

Day in the life of SOGL (System Operations Guideline)

Topic: Operational Planning (Part 2)

- The webinar will start at 11:05
- Please be aware that this is a recorded webinar and will be available to all for download and viewing offline.
- Please also be advised to put your phones on mute upon dialling in.
- There will be an opportunity to ask questions at the end of this session

Day in the life of SOGL

Operational Planning (Part 2)

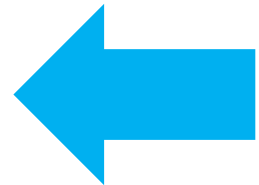


28th June, WebEx
Francis Dike

Operational Planning Topics

- **Introduction**
- What is Operational Planning?
- Operation planning Review (**Data for Operational Security, Operational security analysis and Outage coordination**)
- **Adequacy Assessment**
- Overview: Regional and Control Adequacy Assessment
- Control Area Adequacy
- Regional Adequacy
- Regional and Control Adequacy Assessment Key activities
- High level Regional Adequacy process
- Impact on Stakeholders
- **Ancillary Services**
- Overview: Ancillary Services
- Coordination of active power and reactive power services
- Monitoring of reactive power services
- Impact on Stakeholders
- **Operational Planning and Data Environment (OPDE)**
- Overview: OPDE
- Next Steps
- Impact on Stakeholders

System Operation Guideline (SOGL)



What is Operational Planning?

Definition

Operational planning introduces common operational planning activities to facilitate the exchange of information between transmission system operators and regional security coordinators, given the increased importance of regional issues on system security.

Section

This section of SOGL is covered from Article 64 – Article 117 and has been broken down into a number of key areas

Operational Planning – Previously.....

Data for operational
security

Operational Security
Analysis

Outage Coordination

Click here

Operational Planning – Key Areas

Adequacy

- TSOs to perform control area adequacy analysis to ensure sum of generation within control area and import capabilities meet total load

Ancillary Services

- Coordination of ancillary services where appropriate and secure ancillary services in an efficient and economic way

Operational Planning and Data Environment (OPDE)

- The development of operational platform for storage, exchange and management of data between TSO-TSO and TSO-RSC over a dedicated network

Adequacy Assessment



Overview: Regional and Control Adequacy Assessment

Compliance

- Adequacy assessment is covered in **Article(s) 81 of SOGL** and **104 – 107 of SOGL** and cover both regional and control area adequacy assessment respectively

Control Area Adequacy

Assesses the possibility of the sum of generation and import capabilities meeting the total load

$$\text{Sum(Generation, Import Capabilities, Demand Response, renewable generation)} \\ = \text{Demand/Load}$$

Regional Adequacy

- Assesses the lack of adequacy at a regional level or control area taking into account cross border exchanges and operational security limit (SOGL Article

