

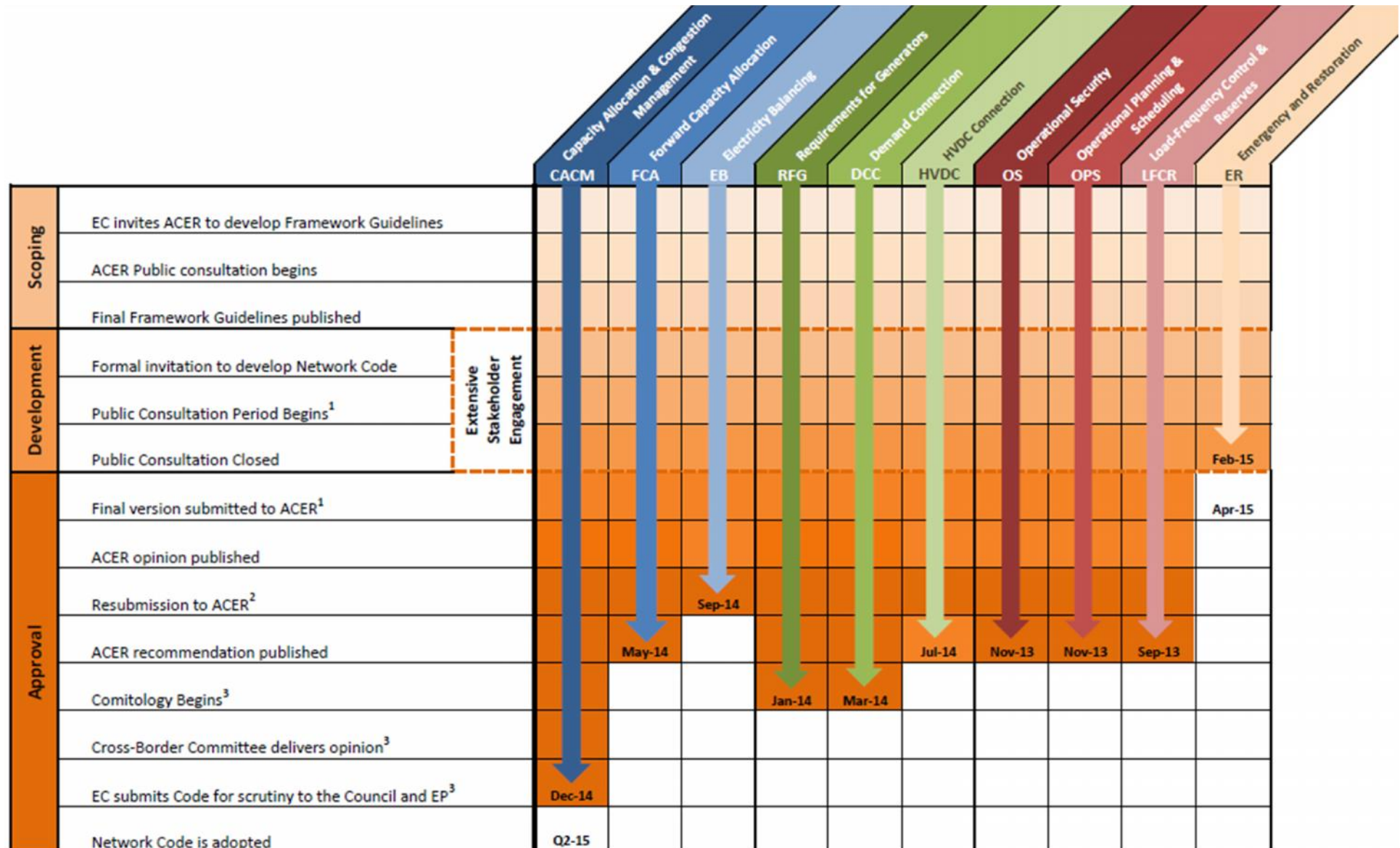
Operational security (OS) and Operational Planning&Scheduling (OPS) Network Codes

Reminder of the content of the codes and next steps

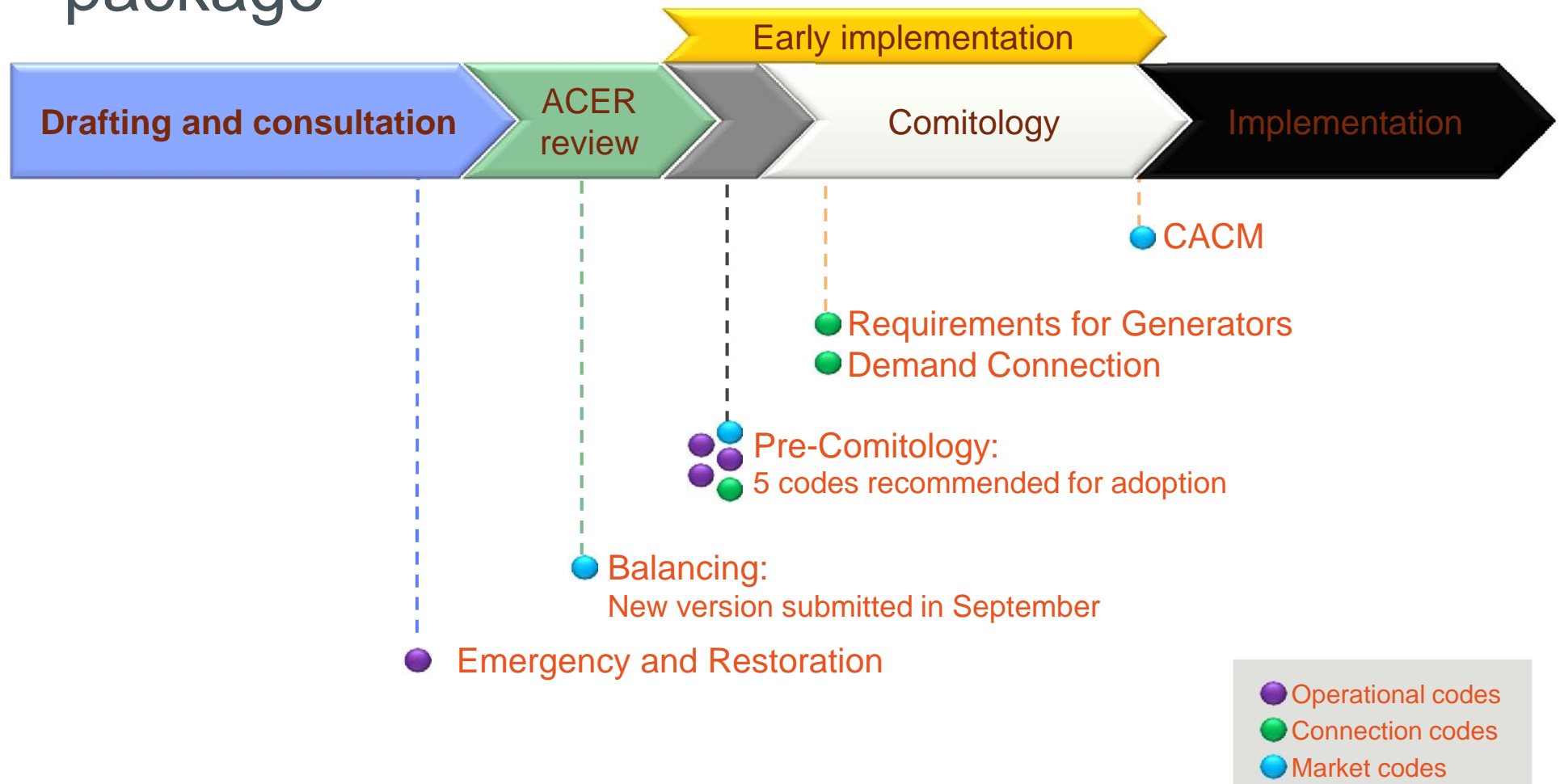
Working Group System Operation
Brussels, 06/03/2015
Olivier Bronckart

