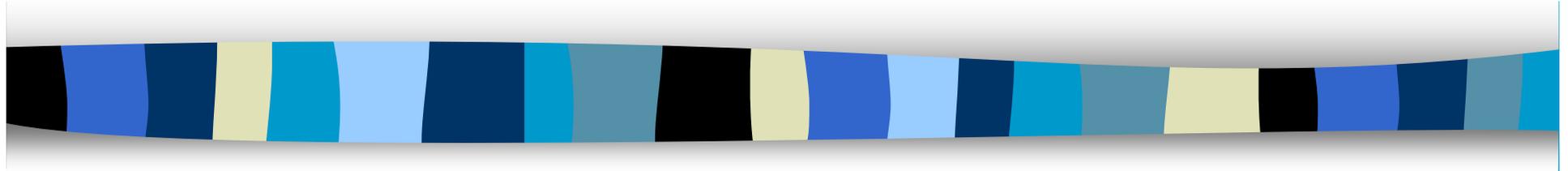
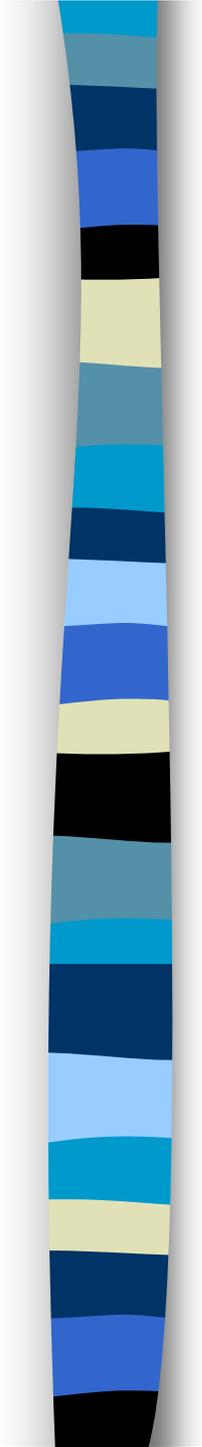


