

Stakeholder responses and outlook on further work in the project

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Smart-A Case Study Workshops

- Smart-A case studies are undertaken in four regions of Europe: Germany, Italy, United Kingdom, Nordic region.
- A Case Study includes a series of 2 or 3 workshops with selected regional stakeholders:
 - Appliance manufacturers, electric utilities, renewable energy & CHP generators, consumer organisations, manufacturers of (building) energy management systems, regulators, traders & retailers of domestic appliances, researchers, ...
- The workshops serve as a reality check for project results and recommendations.
- Feedback from the stakeholders are taken up by the project team.

Stakeholder responses (1/2)

- **Appliances**
 - Many manufacturers already offer “smart” appliances.
 - Their market share is low, restricted to “high end” segment.
- **Household and consumer context**
 - Home automation systems also have a low market share, growing.
 - Consumers expect comfort and safety from Smart Appliances.
 - Increased awareness of consumers on energy issues might influence their behaviour regarding energy consumption.
 - Fully automatic Smart-A strategies might be most robust.
 - Data protection will be a key issue for consumer acceptance.
 - Consumer organisations concerned about complex energy tariffs.

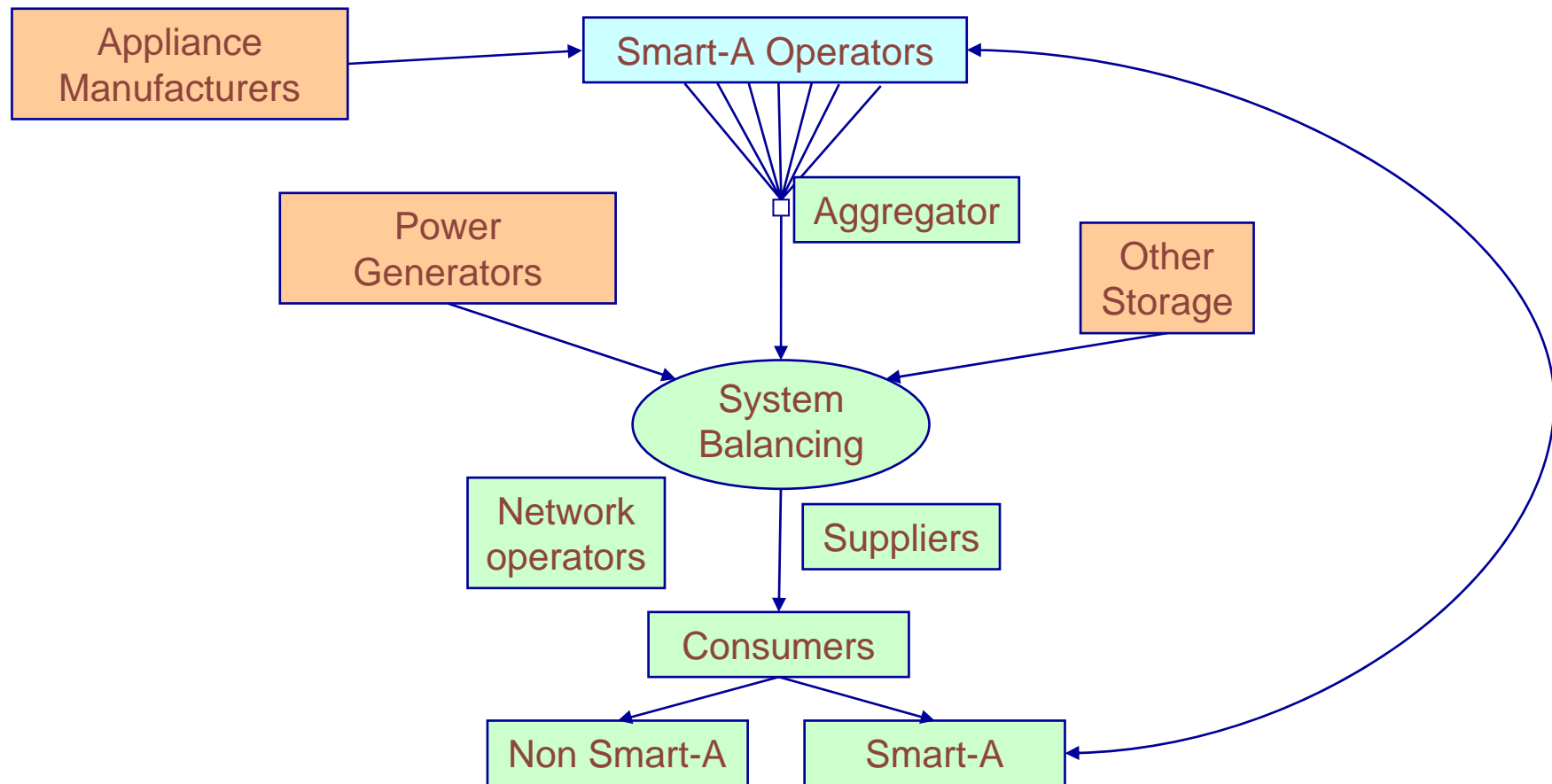
Stakeholder responses (2/2)

- **System context**
 - Smart Meters will be installed in many countries, they might allow for load management and could be the gateway to the household.
 - Communication standards and technologies are crucial.
- **Policy context**
 - Policy makers interested in energy efficiency and CO2 reductions.
- **Open questions**
 - How can Smart-A work in fully liberalised electricity markets?
Unbundling, consumer switching, network regulation, ...
 - Which actors will coordinate large numbers of Smart Appliances?
 - ...

Overview: Further Work in the Project

- Refining modelling results for the effects of Smart Appliances both in Local Energy Systems and in larger electricity networks.
 - Results for different framework conditions across Europe.
- Economic Assessments (reflecting regional framework conditions):
 - Evaluation of the business case for Smart Appliances.
 - Development of adequate incentive schemes.
- Analysis on adequate communication standards.
- Development of strategies for Smart Appliances implementation:
 - Identification of beneficial Smart Appliances concepts.
 - Deriving concrete recommendations for relevant actors.

Actors Involved in the Allocation of Smart Appliances Value



Incentive Mechanisms for Smart Appliances

- Objectives
 - Create sufficient incentives for the relevant actors.
 - Ensure a fair allocation of costs and benefits of Smart Appliances
- Potential incentive mechanisms can include, *inter alia*
 - Lump sum payments per smart appliance purchased
 - Payment to Smart-A users and/or to manufacturers/retailers
 - Payment to Smart-A users per smart cycle used
 - Fixed or variable payment per cycle
 - Real-time pricing of electricity for Smart-A users
 - ...

Partners and Contact Information



Project Website:

<http://www.smart-a.org>

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