

The logo for ACER (Agency for the Cooperation of Energy Regulators) features the acronym 'ACER' in a large, blue, serif font.

Agency for the Cooperation
of Energy Regulators



● Framework Guidelines on Electricity System Operation

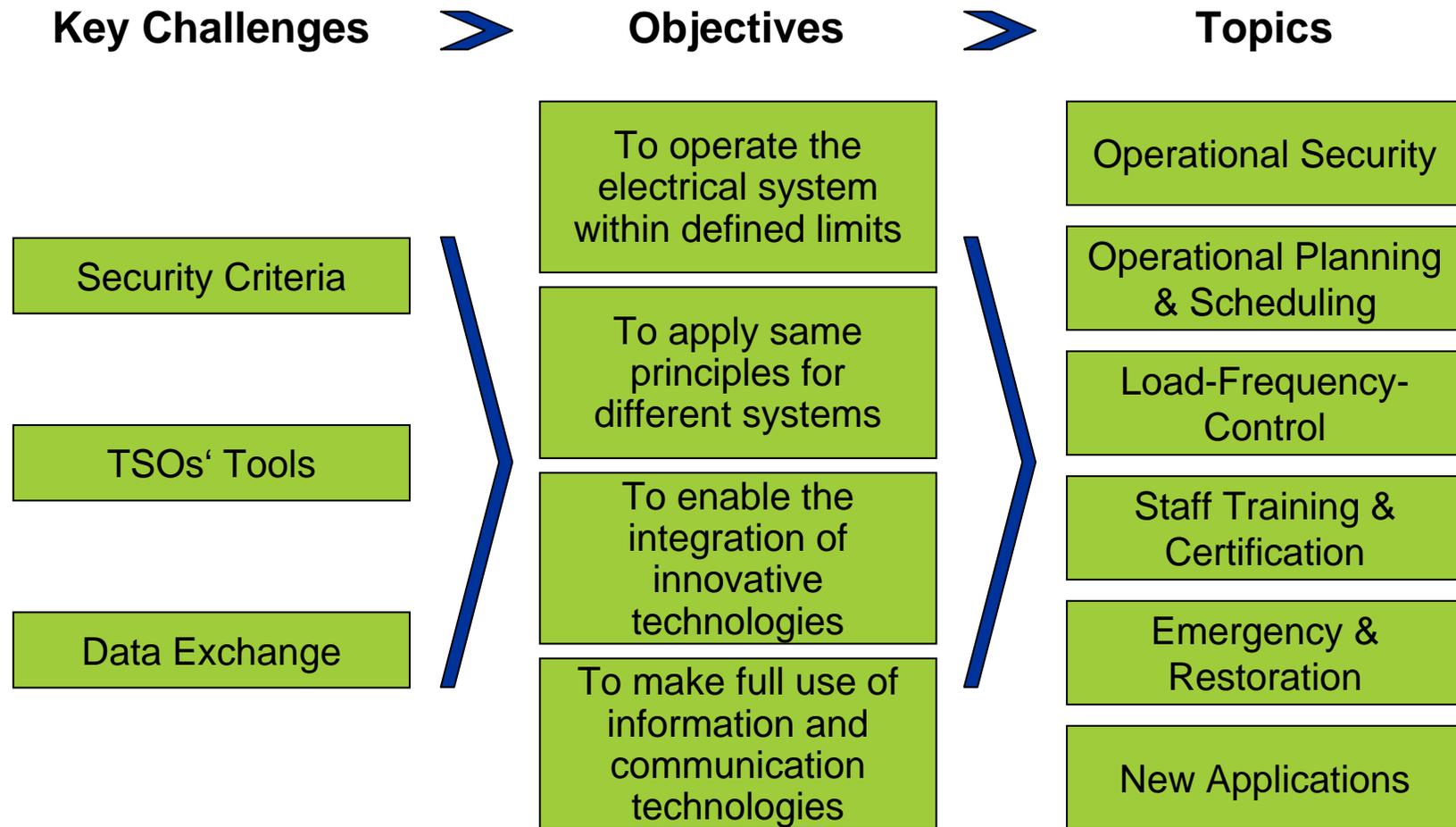
Florence Forum
23-24 May 2011

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● **Background and history**

- Transition period ERGEG → ACER
- (Re-)Scoping process with EC, ACER, ENTSO-E ongoing
- Structural issues (challenges vs. objectives vs. priorities vs. topics) intensely discussed and to a large extent resolved

Potential Structure & Process of the FG



● FG Objectives - Details

Objective #1: To operate the electrical system within defined limits

- Maintain or improve (overall) system safety and security;
- Operate the electrical system in a safe and secure manner within normal – not critical – operation limits including cooperation between TSOs, DSOs and grid users;
- Reduce the number of critical incidents;
- Avoid major incidents;
- Limit the consequences of major incidents when they occur;
- Provide conditions for specific, ongoing human resources development.