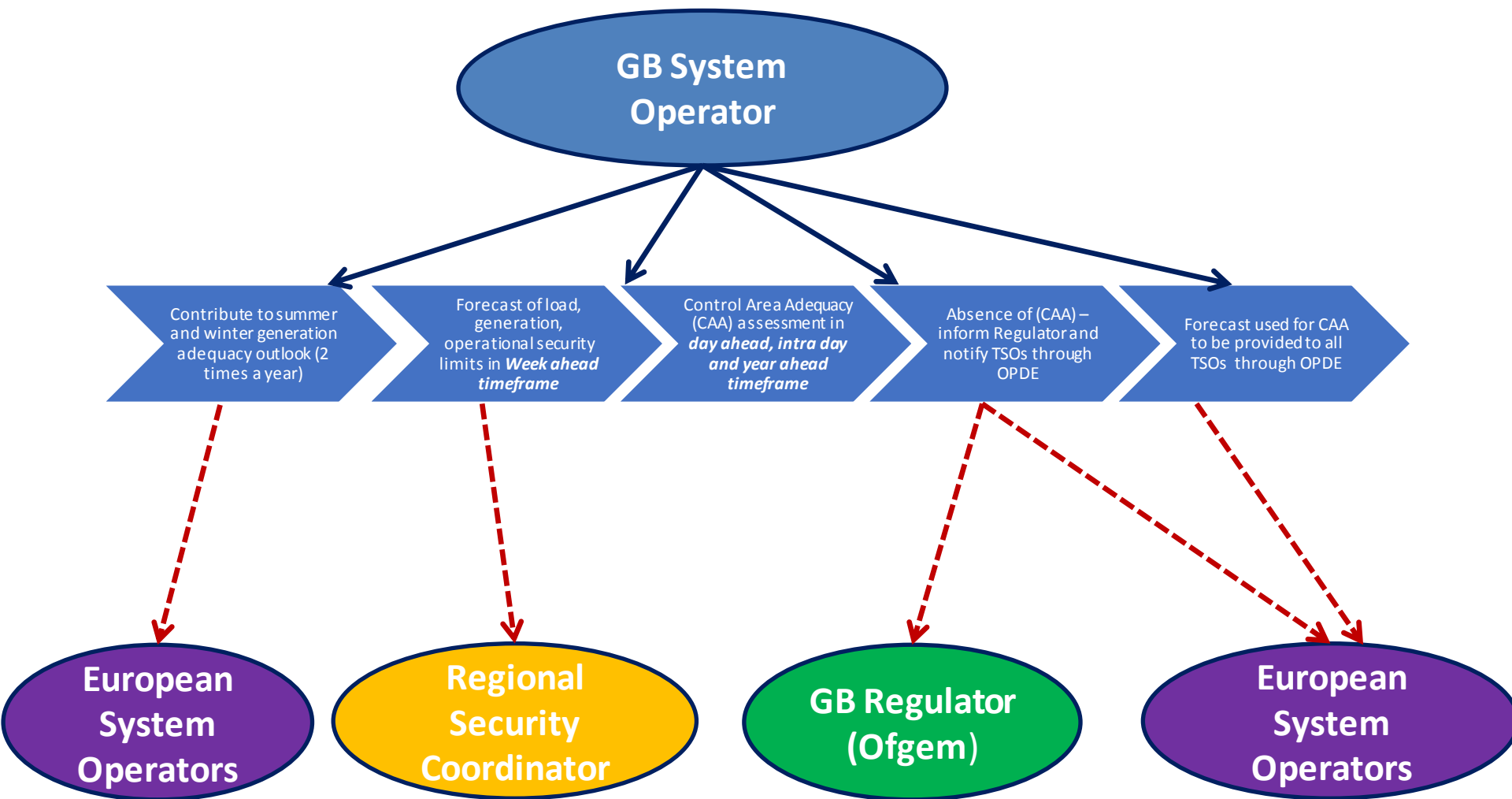
Control Area Adequacy



