

# EU Netcode Emergency & Restoration

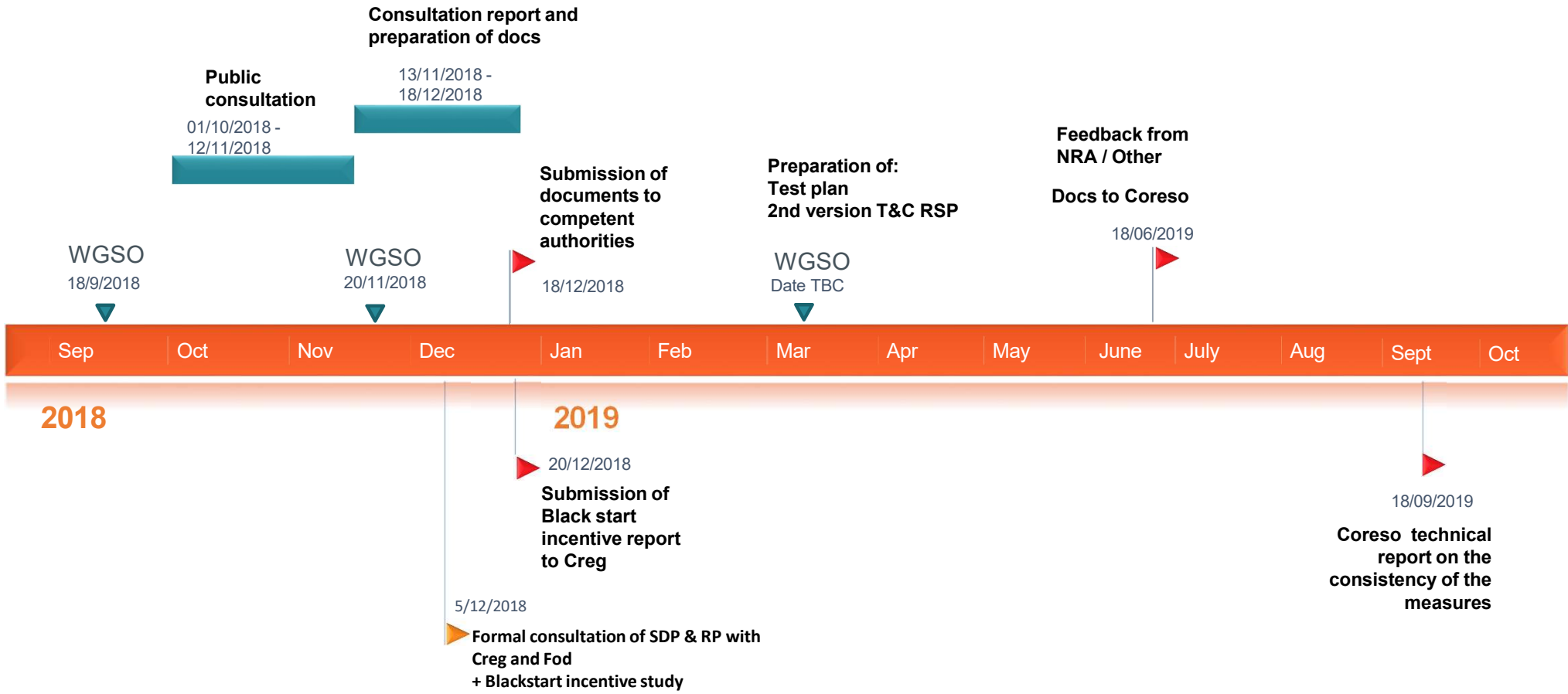
Users Group WGSO

20/11/2018

# Agenda

1. Timing & deliverables
2. Defense Plan Design
3. Restoration Plan design

# NCER timeline



# 4 deliverables submitted for public consultation

## Stakeholders are also involved for the other 4 documents

### Deliverables submitted for public consultation

#### T&C for Restoration Service Providers (RSPs)

- T&C for RSPs are based on the existing Black-Start contract.

