



# Digital Single Market – Smartening Europe

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# Digital Single Market



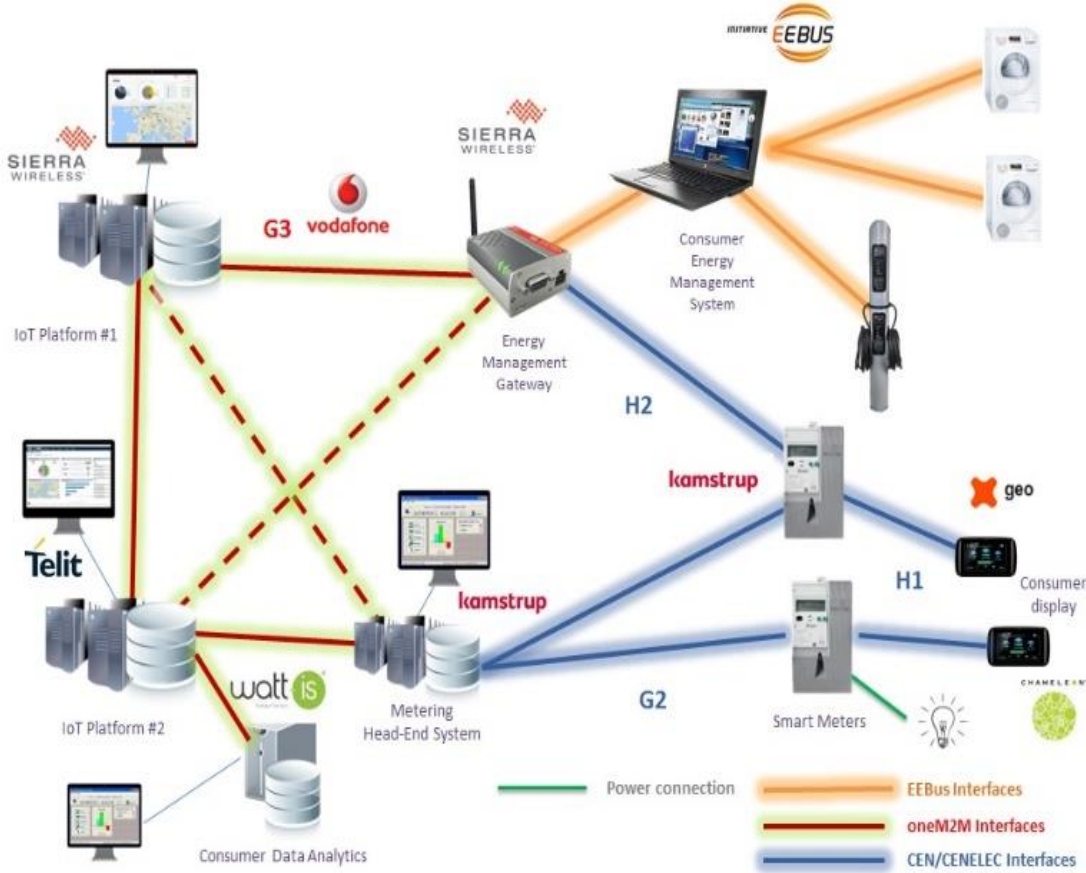
- ***Interoperability and Standardisation***
- ***Data management***
- ***The data economy will flourish if different types of data are accessible & re-useable:***
  - **Across borders**
  - **For & by different types of organisations (private, public, research)**
  - **For & by different sectors (e.g. energy, manufacturing, health etc.)**
- ***Data legislation***
  - **The Free Flow of non-personal data Regulation Adopted by the EC on 13 Sep 2017**
    - Free movement across borders: every organisation should be able to store and process data anywhere in the European Union**
    - The availability of data for regulatory control**
    - Easier switching of cloud service providers for professional users.**
    - Full consistency and synergies with the cybersecurity package, and clarification**
  - **Use and re-use of data - the Data Package**
    - Review of the directive for Public Sector Information**
    - Guidance on private sector data sharing in business-to-business contexts (B2B) and in business-to-government contexts (B2G)**
  - **Protection of data**
    - GDPR – entered into force on 25 May 2018**
    - cyber-security – NIS directive, European Certification and Labelling Framework for ICT products and services**
- ***Employing Internet of Things, AI, Big Data, cloud, blockchain, etc.***

