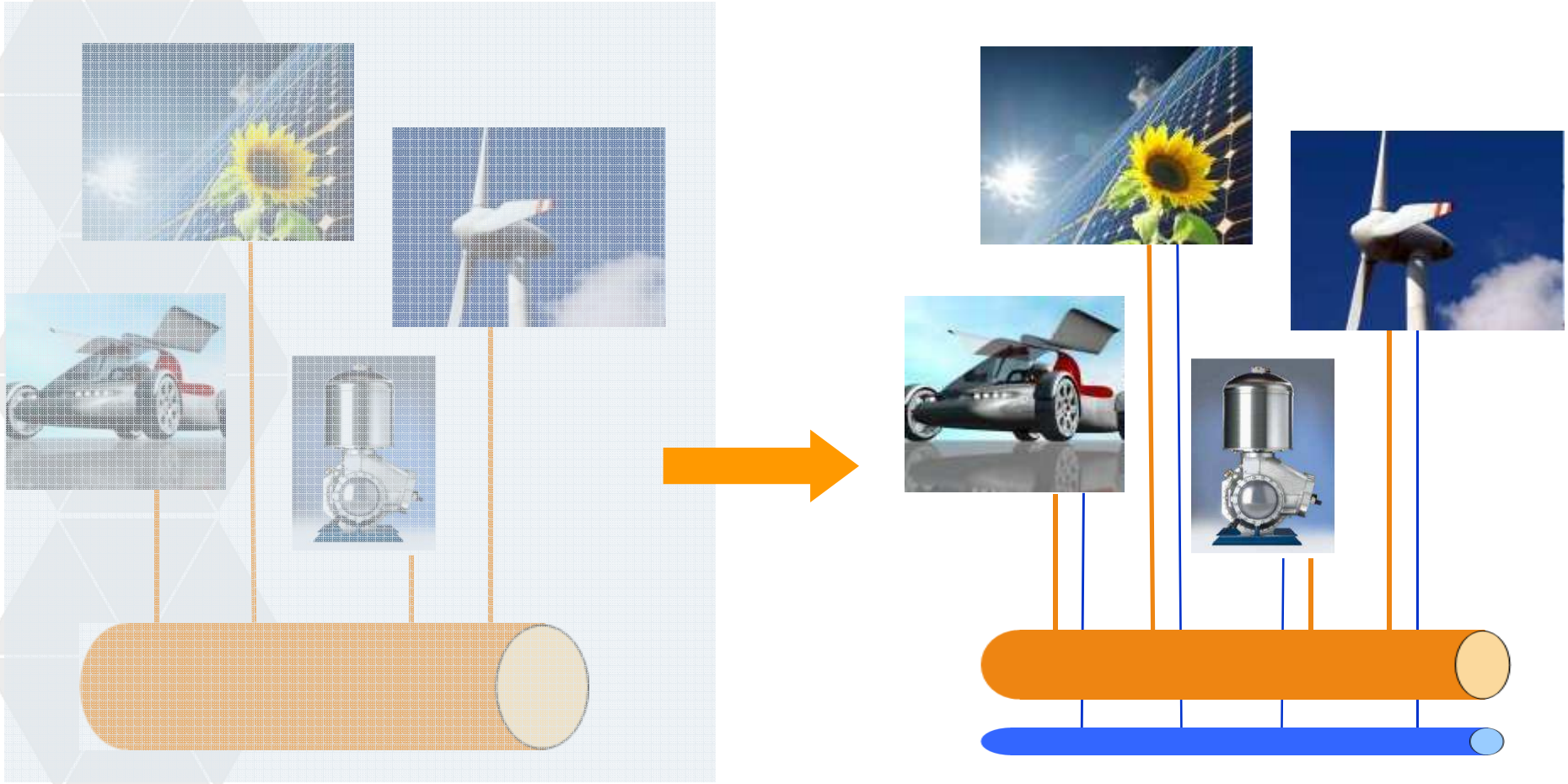
EU FP7 FI PPP FINSENY
(**F**uture **IN**ternet for **S**mart **EN**erg**Y**)

SMART ENERGY NEEDS SMART INFORMATION TECHNOLOGY

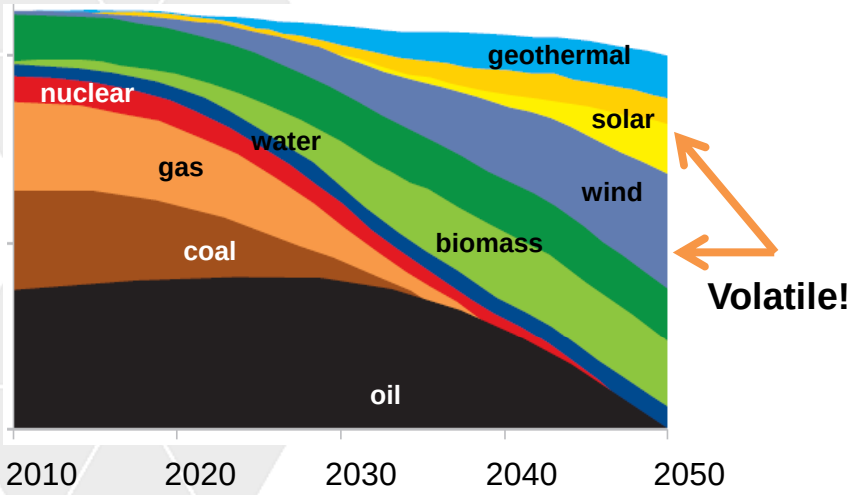
SMART INFORMATION TECHNOLOGY NEEDS A FUTURE INTERNET

