

European Pilot Projects on Cross Border Balancing and the draft Implementation Plan

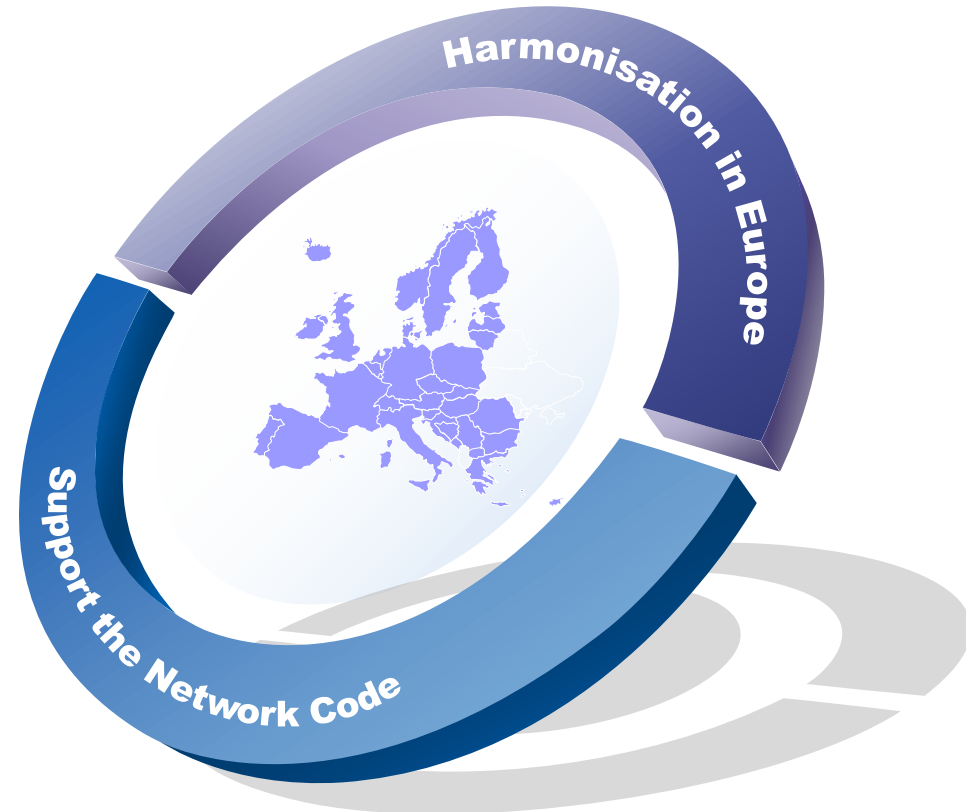
NC EB Public Workshop

23rd Oct 2013

Pilot Projects on European Cross Border Balancing



- I. The aim of the cross border balancing pilot projects**
- II. The pilot projects – contributions to steps of the target model**
- III. Co-ordination, monitoring, and evaluation**
- IV. Implementation of the NC EB and CoBAs**