# SAREF ontology

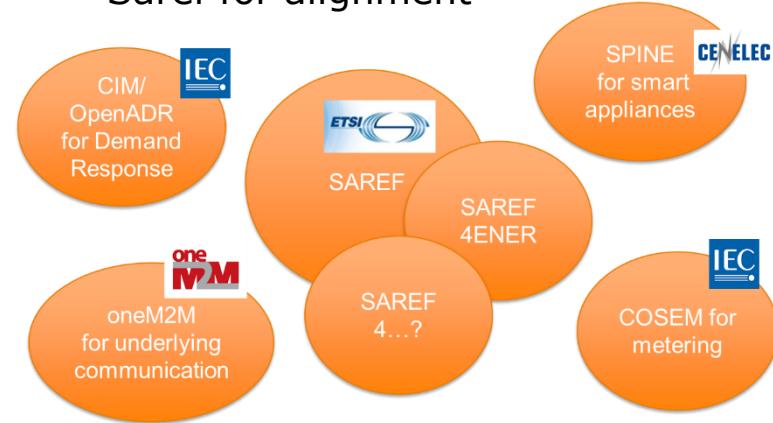


- **Jan 2014 – Mar 2015 – EC Study 2013/0077 created SAREF (Smart Appliances REFerence ontology)**
- **November 2015 - ETSI SmartM2M/OneM2M Standard**
- **One common interoperability "language" for any home appliance to exchange energy and product related info with any energy/building management system/entity**
- **2016, SAREF adopted by the Energy@home and EEBus industry associations as a basis for an extension - called SAREF4ENER - to interconnect their (different) data models**
- **September 2016 - First real world products based on SAREF showcased by EEBus at IFA Berlin**
- **January 2017 - new modular version of SAREF and first 3 extensions (Energy, Buildings and Environment) published**
- **Extensions for Smart Cities, Smart AgriFood, Smart Industry & Manufacturing, Automotive, Health/Ageing-well, Water and Wearables under development**
- **2016 – Follow up study (SMART 2016/0082) – Ensuring interoperability for Demand-side Flexibility**

# Demonstration set-up



## Saref for alignment



## Shown at three major events:

- **European Utility Week**
  - 3-5/10/17 Amsterdam
- **ETSI IoT week**
  - 23-26/10/17 Sophia Antipolis
- **Dedicated SAREF/Study SMART 2016/0082 event**
  - 27-29/11/17 EC premises

# The EIP-SCC

European Innovation Partnership for Smart Cities & Communities

Citizen Focus



Integrated Planning / Policy & Regulations



Business Models



6 Action Clusters

Urban Platform

Small Giants



Sustainable Districts & Built Environment



Sustainable Urban Mobility

Integrated Infrastructures and Processes

□ 4,600 partners

□ 370 commitments

□ 31 countries

Deliver: scale, acceleration, & impact,...

Through: common solutions, an integrated approach, & collaboration

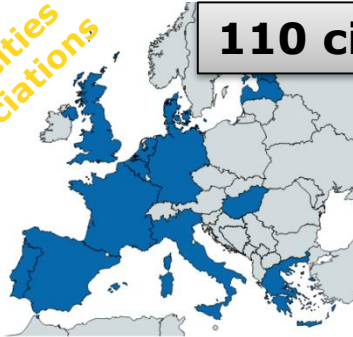
Focus on Energy, Transport and ICT

H2020

- Lighthouse projects (~100 M€/year; ~4 projects/year; per project – 3 lead cities, 3 follower cities and other cities)
- CSAs (Espresso, CityKeys, etc.)

# The Urban Platform Initiative within the overall EIP Context

Individual cities  
plus associations



110 cities

Urban  
Platform

Accelerate the adoption  
of Urban Platforms  
in EU cities

93  
signatories



Agree common  
requirements, and speed  
adoption

- Requirements
- Leadership guide
- Management framework

Demand  
Side  
LoI

Supply  
Side  
MoU

Standards

H2020  
ESPRESSO

Bring together EU Industry to  
adopt common open solutions

- Reference architecture and design principles
- Standards
- Scale

DIN  
91357  
standard

Formalise the capture of the core  
content as international standards

- By 2025, ensure that 300m residents of EU cities are supported by Urban Platform(s) to manage their business with a city and that the city in turn drives efficiencies, insight and local innovation through the platform(s)





**Thank you for your attention!**

**Any questions?**

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