

Interoperable platforms and data exchange for energy services: practical experience from the BRIDGE projects




Thomas N. Mikkelsen | FLEXICIENCY | Utility week – Vienna – 06/11/2018



FLEXICIENCY

energy services demonstrations of demand response,
FLEXibility and energy effiCIENCY based on metering data

Quick facts

-  18 European partners from 10 EU States
-  Started on 2015, with a duration of 4 years
-  Total budget of 19M€ (G.A. 646482)

Value proposition beyond the state of art and overall objective

Consumers assuming new roles but first need more data and ICT services for greater control of energy use.

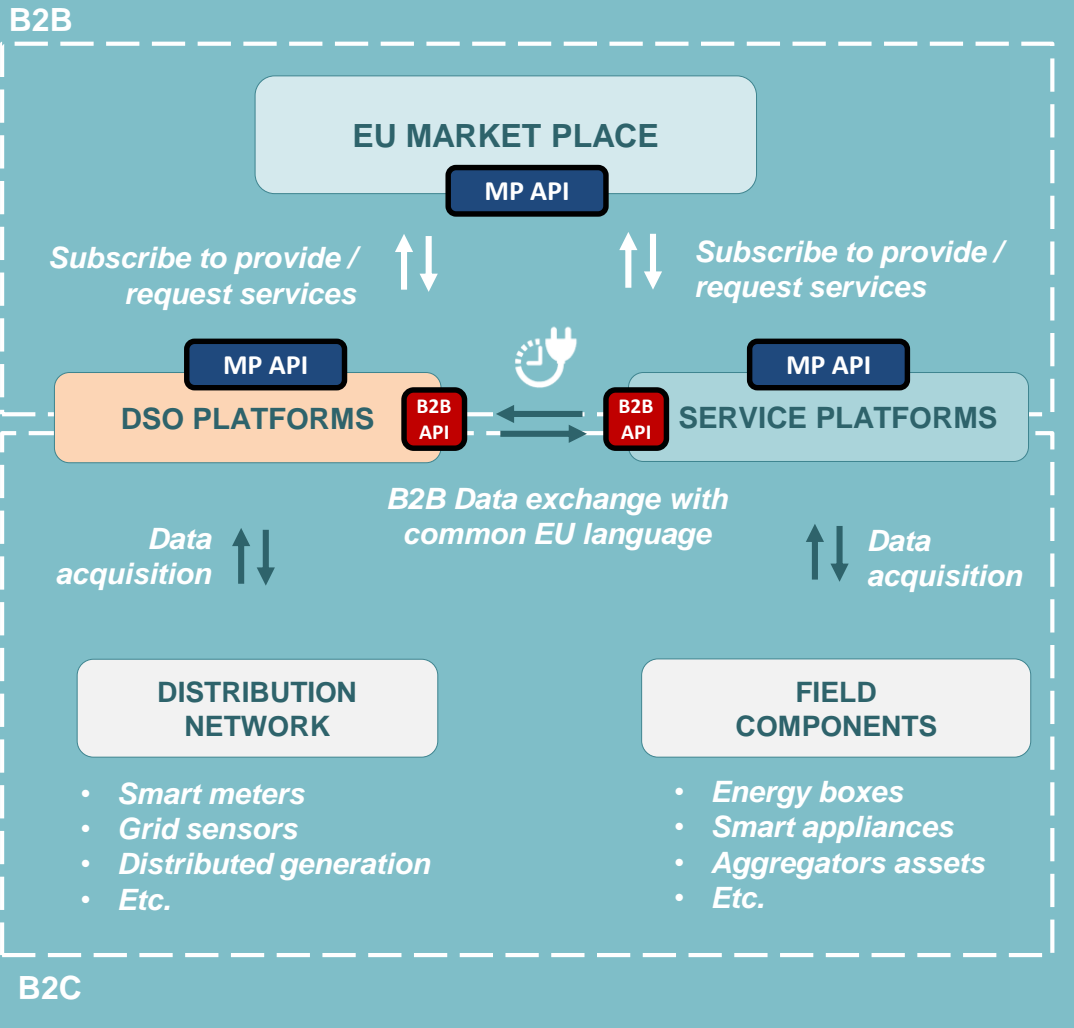
3rd parties to be able to access data to catch new business opportunities but data access is still a barrier.

No unique standard for data exchange and availability mostly for settlement, with limited forwarding to 3rd parties.