Task Force smart grids expert group 1



Steering committee meeting
Brussels, April 21st



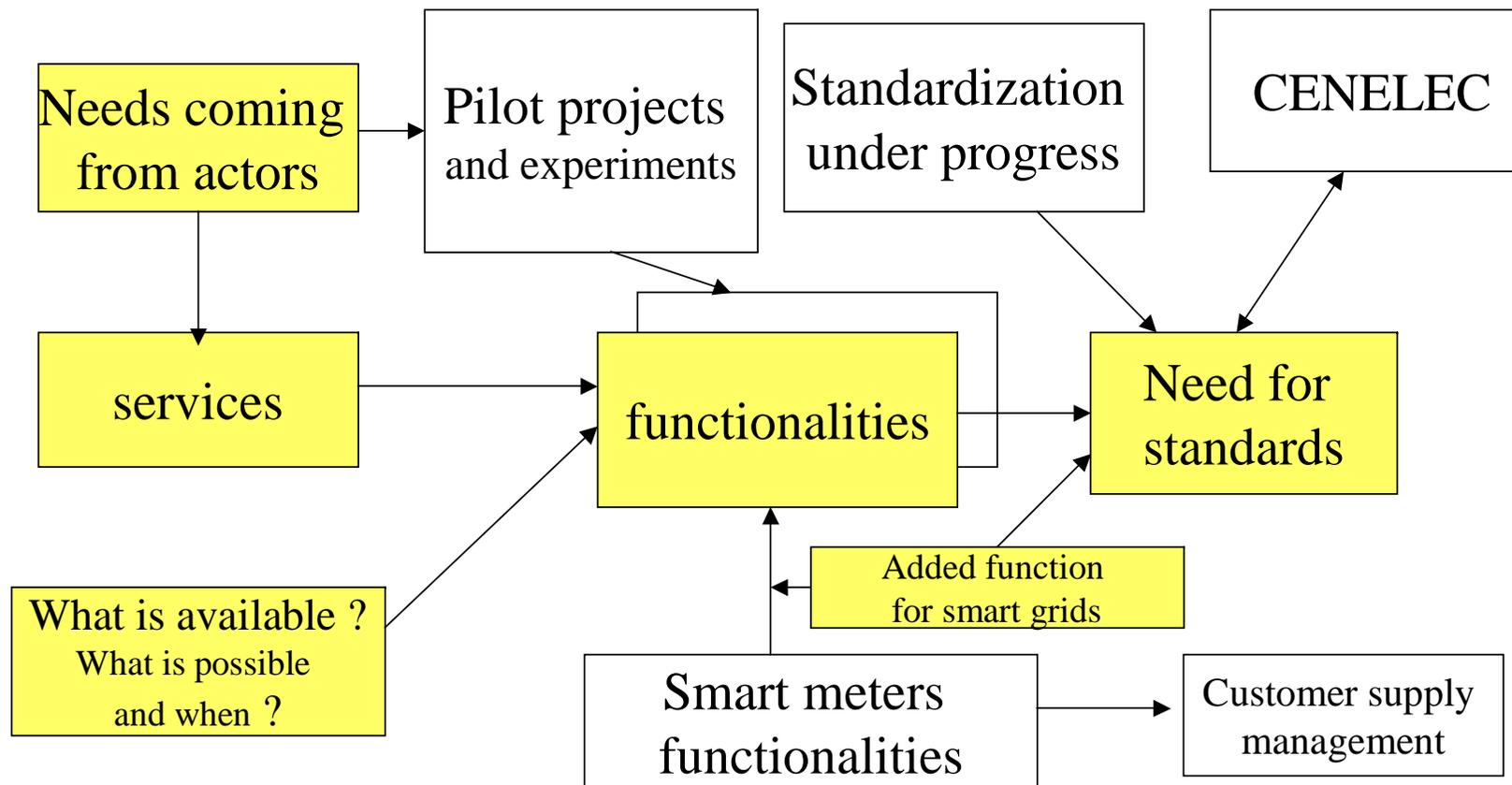
Mission of the group

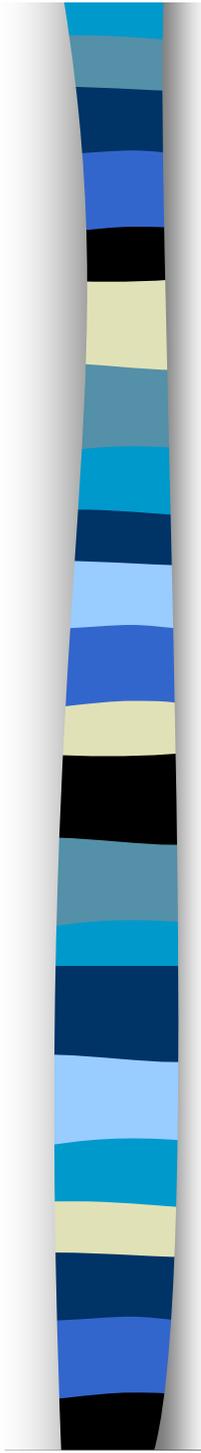
Functionalities of Smart Grid and Smart Meters.

The key deliverable is to provide an agreement among all actors involved on a set of minimum functionalities for Smart Grids and Smart Meters. The work will be focussed on the following topics:

- Adopt the defined services that the Smart Grids are expected to deliver to different network costumers
- Take into account and follow up the work of CENELEC, ERGEG, GEODE, and other position papers' and stakeholders' consultations on Smart Metering.
- Take stock of the smart metering implementation status in different MS
- Define concept of Smart Grid within the framework of the Task Force
- Define in which part of the Smart Grid concept Smart Metering plays a key part.
- When discussing functionalities, the following aspects of Smart Meters could be taken into account: demand metered data access for customers, demand meter data access for authorised third party, price signal to customer, remote meter management, remote demand reduction, remote connection/disconnection, quality of supply, price signal to customer.
- Ensure that functionalities take into account needs of all customers (including vulnerable customers)
- Define to what extend there is a need to have functionalities regulated
- Recommendations to integrate a standardisation strategy into the strategy for Smart Grids
- Define to what extend there is a need for a mandate on Smart Grids standards
- Agree on the minimum requirements on functionalities of Smart Grids
- Agree on the minimum requirements on functionalities need in Smart Meters or Metering Systems necessary for Smart Grids