1. Status of Network Codes
2. Operational Security NC
3. Operational Planning & Scheduling NC
4. OS and OPS NC : Next Steps

Status of Network Codes



First priority: full implementation of the 3rd package



Timeline of NC OS and NC OPS until ACER's positive opinion



- **December 2011** ACER publishes Framework Guidelines on System Operation
- **February 2013** NC OS submitted to ACER
- **March 2013** NC OPS submitted to ACER
- **Summer 2013** ENTSO-E improves the drafts taking into consideration comments from ACER
- **September 2013** NC OS and NC OPS resubmitted to ACER
- **November 2013** Positive opinion from ACER on NC OS and NC OPS

Operational Security NC

Operational Security NC

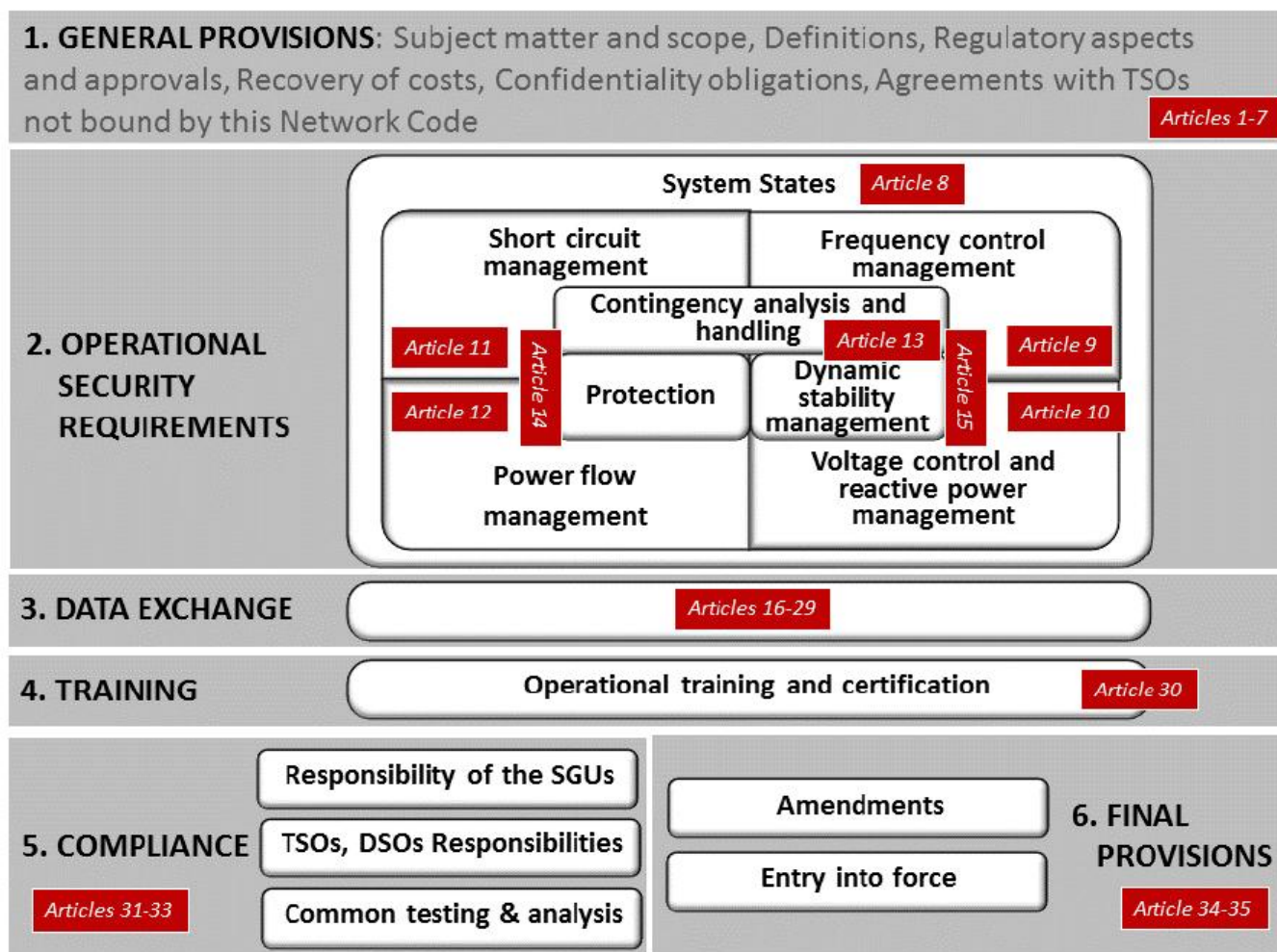


Figure 6: Structure and key provisions of the Operational Security Network Code (Source: ENTSO-E)

Operational Security NC

- Transversal to each codes.
- No specific issue for BE related to OS

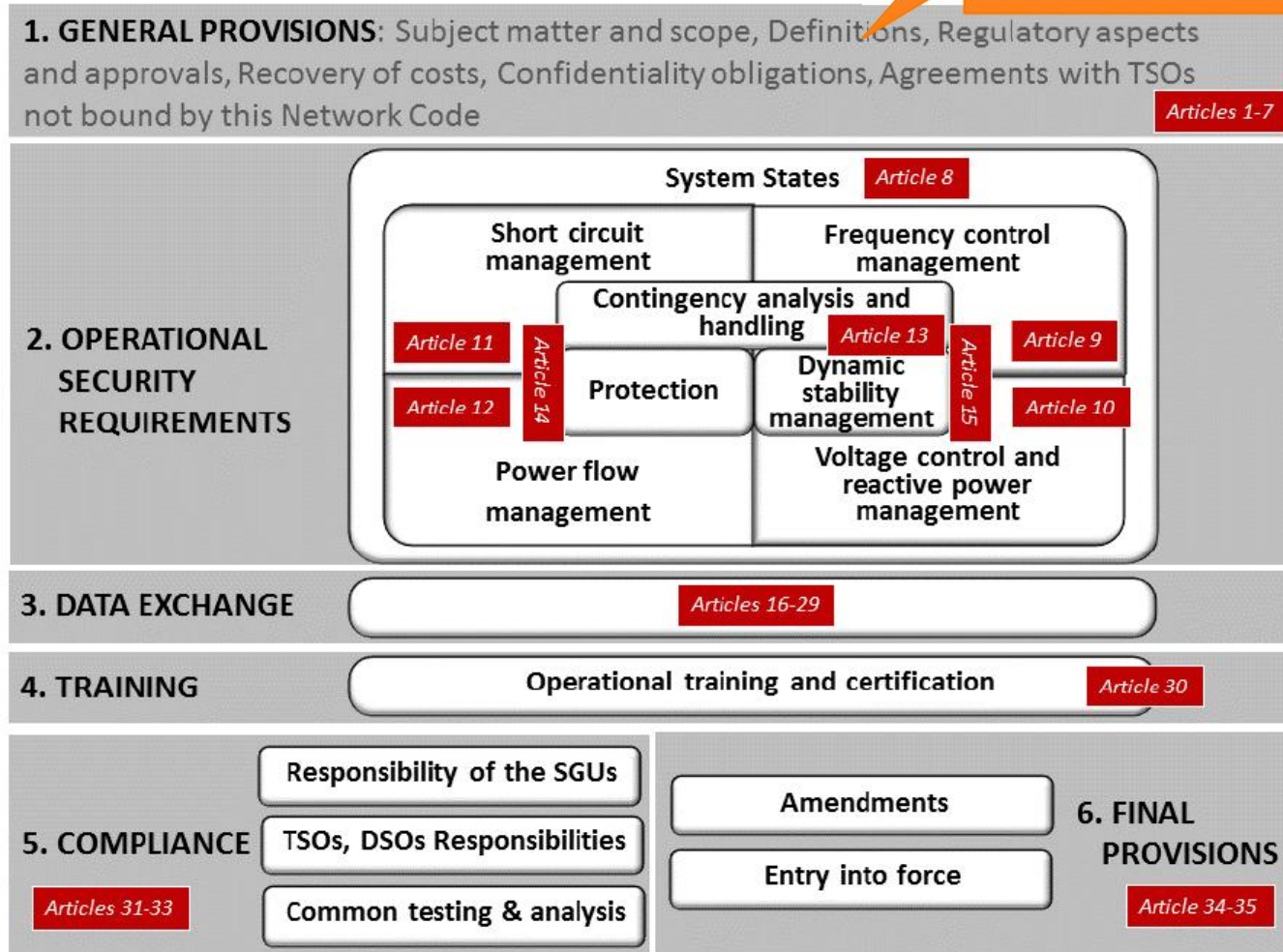


Figure 6: Structure and key provisions of the Operational Security Network Code (Source: ENTSO-E)

