The background is a dark blue globe showing the continents of Europe and Africa. Overlaid on the globe is a complex network of glowing blue lines that represent an electricity grid or data network. The lines are curved and interconnected, with some points appearing as bright blue nodes.

Implementation of electricity network codes / guidelines in the Contracting Parties

Nina Grall-Edler

22nd Athens Forum, 31 May 2017

Starting points

- **All network codes**

1. Connection codes: demand connection _{DC} | requirements for generators _{RfG} | high-voltage direct current _{HVDC}
2. Market Codes: capacity allocation and congestion management _{CACM} | forward capacity allocation _{FCA} [pending on EU level: balancing _{EB}]
3. System Operation Codes: [pending on EU level: system operations _{SO} | emergency restoration _{ER}]

- **Entire provisions**

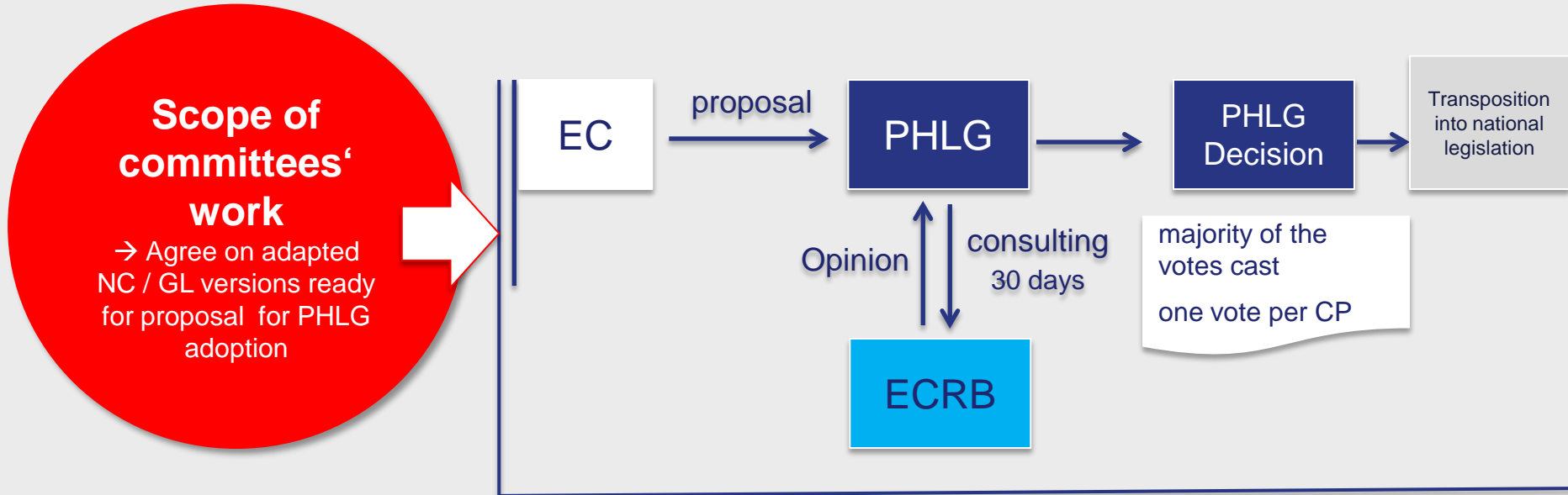
- No omission of Articles
- *But.* step-wise implementation of Articles possible
 - For discussion with TSOs / NRAs