6.6.2011 – Werner Mohr, Nokia Siemens Networks (on behalf of the FINSENY project)

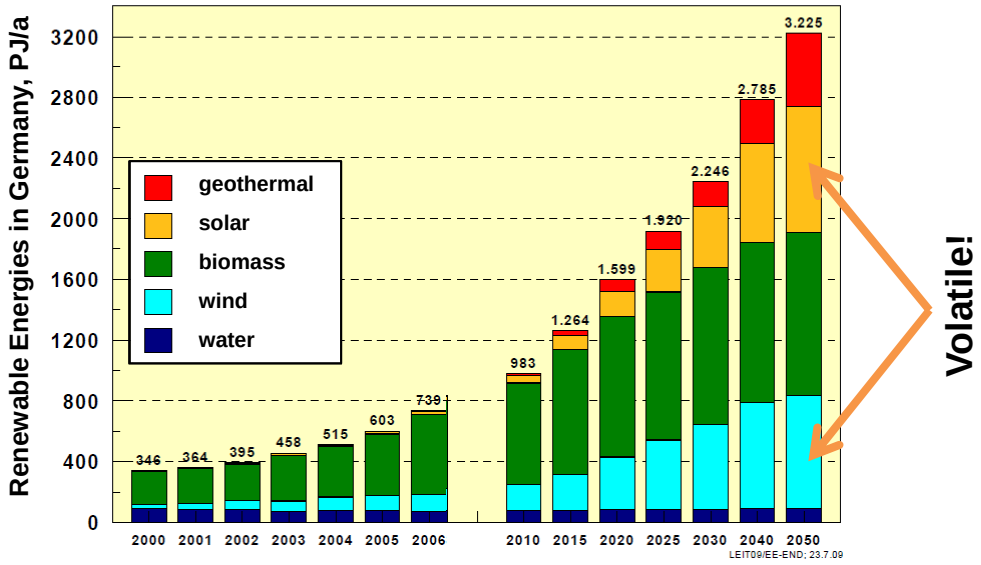
Key Driver: Integration of Renewables



Key Challenge: Volatility

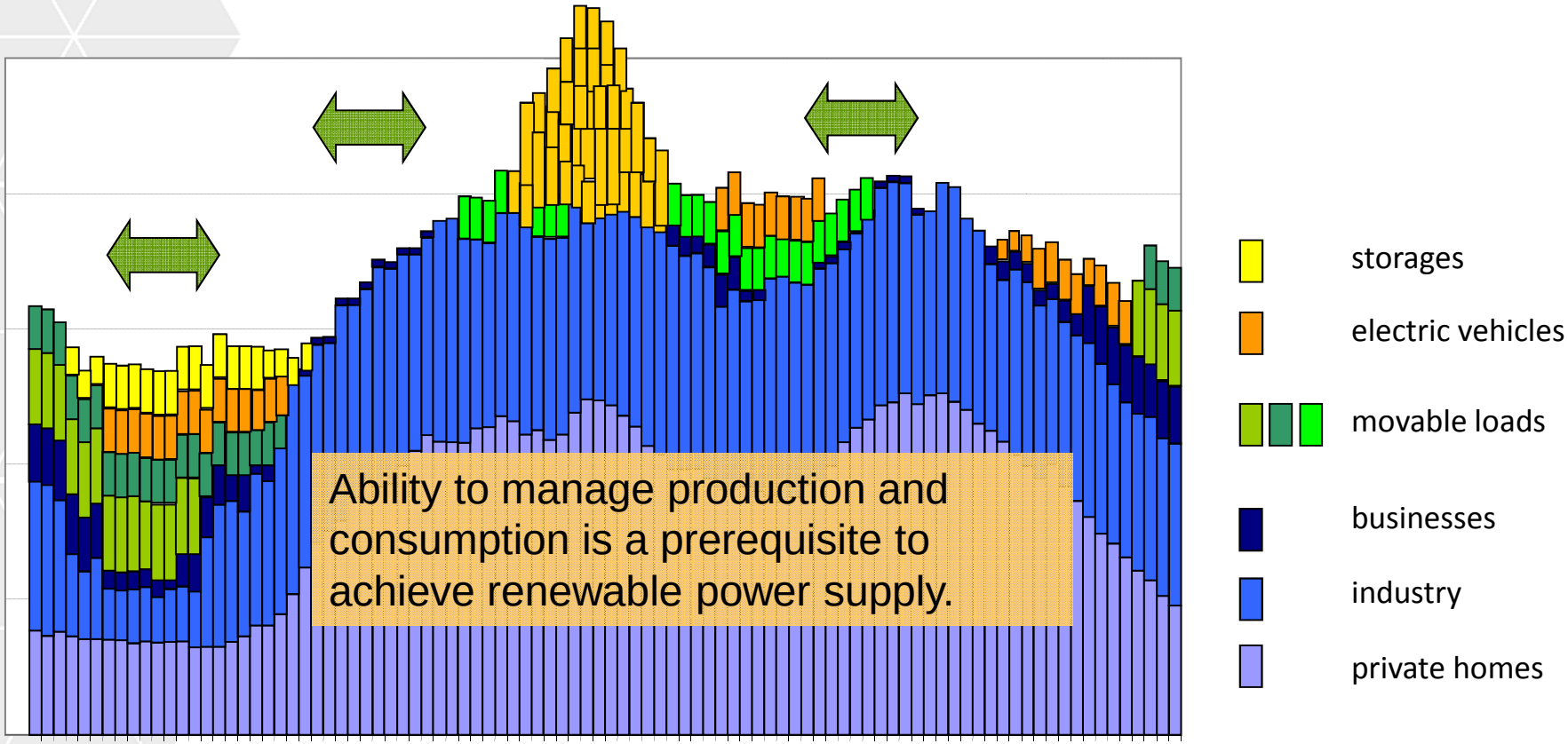


Volatile!



Volatile!

Managing Generation and Consumption



Project motivation

- In search of a sustainable energy system
  - limit climate change
  - replace nuclear power generation
- Renewable & decentralised energy generation
  - need to cope with volatility
  - need to optimally use existing grid infrastructures
- Liberalisation of energy markets
  - new services
  - new market roles
- Combination of action fields
  - smart grid and smart home
  - smart grid and electric mobility
  - …

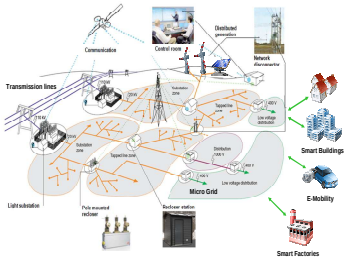
ICT is the key enabler for the smart energy world!

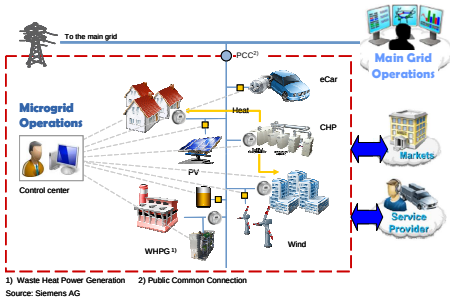
FINSENY
Goals and Objectives

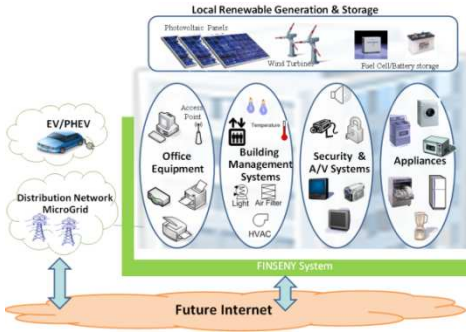
- Strategic Goals