- No significant deviations from current BE practices
- Voltage control and reactive power management at connection/interface points to be clarified

Security NC

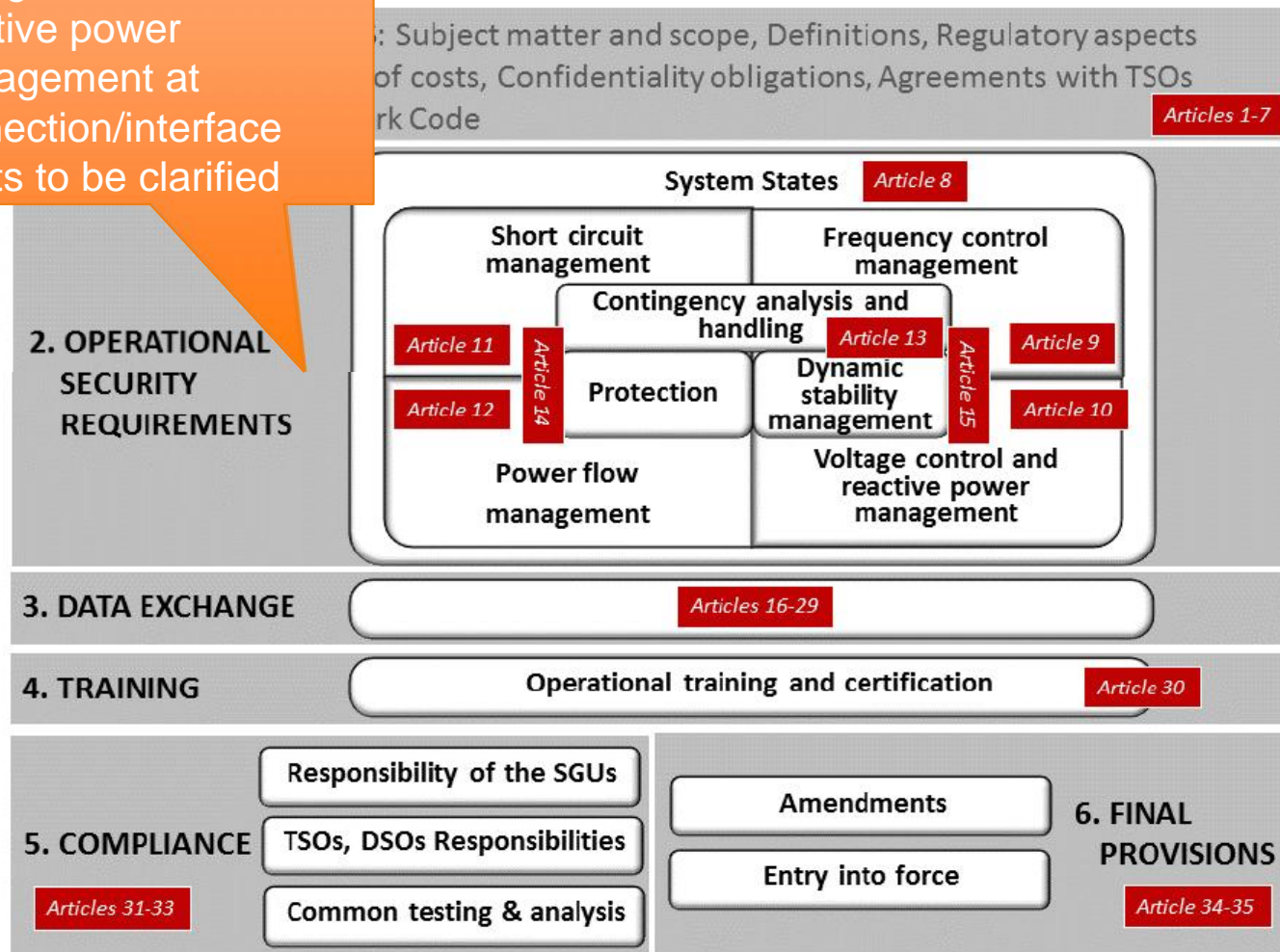


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Operational Security NC

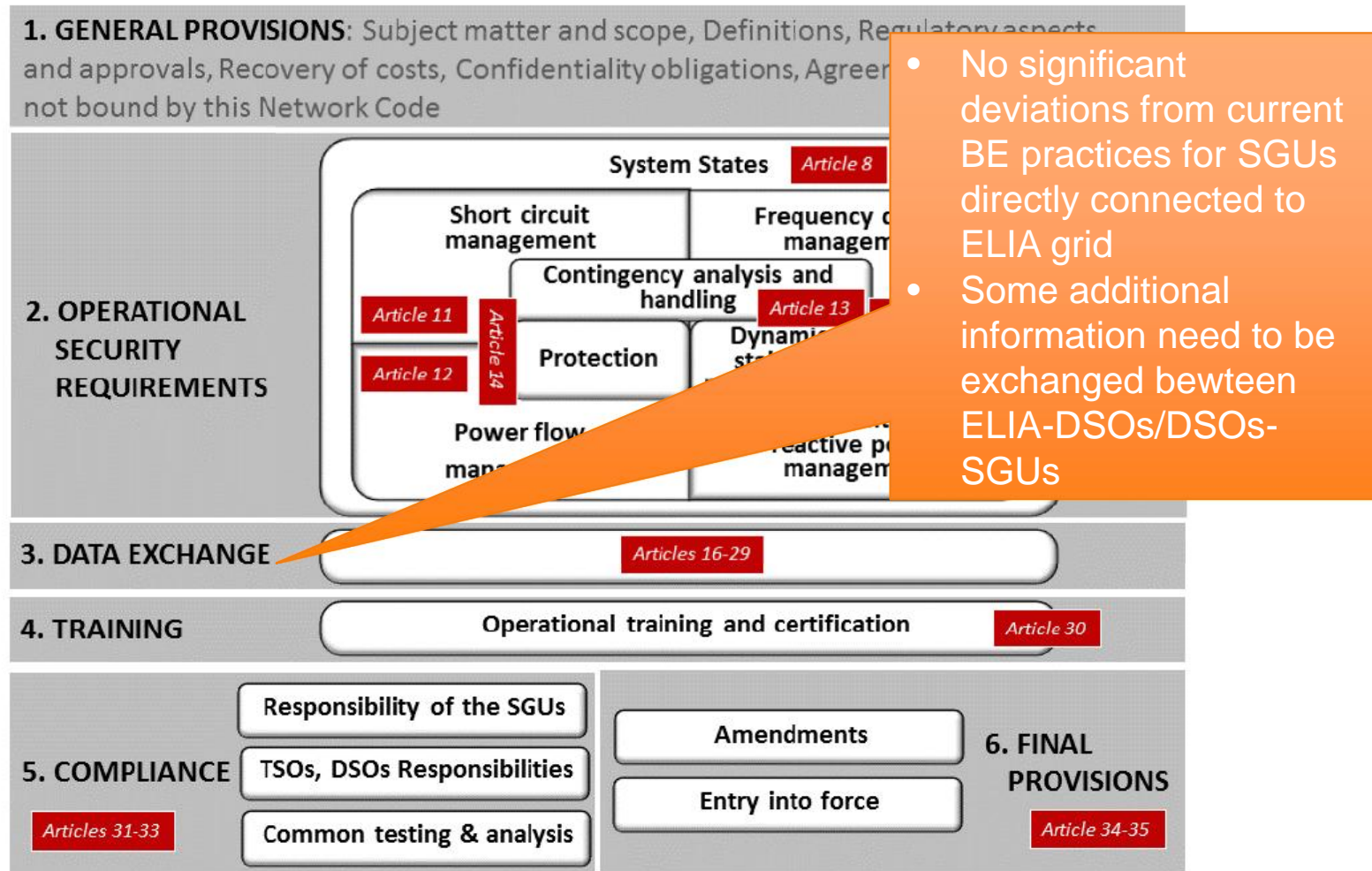