#### Rules for suspension and restoration of market activities

- Submitted together with the rules for imbalance settlement in case of suspension of market activities

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#### No T&C for Defence Service Providers (DSPs)

- A justification is provided in the explanatory note for public consultation

#### Black start incentive study

### Deliverables under review

#### System Defence Plan (SDP)

- A first draft has been sent to stakeholders on 21.09
- Reactions from Febeg and Febeliec answered and integrated
- A second draft has been sent to stakeholders on 16.11
- NRA requires an approval instead of a notification as stated in NCER.

#### Restoration Plan (RP)

- NRA requires an approval instead of a notification as stated in NCER.

#### List of Significant Grid Users (SGUs)

- Included in the SDP and RP

#### List of High Priority SGUs and T&C for their disconnection and re-energization

- Included in the SDP and RP

# Requirements for translation of documents

Documents in FR and NL :

- Market rules
- T&C for RSP

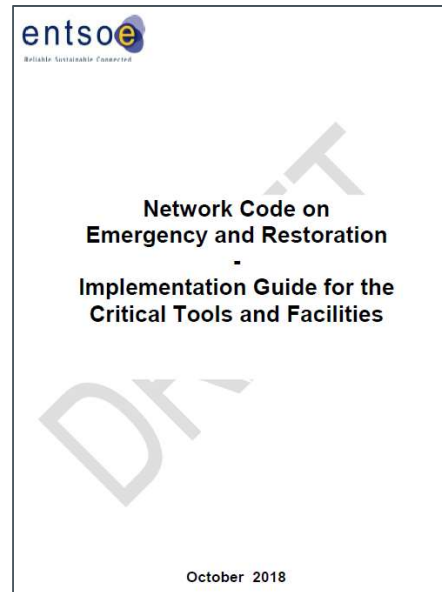
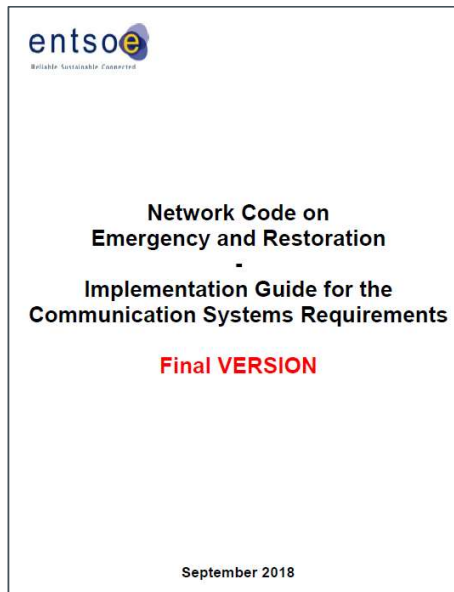
Documents to be submitted in FR or NL:

- System Defence Plan
- Restoration Plan

Documents to be submitted in FR, NL or EN by 18/12:

