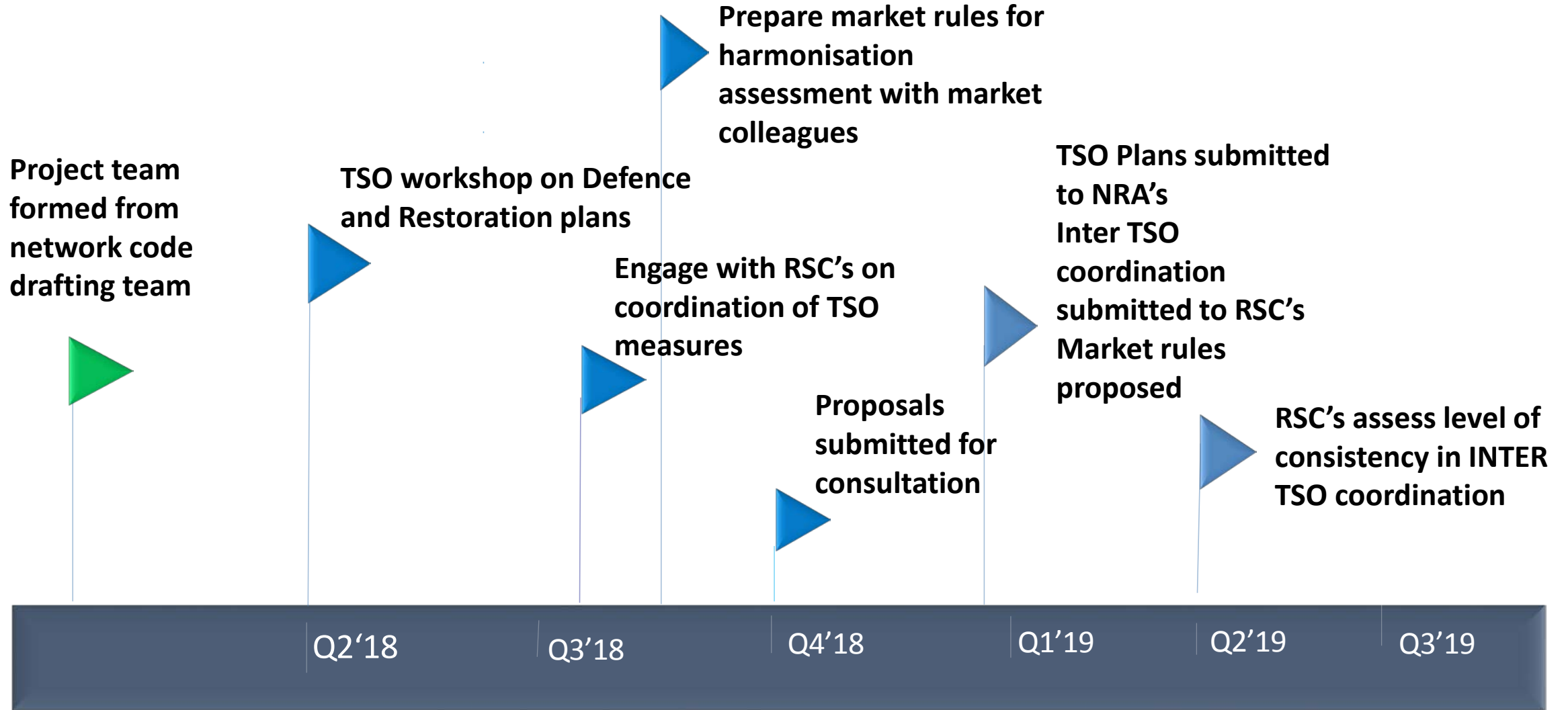


Network Code Emergency and Restoration

Sonya Twohig, ENTSO-E

EnC Security of Supply Meeting, Vienna, 5 July 2018

Emergency and Network Code Timeline



National Implementation Requirement

Each TSO to design a System Defence Plan and System Restoration Plan by December 2018, and to:

1. Include Terms and Conditions to act as defence service providers and restoration service providers.
2. List of SGU's and High Priority SGU's.
3. Rules for suspension and restoration of market activities.
4. Rules for Imbalance settlement

Public Consultation is required for items 1,3 and 4.

National Implementation Progress

Each TSO has mature defence and restoration plans, the NC ER Expert Teams' focus is on providing a common understanding and harmonised approach to TSO's for:

- Rules for suspension and restoration of market activities.
- Rules for Imbalance settlement

A draft paper has been produced and the guidance for document TSO's will be concluded in September.