  - Foster Europe's leadership in ICT solutions for Smart Energy
  - Team-up ICT and Energy sectors to coordinate common activities, to develop and to demonstrate outstanding European technologies and solutions
  - Optimise sustainability, reliability and cost-efficiency of energy supply
  - Contribute to implementing European Energy policies
- Project Objectives
  - Analysis of scenarios, identification of requirements, and development of reference architectures
  - Identification of generic enablers, together with the other FI-PPP projects
  - Provision of selected domain-specific enablers
  - Preparation of pan-European use case trials
  - Development of a cross-industry standardisation strategy

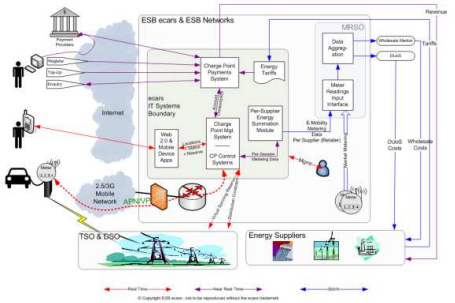
Selected scenarios

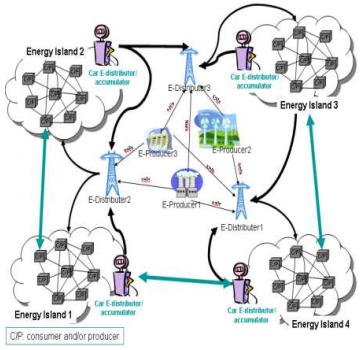
- Distribution network
- Regional-/Microgrid
- Smart Buildings
- Electric Mobility
- Electronic market place for energy











Major European partners joined FINSENY consortium