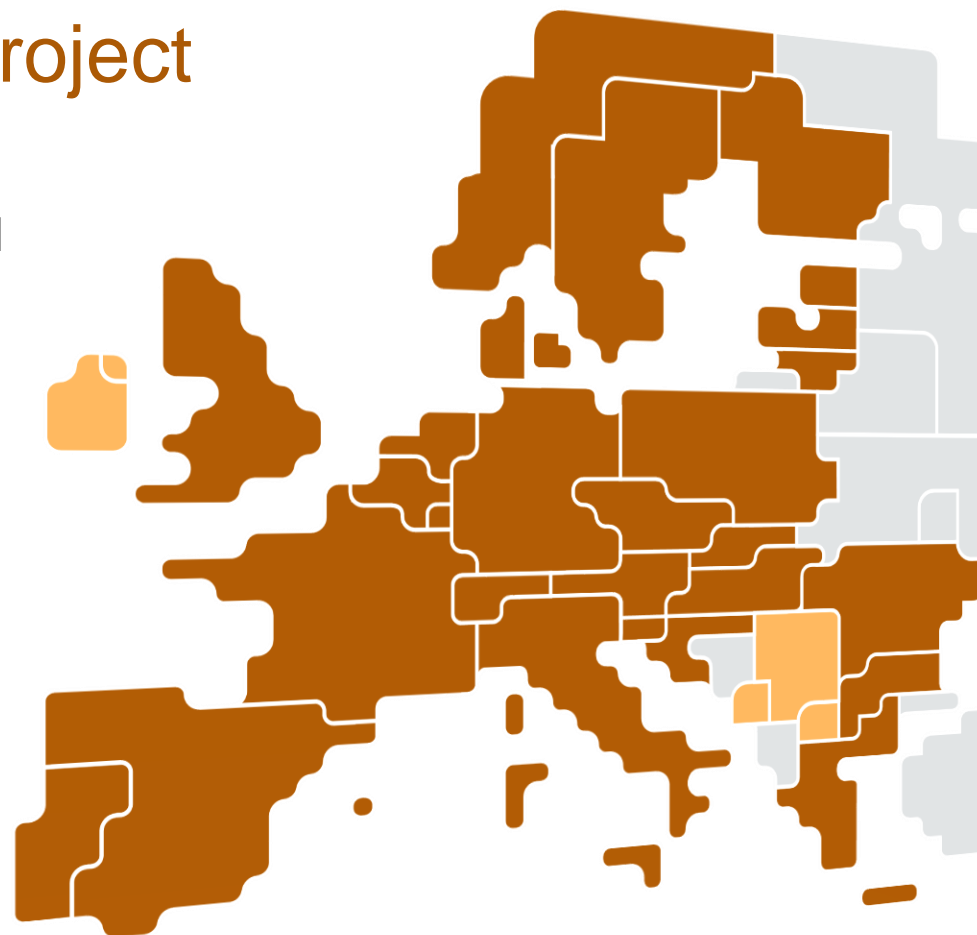




# Capacity Management Implementation project

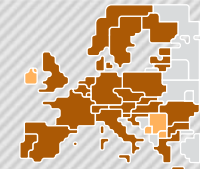
Electricity Balancing

EBSG meeting, 21 April 2021



# 1. CM Implementation project

## Project organisation



### The context

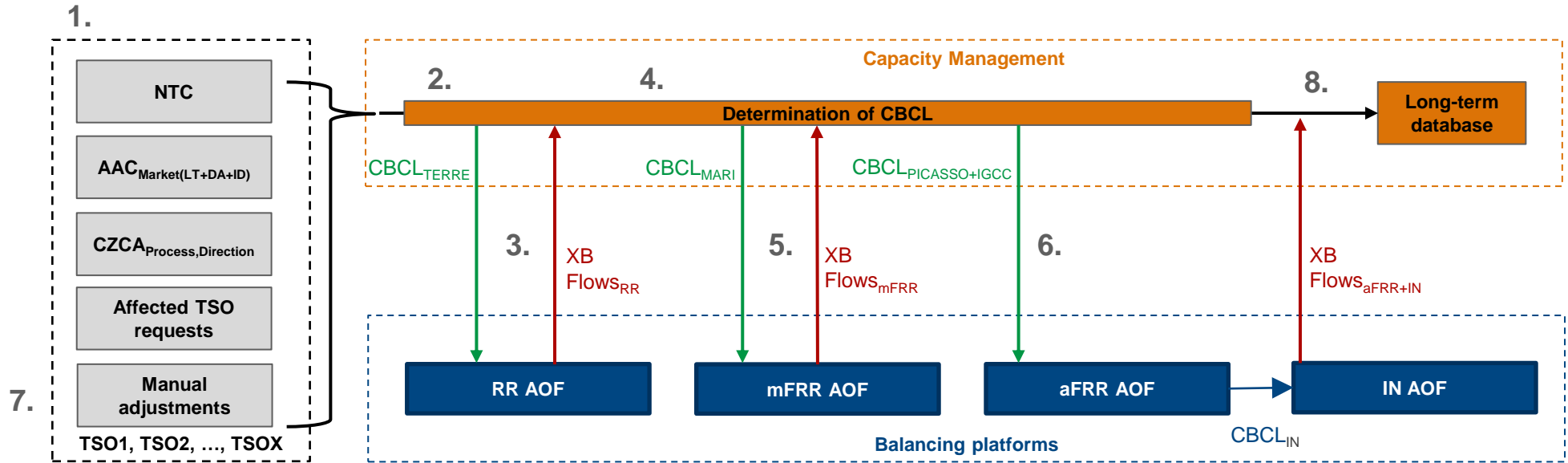
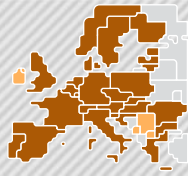
- 4 European Balancing platforms implementation projects (TERRE, MARI, PICASSO, IGCC)
- All platforms require correct available cross-border capacity limits (CBCL) in order to optimize the exchanges of balancing energy
- It is the responsibility of the TSOs of the respective border to manage the capacities while respecting the operational security limits. The capacity management shall be conducted:
  - by joint Capacity Management go-live by each TSO and per each Balancing platform;
  - after the Capacity Management go-live (mid-2023 at the latest), in a joint way. Pre-go live solution will be kept in place as a fallback in case of the common solution outage.