Key questions

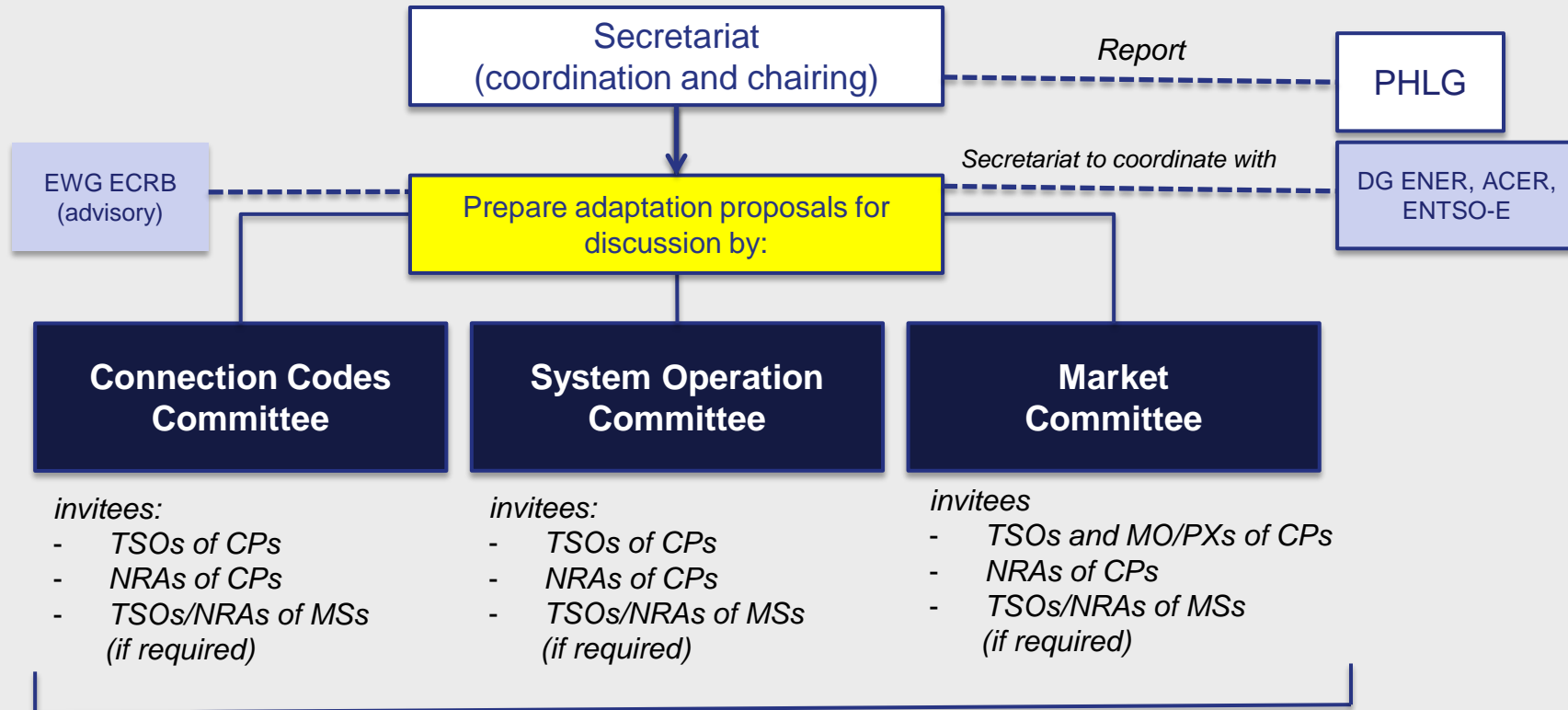
- **Standard adaptations only?**
 - EC → ECS | ACER → ECRB | MS → CP
- **Or are also additional ad-hoc adaptations needed?**
 - E.g. monitoring competences of ACER to remain with ACER for reporting efficiency reasons
 - no duplication of tasks that ACER / ENTSO-E already has based on the EU version of the relevant network code / guideline (e.g. data delivery requirements from ENTSO-E to ACER)
 - no provisions that relate to ACER / ENTSO-E obligations towards the EC
- **Implementation in one or more steps?**
- **Feasible implementation deadlines?**
 - For discussion with TSOs / NRAs
- **Is reciprocity an issue?**
 - Does meaningful implementation require involvement of CP-MS interfaces or is implementation of pure national / CP relevance?

Summary & timeline

NC / GL	Standard adaptations	Reciprocity	Transposition	Timeline (tabling to PHLG)
RfG	✓	✗	<i>in one go</i>	Dec 2017
DC	✓	✗	<i>in one go</i>	Dec 2017
HVDC	✓	✗	<i>in one go</i>	Dec 2017
CACM	✓	✓ ✗	<i>in one go</i>	June 2018
FCA	✓	✓ ✗	<i>in one go</i>	June 2018
EB	□	□	<i>to be assessed</i>	<i>tbc</i>
SO	□	□	<i>to be assessed</i>	<i>tbc</i>
ER	□	□	<i>to be assessed</i>	<i>tbc</i>



Procedures defined by acts of the PHLG and ECRB
Out of scope of the committees' work



All: open for participation by DG ENER, ACER, ENTSO-E

The background is a satellite-style image of the Earth at night, showing city lights. Overlaid on this are numerous glowing blue lines that represent energy transmission or a network, curving across the globe.

Thank you for your attention!

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