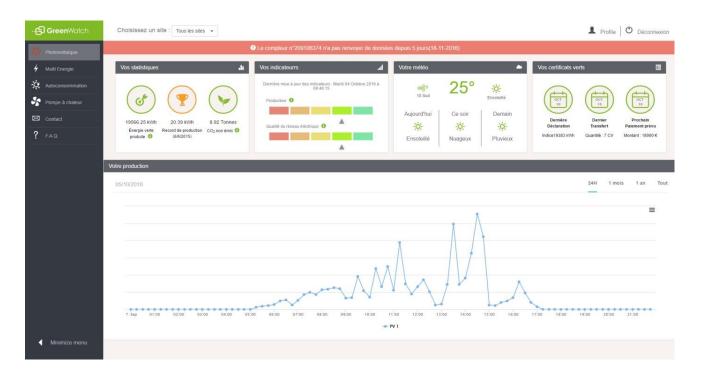


Active demand-side management

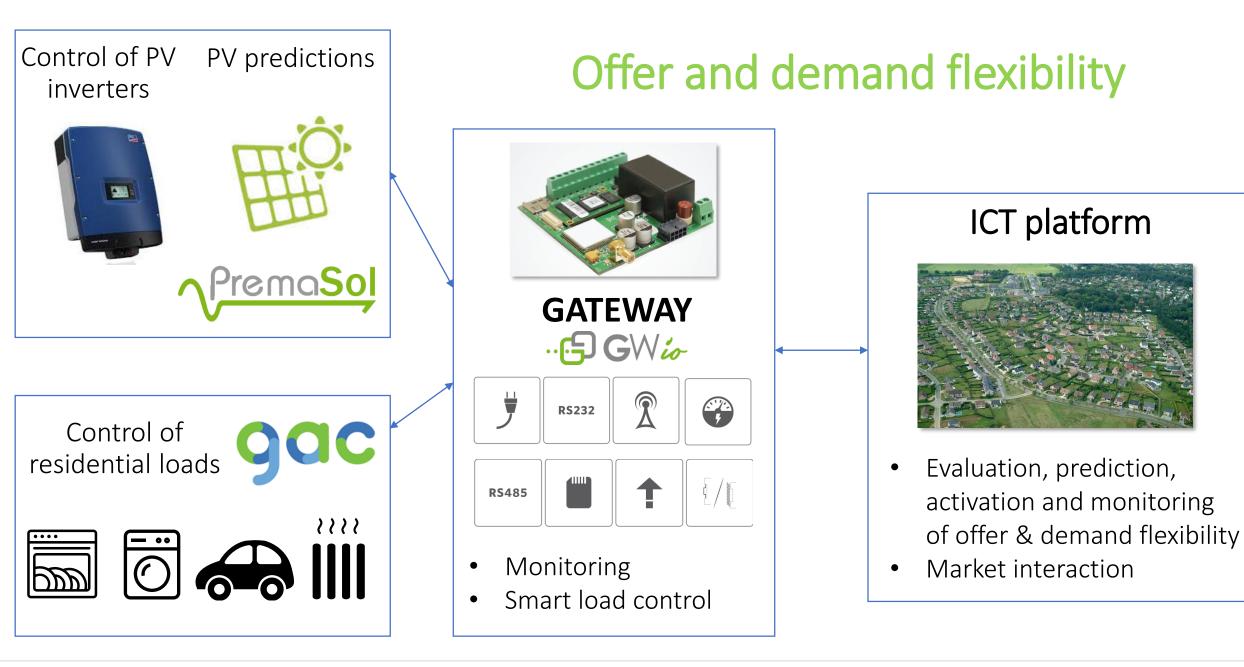
GAC project Thomas Geury 23-10-2018



- PV monitoring of 6.000 residential clients
- Multi-energy monitoring
- After-sale service
- Experience since 2009
- Offer and demand flexibility
- Remote load optimization