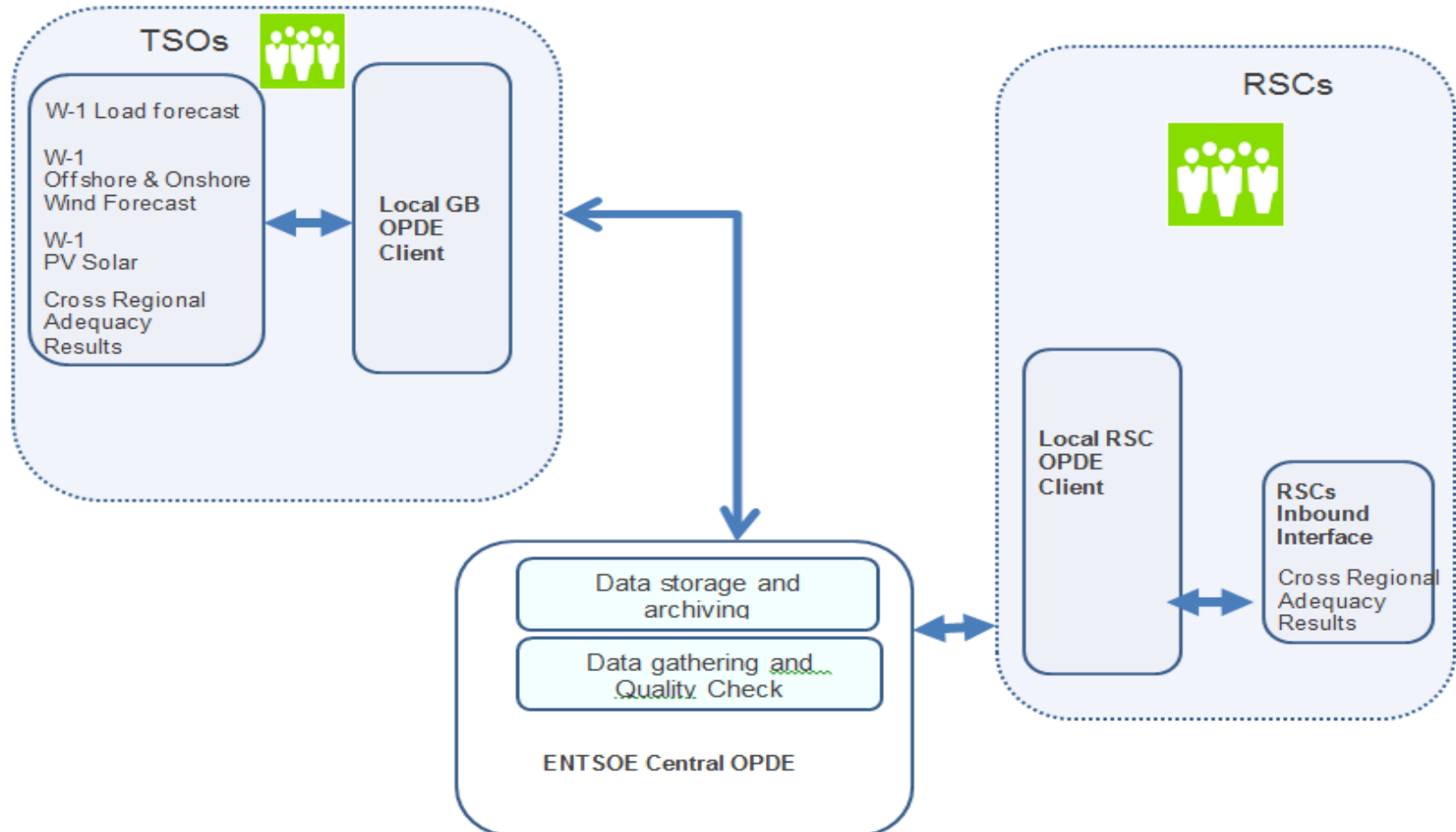
Regional Adequacy



