

# Winter Outlooks 2019/2020

European Network of Transmission System Operators  
for Electricity (ENTSO-E)

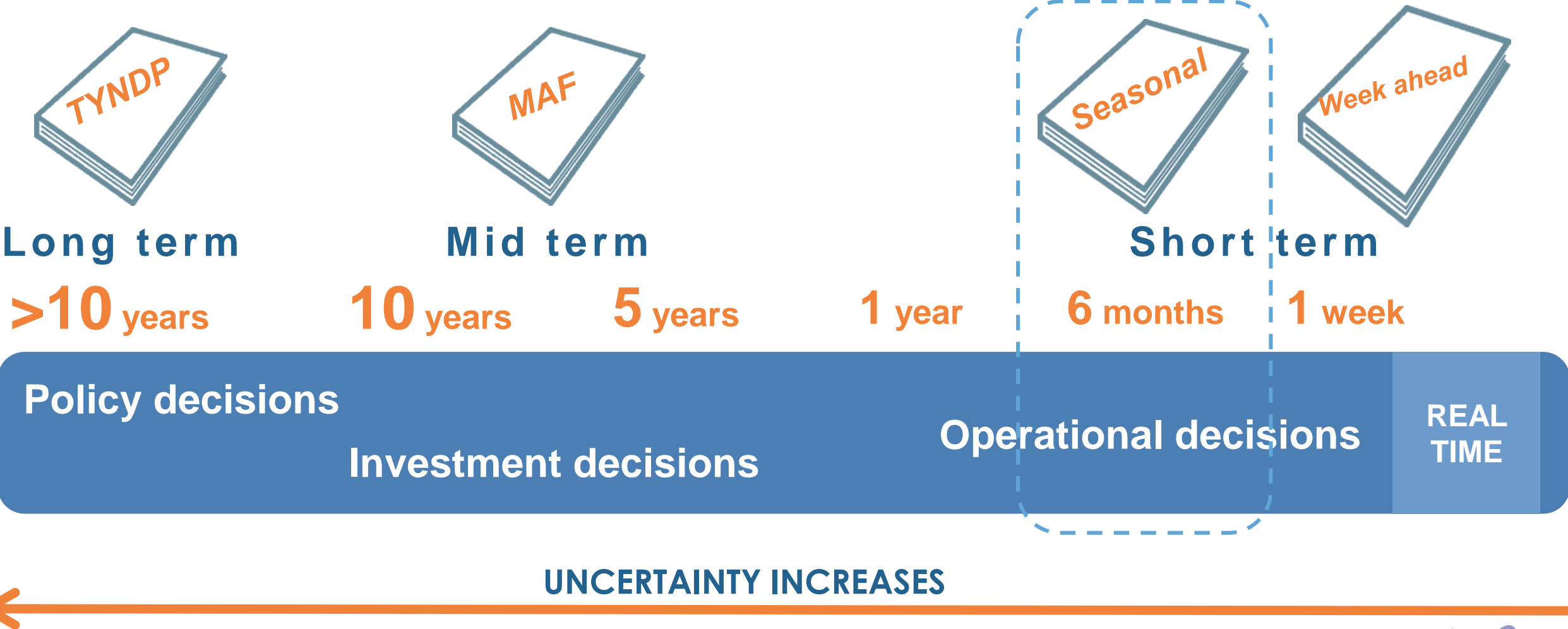
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# Programme

- 1 Introduction**
- 2 Winter Outlook Methodology and Results**
- 3 Conclusions and next steps**

# Different risks addressed with different timeframes



# What do the outlooks tell us?



Role of interconnections and exchanges at European level



Influence of external factors: weather, unplanned outages...