- Explanatory note
- Consultation feedback document

## EntsoE Guiding documents

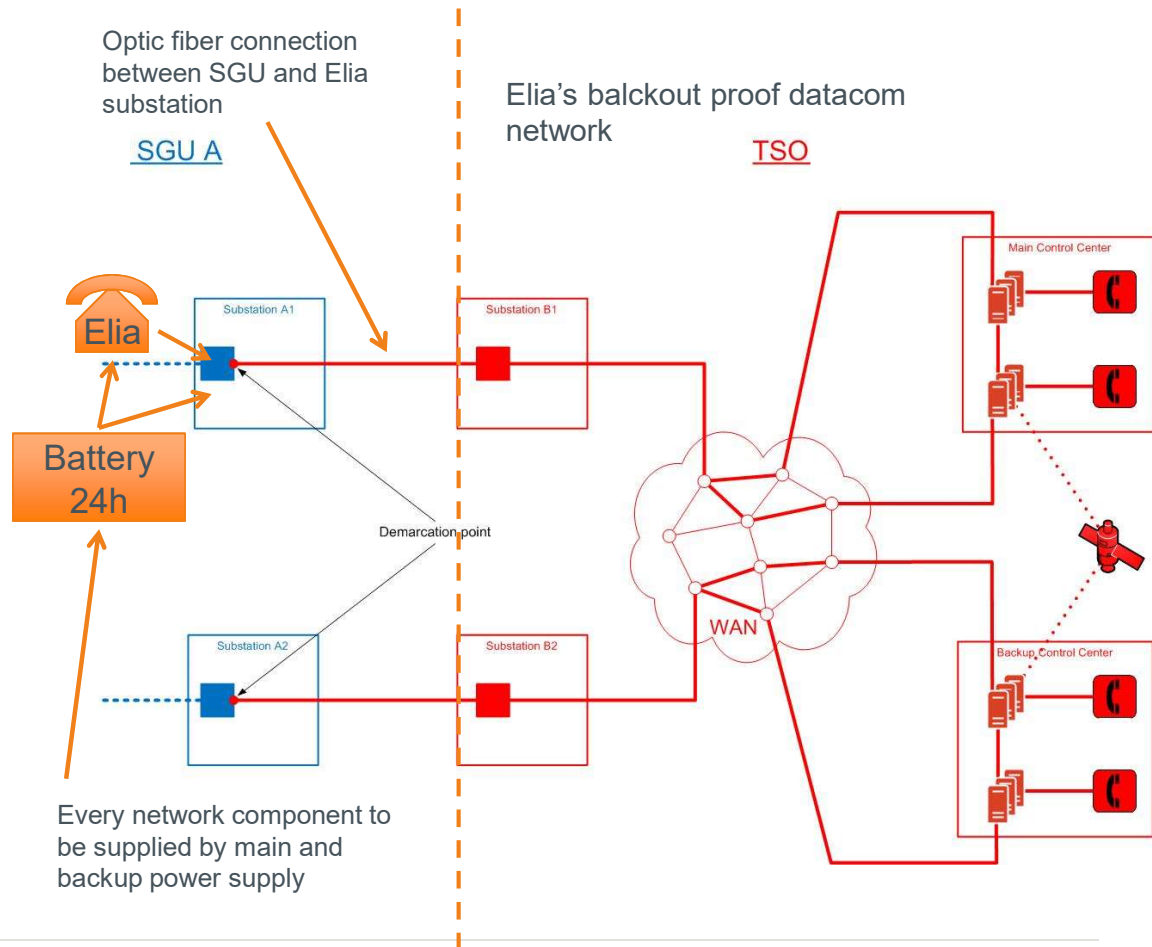


- Document accompanying the NCER, provided for information only.
- The mandatory requirements for all involved parties are specified in the NCER.
- In addition these documents describe principles/commitments of the involved parties to meet the requirements from NC ER.
- Therefore these documents are not legally binding.