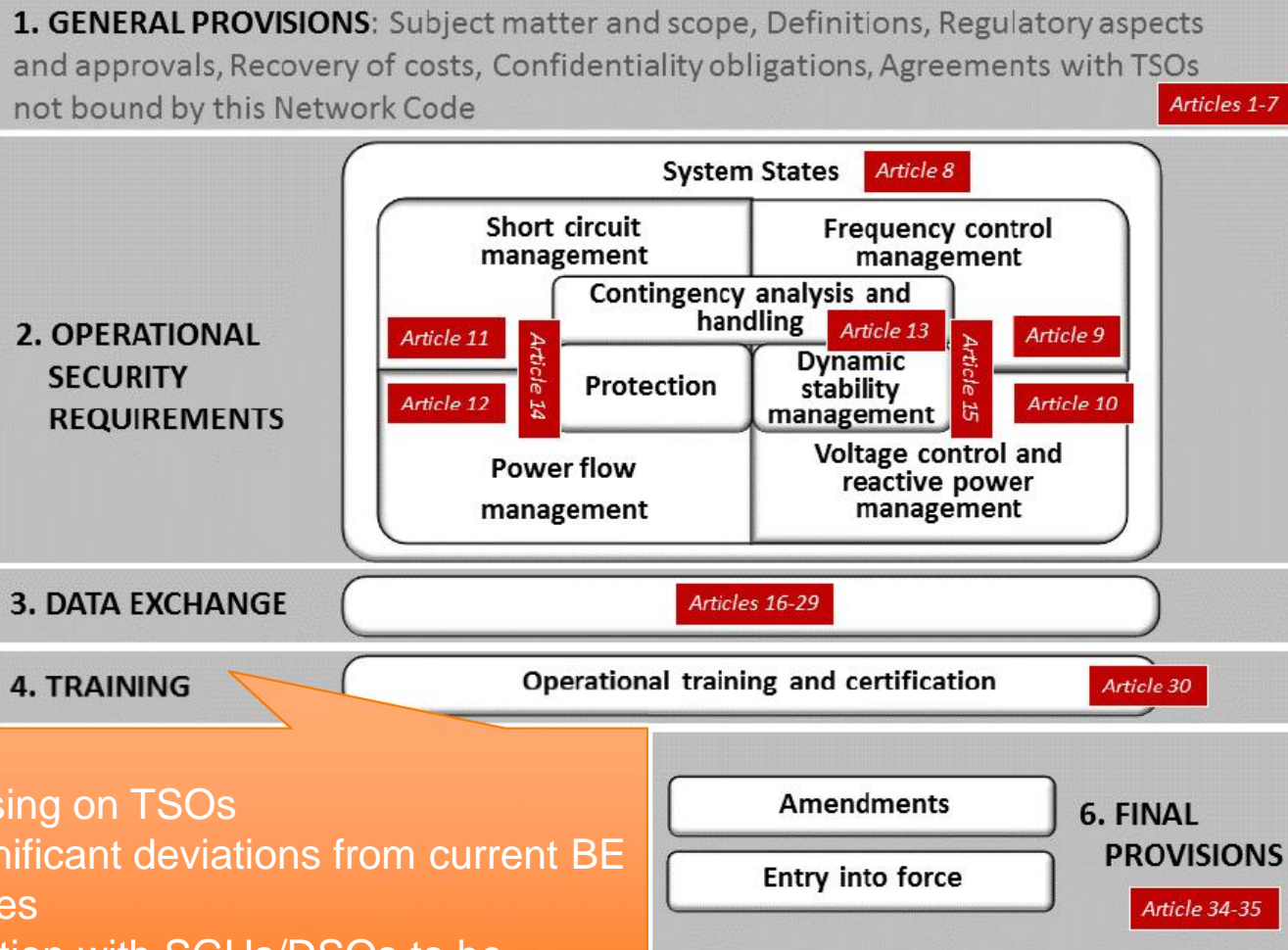


Figure 6: Structure and key provisions of the Operational Security Network Code (Source: ENTSO-E)

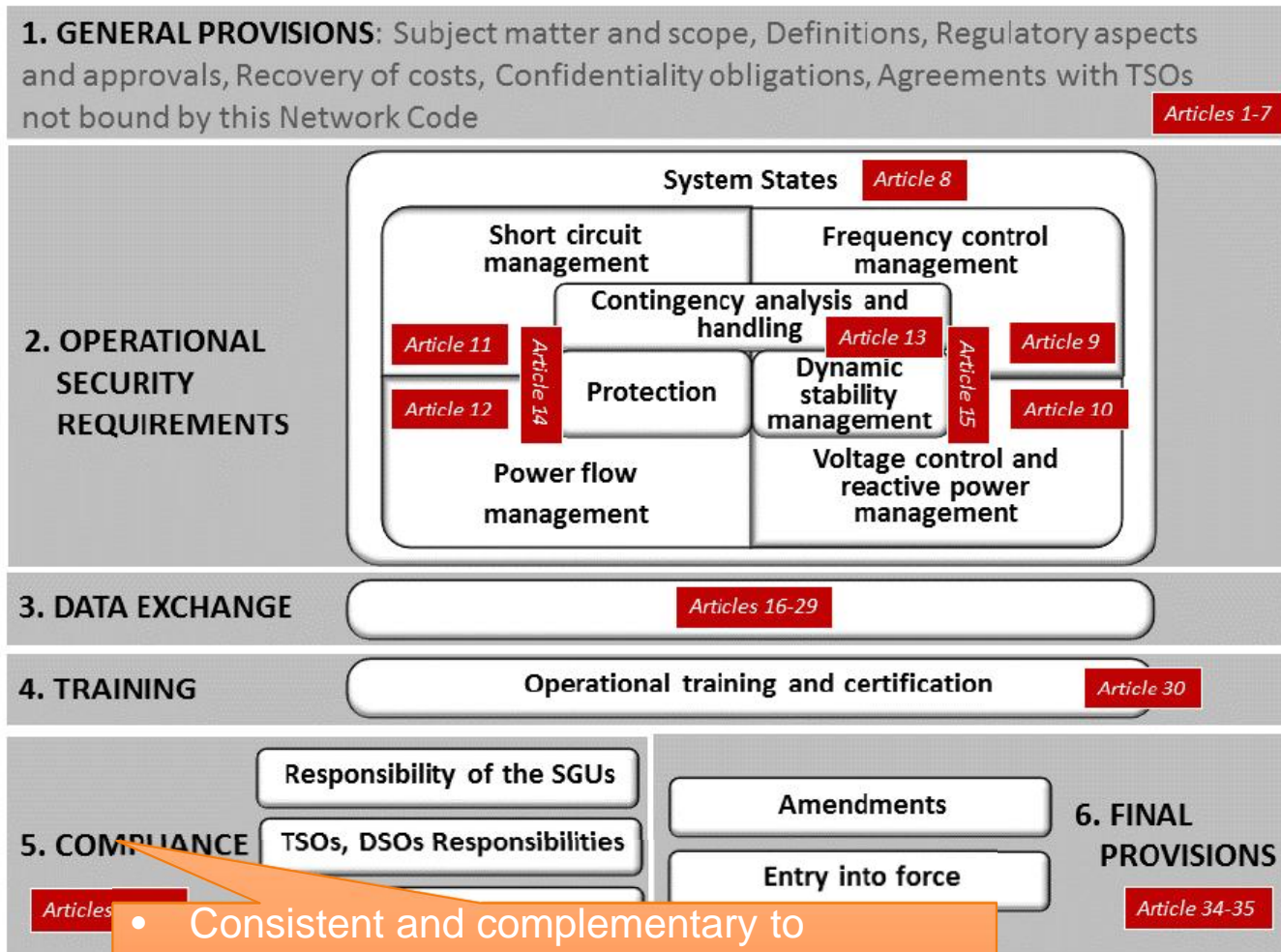
Operational Security NC



- Focussing on TSOs
- No significant deviations from current BE practices
- Interaction with SGUs/DSOs to be foreseen