### The work streams

	Milestone	Past and Future Milestones	Status	Explanation
Legal Agreements	17/02/2021 05/2021	<ul style="list-style-type: none"><li>• TSOs approve contractual framework</li><li>• EIF TSO agreement, all signatures received</li></ul>	<ul style="list-style-type: none"><li>• Closed</li><li>• In progress</li></ul>	TSOs have based the contractual framework on the already existing contractual framework of Balancing platforms.
Technical specification	17/02/2021 TBD	<ul style="list-style-type: none"><li>• Specify all detailed functions of capacity management</li><li>• Change Request Management</li></ul>	<ul style="list-style-type: none"><li>• Closed</li><li>• In progress</li></ul>	TSOs delivered the Requirements catalogue. TSOs to deliver the Change Request Management procedure.
Implementation Guide	Q3/2021	<ul style="list-style-type: none"><li>• Draft version of the Implementation Guide</li></ul>	<ul style="list-style-type: none"><li>• Open</li></ul>	TSOs to draft the initial version of the Implementation Guide
Operational Handbook	Q3/2021	<ul style="list-style-type: none"><li>• Draft version of the Operational Handbook</li></ul>	<ul style="list-style-type: none"><li>• Open</li></ul>	TSOs to draft the initial version of the Operational Handbook

### 3. Q&A

#### High level design

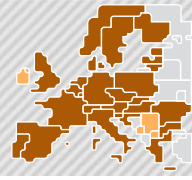


#### The process

1. TSO submits the transmission capacity data after the Intraday market to the CM.
2. Capacity management determines the cross-border capacity limits (CBCL) after Intraday.
3. Capacity management distributes the CBCLs on relevant borders to RR Platform; CM receives XB flows from RR Platform.
4. Capacity management determines the remaining CBCLs for the subsequent Balancing processes.
5. Capacity management distributes and determines the CZCLs according to steps 3. and 4. for mFRR Platform.
6. Capacity management distributes and determines the CZCLs according to step 3. for aFRR/IN Platform.
7. Capacity management facilitates adjustment of the CZCLs by the individual TSO in various operational situations (Affected TSO Procedure).
8. Capacity management stores the capacity data.

### 3. Q&A

#### TSO, BP and CM Interfaces



#	Interaction with	Description	File format	Data Network	Protocol	Remark
1.	TSO	<ul style="list-style-type: none"> <li>NTC, AAC, CZCA</li> </ul>	Document	Internet	ECP/EDX, Web-services	
1., 7.	TSO	<ul style="list-style-type: none"> <li>Change of NTC</li> <li>Affected TSO procedure requests</li> </ul>	Document	Internet	ECP/EDX, Web-services	
3.	RR Platform	<ul style="list-style-type: none"> <li>CZCLs</li> <li>XB flows</li> </ul>	Document	Internet	ECP/EDX, Web-services	Aligned with TERRE
5.	mFRR Platform	<ul style="list-style-type: none"> <li>CZCLs</li> <li>XB flows</li> </ul>	Document	Internet	ECP/EDX, Web-services	Aligned with MARI
6.	aFRR/IN Platform	<ul style="list-style-type: none"> <li>CZCLs</li> </ul>	Signal (various)	Direct communication lines towards aFRR Platform	IEC 101, IEC 104	Aligned with PICASSO and IGCC
6.	aFRR/IN Platform	<ul style="list-style-type: none"> <li>XB flows</li> </ul>	Document	Internet	ECP/EDX, Web-services	