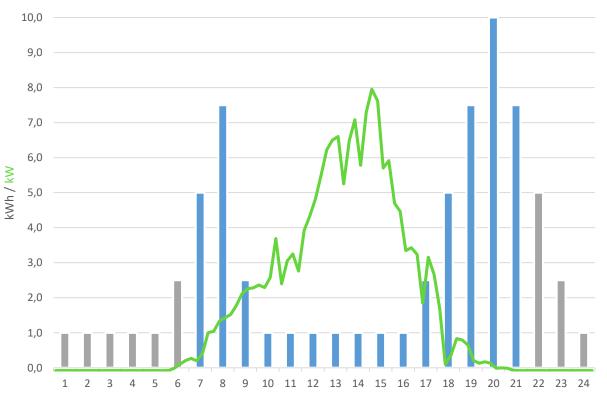
Individual : prosumers

• Self-consumption optimization

Collective : neighbordhood

 Self-consumption optimization (peer-to-peer)

Regular day consumption without GAC – **PV production**





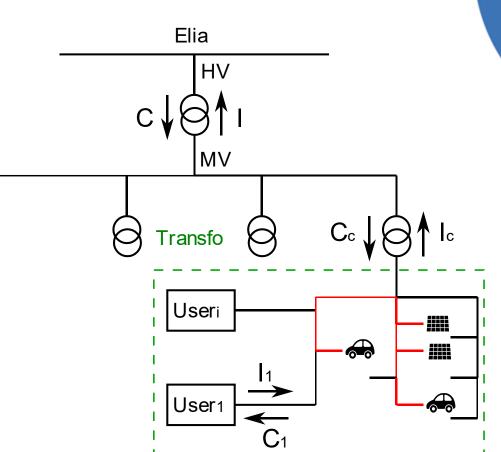


Individual : prosumers

Self-consumption optimization

Collective : neighbordhood

 Self-consumption optimization (peer-to-peer)