1. Purpose of the Pilot Projects



To enable learning for Network Code Implementation



To expand and merge when appropriate for cross border harmonisation

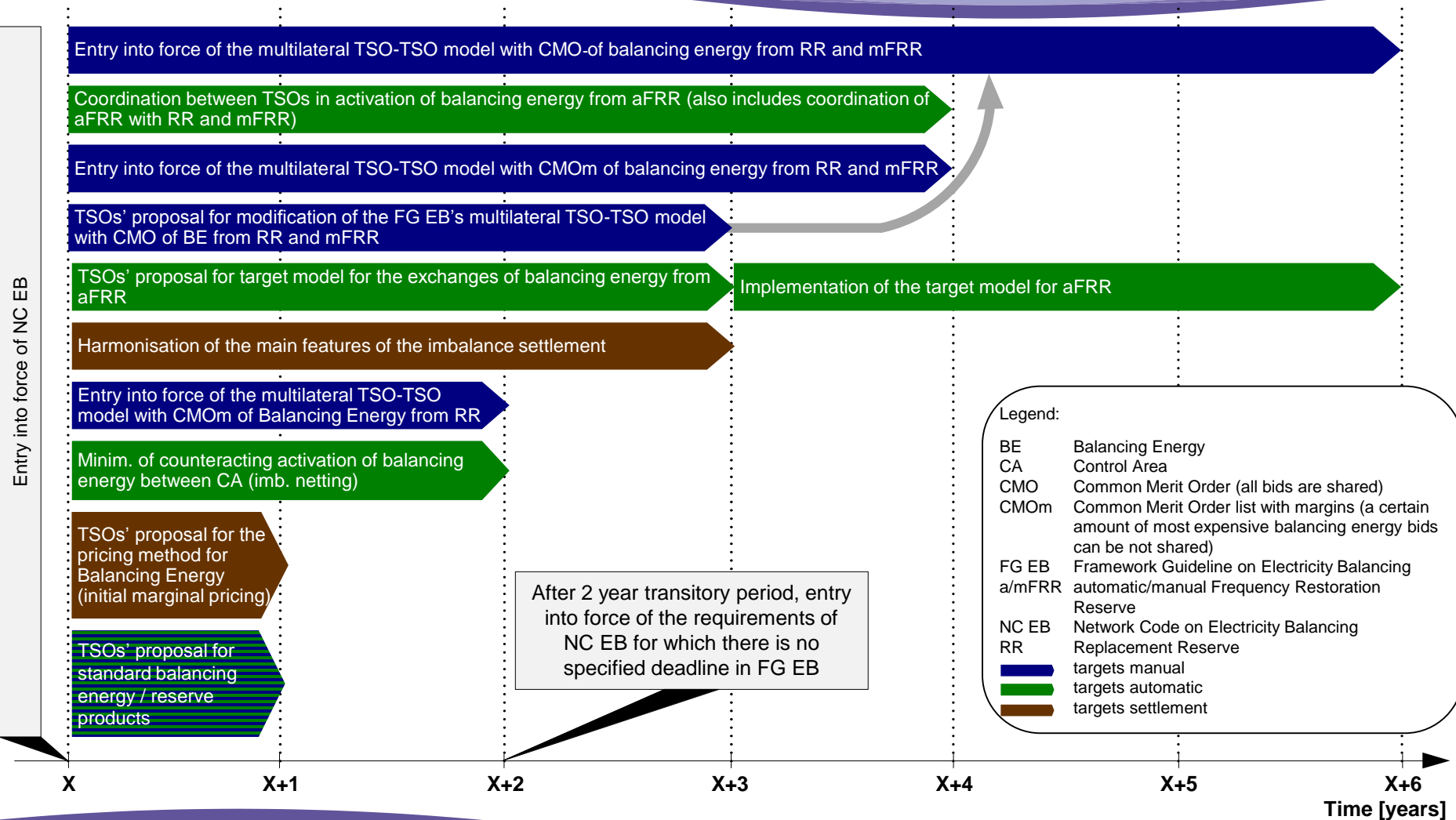


To complement the steps towards the final target model



- **The terms of reference for the pilot projects specify that the scope must be in line with steps of the target model in the ACER Framework Guidelines (FWGL) for electricity balancing.**
- **Nine nominations of voluntary TSO projects received in early 2013.**
- ✓ **All accepted as pilot projects.**
- ☞ **They will be monitored for achieving specific criteria and steps of the FWGL.**

Review of the stepwise approach to the implementation of the Balancing target model (from the ACER Framework Guidelines)