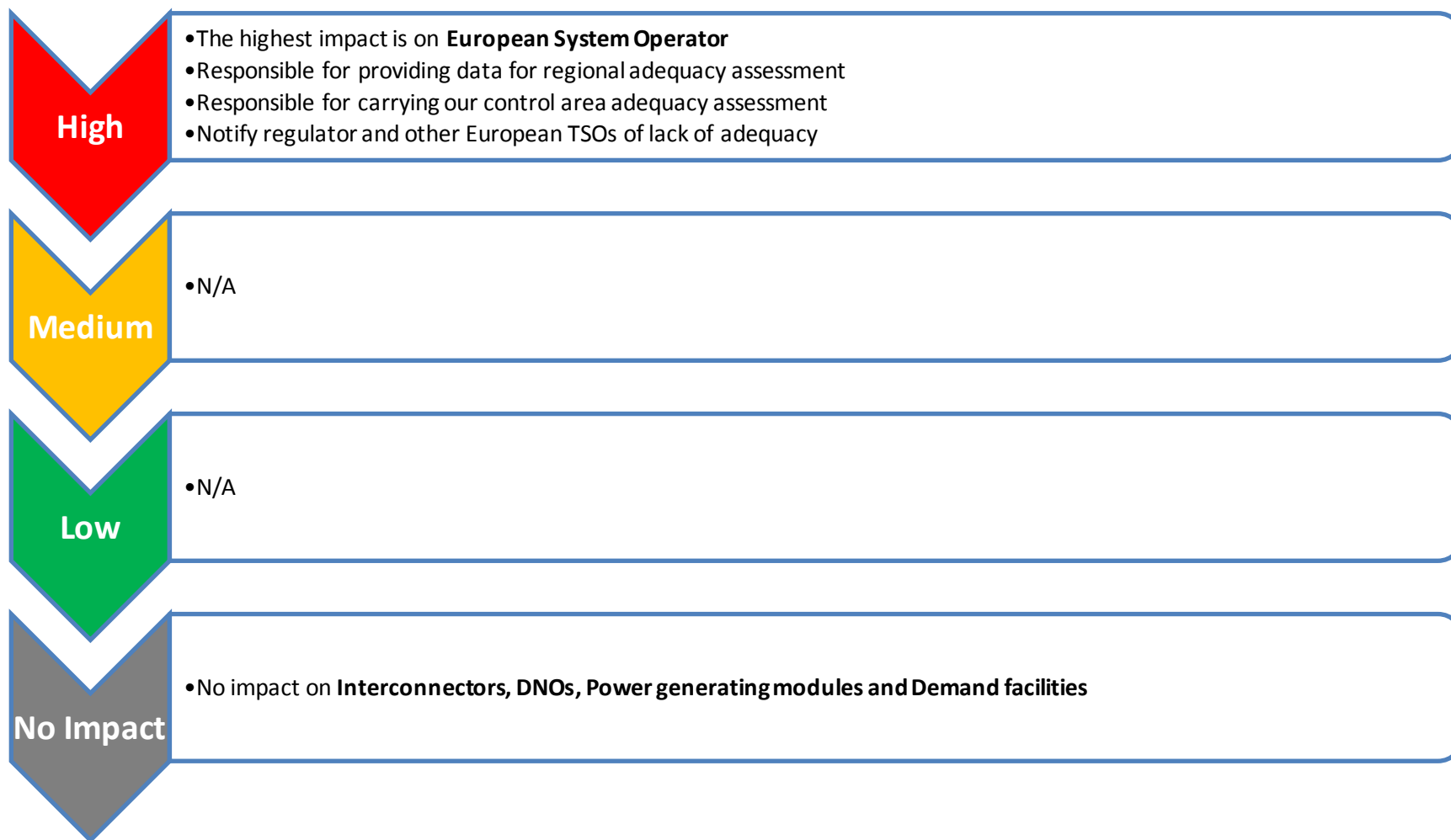
Regional and Control Adequacy Key Activities



