



# Welcome to the World of Standards



## **ETSI M2M Workshop**

## **From Standards to Implementation**

**Enrico Scarrone, ETSI TC M2M Chairman, Telecom Italia**

**26-27 October 2011**

# ETSI M2M Workshops



- **October 2010 : 1<sup>st</sup> ETSI M2M Workshop. Agora, Sophia.**
  - More than **220** attended,
  - Share information and collecting input to drive M2M development in ETSI and specifically in TC M2M.
  
- **October 2011 : 2<sup>nd</sup> ETSI M2M Workshop. Agora, Sophia.**
  - More than **250** are attending,
  - Moving from Standards to implementation
    - Presenting the ETSI M2M Release 1 package,
    - Feedback from early implementations of M2M solutions
    - Analyzing current support form telecommunication technologies
  - Examining future requirements and needs for M2M standardization
    - Feedbacks from service implementation and market segments, leaders
    - Exploring further area of collaboration between standard organization

## Day 1 : **2nd ETSI M2M Workshop. Agora, Sophia.**

- SESSION 1 : INTRODUCING M2M
  - Objectives: Introducing and understanding the main the challenges of the standardization of the M2M telecommunication components
  - Introducing the demos
- SESSION 2 : The ETSI M2M STANDARD
  - Objectives: to present the Release 1 ETSI M2M technical standards
- SESSION 3: M2M COOPERATION
  - Objectives: to present the work of standards groups working on M2M and examine opportunities for cooperation
- SESSION 4: M2M EXPERIENCES
  - Objectives: To present experiences of ongoing real life trials and elaborate on operators and governments perspectives for the future
- DEMOS:
  - Objectives: To show how of M2M services are taking benefit telecom capabilities by means of early implementations

## Day 2 : **2nd ETSI M2M Workshop. Agora, Sophia.**

- SESSION 5a and 5b : M2M SERVICES
  - Objectives: to see how a variety of M2M services are currently fulfilled and to understand their needs and requirements.
- SESSION 6: TELCO TECHNOLOGY ENABLES M2M
  - Objectives: to see how present and future telco technologies support the needs and requirements of M2M
- CLOSING SESSION: wrap up and conclusions
  - Objectives: Summarize the messages given and received and collect further stimulus for the continuation of the M2M standardization in ETSI.
  
- And.....DEMOS continuation

# Introduction to TC M2M



## Mandate

- to develop and maintain an end-to-end overall telecommunication high level architecture for M2M
- to identify gaps where existing standards and provide specifications to fill these gaps

## Some data

- Established in Jan 2009, after 8 months of preparation in the ETSI Board
- 8 plenary meetings per year plus numerous ad-hoc meetings
- 3-5 conference calls per week
- Constantly Growing number of documents per meeting (300 +)
- Constantly growing plenary participation (70 +)
- Growing membership in M2M email list (400+)
- Active delegates from Europe, North America, China, Korea, and Japan and currently about 30% Operators, 60% Manufacturers and 10% others

## Open approach

- TC M2M has initiated active liaisons and cooperation with many other SDOs and consortia.
- Published and draft TR/TS are available on the public side of the ETSI server  
<http://docbox.etsi.org/M2M/Open/>