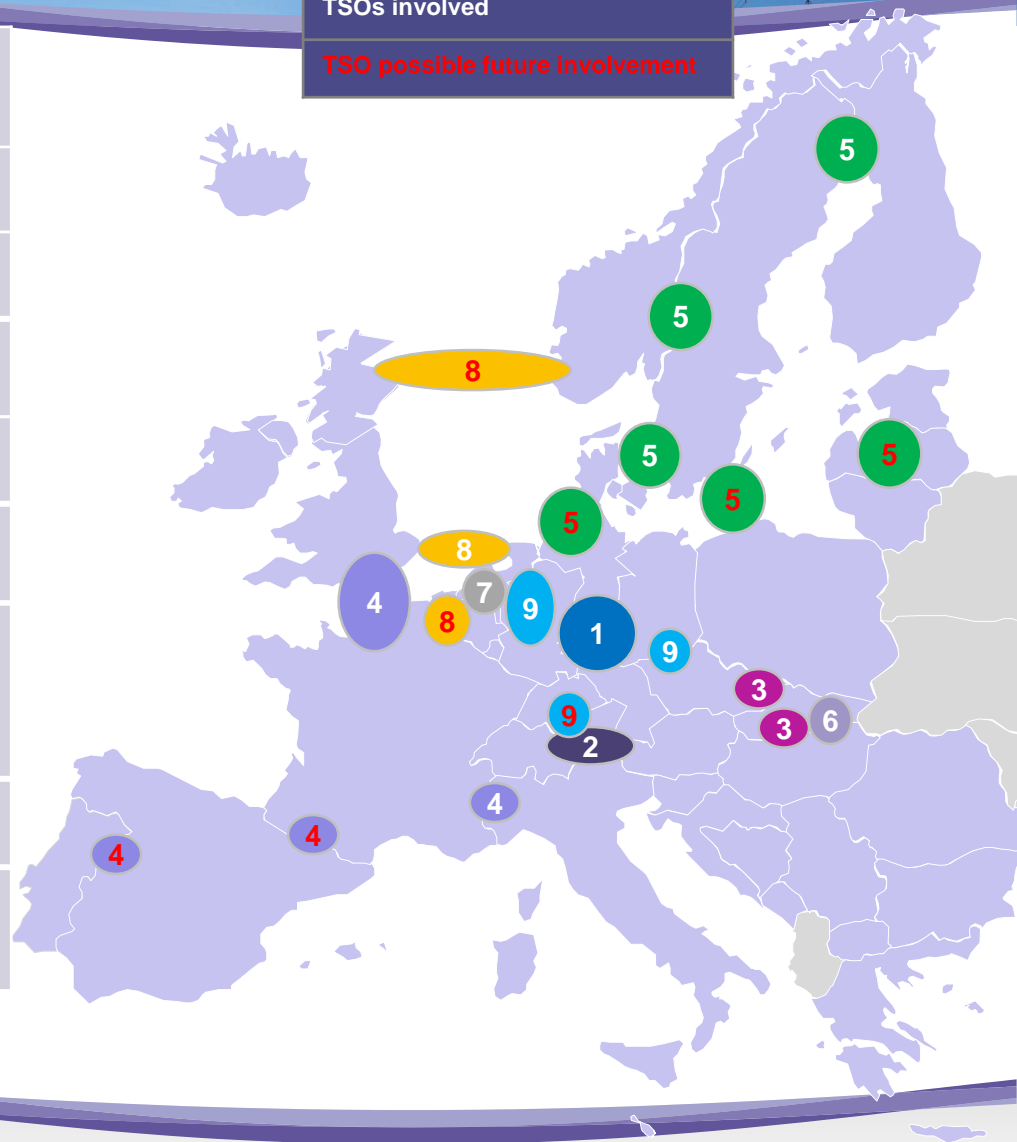


2. The Cross Border Pilot Projects on Electricity Balancing

1	CMOs for mFRR and aFRR with real Time Flow Based congestion management
2	Cross-border market for FCR based on TSO-TSO model
3	E-GCC
4	TERRE: Trans-European Replacement Reserves Exchange
5	Development of the Nordic RPM
6	Cross-border balancing market (between SEPS and MAVIR)
7	Design and evaluation of a harmonised reactive balancing market with XB optimisation of Frequency Restoration while keeping control areas, bid zones, and Regulatory oversight
8	BritNed / TenneT / National Grid Balancing Services
9	IGCC Imbalance Netting, aFRR-Assistance and Flow-Based Congestion Management.