High level TSO-RSC regional adequacy process

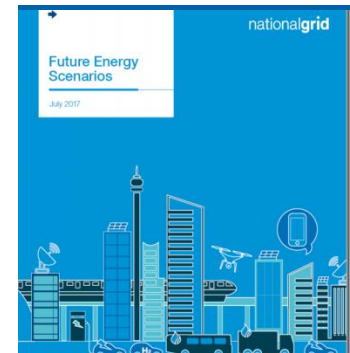
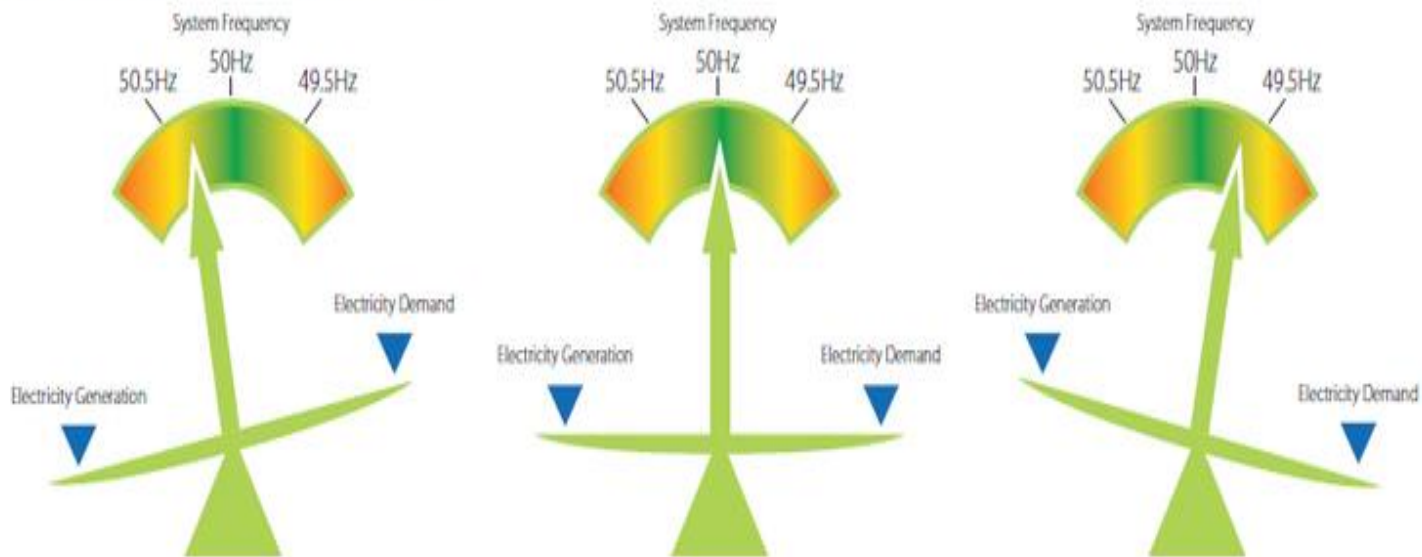


Impact on Stakeholders



Ancillary Services

Supply and Demand Balancing



Overview: Ancillary Services

Definition

Each TSO is required to monitor the availability of both its active and reactive power ancillary services to ensure that they are sufficient to maintain the operational security of the transmission system.

Section


This section of SOGL is covered from Article 108 – Article 109

Coordination of active power and reactive power services

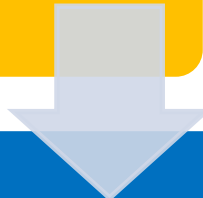


Monitoring of reactive power services

Each TSOs is required to monitor reactive power capacities of power generating facilities, transmission connected demand or equipment providing reactive services and DSOs

