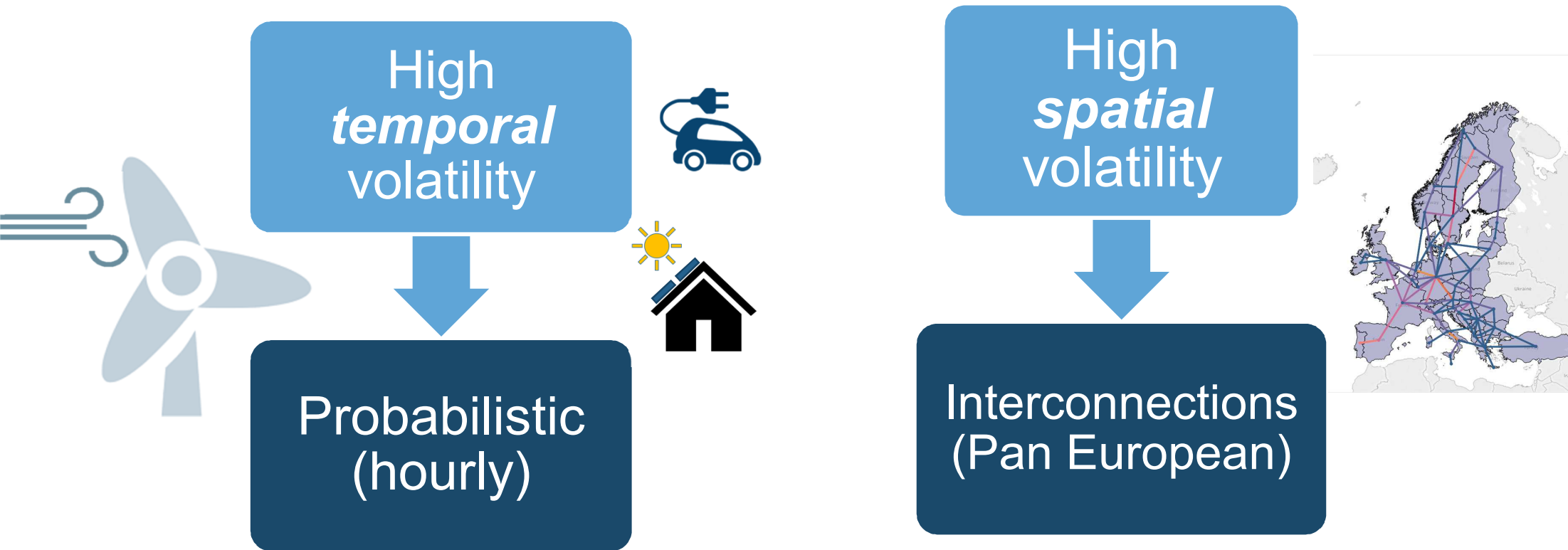


Resource Adequacy Assessments

EnC, 14 May 2019

Energy transition requires a robust methodology



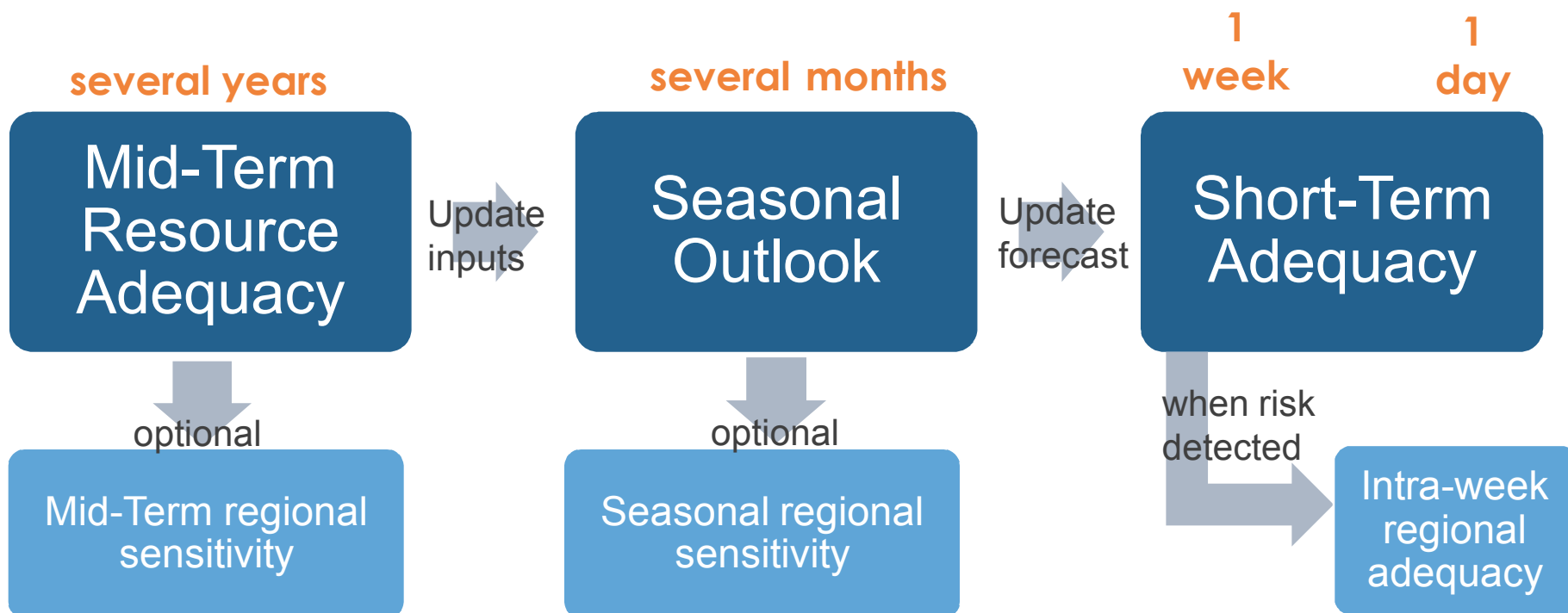
Need to reflect accurately the complementarities of the different technologies (generation capacity flexibility, storage, demand response, energy efficiency)