Operational Security Network Code (Source: ENTSO-E)

Operational Security NC



- Consistent and complementary to Compliance and testing defined in Connection Codes
- Focus on compliance monitoring and testing after commissioning

Figure

(Source: ENTSO-E)

Operational Security NC

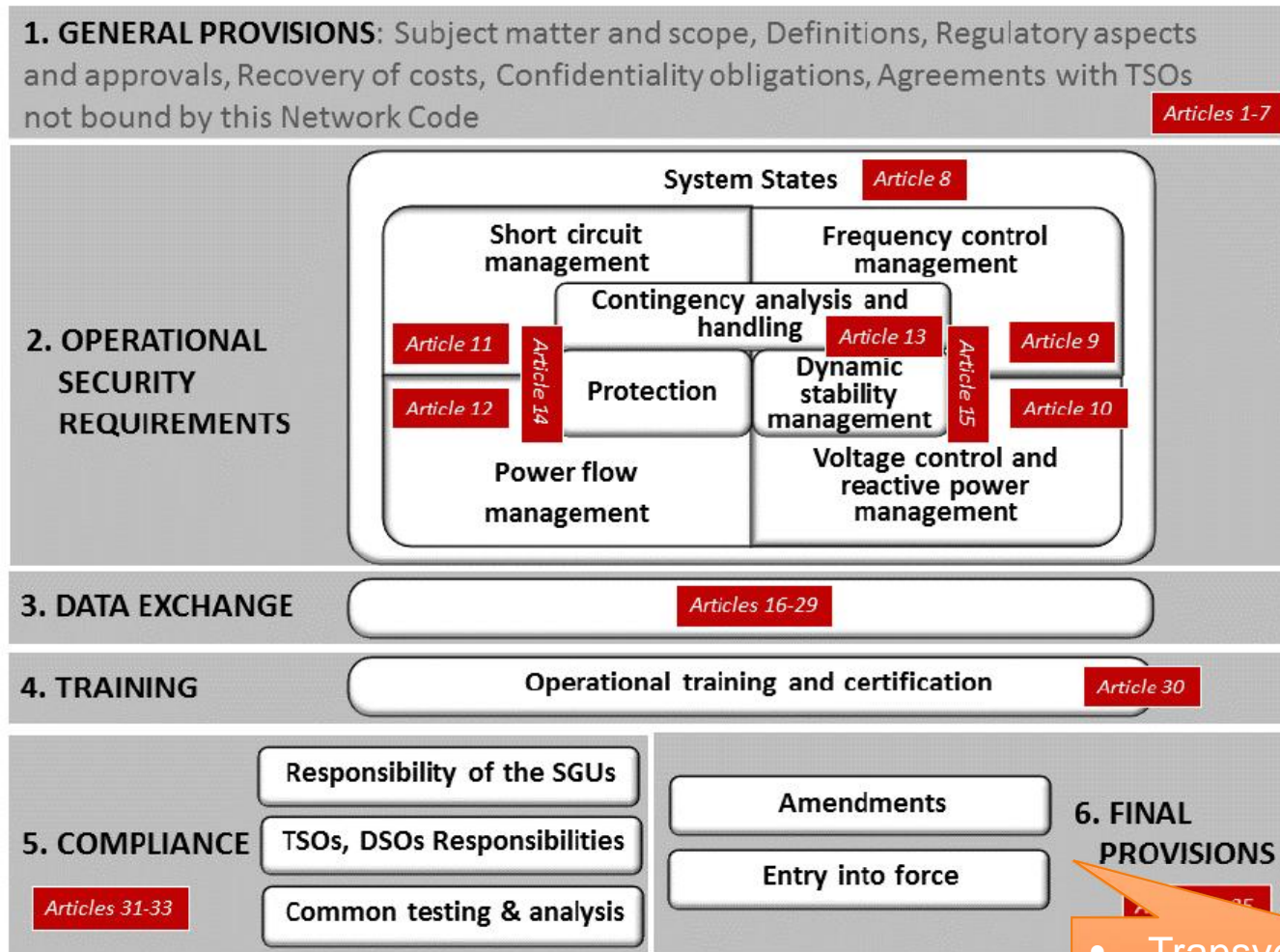


Figure 6: Structure and key provisions of the Operational Security Network Code (Source: elia)

