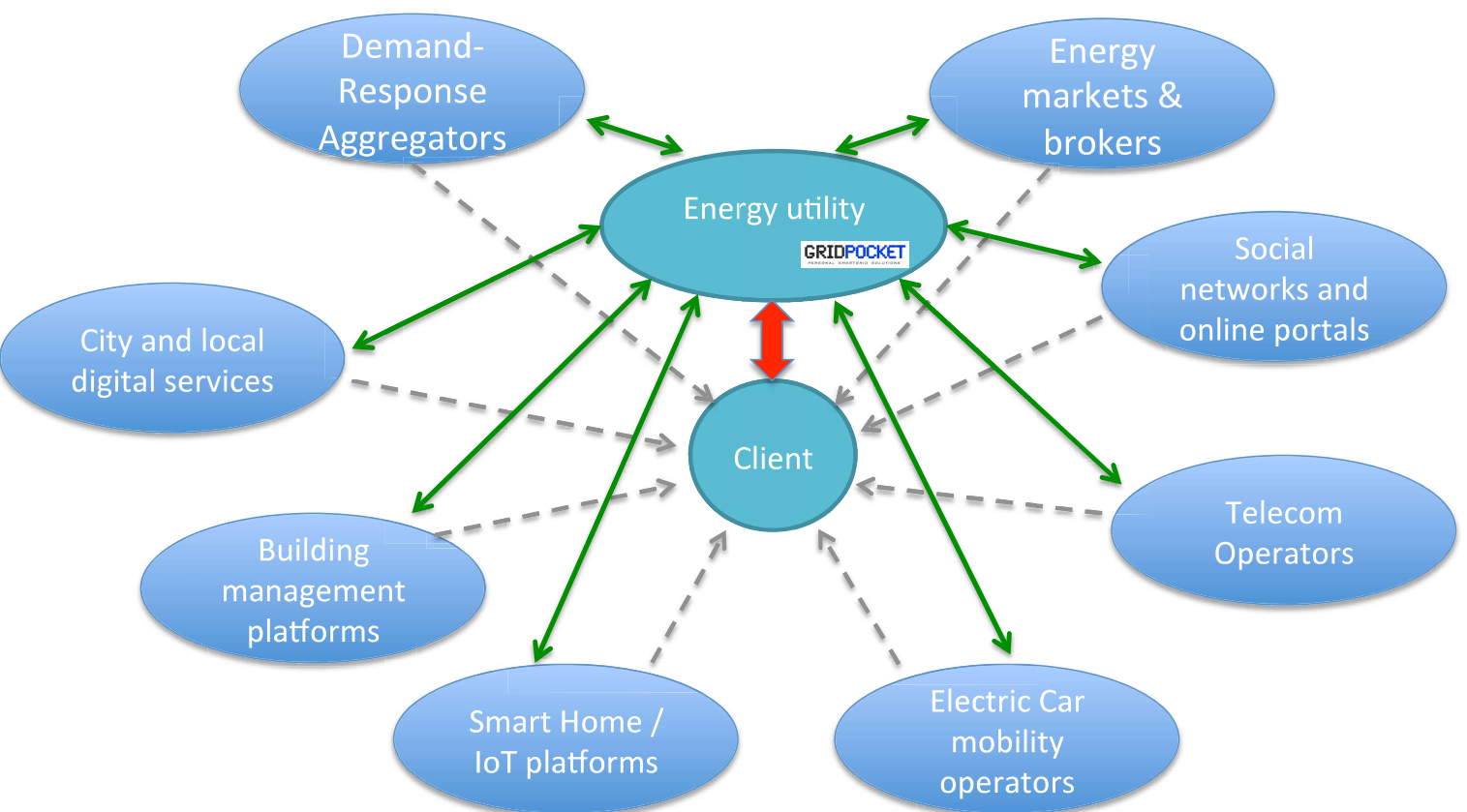


Initially energy utilities used to enjoy exclusive relationship with their customers.