Stress test analysis: look for very severe case scenario (1 out of 20 years) & see how system reacts



Review of the previous season for a deeper understanding and improvements

# Seasonal Outlooks—Stepwise approach

Inputs from TSOs and Pan-European databases



European constraining scenarios

synchronous peak  
(upward) → Wednesdays 7 PM

low demand with high RES  
(downward) → Sundays 5 AM and 11 AM



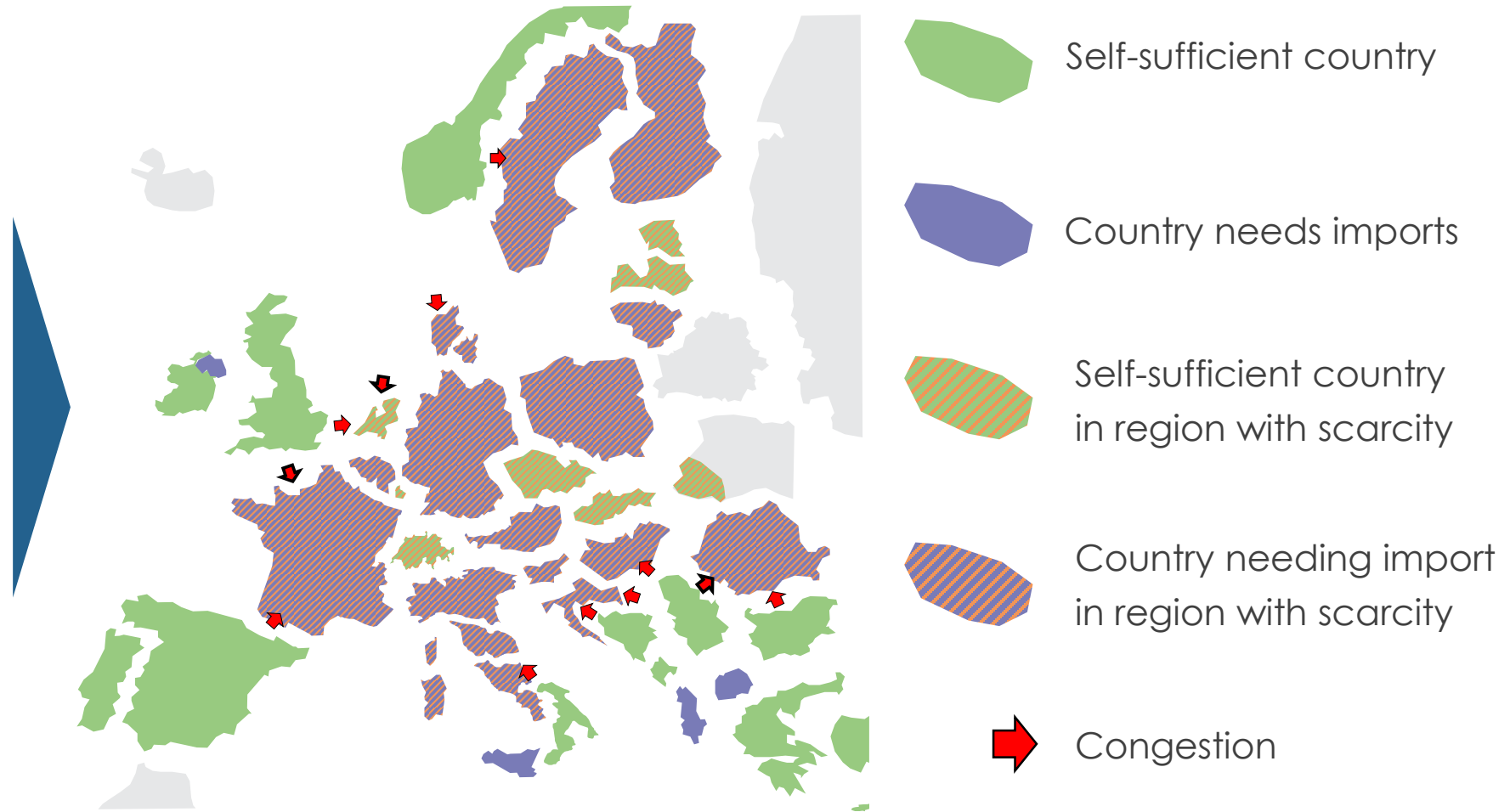
Focused analysis on weeks flagged at risk

Probabilistic approach using  
numerous situations  
(temperature, wind...)