- Transversal to each codes.
- No specific issue related to OS

Operational Planning & Scheduling

Operational Planning & SchedulingNC

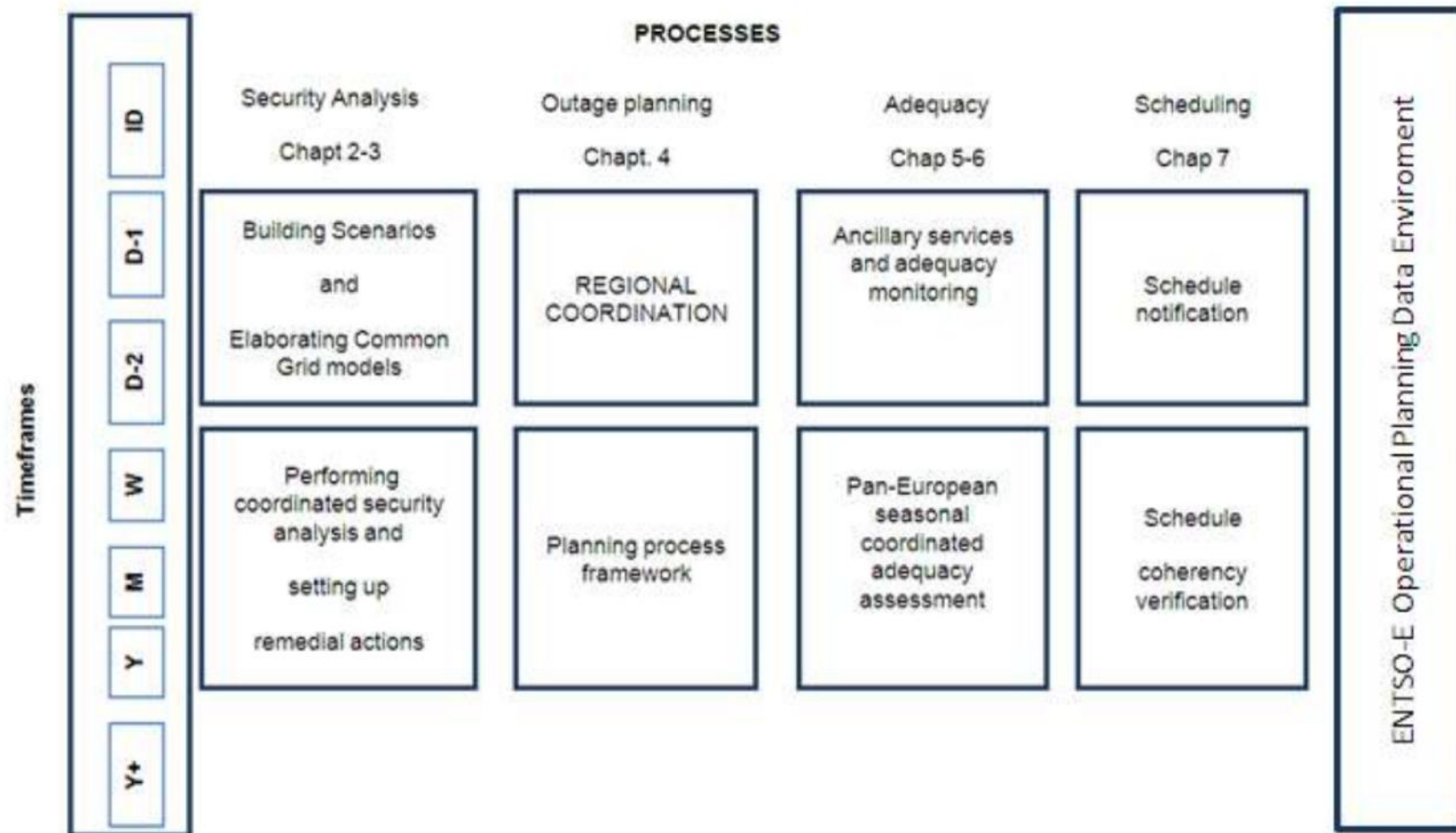
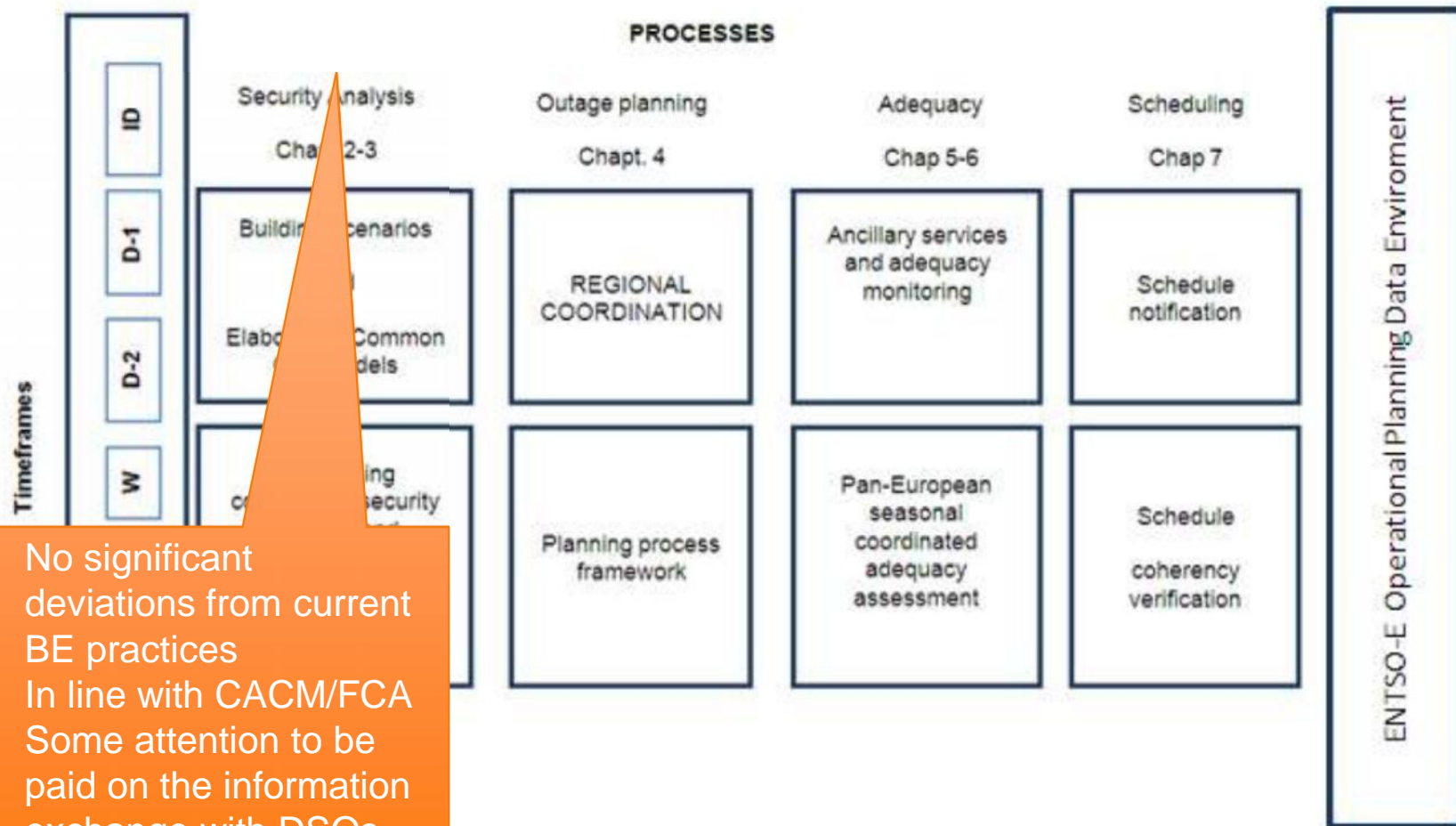


Figure 3: Structure and provisions of the Network Code on Operational Planning and Scheduling

Operational Planning & SchedulingNC



- No significant deviations from current BE practices
- In line with CACM/FCA
- Some attention to be paid on the information exchange with DSOs related to the dispersed generation

