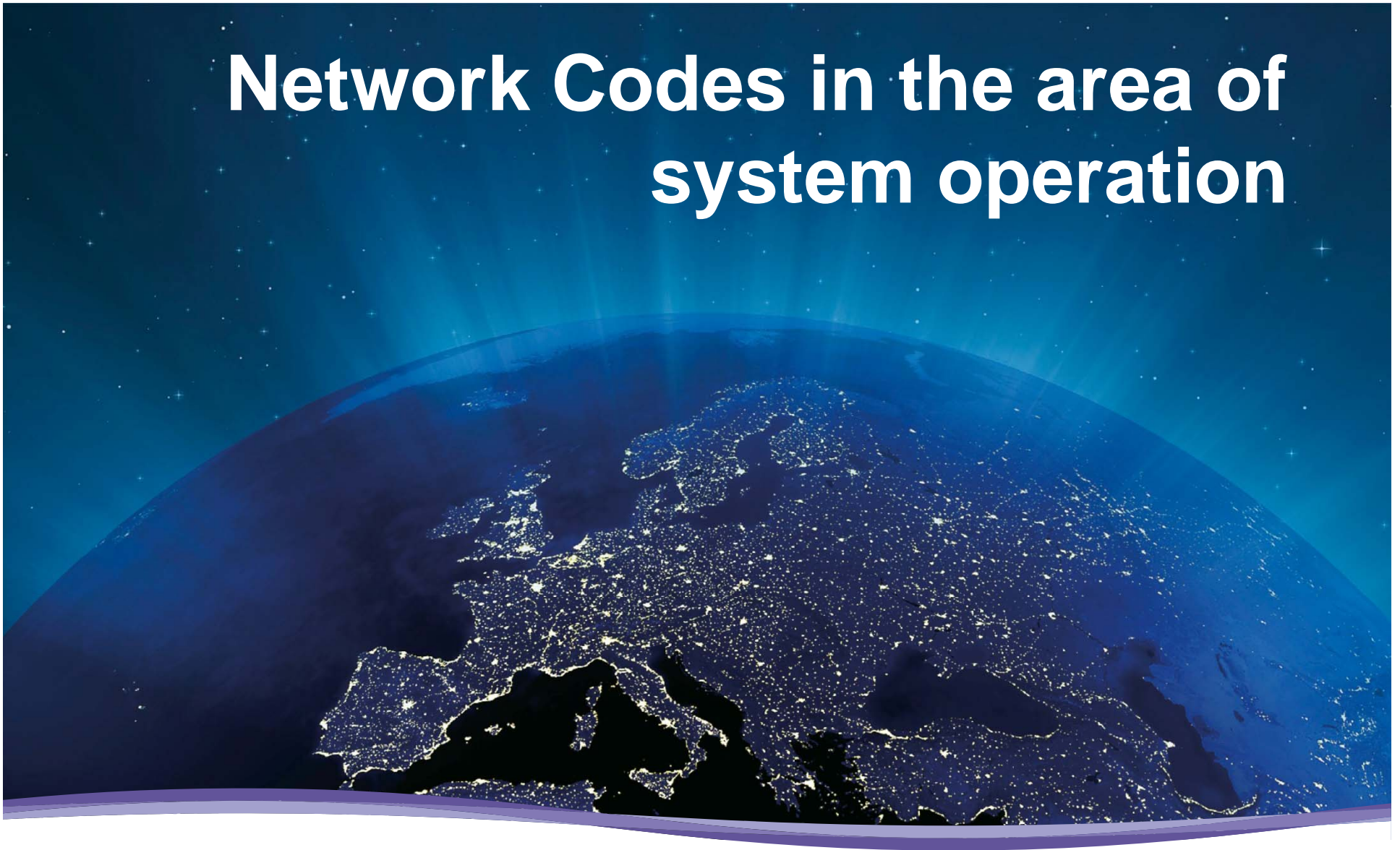


Network Codes in the area of system operation



Florence Forum, 13-14 December 2010

ENTSO-E Context

- ENTSO-E proposed structure of the future network codes related to system operations

