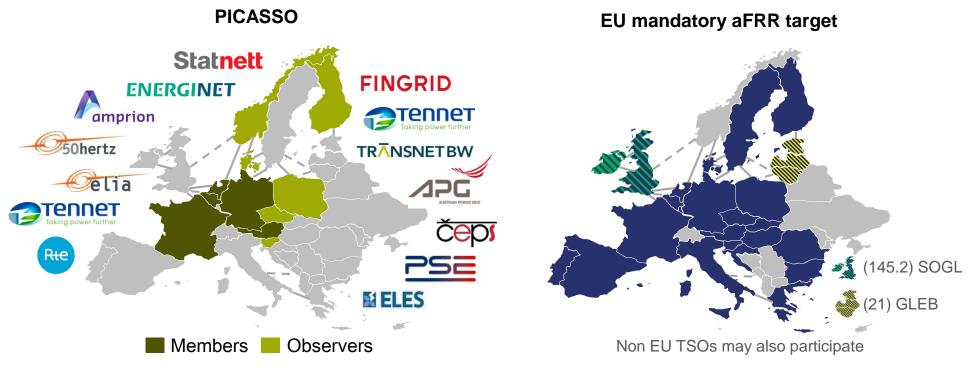




Project description

- The TSOs of Austria, Belgium, France, Germany and the Netherlands agreed to initiate a project on the design, implementation and operation of an aFRR Platform.
- These TSOs intend to apply as reference project for aFRR within ENTSO-E.
- The project name PICASSO stands for "Platform for the International Coordination of the Automatic frequency restoration process and Stable System Operation".



Objective & Principles



Objective

- Design, implement and operate an aFRR platform compliant with the approved versions of GLEB, GLSO, CACM as well as other regulations.
- Enhancing economic and technical efficiency within the limits of system security.
- Integrating the European aFRR markets while respecting the TSO-TSO model.

Principles

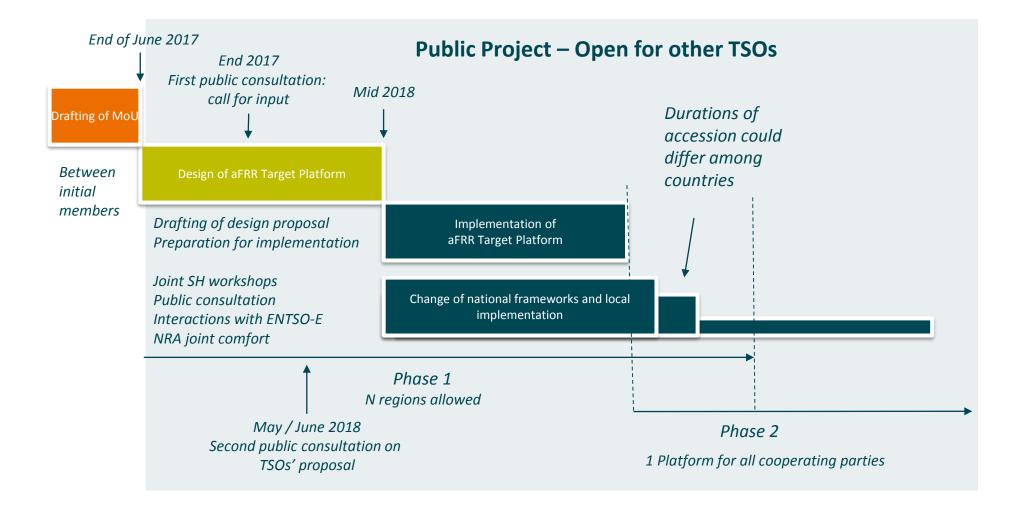
- Intermediate versions of the platform are supported by all members in order to more efficiently reach the final target.
- Close coordination with the ENTSO-E PT aFRR is intended and required.
- Conclusions from the EXPLORE study for the design of the aFRR platform form the starting points for the framework of the target model.
- TSOs are welcomed to apply for an entry into the project.







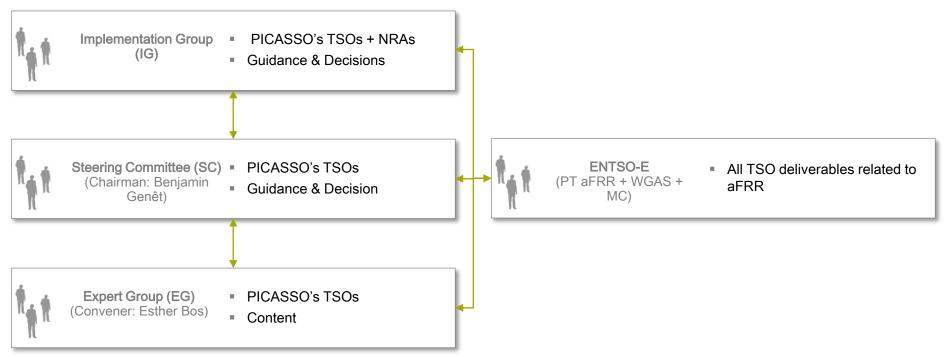
Intended timeline



Internal organization



Structure



Implementation Group (IG)

- PICASSO's TSOs + NRAs
- Facilitate joint NRA involvement and decisions

Steering Committee (SC)

- 1-2 representatives per party
- Guidance & Decisions
- Binding decisions with regard to the application of this MoU
- Chair: Benjamin Genêt (Elia)

Expert Group (EG)

- ≥ 1 representative per party
- Makes proposals to the SC for design, organization and external communication
- Convener: Esther Bos (TTN)

Becoming a member



Other TSOs can apply as observer of the project and subsequently become a member:

	Observer	Member	Exit
When?	Any time	After three months of being an observer	Any time
How?	Motivated request to SC Chair	Motivated request to SC Chair	Written notification to SC
Approval	SC SC		
Cost sharing	None	Cost sharing as defined in MoU	Cost sharing until submission of notification
Decision making power	None	Full	
Access to meetings and documents	Access to all documents and documents and EG meetings		
Documents to be signed	NDA	MoU	

Technical aspects in MoU



	Phase 1: Intermediate Versions Phase 2: aFRR Target Platform	MoU	
Ń	Bid resolution	Phase 1 – any Phase 2 – 15 minutes	
Balancing Energy GCT (BEGCT) Voluntary (non-contracted) bids Maximum FAT		Phase 1 – different BEGCTs with limited differences Phase 2 – one single BEGCT <= 1hour	
		Phase 1 – allowed Phase 2 – obligatory	
		Phase 1 – for each cooperation – one single FAT ≦ 15min Phase 2 – one single FAT = [with focus on 5 minutes and 7.5 minutes] – decision at EU level	
G	TSO-BSP signal	Phase 1 – no harmonisation required Phase 2 – ramping allowed if incentive to react faster	
& ent	Balancing Energy Pricing scheme	Phase 1 – for each cooperation – one single market based method Phase 2 – XB Marginal Pricing	
Pricing & Settlement	TSO-TSO Settlement	Phase 1 – For each cooperation – a settlement which ensures that no country looses may be requested Phase 2 – Proportional cost sharing with congestion rent in case of a congestion	
_ S	Imbalance pricing	Phase 1 & 2 – no prerequisite on harmonisation	
Technical	TSO-TSO exchange	Phase 1 – Any control exchange can be implemented Phase 2 - Control demand with additional FRCE correction process	

Required harmonisation for appropriate level playing field is pursued in parallel with NRAs & Stakeholders.

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