Exact dates vary however the project team are working on the basis that proposals will be submitted for 1 month consultation in October

Regional Coordination Requirement

Each TSO shall ensure the consistency...in the plans of TSO's within its synchronous area and in the plans of neighbouring TSO's belonging to another synchronous area ...the following measures.

- a) Inter TSO assistance and coordination in the emergency state
- b) Frequency management procedures
- c) Assistance for active power procedure
- d) Top-down re-energization strategy.

Submit measures to the relevant RSC's by 18th December 2018

Regional Coordination Progress

The NC ER Expert Team is on track to deliver.

- A final draft of a template document covering the measures required to submit to RSC's by end of July 18.
- A final version in coordination with RSC's by September 18.
- Complete the template for each TSO by December 18.

Q&A

ENTSO-E Approach to RPP Implementation

Sonya Twohig, ENTSO-E

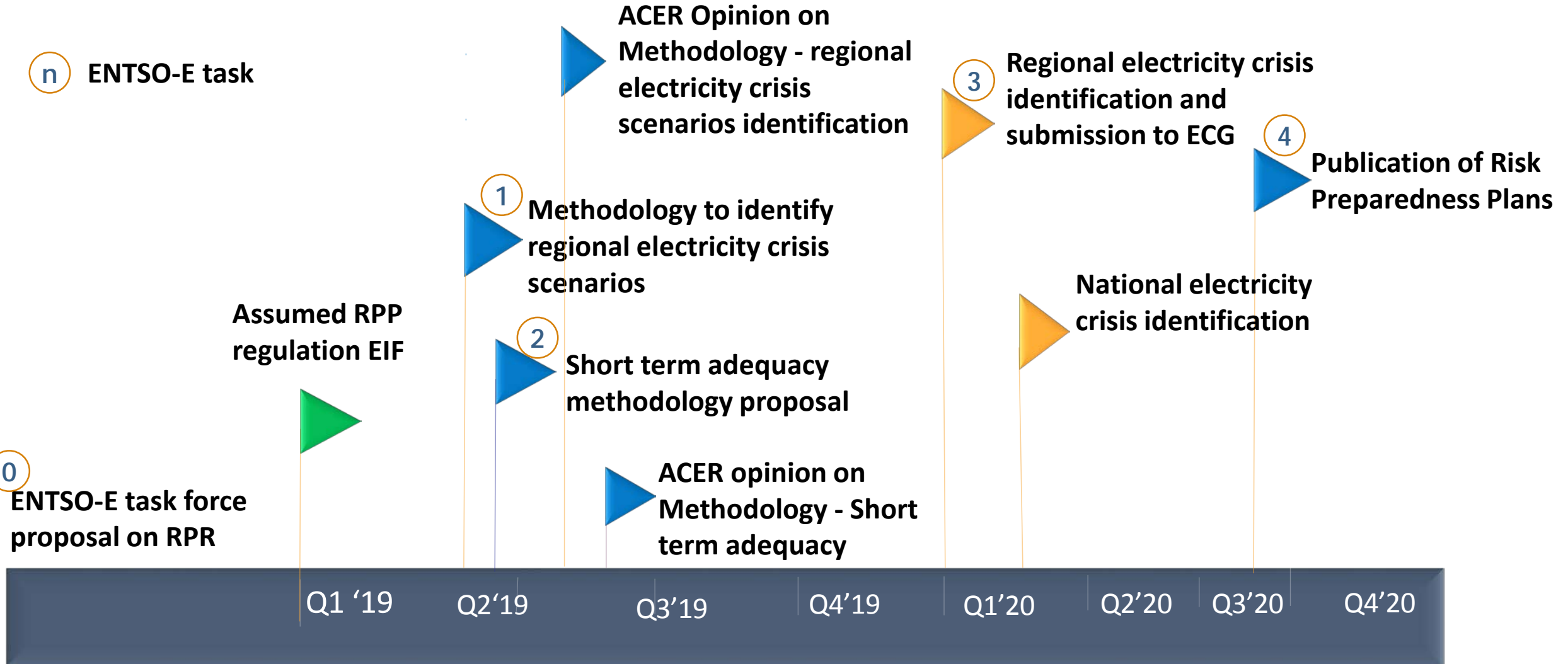
EnC Security of Supply Meeting – 5 July 2018