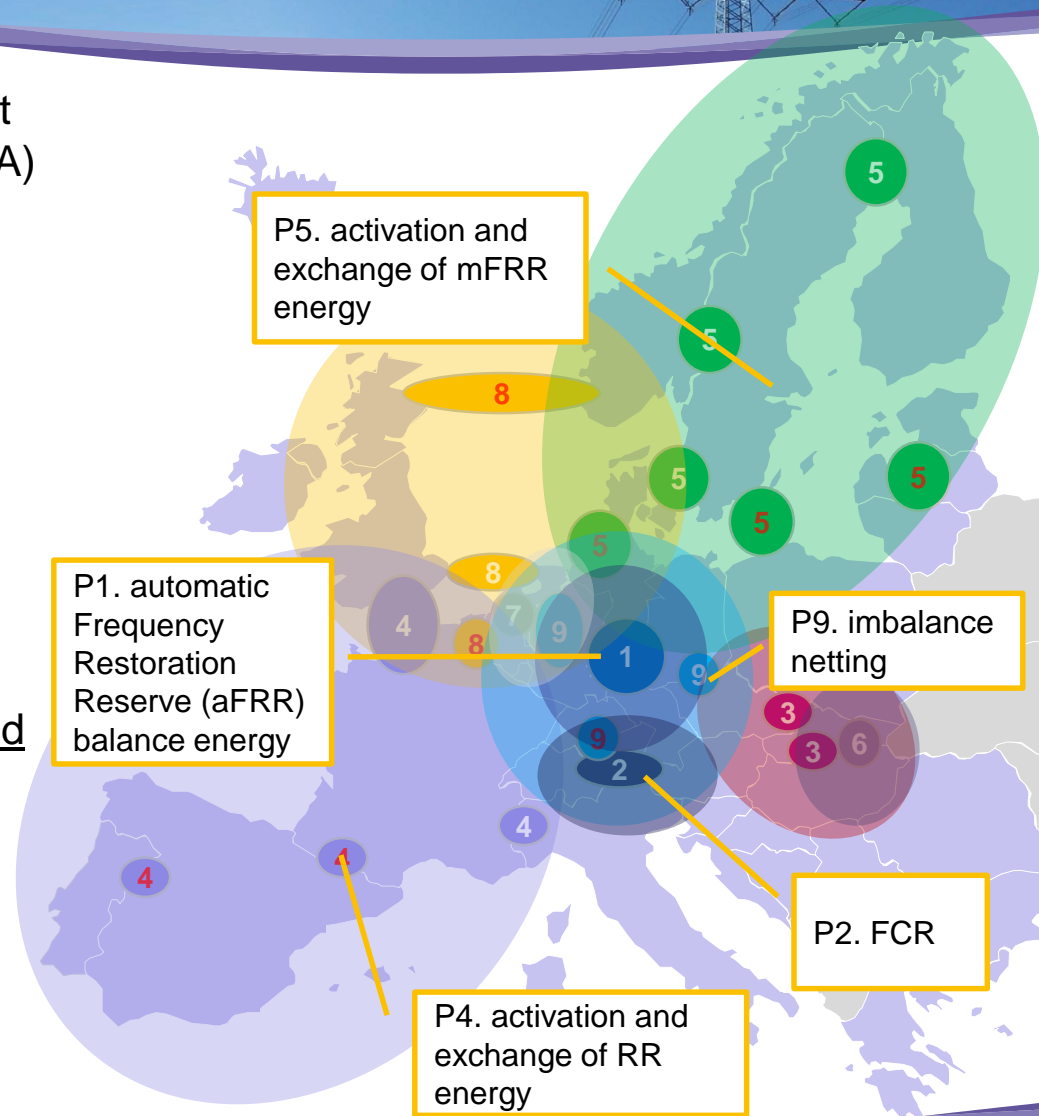
TSOs involved

TSO possible future involvement



How can the pilot projects contribute to the Implementation of CoBAs?

- The draft NC EB introduces the concept of a Co-ordinated Balancing Area (CoBA) as a method to reach the final target model through EU harmonisation.
- Each project can cover a different element of the steps towards the final target model.
- The pilot projects could be seen as the first step to identify such CoBAs.
- ✓ Experience gained in each project, could provide a reference when creating or merging with other CoBAs.





Co-ordination

- Project responsibility lies with the TSOs that participate in each pilot project.
- Inter-project co-ordination by ENTSO-E - Regular meetings with the project leaders to identify progress, potential issues and possible future expansion.(Initial meeting on 7 November).

Monitoring and Evaluation

- Reporting required every 2 months from the launch of each project.
- ENTSO-E to monitor the projects on an ongoing basis and to provide a regular summary of progress (for example to AESAG). Potential expansion and merging of projects will be promoted.