Utilities are no longer leading the energy market transformation



Utility must claim their part of the digital energy ecosystem



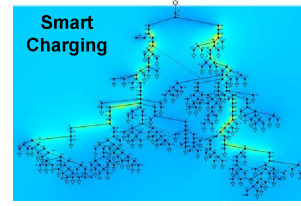
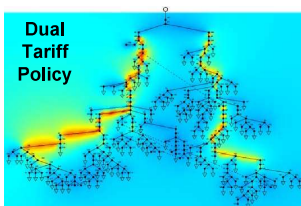
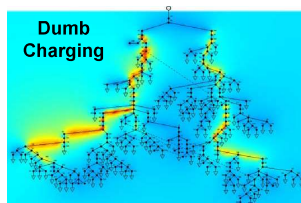
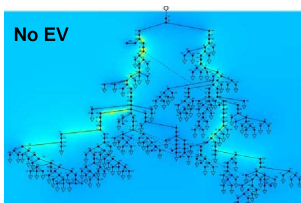
Optimiser le réseau de charge des VE

greenfeed

ACCUEIL LE CONTEXTE LE PROJET LES TRAVAUX LES PARTENAIRES CONTACT



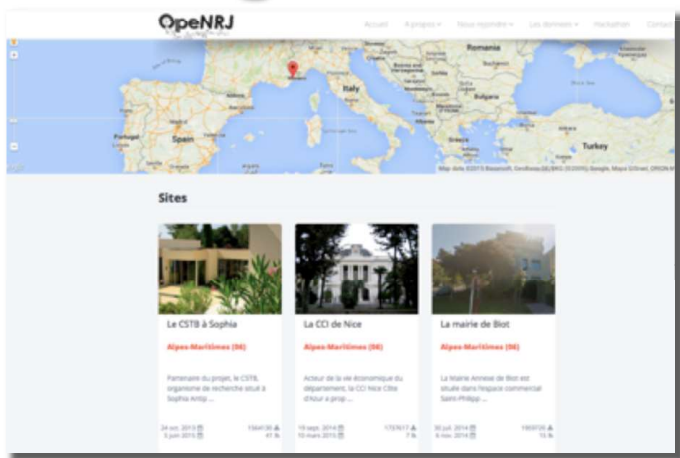
Développement d'un ensemble de **solutions logicielles et matérielles** interopérables et universelles pour la recharge de véhicules électriques



- Client: **ERDF** - 35 millions d'utilisateurs
- Technologie : PowerVAS plateforme du réseau de stations de charge des VE.
- Point fort: **Contrôle automatique** de la **vitesse de charge des VE** pour garantir la stabilité du réseau.

www.greenfeed.org

Partage libre de données Energétiques

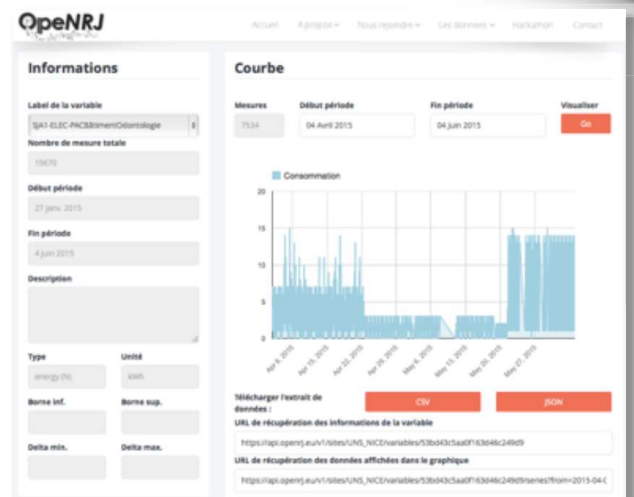


- Plateforme de données ouvertes (Open Data).
- Obj: créer une communauté !