Risk Preparedness Regulation - Provisional Timelines (*)

n ENTSO-E task

0 ENTSO-E task force proposal on RPR

Assumed RPP regulation EIF



(*) Based on Council's version from 20 December 2017

Electricity Risk Preparedness draft Regulation

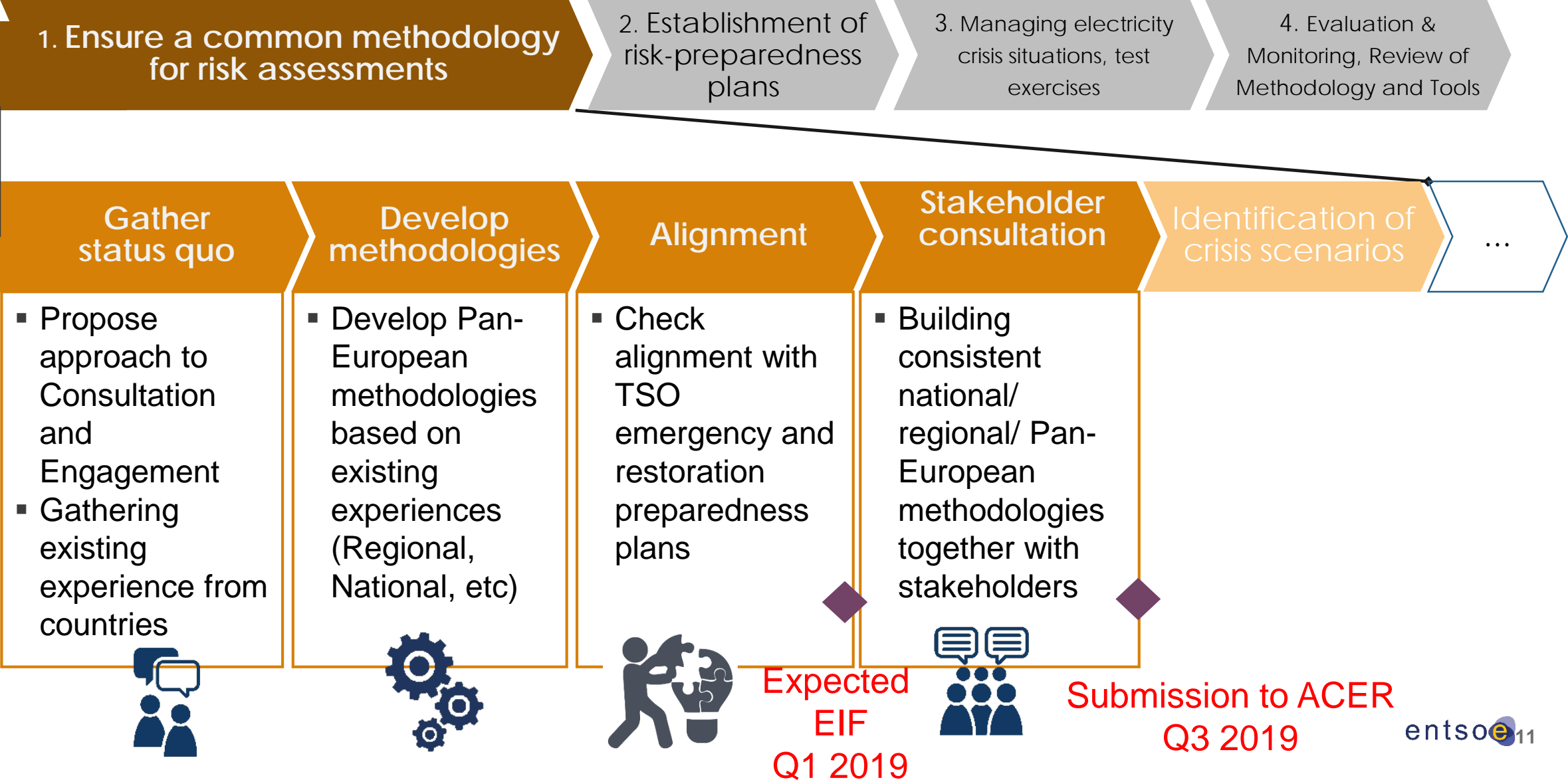
ENTSO-E to propose methodology for identifying relevant crisis scenarios in a regional context, on the basis of the following risks:

- Rare and extreme natural hazards;
- Accidental hazards going beyond the N-1 security criterion;
- Consequential hazards including fuel shortages;
- Malicious attacks