No / limited platforms able to cost – effectively allow for data and service exchange in Europe

FLEXICIENCY aims to facilitate the deployment of **novel services** in the electricity retail markets thanks to a **European Market Place (MP)** for **standardized interactions** among electricity stakeholders, **opening up the energy market** also to new players at EU level

FLEXICIENCY architecture and platform



Multi-source single contact point at EU level across diverse countries to facilitate competition development and remove barriers

Common language for B2B data and service exchange, through the definition of **common messages and specifications** for B2B communication and interfaces

Facilitation of consumers' engagement starting from higher awareness and control of energy use, where higher information and new services will empower them to **become active players.**

Data management and information flow

Data is not circulated directly through the Market Place, but **only the availability** of Data or Services are published on it and subscribed by players.

Load Control,
Customer Awareness
and Flexibility Offer

(with the proper customer consent)

**Single POD metering data
(close to real time)**

Market analysis
or simulations

**Aggregated Metering Data
(for area and period)**

As a return form metering
data, used for consumption
or generation forecast,
based on metering data,
weather condition and
other sources from
customer grid.

Processed data

Business model

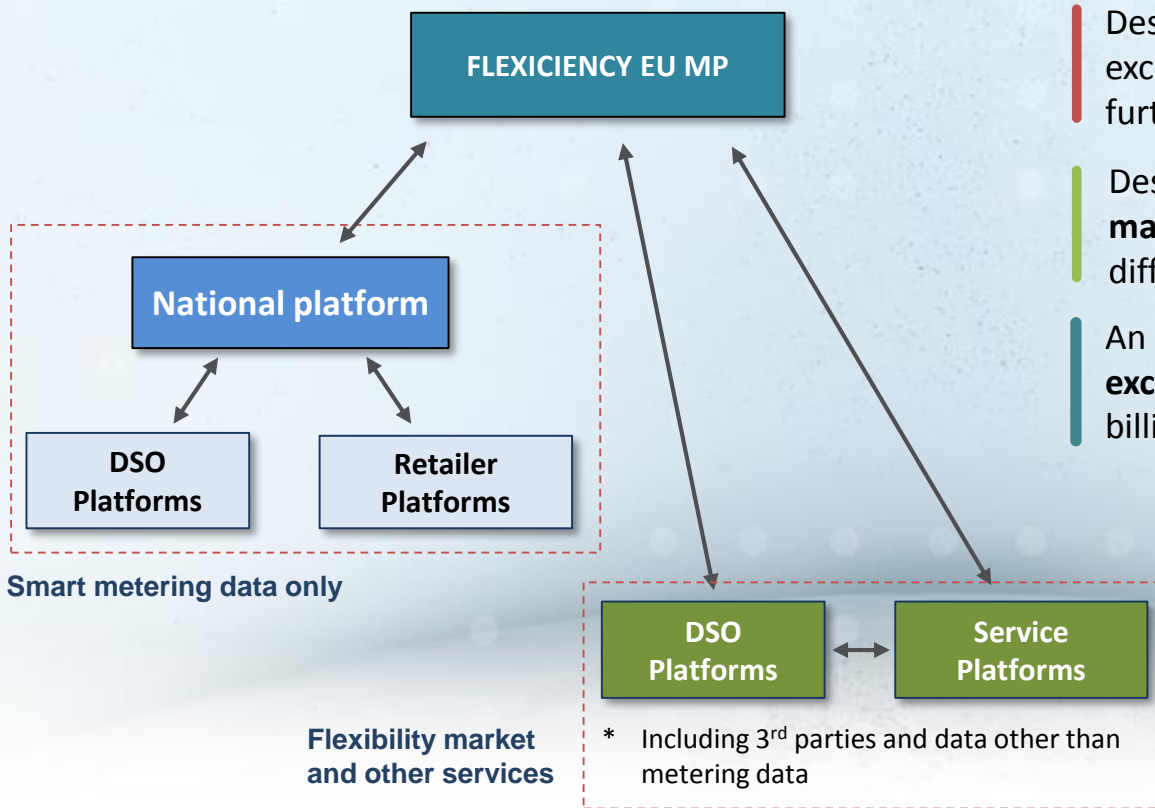
FLEXICIENCY as possible extra layer, providing a viable instrument adaptable to different contexts and evolutions

Not a data hub but a **unique combination of data, services and providers**, all meeting at single access point.