visions of the Network Code on Operational Planning and Scheduling

Operational Planning & SchedulingNC

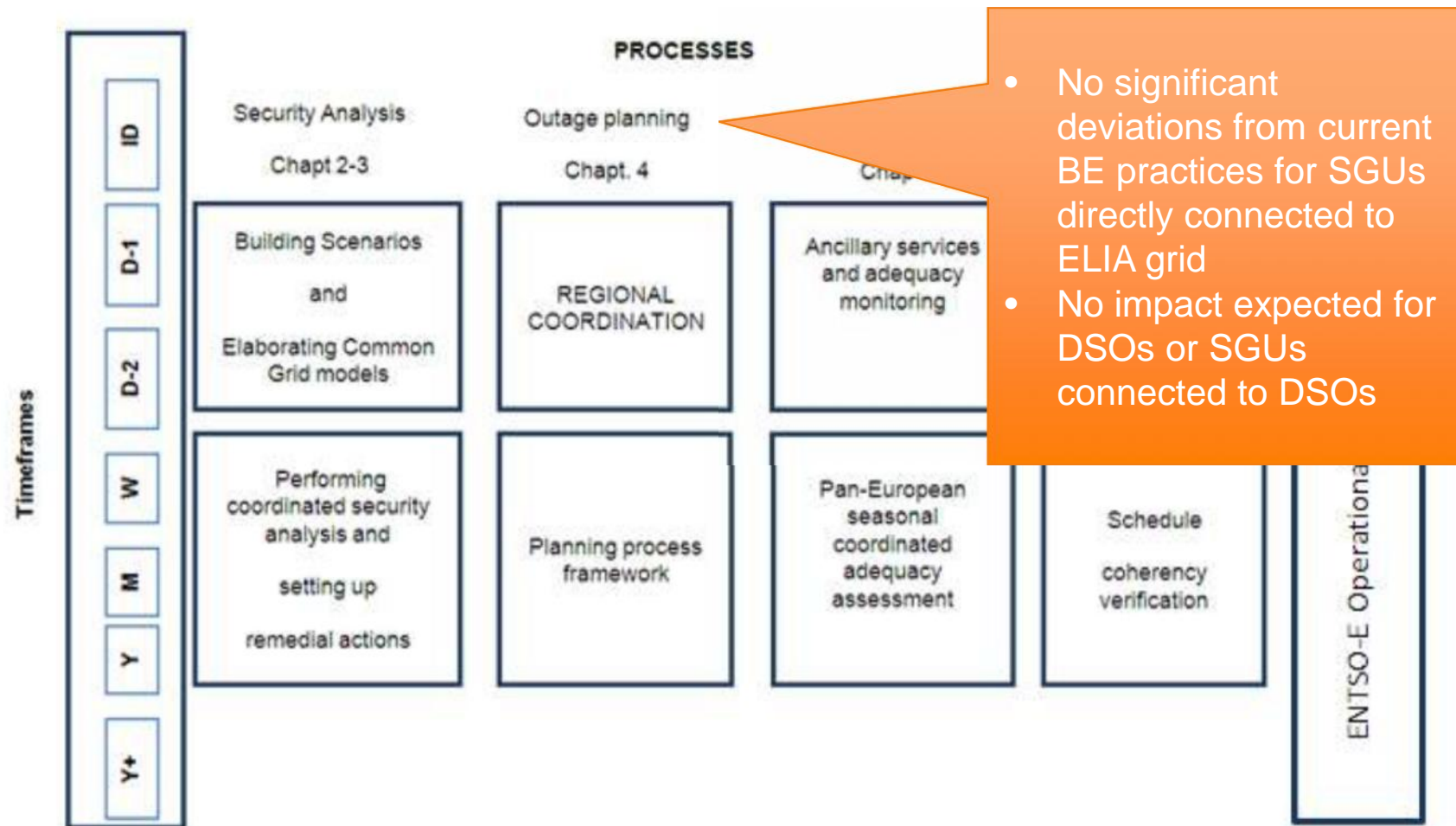
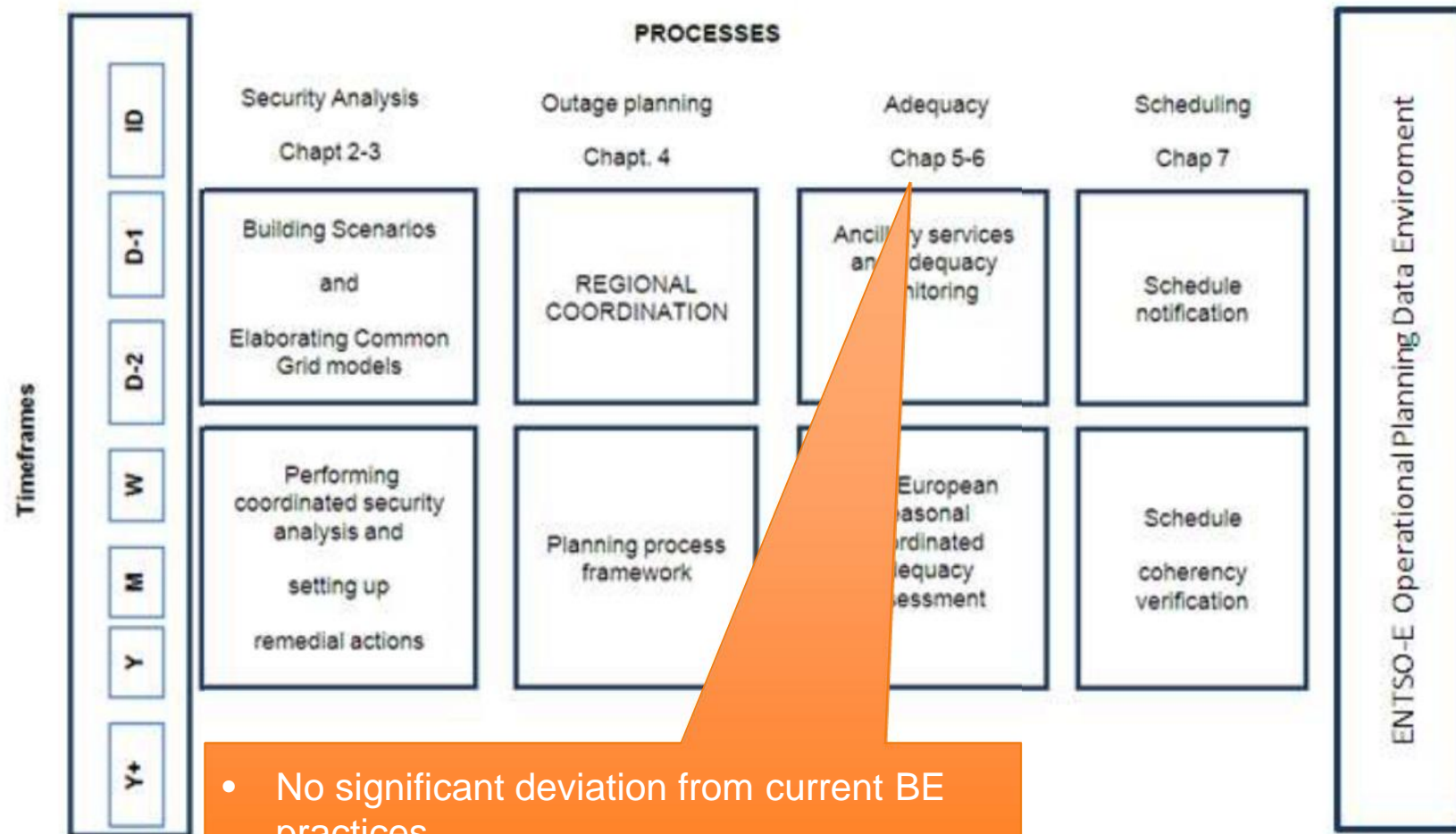


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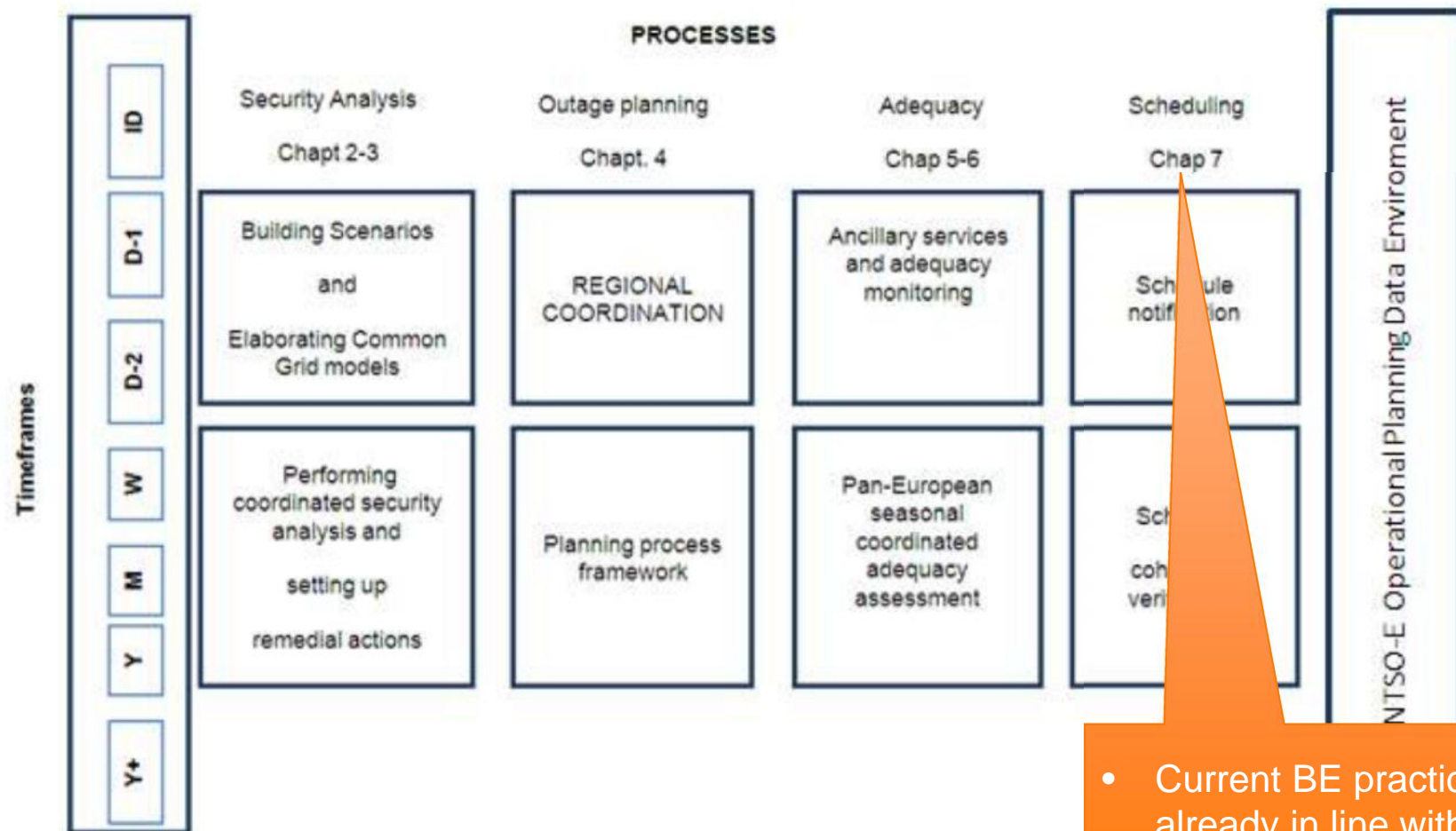
Operational Planning & SchedulingNC