- Jeux de données nécessaires aux acteurs en R&D applicative.
- Extensions de la plateforme Linky

www.openrj.eu



Data privacy

- Currently EU Data Protection Directive 95/45/EC
 - 28 different interpretations
 - Not sufficient with globalization and cloud technologies
- France CNIL (Commission Nationale de l'informatique et des libertés)
 - Recommandation 15 novembre 2012
 - Minimise data collection, consumer opt-in for services
- EU General Data Protection Regulation - ongoing
 - **Privacy by Design** and by Default (article 23)
 - Consent (article 7)
 - Data breaches and transparency (article 31, 32)
 - **Right to erasure** (right to be forgotten)
 - Data portability
 - Sanctions up to **100 million EUR** or 5% annual worldwide turnover
- Adoption in 2016, enforcement from 2018

ICON	ESSENTIAL INFORMATION	FULFILLED
	No personal data are collected beyond the minimum necessary for each specific purpose of the processing	
	No personal data are retained beyond the minimum necessary for each specific purpose of the processing	
	No personal data are processed for purposes other than the purposes for which they were collected	
	No personal data are disseminated to commercial third parties	
	No personal data are sold or rented out	
	No personal data are retained in unencrypted form	

COMPLIANCE WITH ROWS 1-3 IS REQUIRED BY EU LAW



EU General Data Protection Regulation



Thank you ! Merci !

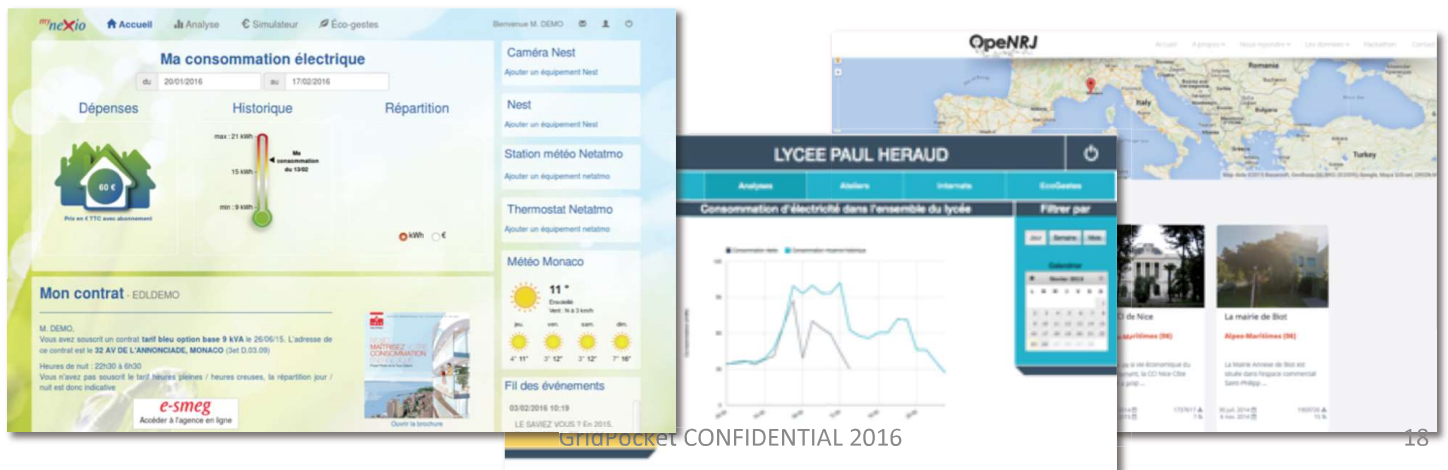
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Phone : +33 6 79 73 90 52

The solution - PowerVAS

Customized “white label” energy services platform for utilities :

- **Utility grade:** millions of end-users supported
- **360° view** : dashboard, admin, data analytics, kiosk
- **All devices:** smart meters, thermostats, plugs, home devices, electric cars, renewables sources
- **Innovative features:** behavioral engagement, consumer analytics, demand response, social networking, advice



GridPocket

Skilled team and founders



Filip Gluszak – CEO, MBA, ENG
Strategy Philips Consumer,
NEC Princeton USA , Startups
France, Poland



Luc Juggery – MBA, ENG
Airbus, EADS, Texas Instruments,
OpenSource



Laura Draetta – PhD
Social Dynamics, Italy,
France, Belgium, USA Berkeley



Yann Esposito – PhD
Machine Learning
AirFrance, OpenSource



Guillaume Pilot – ENG
Energy software
Inria Research Engineer

Unique and protected technologies



EcoTroks



Time Series Lab
(Patent pending)



EV and home
(Patent)

Partnerships with global industry leaders



First-mover advantage



Award '11



Award '12



Award '13

Award '15