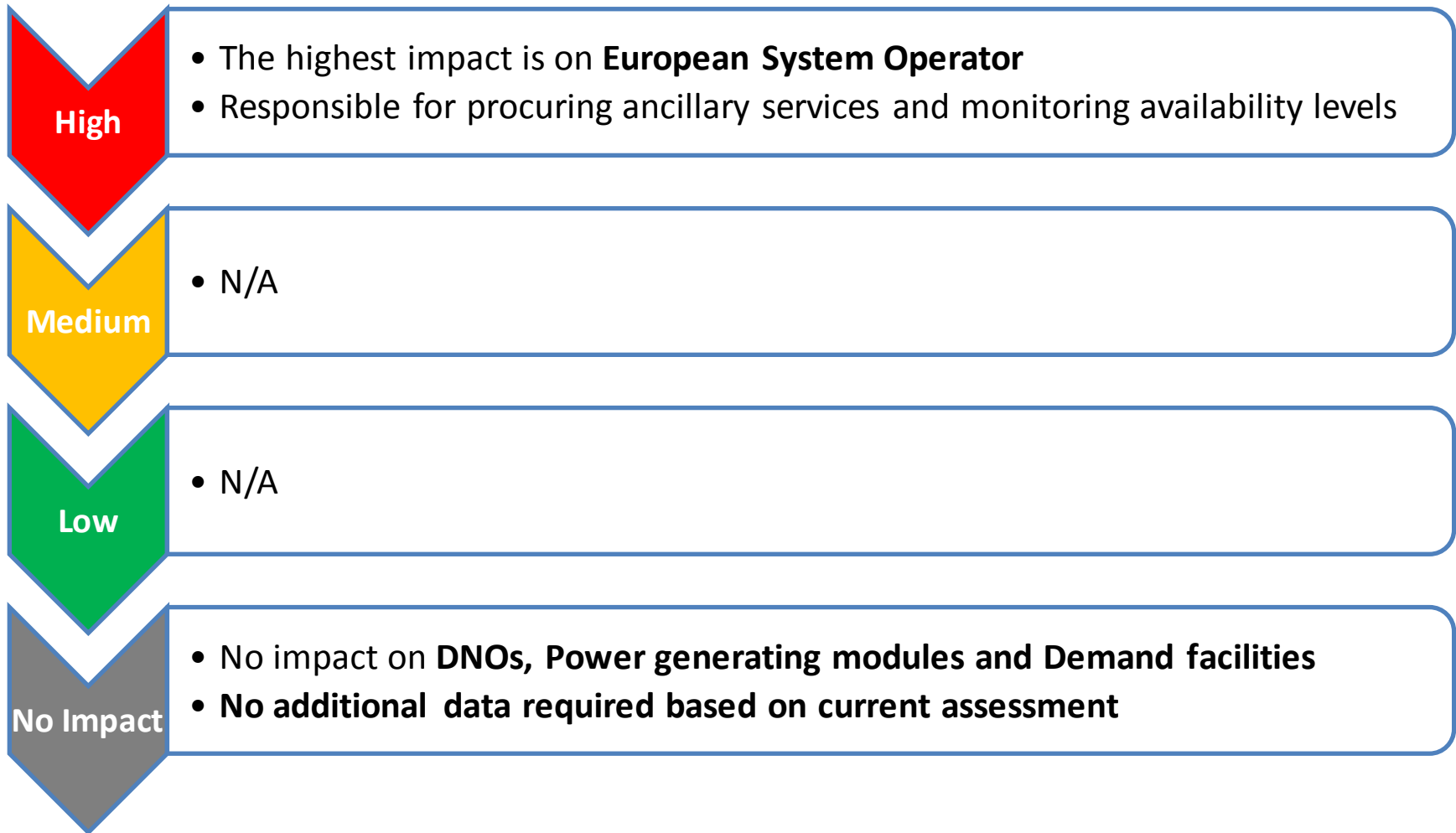


Assess its reactive power ancillary services against its forecast of what is sufficient to maintain operational security for each planning time frame



Inform neighbouring TSOs and prepare remedial actions in line with Article 23 SOGL when reactive services are insufficient for operational security