# The ETSI M2M Vision



**Horizontal  
Multi-Service  
Platform**

**Existing Standards  
Re-use and  
integration**

**Multi –  
Application**

**End to End**

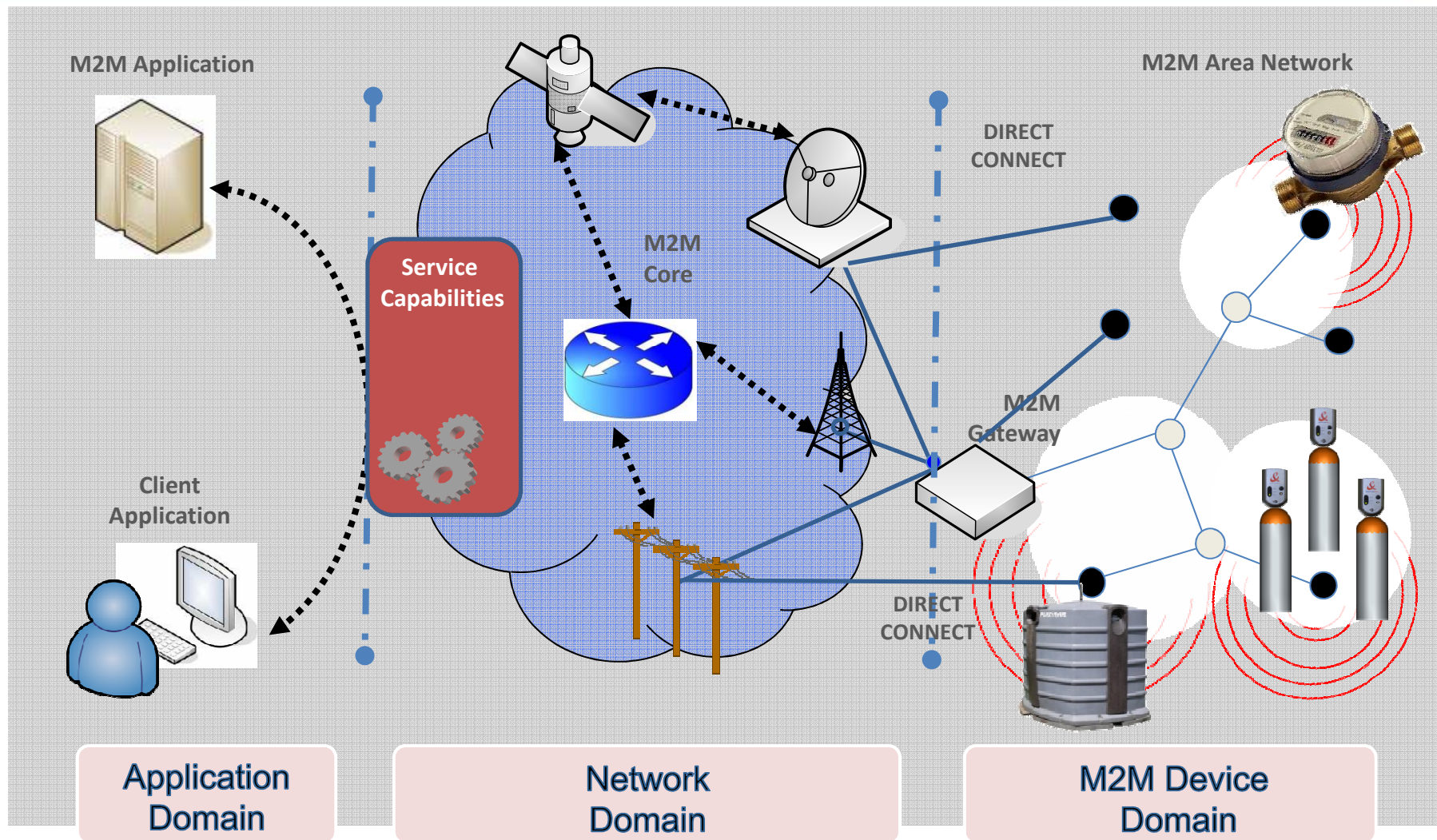
**Technology  
Independent**

**M2M Service  
Capabilities,  
Resource Based**

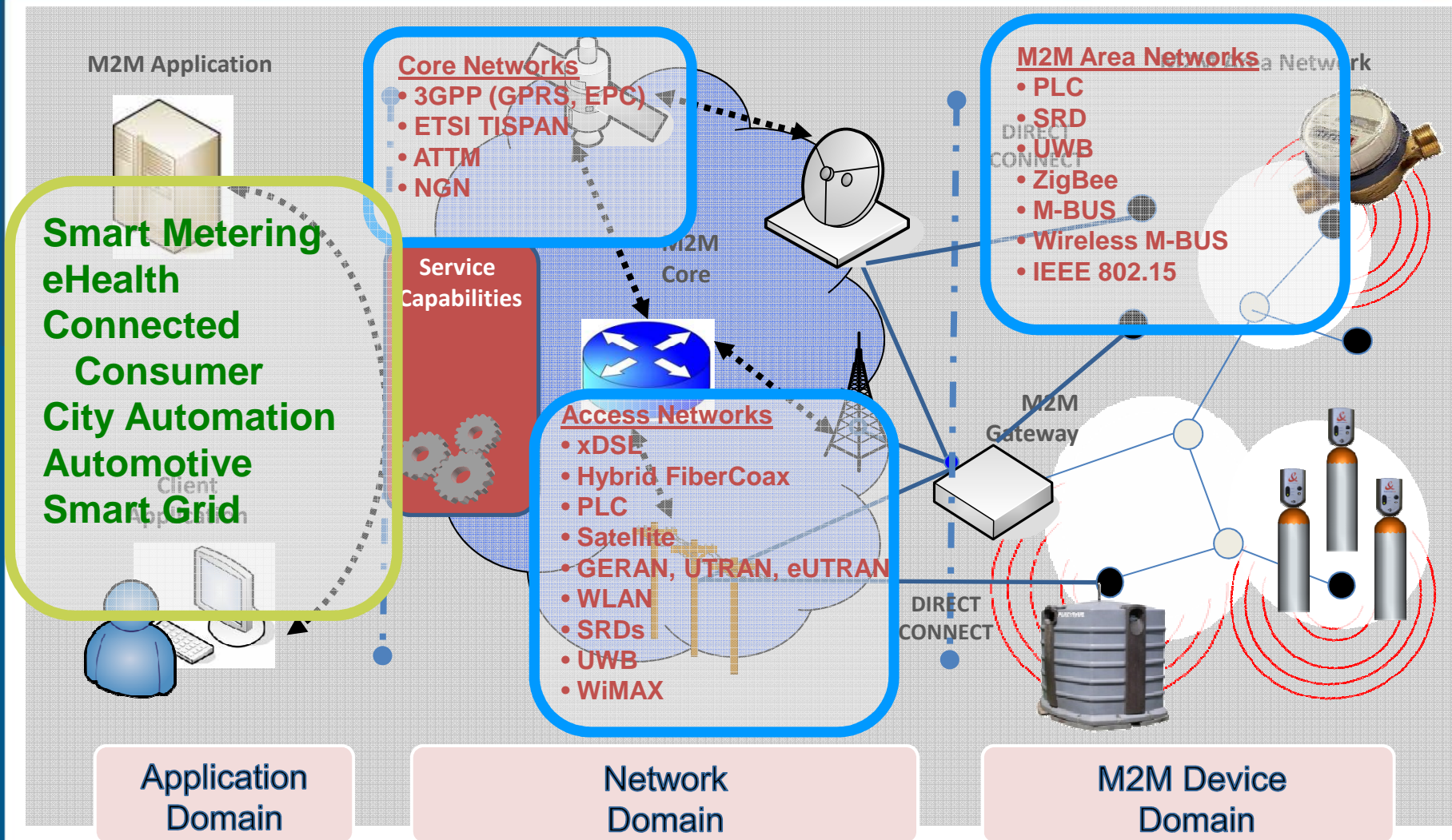




# ETSI M2M overall scenario



# ... based on existing Technologies





# TC M2M Organization



**Chairman:** Enrico Scarrone – Telecom Italia  
**Vice Chairmen:** Marilyn Arndt – France Telecom  
Omar Elluomi – Alcatel Lucent  
Joachim Koss – Cinterion  
**Technical Officer:** David Boswarthick – ETSI

