

# **Future Internet for Smart Grid**

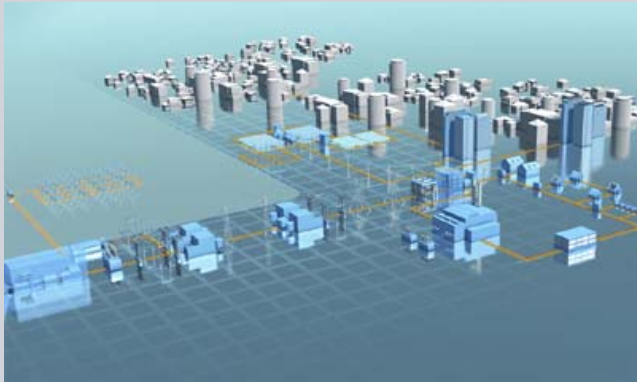
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**Brussels, 21<sup>st</sup>/22<sup>nd</sup> June 2010**

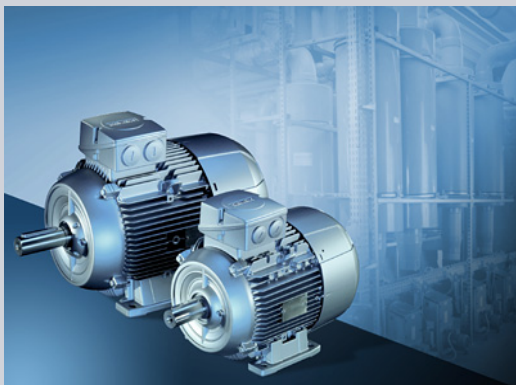
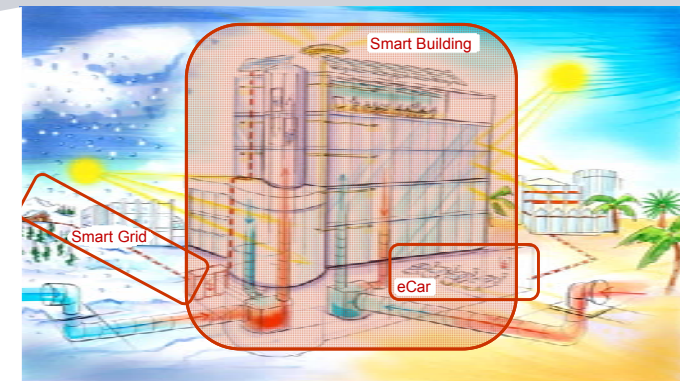


## Selected Smart Grid scenarios



Smart Grid Control

Smart Building  
interfacing to  
the Smart Grid



Smart Industry  
interfacing to the  
Smart Grid

## Important Future Internet focal points

### ➤ **Suitable Communication Services**

- Easy-to-use, easy accessible by overlying services
- Auto-configuration and autonomic management
- Fulfilling high-demanding industrial requirements

### ➤ **SOA for all Layers**

- meeting (industrial) constrains in terms of real-time, limited hardware resources, predictability, reliability, and availability

### ➤ **Cloud services**

- requirements on infrastructure and communication services
- which services benefit from cloud technologies
- quantification of the advantage

### ➤ **Standardized Interfaces**

- for data exchange
- for comprehensive monitoring and control processes
- allow for cross-usage-area solutions/applications

### ➤ **Future Internet Business Models**

- identification of new markets
- development of solutions for new market player

to be **delivered** by  
FI Core Platform

to be **supported** by  
FI Core Platform

**Experimentation environment**



\* proposed in the SET Plan

## Role of Siemens within the FI PPP European Future Internet Initiative

**SIEMENS**



- Intensive engagement in the Smart Grid area within the EFII
- Foundation of Smart Grid Stakeholder Group (see next slide)
- Intention to shape a strong consortium for the usage area 'Smart Grid'

## **Expanding the European Future Internet Community**

- Foundation of the “**Smart Grid Stakeholders Group**” as part of the Community
  
- Benefits for stakeholders group members:
  - Specify the **ICT requirements** of future smart grid architectures, systems and solutions and **shape European ICT R&D** activities.
  - Prepare for and perform **large-scale testing and trials** of Smart Grid solutions integrating advanced ICT with your prototypic solutions to validate functionality, interoperability and scalability.
  - Participate, in a **coordinated approach**, in the Future Internet Public Private Partnership program.
  
- Join the **Smart Grid Stakeholders Group** to actively shape the ‘Future Internet for Smart Grid’.

**Thank you !**