



**Session 4: SORs and RCCs – Practical insights to the functioning of the Central SOR**  
**Vienna, 6<sup>th</sup> of July 2023**  
**Luca Ortolano - Central SOR JMB Chairman**

# Central SOR

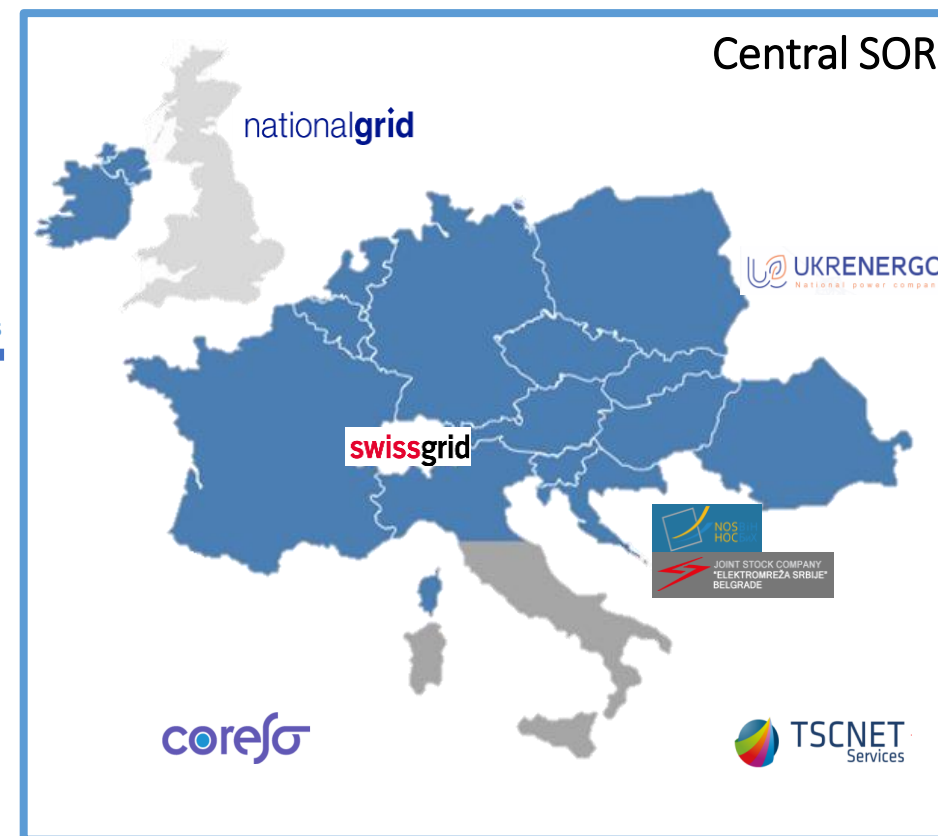


# Central SOR: context

The goal of the System Operation Regions (SORs) is to monitor the transition of Regional Security Centers (RSCs) into Regional Coordination Centers (RCCs), verifying that the tasks defined in the Clean Energy Package (CEP) are being targeted correctly.

EU Reg. 2019/943 Service	Applicable Region
a) Capacity Calculation	CCR
b) Coordinated Security Analysis	CCR
c) CGM	Pan-European
d) Defence & Restoration Plans consistency	Pan-European
e) Short-Term Adequacy	Pan-European/Regional
f) Regional Outage Planning	Pan-European/Regional
g) Training	RCC
h) Supporting Restoration	Pan-European (?)
i) Post Disturbance Analysis	Pan-European
j) Sizing of Reserve Capacity	SOR
k) Procurement of Balancing Capacity (Facilitation)	SOR
l) Supporting Inter-TSO-Settlement	SOR
m) Crisis Scenarios (*)	Pan-European
n) Seasonal Adequacy (*)	Pan-European
o) Maximum Entry Capacity	SOR / applicable TSOs
p) Needs for new infrastructure	Pan-European