Resource Adequacy: Temporal and Spatial Granularity

Pan European

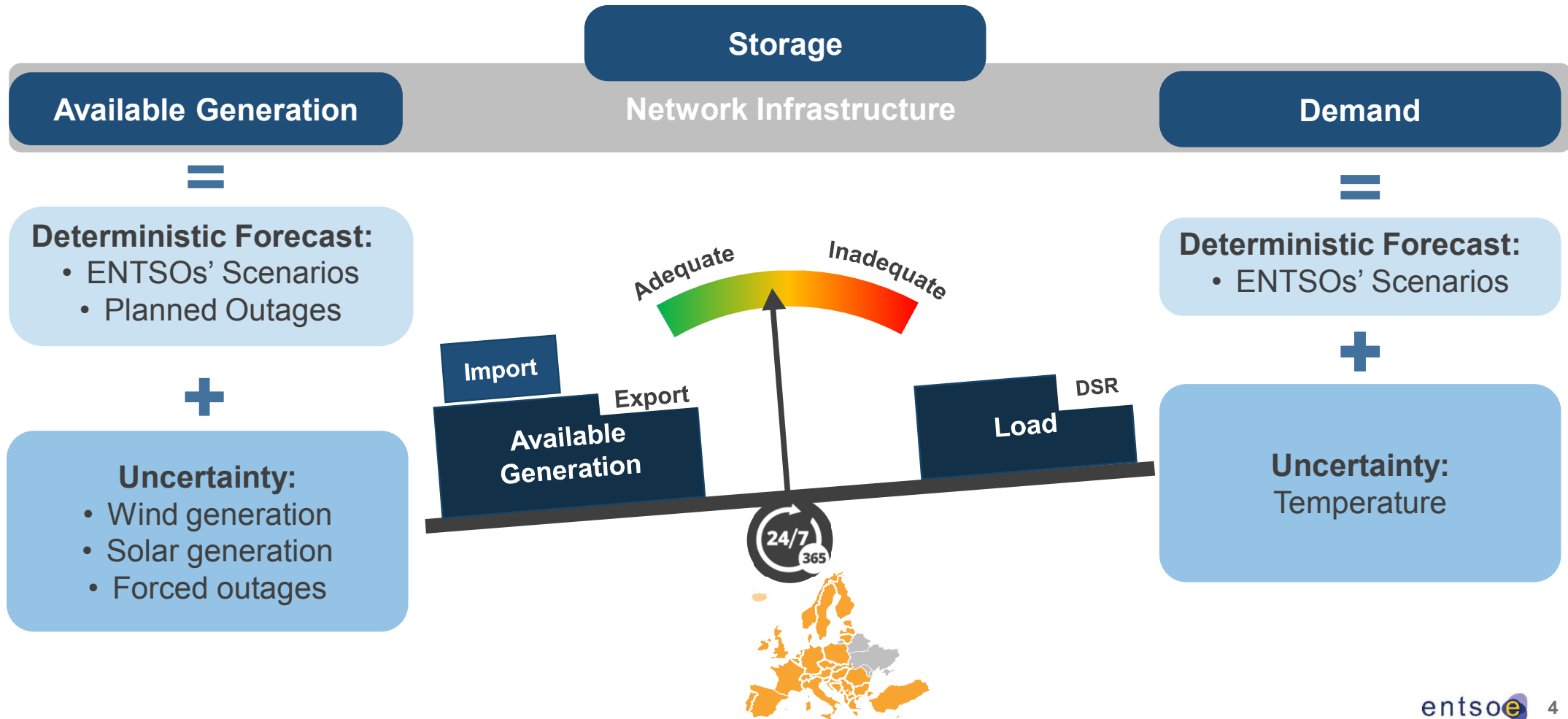


Regional*

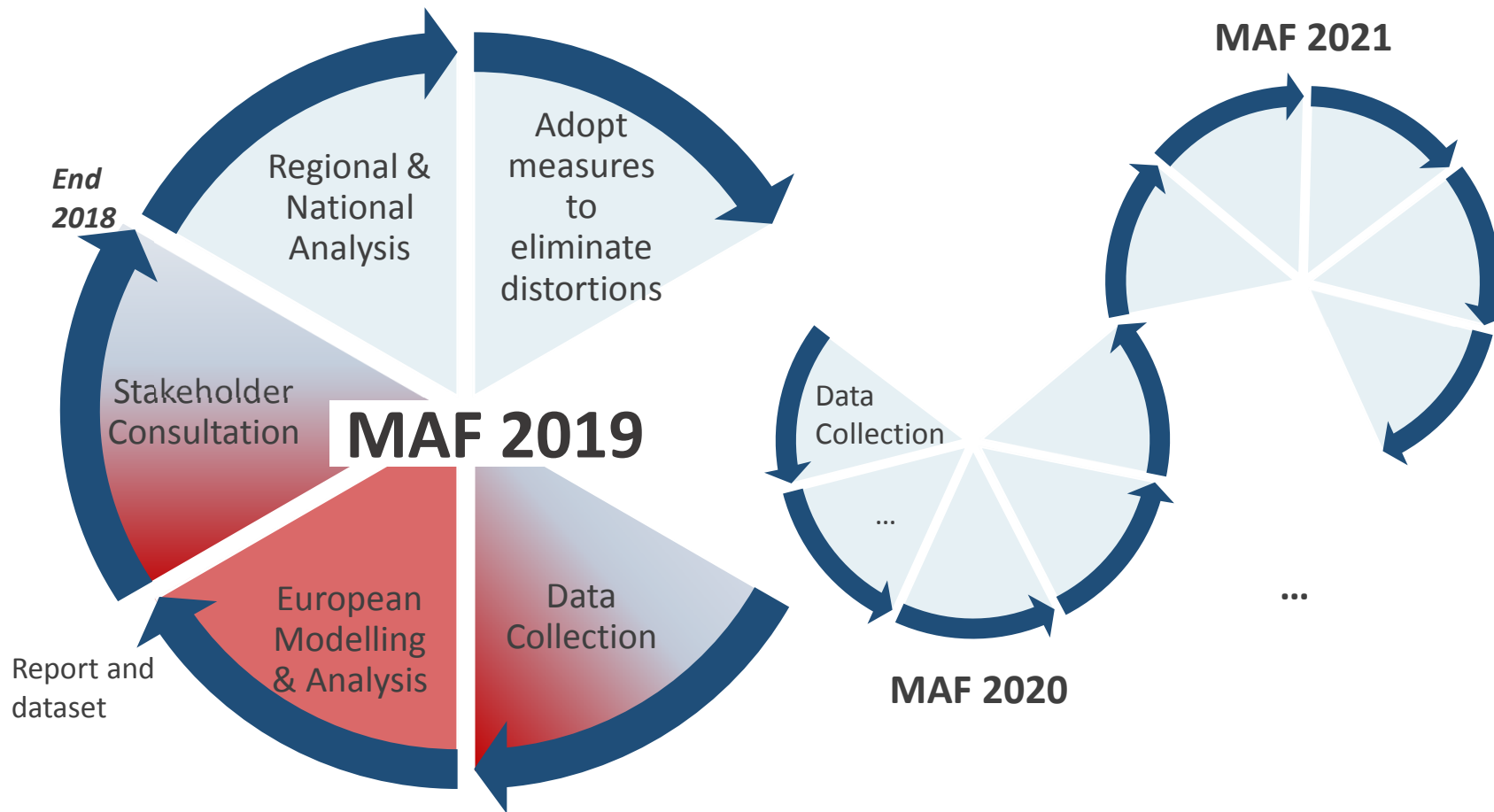


- *Regional/national studies focus on detailed modelling of a region while:
- keeping large European geographical perimeter,
 - retaining a global Pan European probabilistic methodology