Objective #2: To apply same principles for different systems

- Apply same principles, and ensure strict rules within synchronous areas and modified rules across asynchronous systems (e.g. merchant lines);
- Improve alignment of European rules (technical standards) in third countries connected to ENTSO-E systems.

● FG Objectives – Details *(cont'd)*

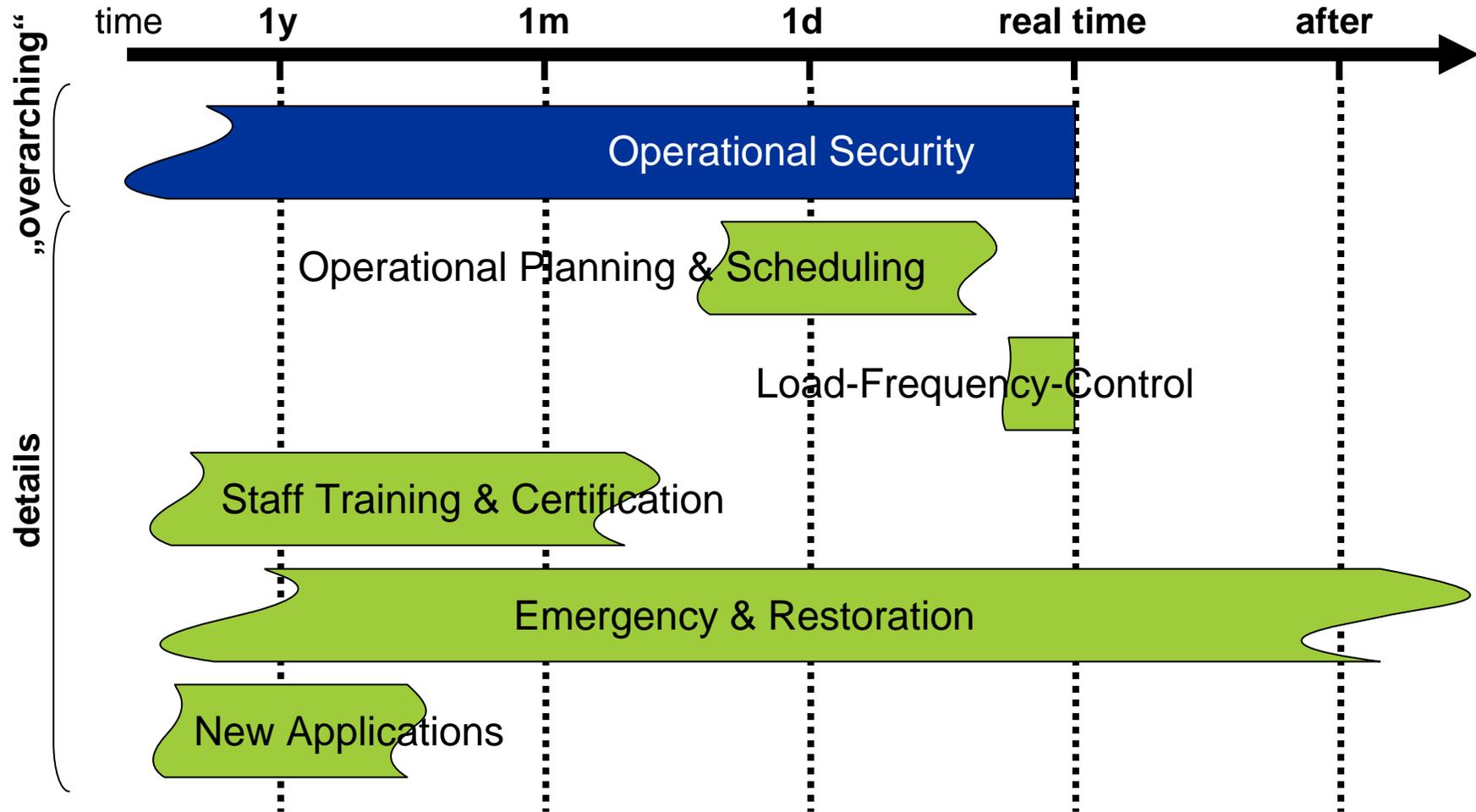
Objective #3: To enable the integration of innovative technologies

- Enable the integration of renewable energy sources, especially regarding intermittent generation;
- Prepare the network for integrating distributed generation;
- Make efficient and effective use of smart grid applications;
- Provide conditions for exploiting the demand-side potential (incl. smart metering);
- Integration of advanced power electronic systems (e.g. FACTS, VSC);
- (Meshed DC-lines concepts).