Designed to enable **not only smart meter data** exchange and to provide **access to 3rd parties** further to retailers and DSOs

Designed to **foster competition** and to **adapt to market evolutions**, regional and regulatory differences

An instrument to **support business-to-business exchanges** (not just switching of suppliers and billing purposes)



Regulatory framework

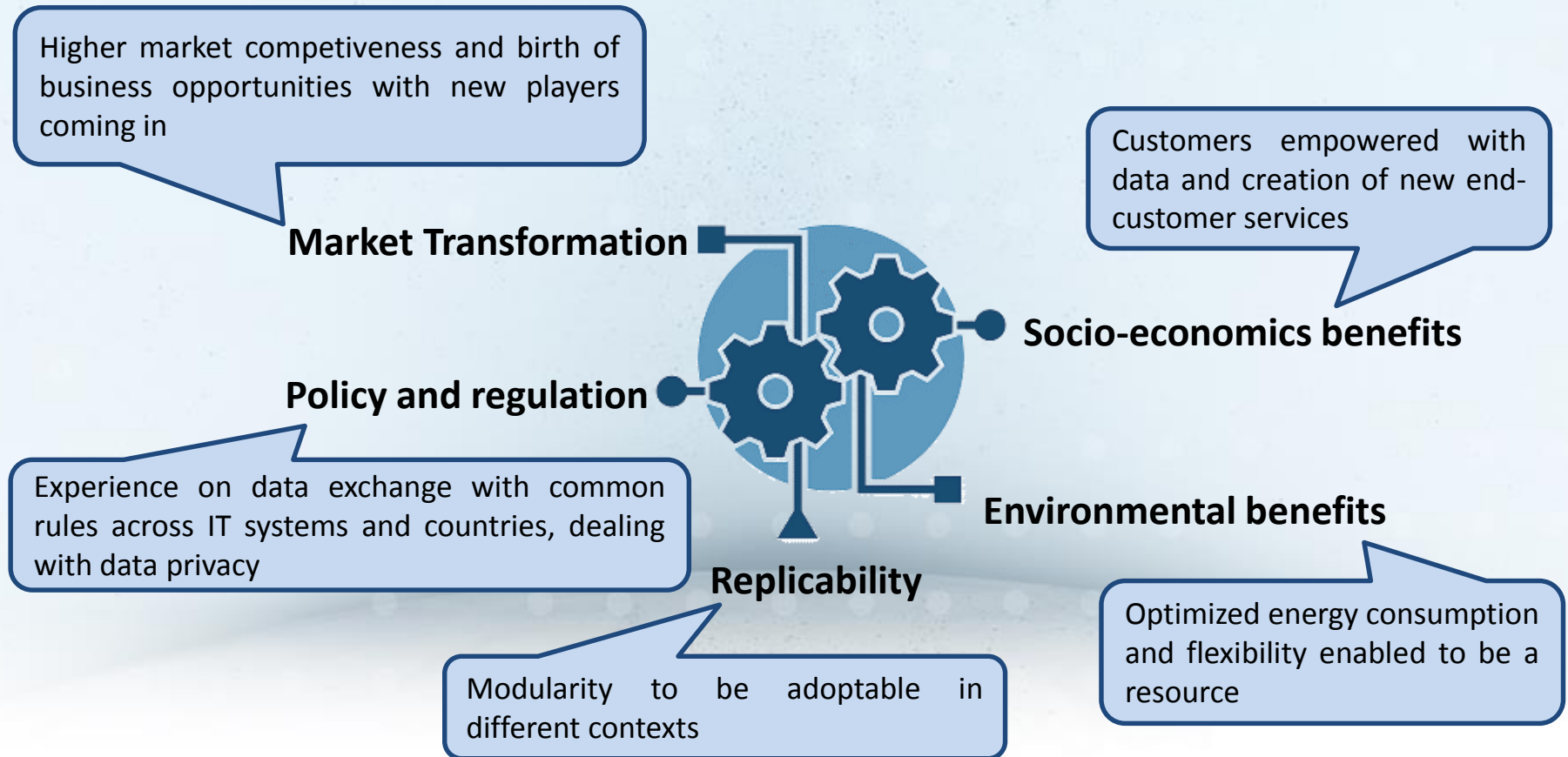
Since the EU MP fills **different functions from the exiting data hubs** / national platforms, **one does not replace the others, but regulatory backing is necessary for full exploitation**. Currently no national regulation implementing a FLEXICIENCY like solution

404 – Missing rule

- No standardised rules for cross-border trading
- No standards for Flexibility services

Ultimate impact at later stage

In our model, the platform is **focused on B2B** interactions. Customers will anyway benefit with **novel services** created after the **introduction** of the **EU Market Place**



Looking forward to being in touch!



Join our booth: B.k49.k1

<http://www.flexiciency-h2020.eu>

The FLEXICIENCY Consortium is here acknowledged

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