Impact on Stakeholders

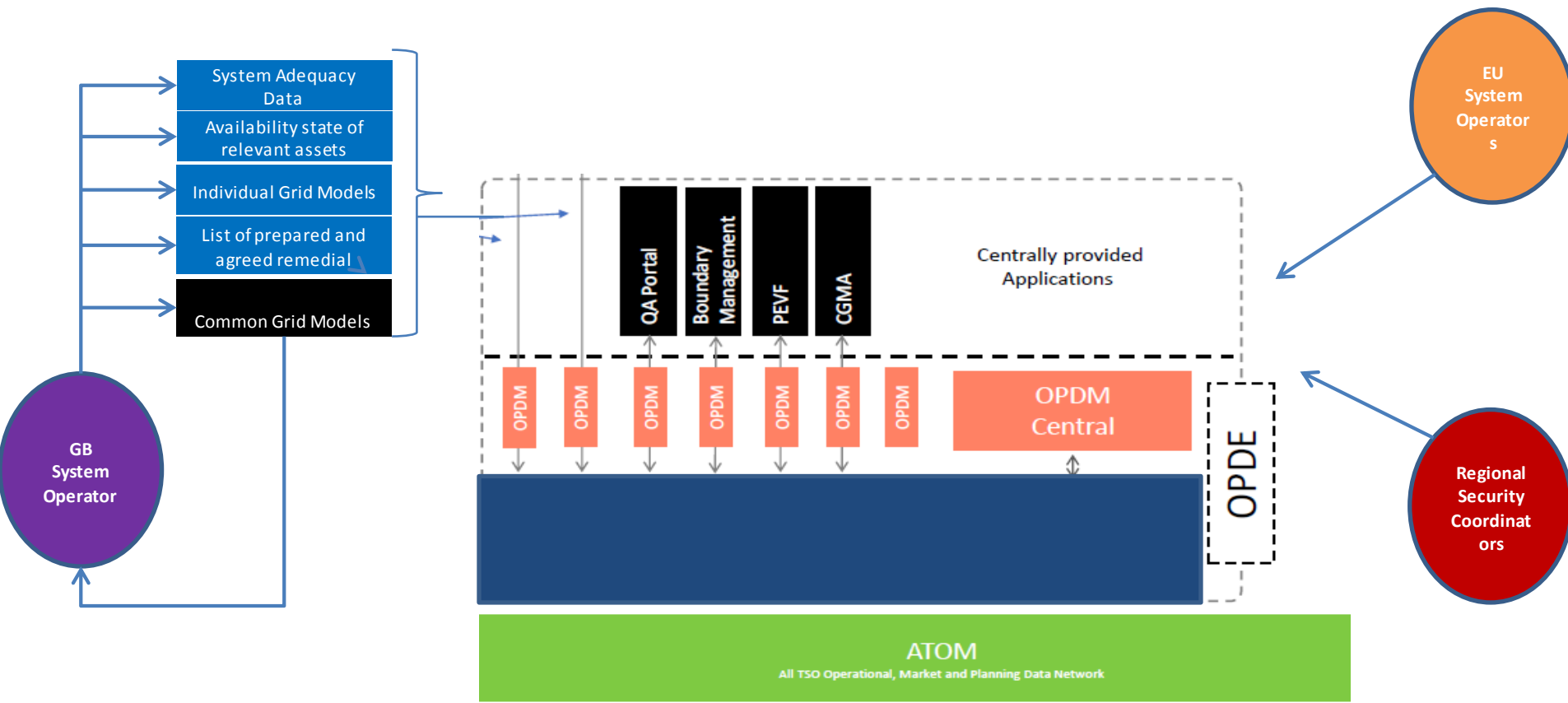


Operational Planning and Data Environment (OPDE)



Overview: Operational Planning and Data Environment (OPDE)