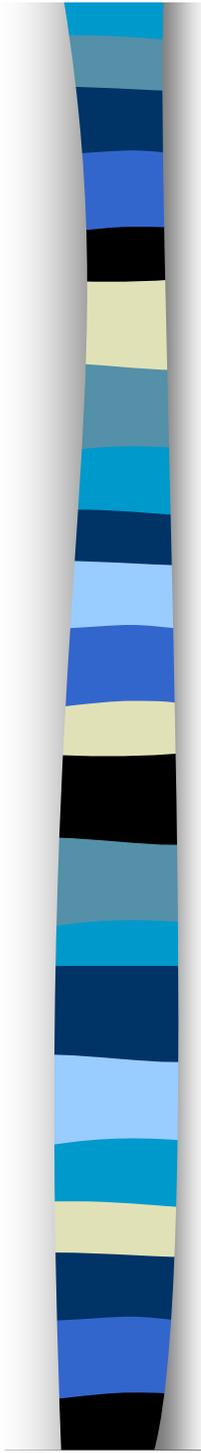
How to define functionalities ?





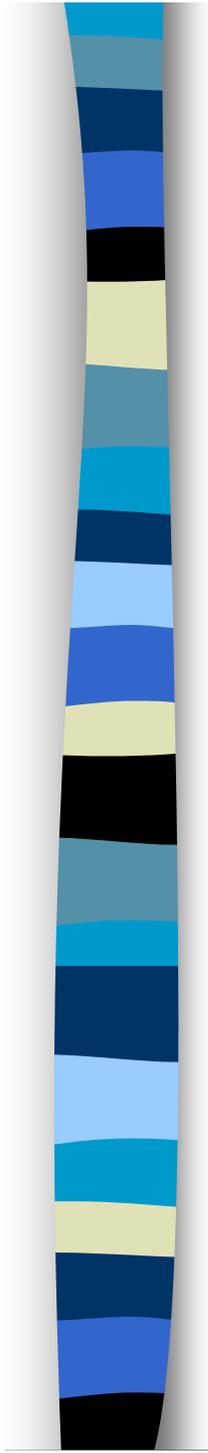
Work progress

- 4 meetings of the expert group EG1
 - January, 27th : kick off meeting in Brussels
 - March, 2nd: second meeting
 - April, 15th : third meeting
 - May 26th : forth meeting
- 2 subgroups are working :
 - SG1 : state of the art
 - The group is chaired by ESMIG
 - SG2 : fonctionnalités
 - The group is chaired by ERGEG



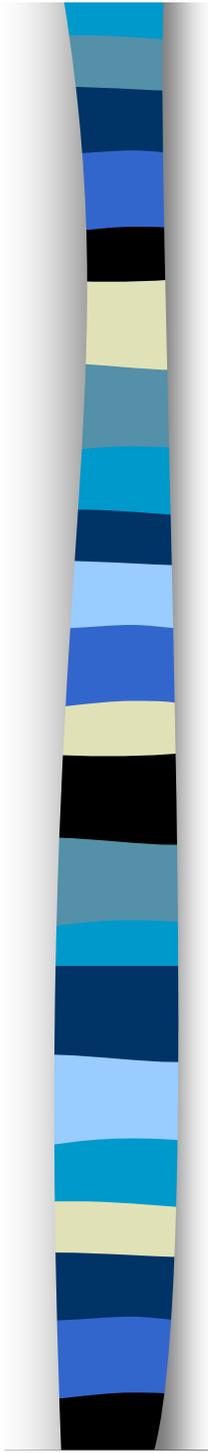
Some key points

- Report more focused on distribution network and coordination between TSOs and DSOs
- Clear link made between smart grids and smart metering program
- Home network and devices out of the scope but interface between smart grids and the home inside the scope
- All users of the network in the scope : residential, commercial and industrial customers
- Transerve topics taken into account : interoperability, customers acceptance