## TC M2M PLENARY

**WG1**

**Use Cases &  
Requirements**

Patricia  
Maritigne  
France Telecom

**WG2**

**Architecture &  
Network  
Interworking**

Paul  
Russel  
Interdigital

**WG3**

**Protocols &  
Interfaces**

Raymond  
Forbes  
Ericsson

**WG4**

**Security  
Aspects**

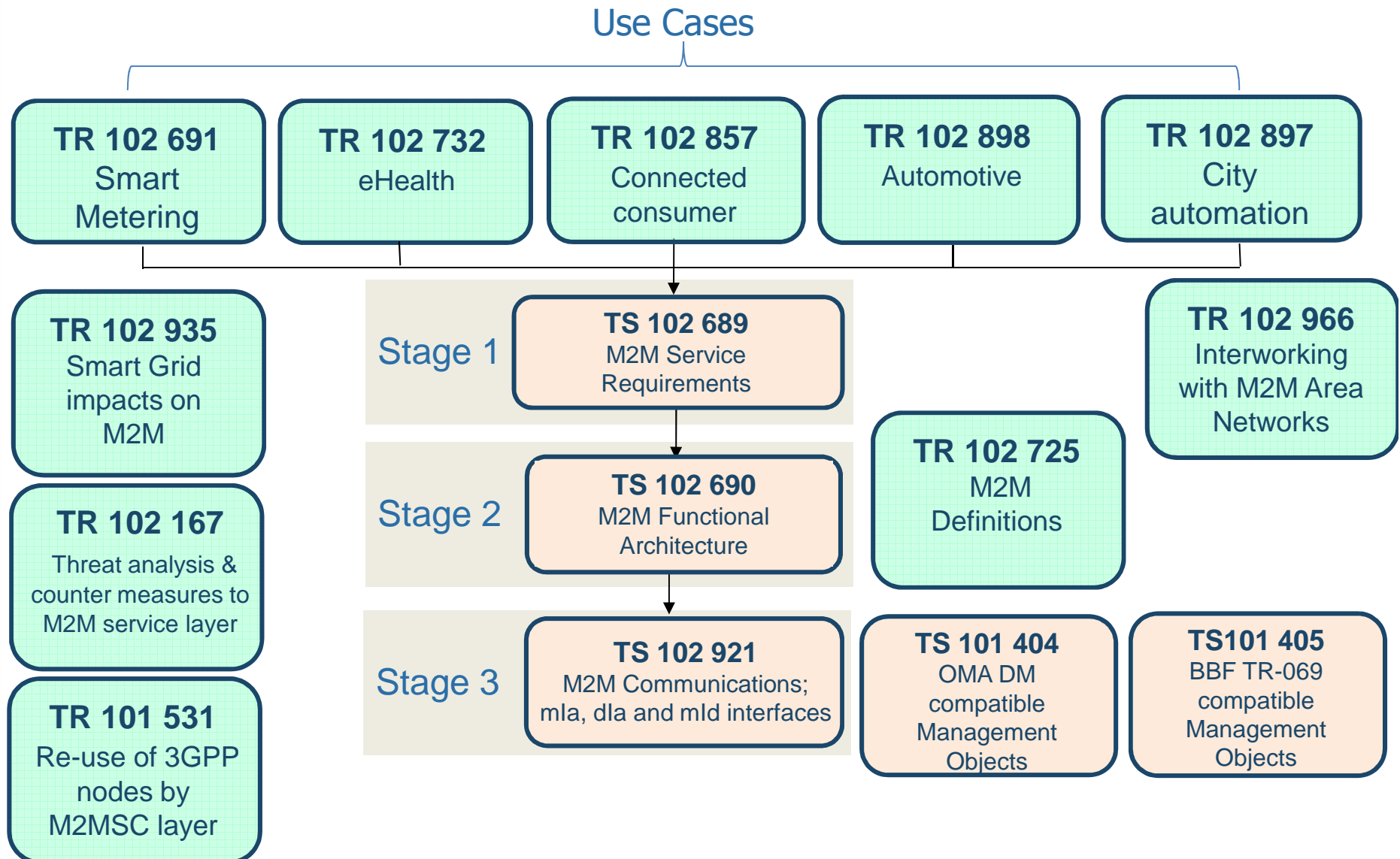
François  
Ennesser  
Gemalto

**WG5**

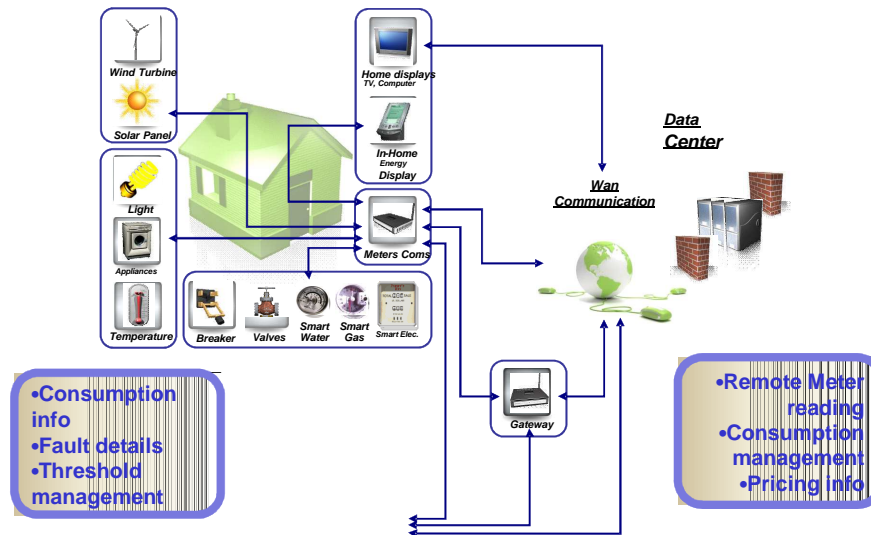
**Management  
Aspects**

Yongjing  
Zhang  
Huawei

# ETSI M2M Specifications Work



# EU driven Smart Metering mandate

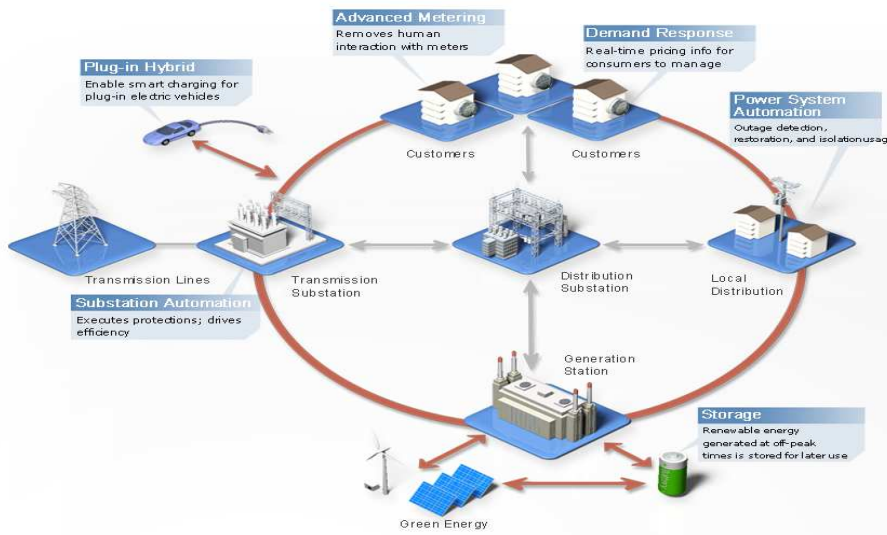


## EC's M/411 Smart Metering Mandate:

- EC Mandate issued in March 2009 by DG TREN and sent to the 3 ESO's : CEN, CENELEC and ETSI
- Objective: to build standards for European smart meters, allowing interoperability and Consumer actual consumption awareness

## EC's M/490 Smart Grid Mandate:

- EC Mandate issued in March 2011 by DG TREN and sent to the 3 ESO's : CEN, CENELEC and ETSI
- Objective: to build standards for European Smart Grids.



ETSI TC M2M is coordinating work inside ETSI and contributing to the mandates M411 and M490.

# What's next for M2M?



- **ETSI TC M2M is planning a short Release 2 (1 year timeframe or less), potentially including:**
  - Leading Market service standards integration (by means of Interworking/profiling/adaptation of ETSI M2M specifications)
  - Specification of additional functionality (transactions, compensation, automatic grouping, etc), extension to connectivity selection, charging, QoS classing, logging, security, etc
  - Additional architectural configurations (multi-hop service platforms, Gateway to Gateway and inter-M2M operator communications)
  - More detailed Area Network Technology interworking/adaptation
  - Network convergence layers toward major telecommunication network technologies, including re-use/integration of existing functionalities
- **Feedbacks, requirements and contribution from service and technology leading organization are welcome!!**

# What's next for M2M?



- **ETSI has triggered an initiative for the global consolidation of M2M telecommunication standardization (a sort of M2M Partnership Project):**
  - Some of the major telecommunication SDOs from Korea, Japan, China and USA have joined ETSI in the initiative
  - Discussion about how to set up it are ongoing and despite some willing to start very soon (1Q next year) a proper organization is taking more time
  - One of the major aspects is the involvement in this set-up of actors from the different service segments to assure a proper design of the telecommunication adaptation capabilities
  - **Service segment and market leading standard organizations are going to be invited to a discussion meeting soon....Be prepared!!!!!!!!!!!!!!**



**For further information feel free to  
contact us**

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