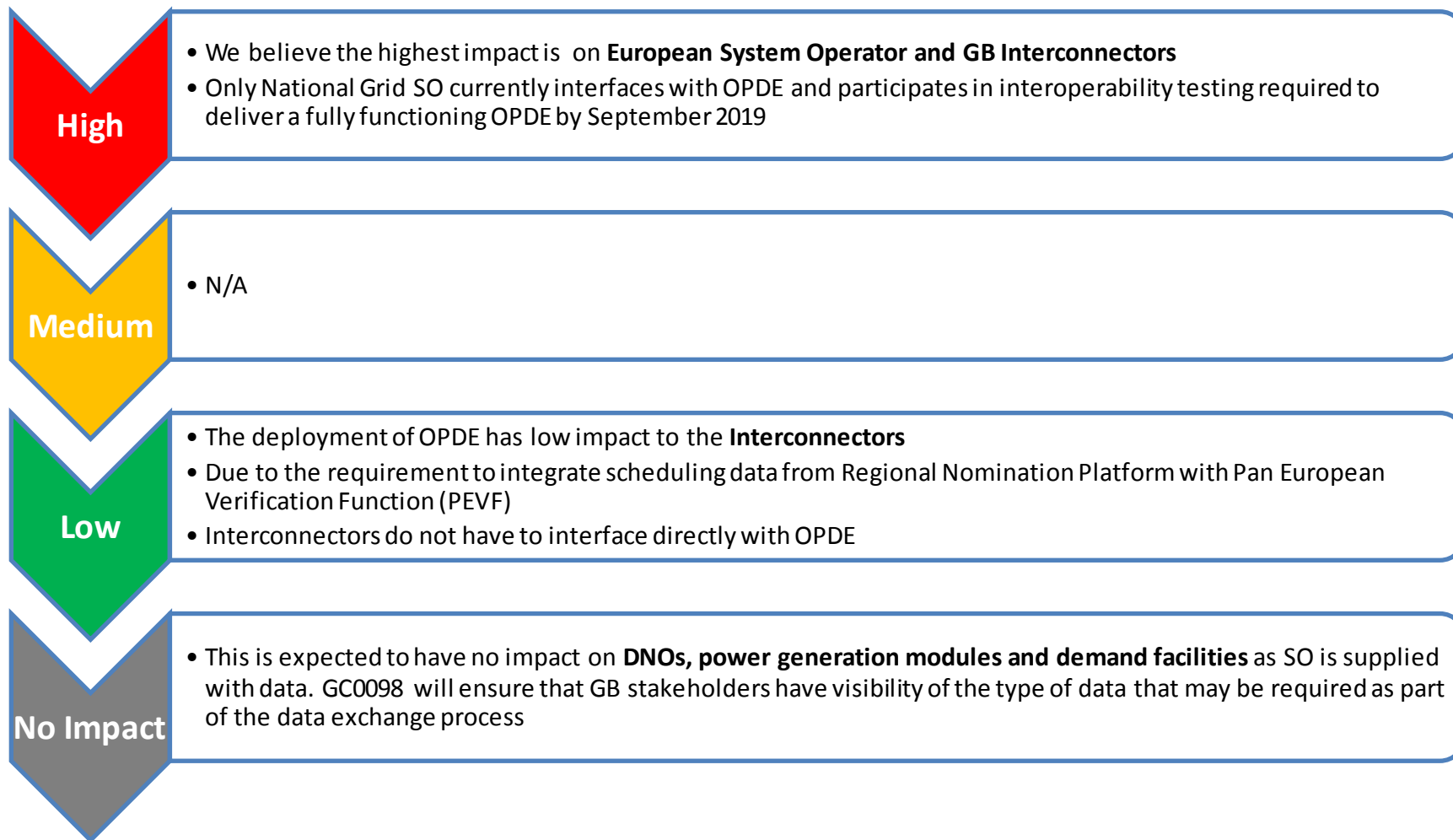
OPDE is a data environment is a platform for storage, exchange and management of information made available to all Transmission System Operators who are members of ENTSOe and all RSCs



Next steps...

- **OPDE is expected to be fully implemented in line with Article 114 of the SO Guidelines by September 2019**
- **Development of private and secure network called ATOM for the transfer of data to OPDE**
- **Implementation of a security plan to ensure data is handled securely**

Impact on Stakeholders



Questions...



Please spend a few minutes to answer the short survey on your screen

Engagement schedule

Day in the life of SOGL Introduction (Webinar) - Click [here](#)

Frequency Control (Webinar) – Click [here](#)

Operational Planning Part 1 (Webinar)- Click [here](#)

Operational Security (Webinar)- Click [here](#)

Operational Planning Part 2 (Webinar)- TBC

SOGL Day Event –[date to be confirmed] (London)

- Invitations for the above events will be sent out via the JESG newsletter
- **Have we missed anything you would like to see covered?**

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