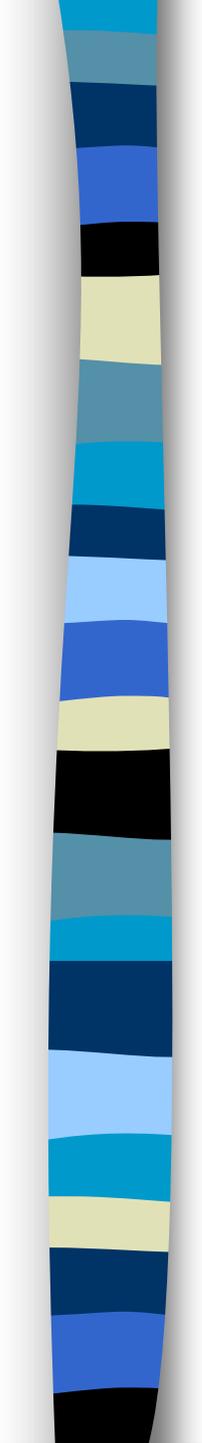
A first output

- Six high level services built with a correct consensus among all actors
- For each of them :
 - Outcome
 - Provider
 - Beneficiaries
- The 6 services induct 53 functionalities which are under discussion



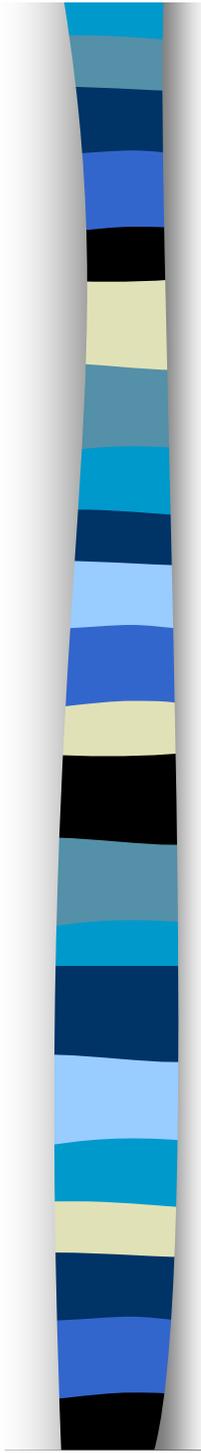
The six high levels services

- **Enabling the network to integrate users with new requirements**
- **Improving market functioning**
- **Enhancing efficiency in day-to-day grid operation**
- **Ensuring network security, system control and quality of supply**
- **Better planning of future network investment**
- **Enabling and encouraging stronger and more direct involvement of consumers in their energy usage and improving customer service**



Structure of the deliverable

- Introduction : sharing the concept of smart grids
- Assumptions
- Transmission network and coordination between transmission and distribution
- Services
- Functionalities
- Smart metering and smart grids : links and frontiers
- State of the art : where are we ?
 - Standardisation (link with CENELEC)
 - Experiments on the fields
 - Equipment, systems and products already available
- Strategy for standardization
- Recommendations and priorities
- Definitions : common with EG2 and EG3

