

Use case

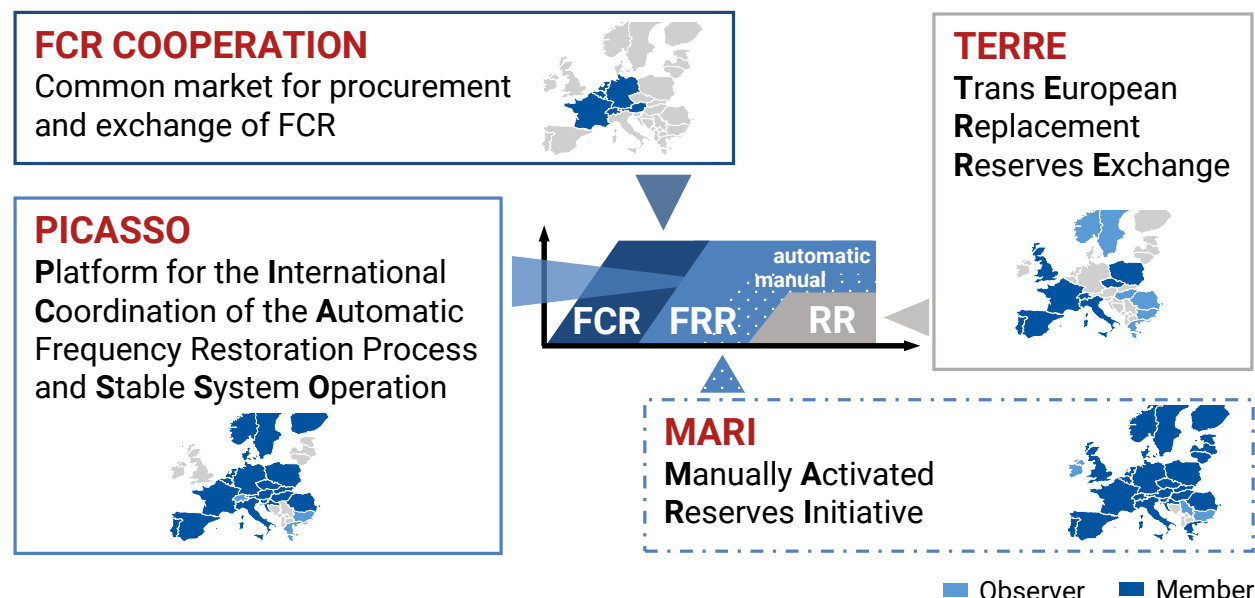
Integrated European Balancing Markets

NEED FOR HARMONIZATION AND INTEGRATION?

EU Regulation 2017/1485 defines standardized balancing products for Transmission System Operators.

- I. Frequency Containment Reserve (FCR)
- II. Frequency Restoration Reserve (FRR)
- III. Replacement Reserve (RR)

This enables cross-border Reserve Exchange. Thereby, allocations can be more efficient, leading to total social welfare gains.



MODELING POSSIBILITIES?

Maon can co-optimize spot markets as well as the provision of symmetric FCR, positive aFRR, negative aFRR, positive mFRR, negative mFRR and Reserve Exchanges. Based on market results unit-by-unit analysis can be carried out focusing on reserve coverage, market side-effects or social welfare gains in Europe.