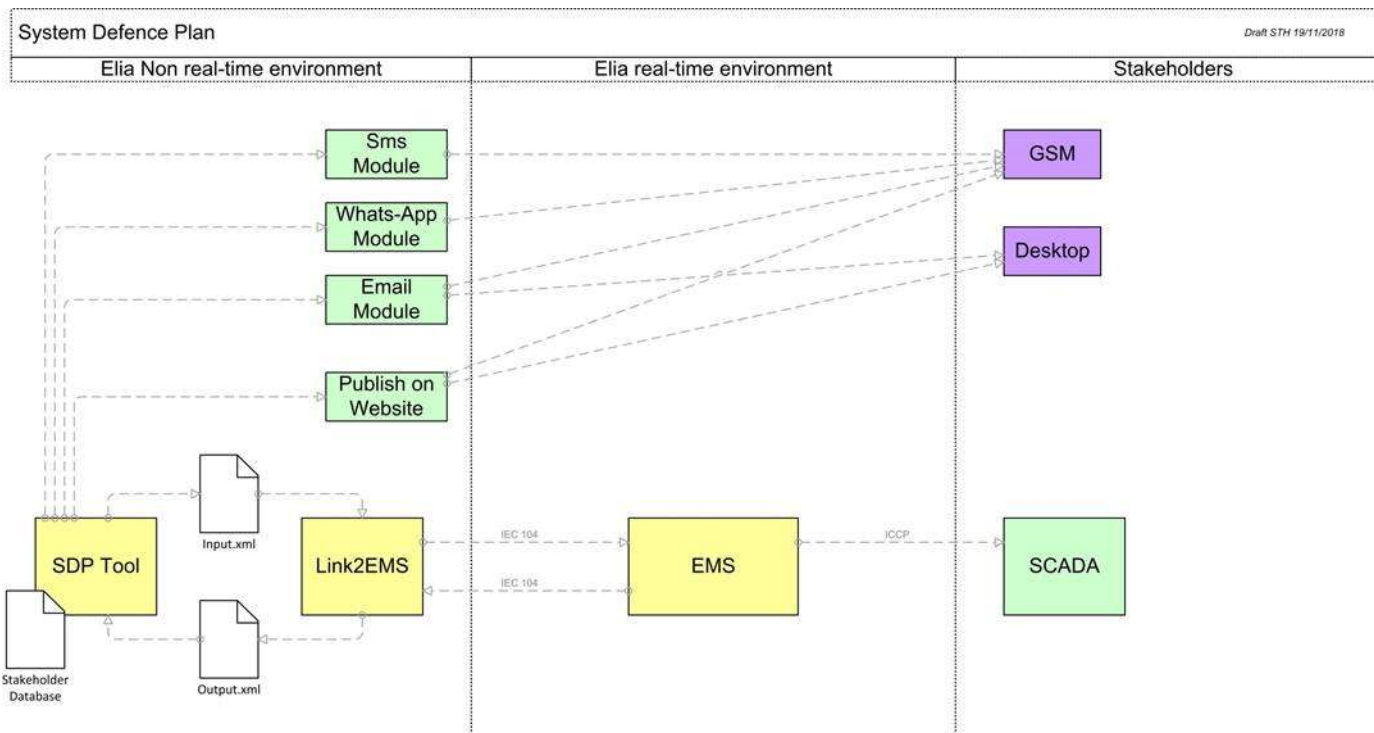
# Communication systems Art 41

Each **TSO**, **DSO**, **SGU** identified ~art 23(4), and **RSP** shall have a **voice communication system** implemented with sufficient equipment **redundancy** in **case of failure** of any individual communication system equipment and **backup power supply** sources to allow the exchange of the necessary information for RP, **during at least 24 hours**, in case of total absence of external electrical energy supply.

Ensure the availability 24/7 of an operator with appropriate skills and “responsibility level” to guarantee that incoming calls from the TSO can be identified, answered immediately and will lead to the appropriate actions.



# Notifications related to E&R



- Emergency Elia
- Blackout Elia
- Market Suspension
- Market Restoration
- Grid Restoration
- Activate Emergency Reserves

Opt-in mechanism for stakeholders  
Timing:

- Design of application in H1 2019
- PoC mid 2019
- Roll out by end off 2019
- Follow up during WGSOs 2019



# System Defence Plan

- Confidential version to Creg, Fod Economy & Minister of Energy
- Non-confidential version to stakeholders, not including:
  - Detailed under frequency demand disconnection plan
  - Detailed list of identified significant grid users
  - References and links to internal procedures
- Non-confidential version to be added in relevant agreements



# System Defence Plan – Points of discussion

- See text document

## Restoration plan

- Confidential version to Creg, Fod Economy, CGCCR & Minister of Energy
- Non-confidential version to stakeholders, not including:
  - All annexes with individual reconstruction scenario's and schemes.
  - List of actual contracted black start units
  - Detailed list of identified significant grid users
  - List of substation essential for the restoration plan
  - References and links to internal procedures
- Non-confidential version to be added in annex of relevant agreements



## Restoration Plan – Points of discussion

- See text document