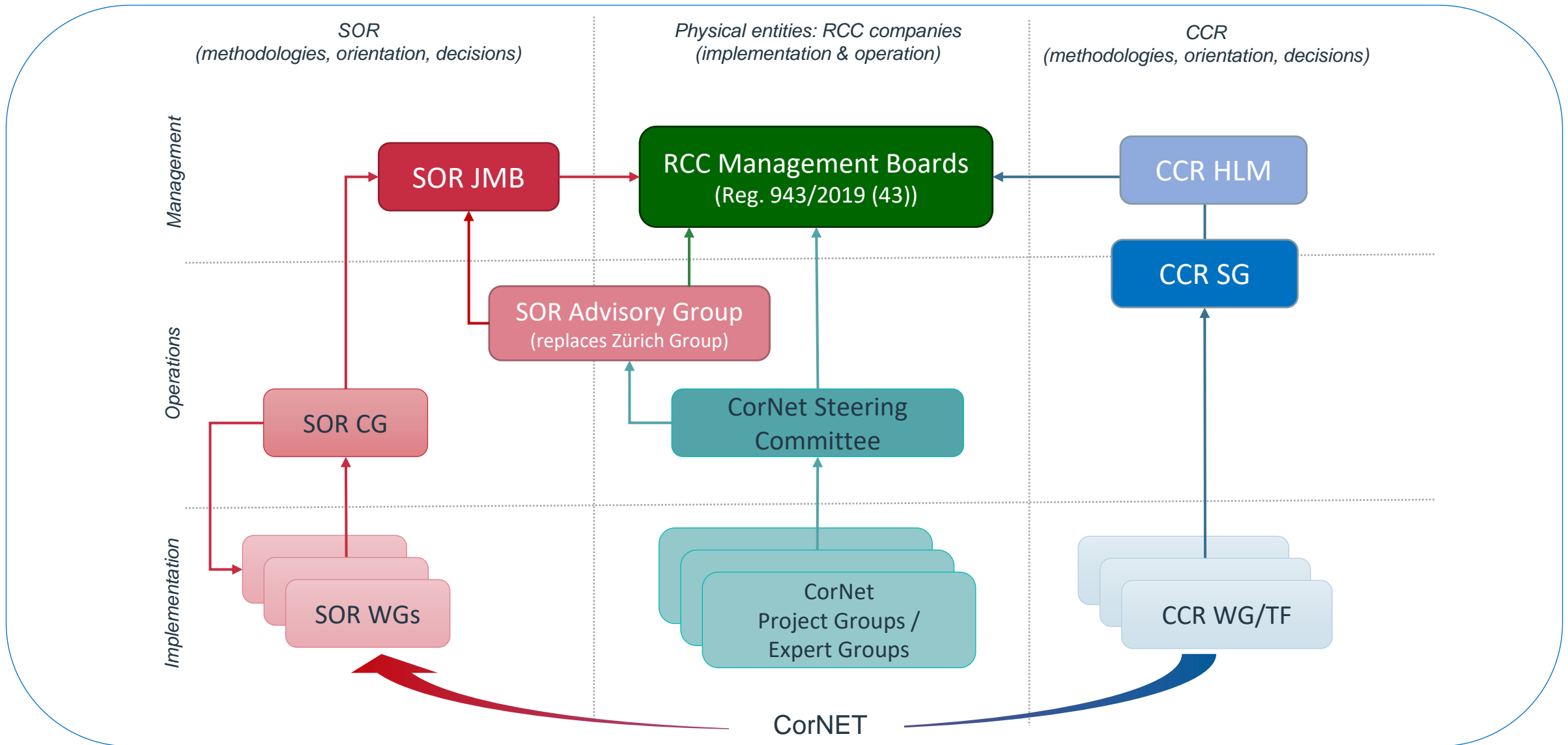
new services / tasks



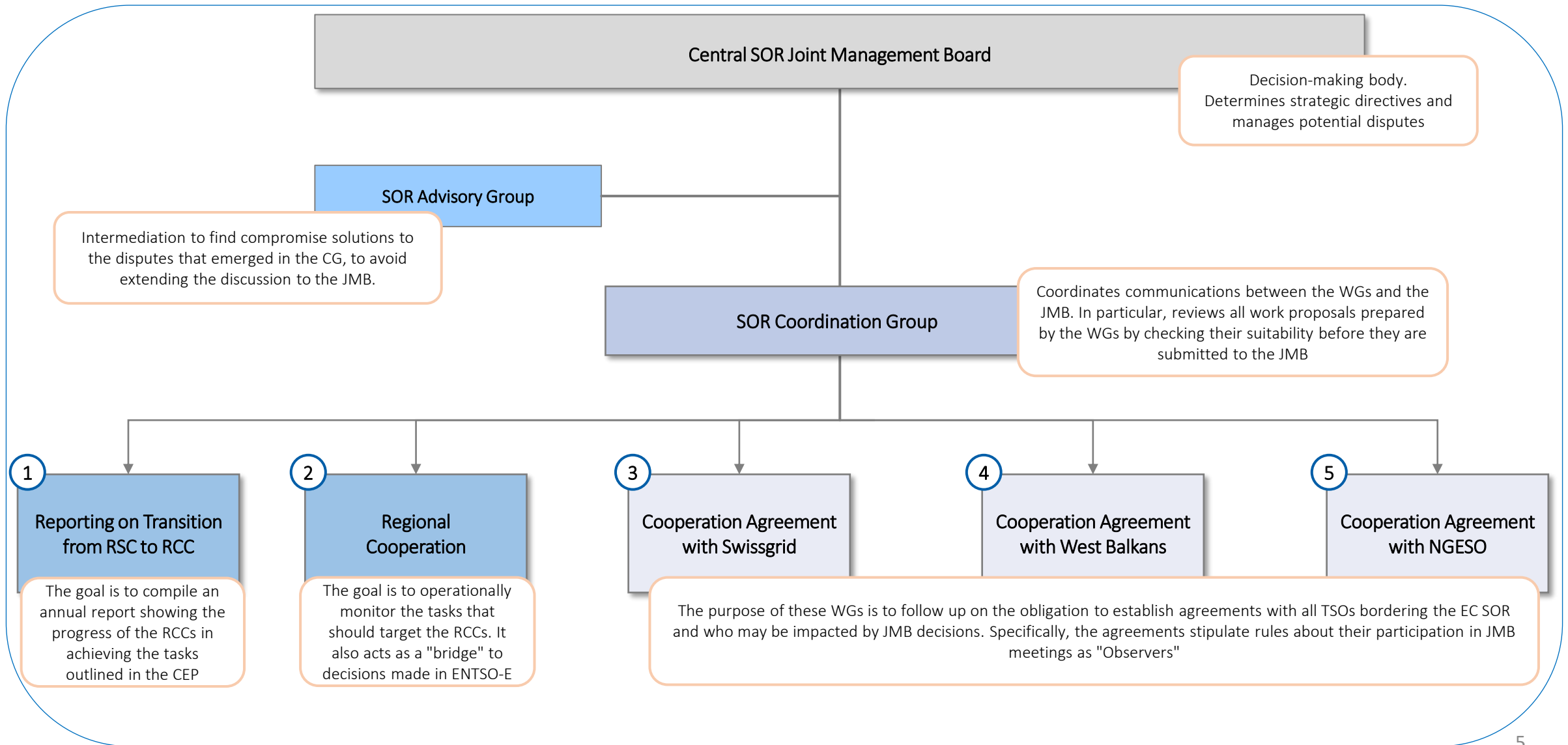
Belonging to C-SOR
  Not belonging to C-SOR
  Not belonging to C-SOR