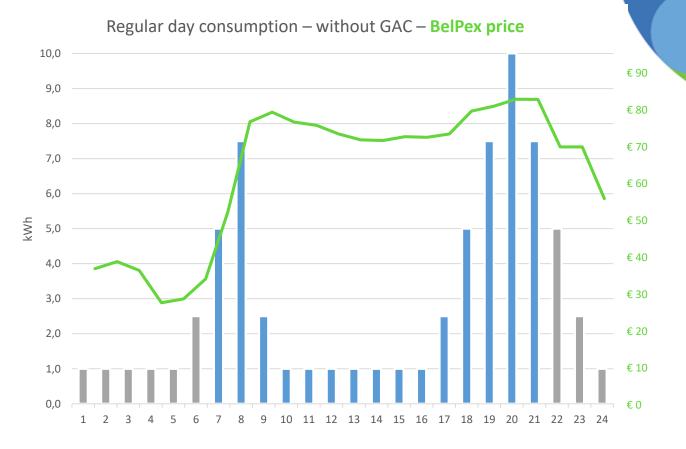






Individual : tariff incentives

- Dynamic pricing
- Peak pricing
- Pricing periods





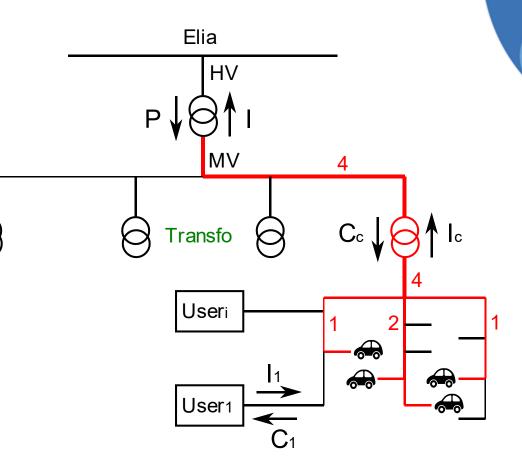


Individual : tariff incentives

- Dynamic pricing
- Peak pricing
- Pricing periods

Collective : neighbordhood

- Flexibility to the DSO
- Flexibility market

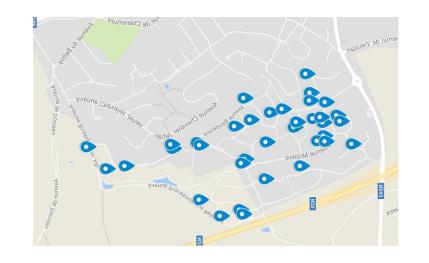




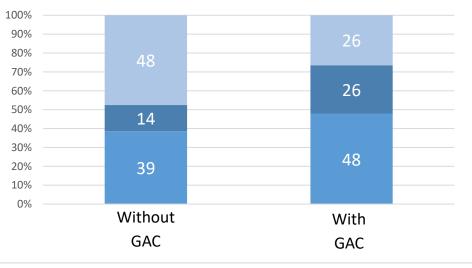
Project implementation

- Neighborhood with 50 houses controled
- DSO is partner of the project
- Preliminary results (+10 years)
 Increase in self-consumption
 - ✓ Neighbordhood : 53 % → 74 %
 - ✓ Individual : 39 % → 48 %

Decrease in consumption peaks (individual and neighborhood)



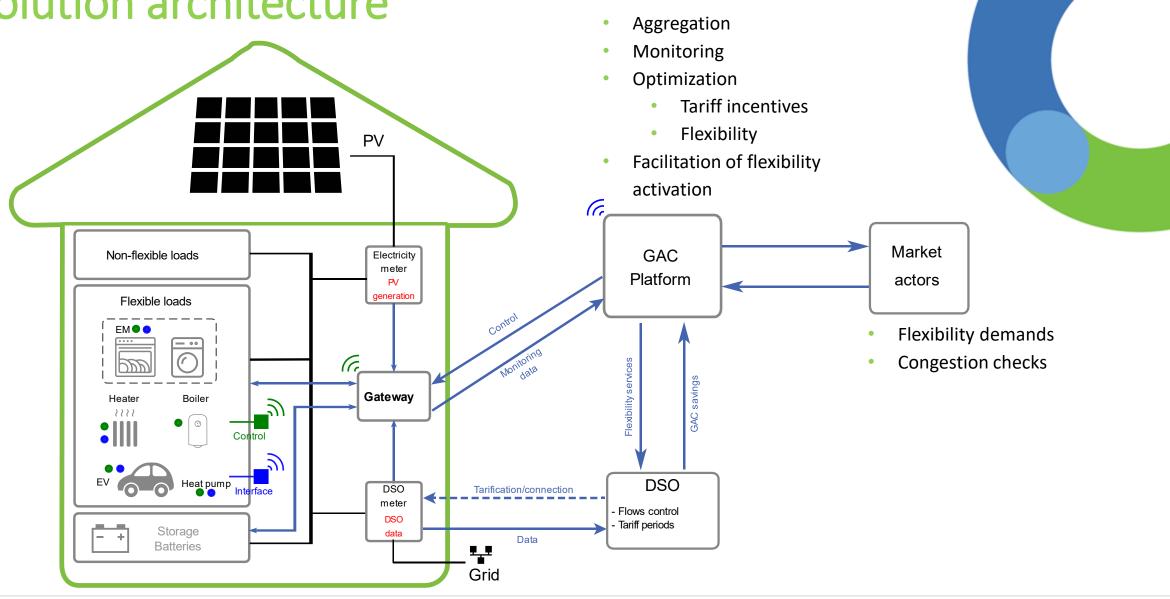




Autoconsumption (+10 years situation)



Solution architecture



GreenWatch

Power control & services

What are we looking for?

- Additional services we could include in our offer
 - Centralised and decentralised batteries, blockchain

- Additional playgrounds to test our solutions & more
 - ERA-NET project, H2020, ...