- No significant deviation from current BE practices
- for adequacy, no impact on SGUs/DSOs
- Improvement needed in reactive power reserves monitoring for Ancillaries

Figure 3: Scheduling and Planning Processes

Operational Planning & SchedulingNC



- Current BE practices already in line with provisions

Figure 3: Structure and provisions of the Network Code on Operational Planning and Scheduling

Operational Planning & SchedulingNC

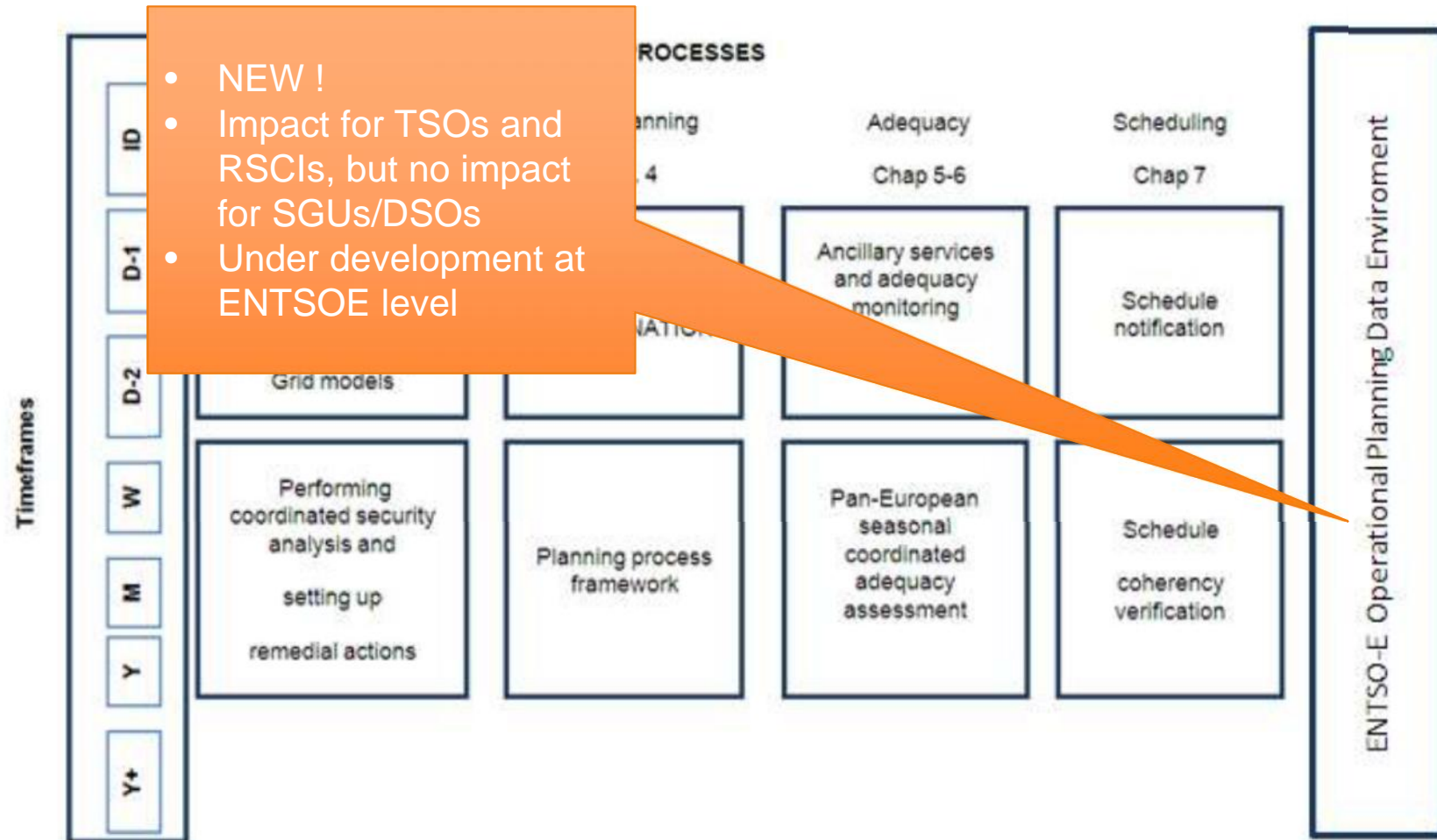


Figure 3: Structure and provisions of the Network Code on Operational Planning and Scheduling

Operational Planning & Scheduling NC

- Transversal to each codes.
- No specific issue for BE related to OPS

1. GENERAL PROVISIONS: Subject matter and scope, Definitions, Regulatory aspects and approvals, Recovery of costs, Confidentiality obligations, Agreements with TSOs not bound by this Network Code

9. Performance indicators

- In line with OS NC and ENTSO-E Incident classification scale
- No new specific issue for BE

Amendments

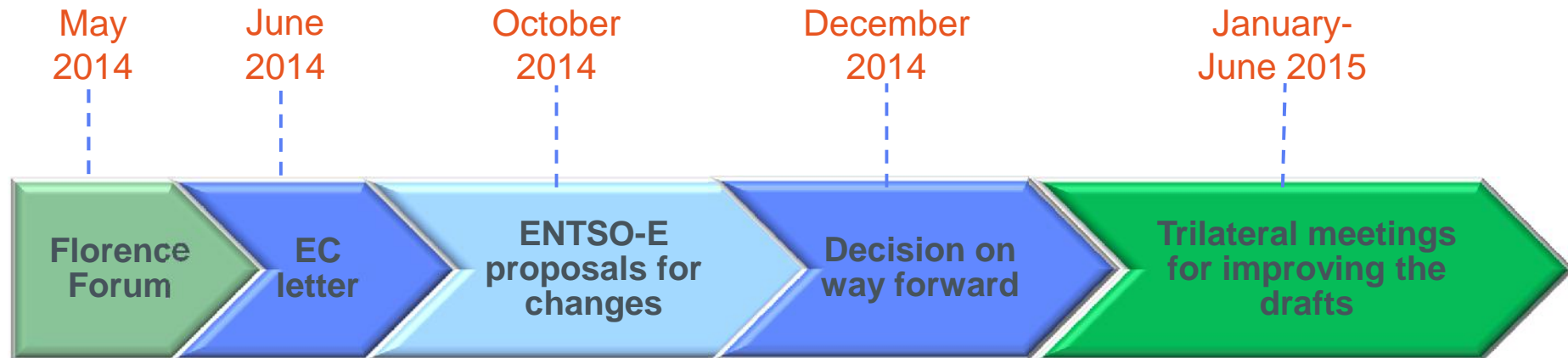
Entry into force

10. Final provisions

- Transversal to each codes.
- No specific issue related to OS

OS and OPS NCs : Next Steps

Developments after ACER's positive opinion



- **May 2014** Florence Forum invited ENTSO-E, ACER and EC to verify whether the System Operation NC can be modified in a way that would allow the adoption as Network Codes
- **June 2014** EC asked ENTSO-E to replace the provisions which refer to future decision making procedures by legally binding rules
- **October 2014** ENTSO-E proposals for the changes with the goal of adoption as Network Codes
- **December 2014** Decision on work plan and way forward
- **January-June 2015** Trilateral meetings for each System Operation Network Code
- **June 2015** ***Texts of the merged Network Codes finalised***
- **September 2015** ***Comitology begins***

Many thanks for your attention!

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