(\*) = at request of TSOs, currently not requested

# Central SOR: SOR framing in the international context

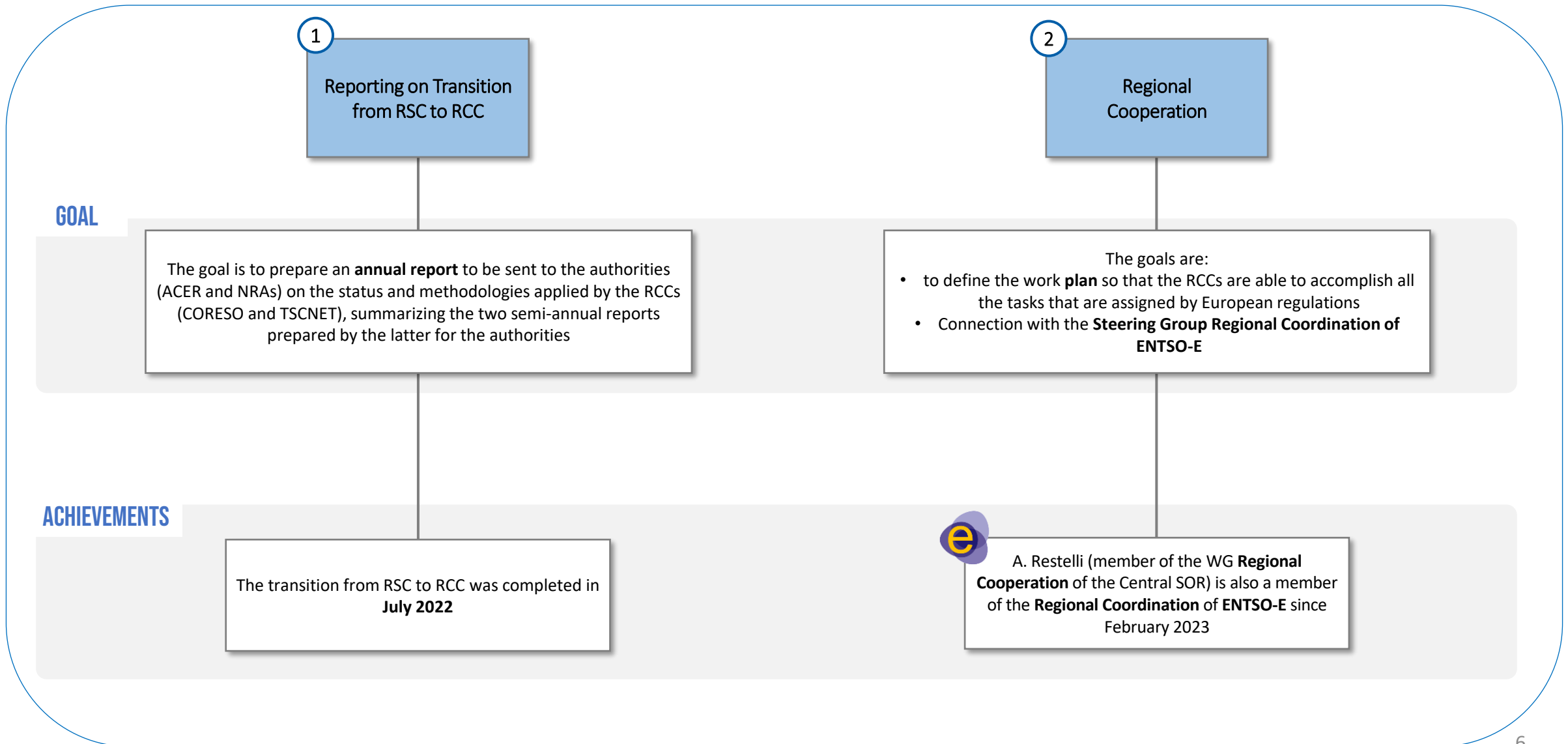


# Central SOR: Governance

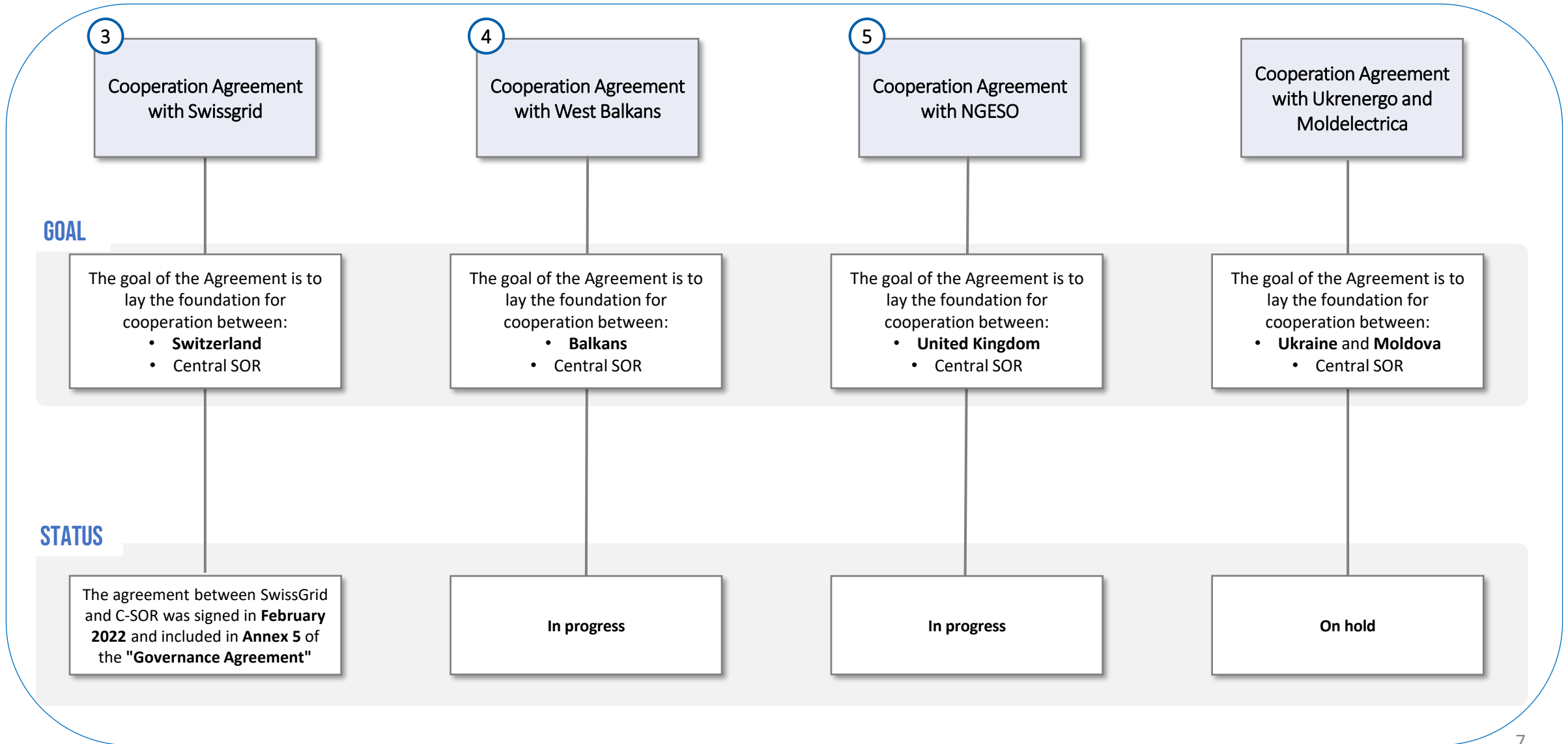


WG= Working Groups

# Central SOR: Governance



# Central SOR: Governance



Back-up



# Central SOR: Tasks that RCCs must accomplish required by the CEP

## Art. 37 Comma 1 Regional (EU) 2019/943

- a) **Coordinated capacity calculation**, according to the methodologies developed in accordance with the guidance on capacity allocation and congestion management adopted on the basis of Article 18(5) of Regulation (EC) No. 714/2009;
- b) **coordinated security analysis**, according to the methodologies developed in accordance with the guidance on system management adopted on the basis of Article 18(5) of Regulation (EC) No. 714/2009;
- c) **creation of common network models**, according to the methodologies and procedures developed in accordance with the guidance on system management adopted on the basis of Article 18(5) of Regulation (EC) No. 714/2009;
- d) **support for the assessment of the consistency of defense plans** and recovery plans of transmission system operators, in accordance with the procedure established in the network code on emergency and recovery adopted on the basis of Article 6(11) of Regulation (EC) No. 714/2009;
- e) **regional forecasting of system adequacy** at one week and up to at least the day-ahead horizon and preparation of risk mitigation actions, in accordance with the methodology set out in Article 8 of Regulation (EU) 2019/941 and the procedures set out in the guidance on system management adopted on the basis of Article 18(5) of Regulation (EC) No. 714/2009;