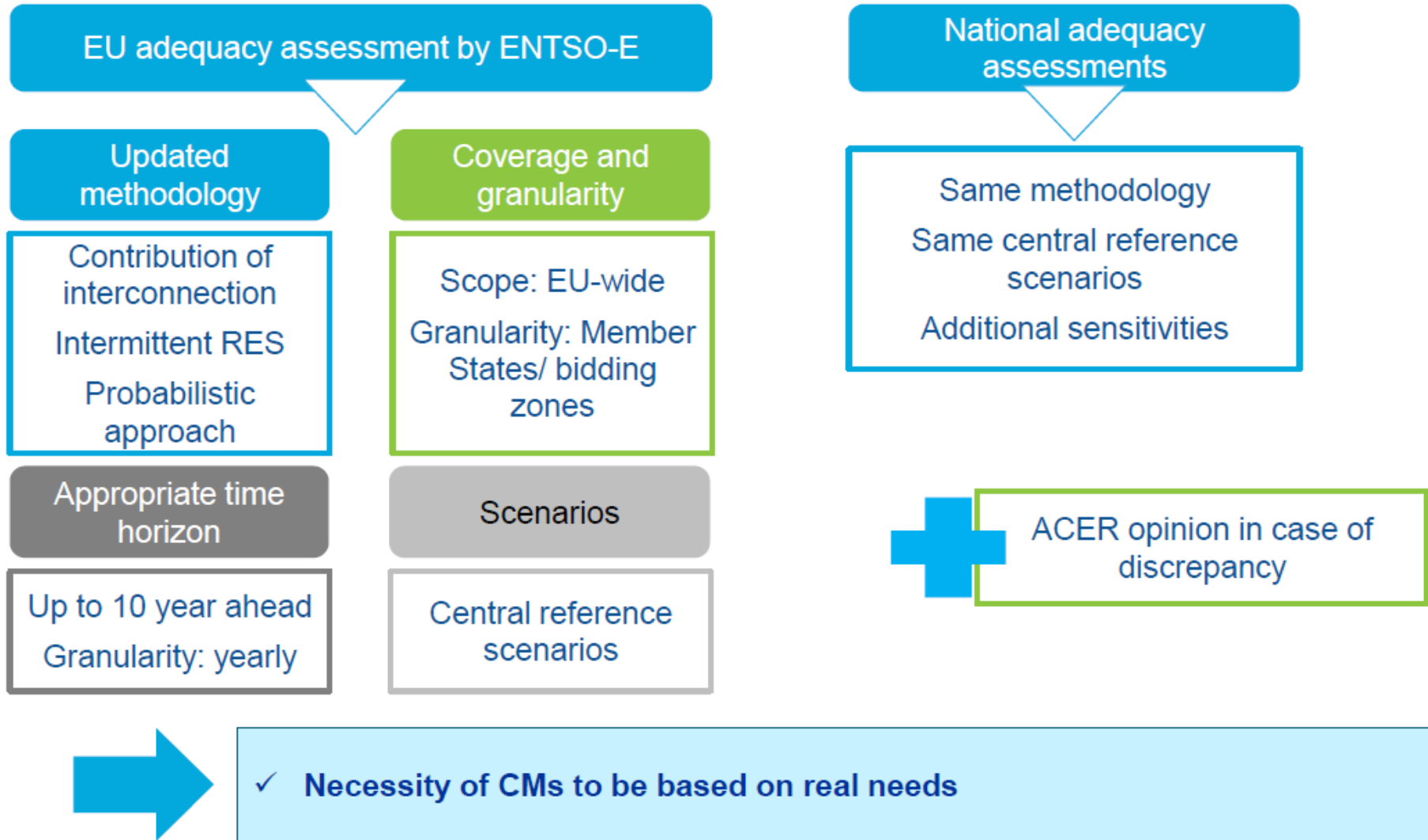
Resource Adequacy: General Methodology



Embedding the MAF to unfold its full potential



EC's view on adequacy and CRM



Resource adequacy assessment

Greater importance and relevance of ENTSO-E

- MAF, reliability standards and methodologies for cross-border participation are major inputs for national Capacity Mechanisms
- Coal and nuclear phase out needs close monitoring
- Cap. Mechanisms XB participation (& registry) key for generators (and DSR) income

ENTSO-E and TSOs have common benefits

- Crucial to have common robust methodology and common databases
- Assumptions data to match MS' Climate & Energy Plans (NCEP) and policies
- Need high resource efficiency to tackle extended scope (e.g. tool focused)

Transparency is key to build on trust

- Stakeholder interactions (EC, ACER, ECG, generators, DSR, NGOs, etc.)
- Extend transparency on methodology and input data

Resource Adequacy Roadmap 2019- 2023

3 methodology packages

Stepwise implementation

Communication to EC/ACER

Consistency with other products (e.g. TYNDP, scenarios)

Timeline for Roadmap preparation:

- Committees' review and SDC approval in May. Board and Assembly approval in June

Resource adequacy - timelines and priorities

2019

2020

2021

2022

2023

- Methodologies for European resource adequacy

- Methodology for Cost of new entry, reliability standards, Value of Lost Load

- Methodology for calculating the maximum entry capacity for cross-border participation to CM

- Stepwise enhancements to the resource adequacy assessments: yearly granularity; flow-based calculation; generation viability assessment, identification of network and resource constraints; sectoral integration; sensitivities with/without CM

**THANK YOU
FOR YOUR ATTENTION!**

Interdependent measures to eliminate distortions

Clean Energy Package:

“Where the European resource adequacy assessment identifies a resource adequacy concern **Member States shall identify any regulatory distortions** that caused or contributed to the emergence of the concern”



Strong Pan-European and technological **interdependencies**



Need to coordinate and align activities