Objective #4: To make full use of information and communication technologies

- Provide conditions for improved data collection, handling and exchange;
- Provide framework for compatibility of e.g. forecast, simulation and modeling tools;
- Strengthen TSOs and DSOs in terms of auditing and monitoring capabilities and performances of generation units and consumers.

● Timeframe and Scope

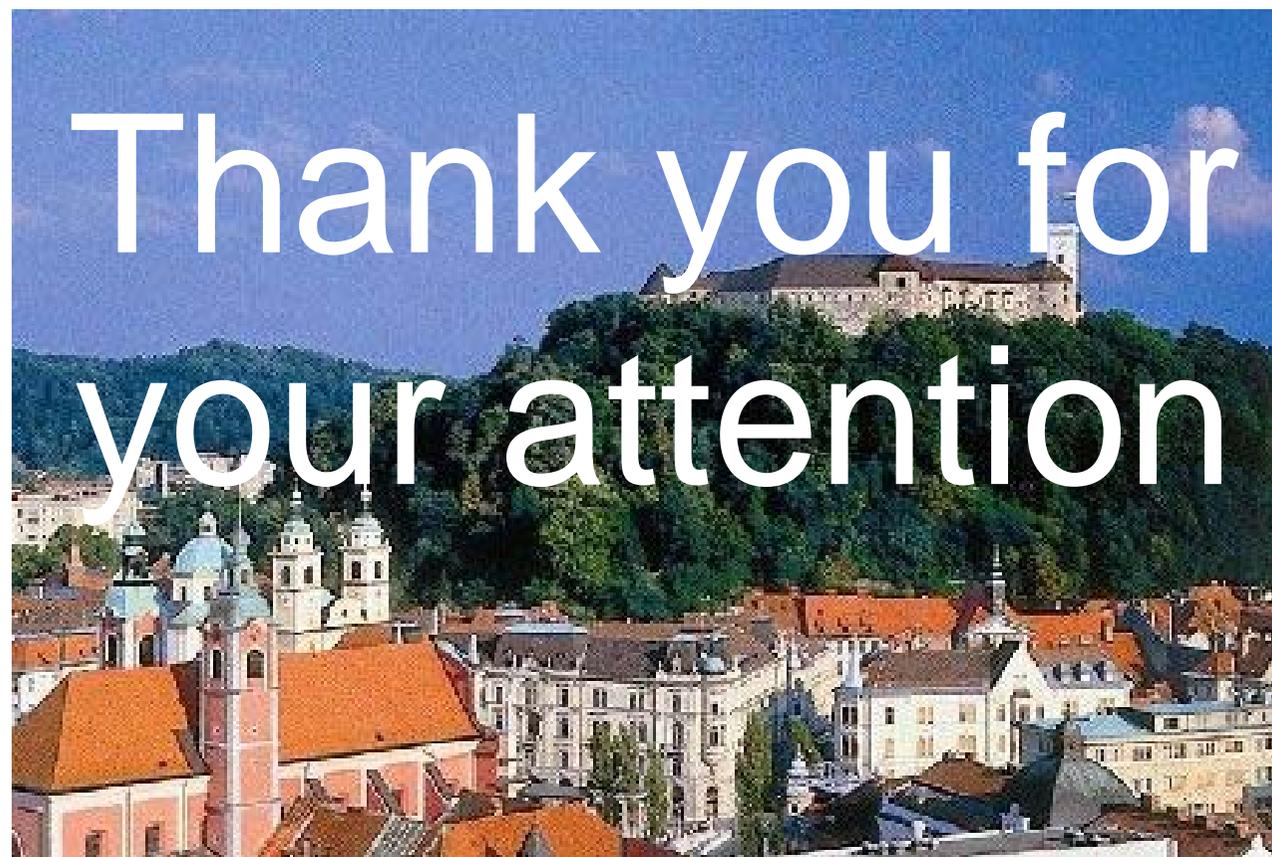


Roadmap

- Reworking the IIA according to the agreed structure
- Finalisation of the FG draft in July 2011
- IIA and FG ready for public consultation in Summer 2011
- Public workshop in Ljubljana on 24 August 2011

● Time plan:

| Guidelines & Codes 2011-2014 | 2011 | | | | 2012 | | | | 2013 | | | | 2014 | | | |
|---------------------------------|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| | Q1 | Q2 | Q3 | Q4 |
| System Operation | | | | | | | | | | | | | | | | |
| Guidelines development | █ | | | | | | | | | | | | | | | |
| Public consultation | █ | | | | | | | | | | | | | | | |
| Guidelines finalization | | | █ | | | | | | | | | | | | | |
| Code development | | | | █ | | | | | | | | | | | | |
| ACER Opinion | | | | | | █ | | | | | | | | | | |
| Comitology | | | | | | | | █ | | █ | | | | | | |



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