- f) **regional coordination of unavailability planning in accordance** with the procedures and methodologies set out in the guidance on system management adopted on the basis of Article 18(5) of Regulation (EC) No. 714/2009;
- g) **training and certification of staff working** for regional coordination centers;
- h) **support for coordination and optimization of regional restoration** as requested by transmission system operators;
- i) **implementation of post-management and post-disruption analysis and reporting**;
- j) **regional sizing of reserve capacity**;
- k) **facilitation of regional procurement** of balancing capacity;
- l) **support to transmission system operators**, at their request, in optimizing transactions involving more than two transmission system operators;
- m) **tasks related to the identification of regional electricity crisis scenarios** if and to the extent that they are delegated to regional coordination centers in accordance with Article 6(1) of Regulation (EU) 2019/941
- n) **tasks related to the identification of seasonal adequacy assessments** if and to the extent that they are delegated to regional coordination centers pursuant to Article 9(2) of Regulation (EU) 2019/941;
- o) **calculation of the value of the maximum incoming capacity available** for foreign capacity participation in capacity mechanisms in order to make a recommendation under Article 26(7);
- p) **tasks related to the support of transmission system operators** in identifying the needs for new transmission capacity, upgrading of existing transmission capacity, or their alternatives, to be submitted to the regional groups established under Regulation (EU) No. 347/2013 and included in the 10-year network development plan referred to in Article 51 of Directive (EU) 2019/944.