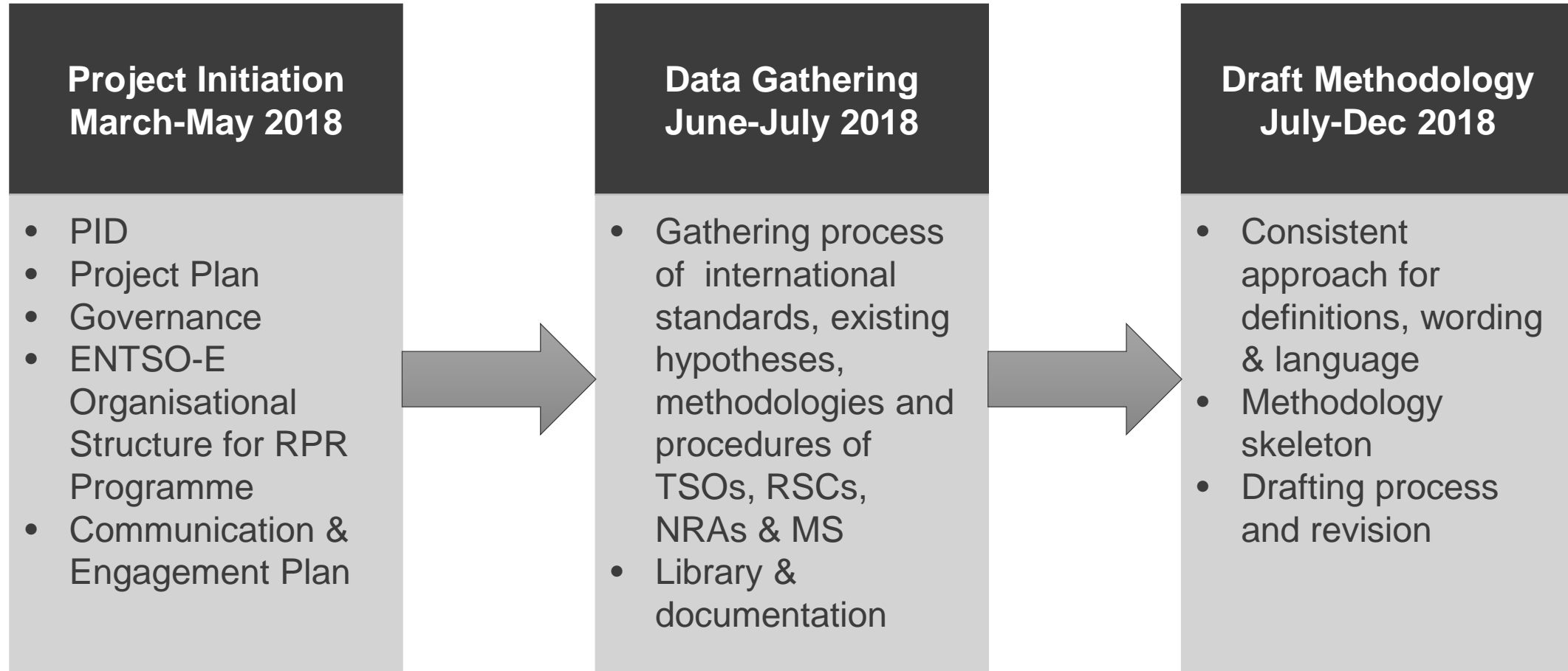
ENTSO-E to propose methodology for assessing short- term adequacy (seasonal as well as week ahead) which shall cover:

- Uncertainty of inputs such as probability of transmission or generation unplanned outage, severe weather conditions and variability of demand;
- Probability of crisis situation;
- Probability of simultaneous crisis situation.