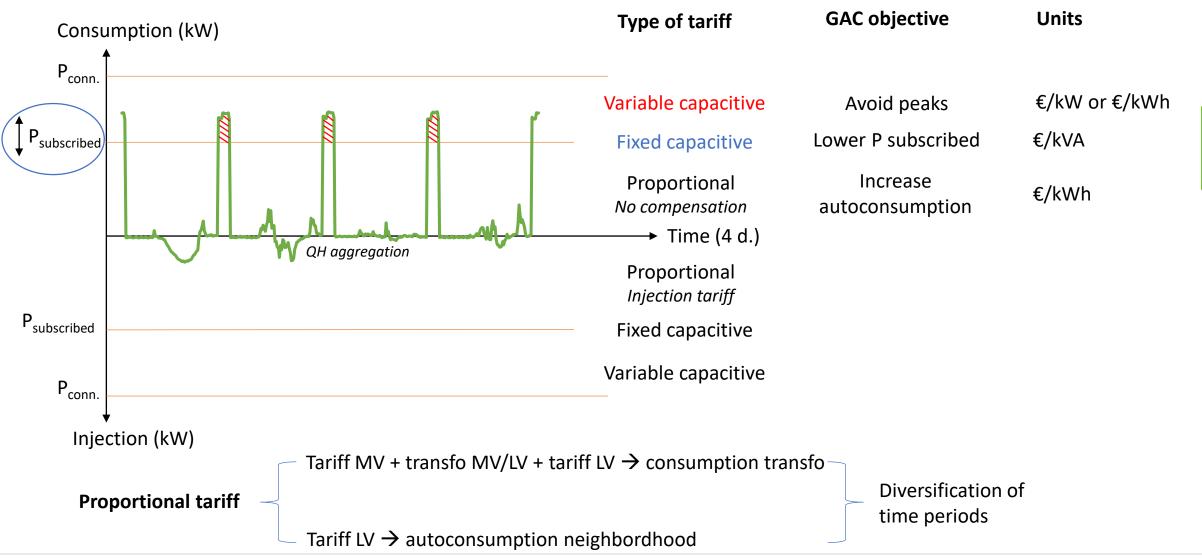




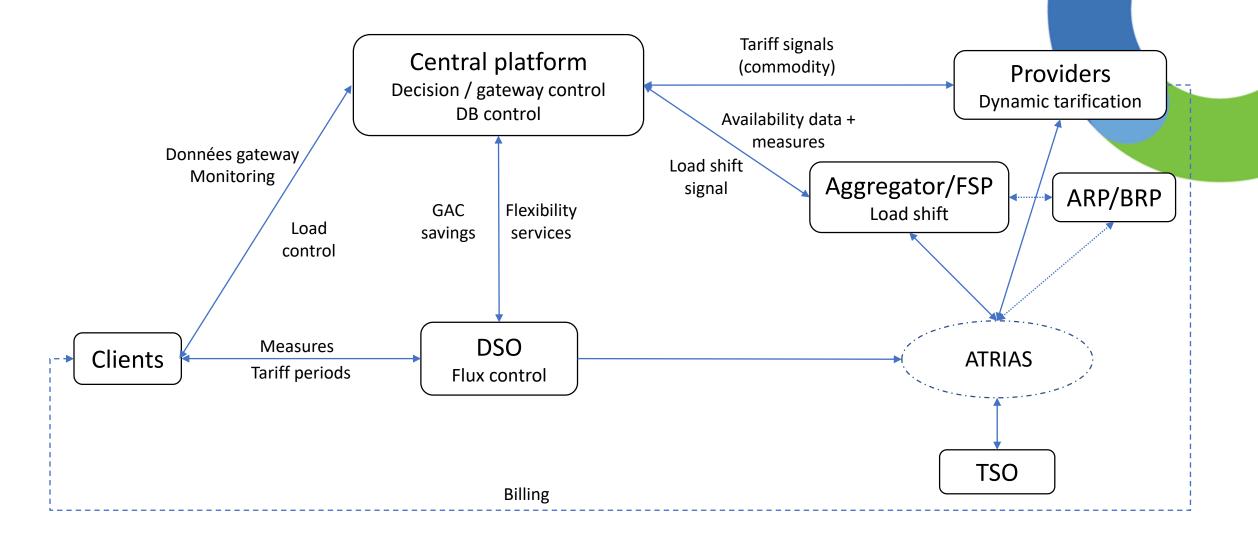
BACK-UP SLIDES



DSO – Tariff incentive?



Global scheme





IT ARCHITECTURE