Common goals of the projects

1. To successfully implement steps of the target model according to the NC EB, ahead of the timelines specified in the NC
2. Identify the creation of future 'CoBAs' and possible merging with other pilots.
3. Identify risks to the implementation of the NC EB and resolve at an early stage
4. Promote the implementation of a pan-European balancing market
5. Improve market liquidity and competition

4. Implementation of the NC EB and CoBAs



Idea: Create a high-level implementation plan

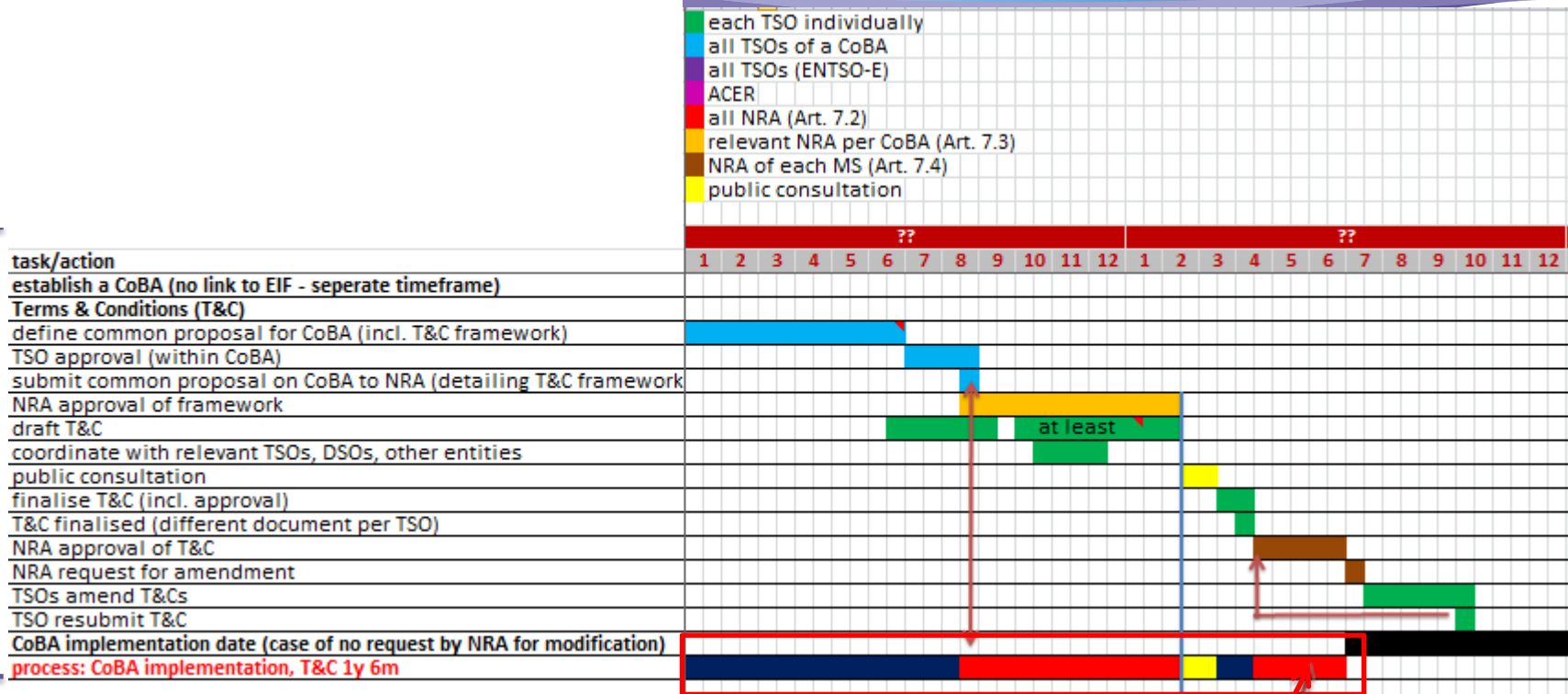
- starting from the explicitly defined deadlines in the draft NC, (e.g. implementation of the target model after 6 y), in addition:
- consider all other stipulated tasks (e.g.: CoBA implementation process, algorithm development)
- estimate their duration
- highlight the dependencies of the individual steps (step 2 can only start the moment step 1 is finalised)

Result:

- Timely visualisation of all necessary steps in order to fulfil the prescribed way to the target model
- Overview of when these individual steps need to be launched

Example: CoBA implementation process

Relative planning



This „high-level bar“ is the result of the relative planning and used in the absolute planning several times to illustrate the implementation process of a CoBA (at different points in time on the way to the target model)

Thank you for your attention!

<https://www.entsoe.eu/major-projects/network-code-development/electricity-balancing/>