Operational security network code

Load frequency control and reserve network code

Operational planning and scheduling network code

Emergency requirements and operational procedures network code

Communication infrastructure network code

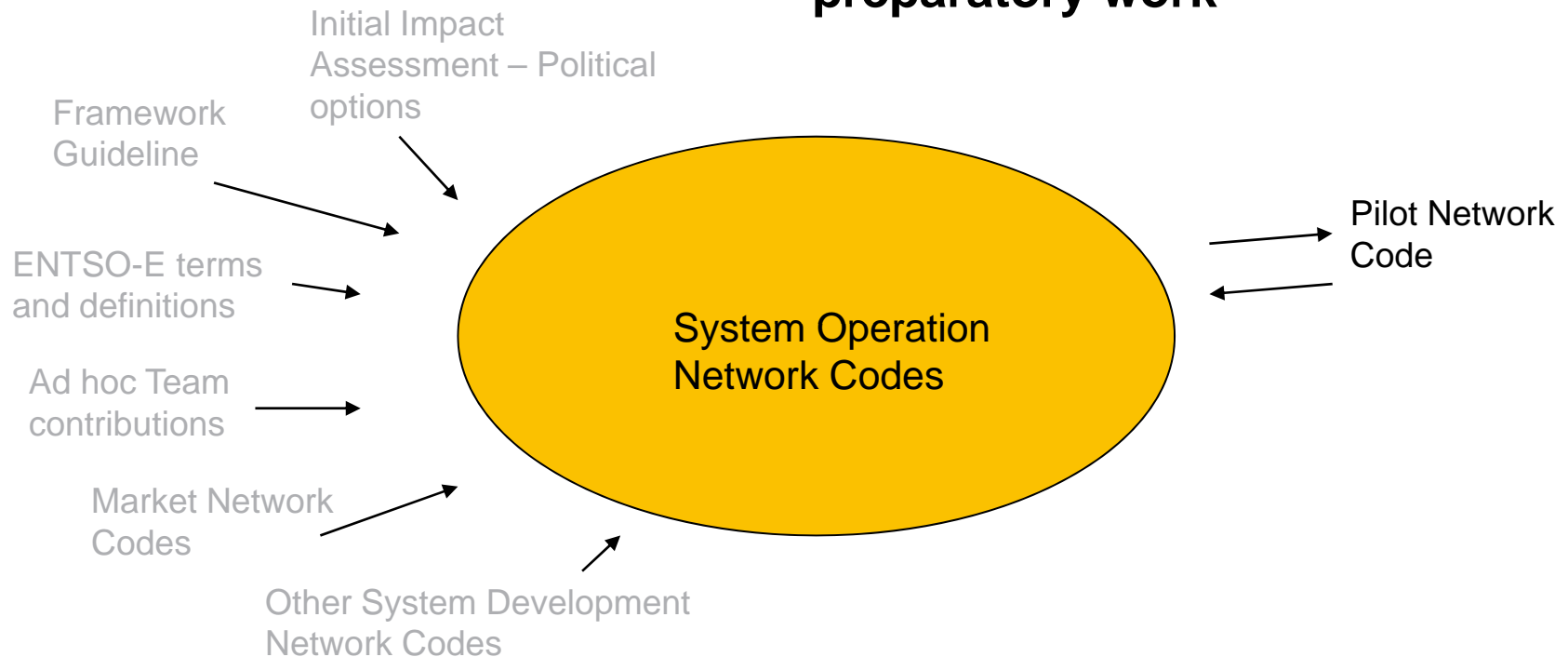
Data exchange network code

- Urgent issues mentioned by ERGEG shall be taken into account also by updating and supplementing the Network Code on operational security

Approach taken

Assumptions are moving targets

Drafting of Network Codes for System Operation is still preparatory work



Shadow = Not yet existing

Criteria for priorities' choice

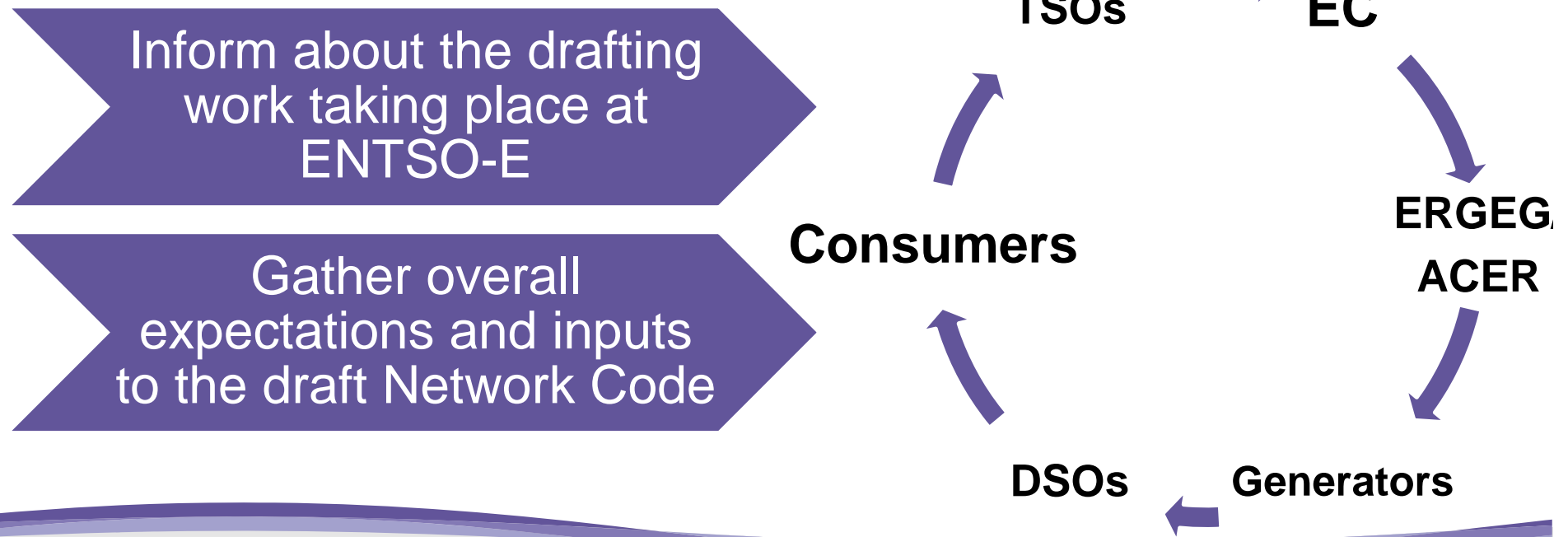
- **Need to address the impact of significant RES increase (not only wind generation but current steep increase of installed PV)**
- **Need for re-examination of the current operational roles and responsibilities (e.g. functional model)**
- **Need to ensure the compatibility with new market developments (e.g. flow-based capacity allocation)**

Lessons learned

- Workshops with stakeholders

Very useful to:

Stakeholders



Conclusions

- **The priorities might need to be adjusted according to IIA and the FG**
- **ENTSO-E continues the preparatory work on Operational Network Codes**
- **Assumptions are changing - further scoping work with ERGEG and EC should continue**