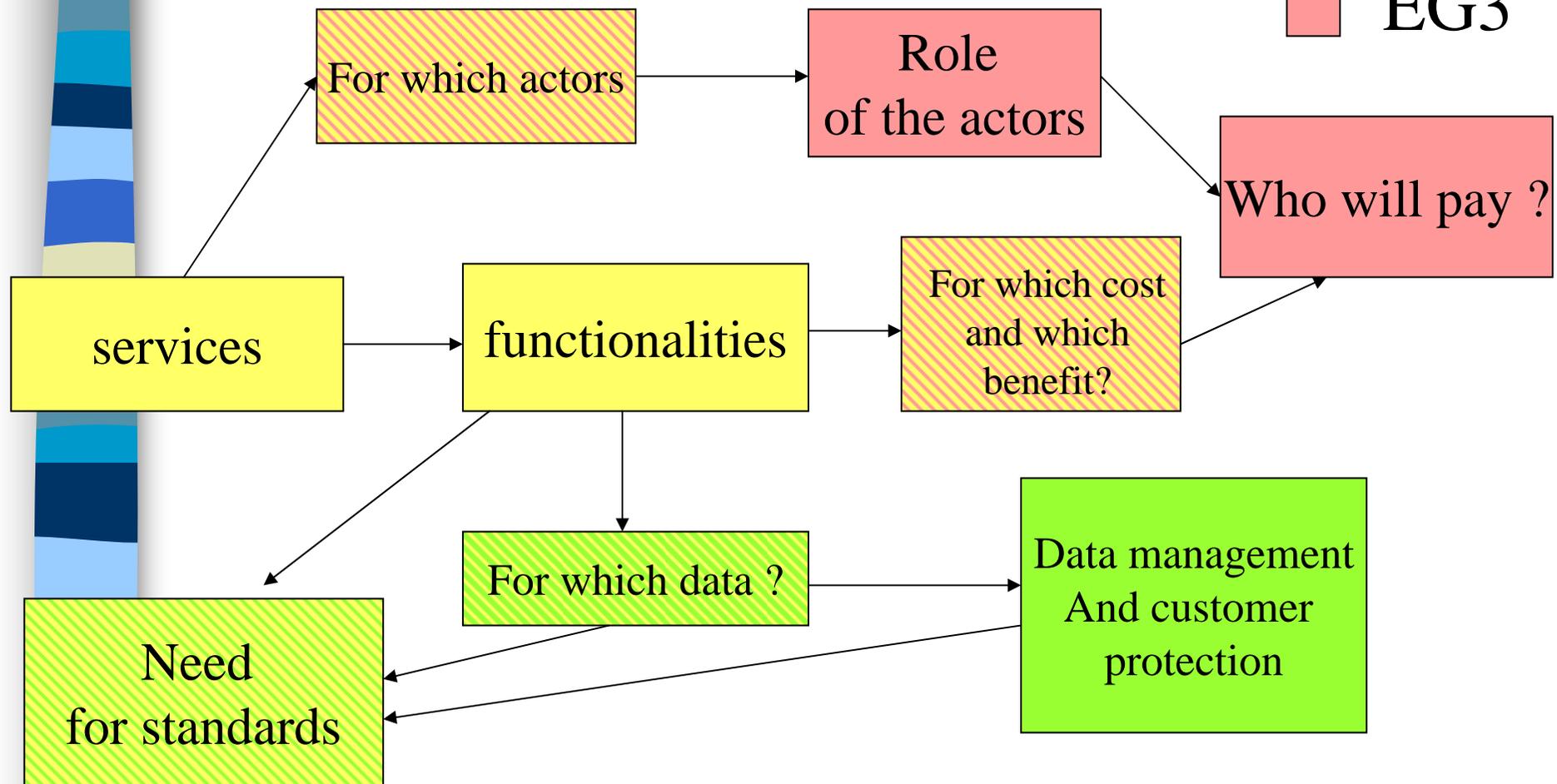


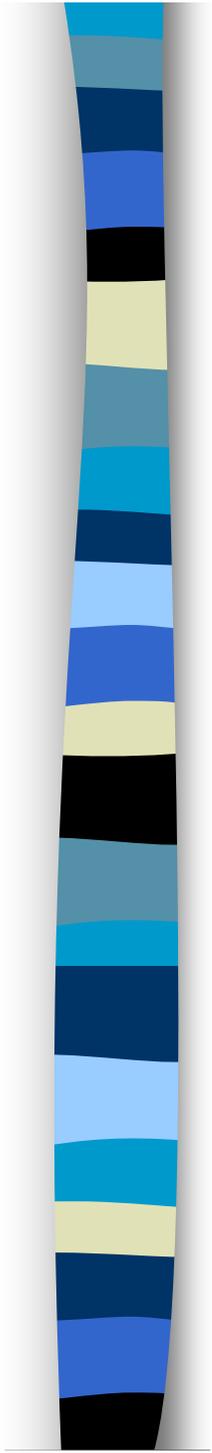
Next steps for validation

- May 20th : circulation of the 1st draft of the report
- May 26 th : last physical meeting of EG1
 - Review of the draft of the report
- June 7th : to receive the comments from the EG1 members
- June 16th : meeting of the writing team
- June 18th : final document available for associations members of EG1, to be sent to the steering committee members
- June 22nd : meeting of the TF steering committee
- June 29th : final comments from the associations
- July 5th : final document available

Links between the 3 groups

- EG1
- EG2
- EG3





Thank you