ENTSO-E Consultation Approach – Pan European Crisis Methodology

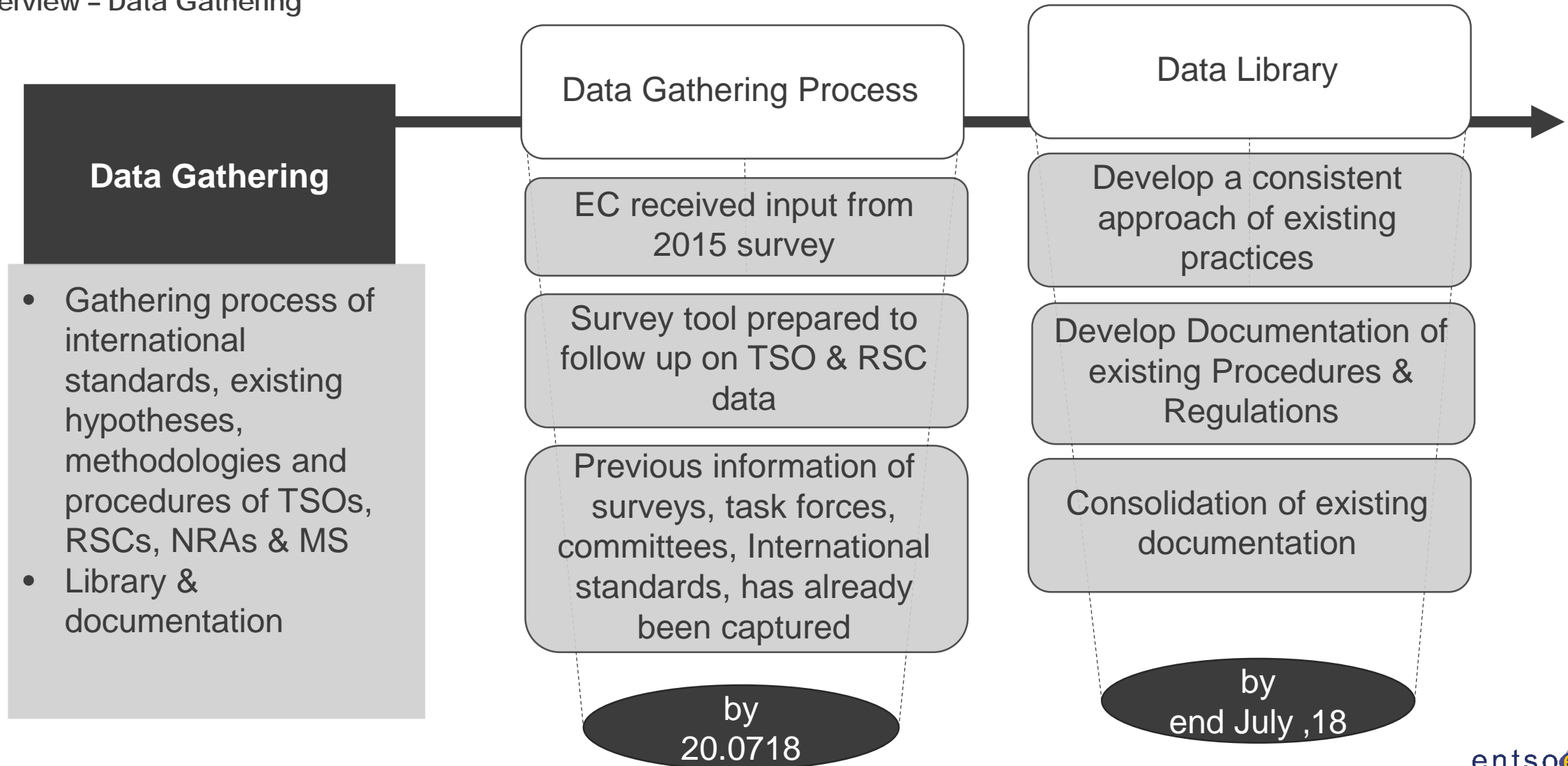


Risk Preparedness - Steps



RPR current status

Overview – Data Gathering



ENTSO-E Consultation Approach

Data Gathered

- ENTSO-E has received the copy of the review study carried out in 2015 into existing national rules for risk preparedness
- The report provides a high level view on where electricity supply risk assessments exist and who is responsible but not methodology applied.

Information Requested

- ENTSO-E is currently requesting via our website/consultation hub for TSO's to provide existing methodologies for identifying electricity crisis scenarios.
- We would like to expand the survey to include Electricity Coordination Group (ECG) Representatives to ensure support with the TSO's and ability to contribute if applicable

Consultation Hub

- The consultation hub is confidential and as a private consultation is not visible to external parties.
- The hub provides a platform for documents to be attached.

ENTSO-E Consultation Approach

Updates And Contact

- ENTSO-E will produce a short newsletter by email on a bimonthly basis informing on the developments for the Risk Preparedness Methodology.
- For more information about the Risk Preparedness Programme please contact Bruce Riddington, Risk Preparedness Project Manager at ENTSO-E
- Contact details will be provided on the consultation hub and via email.