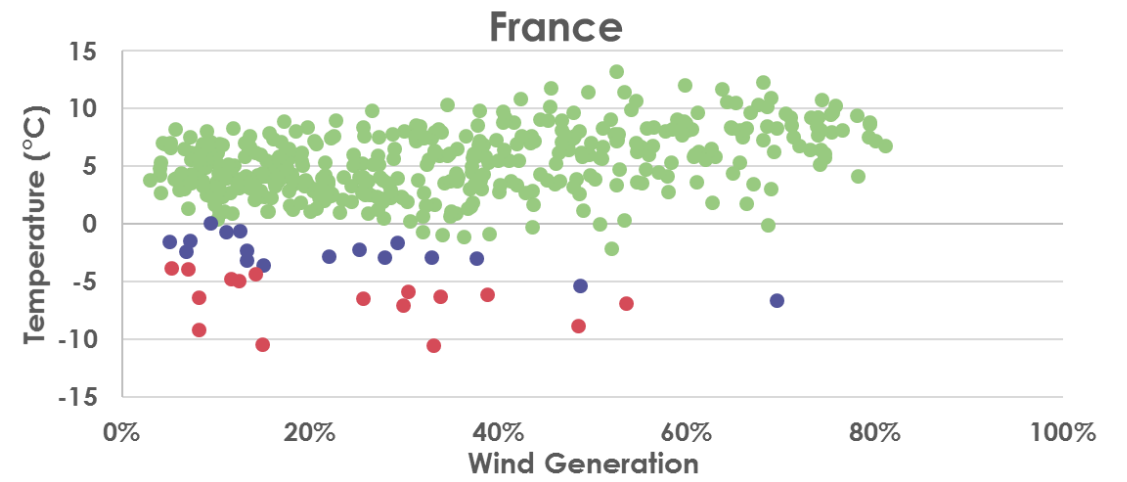
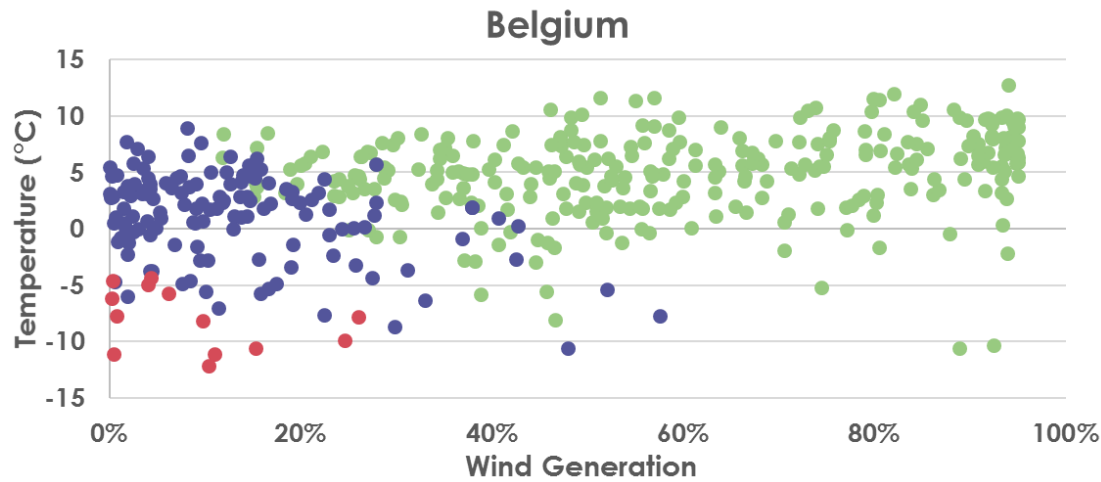
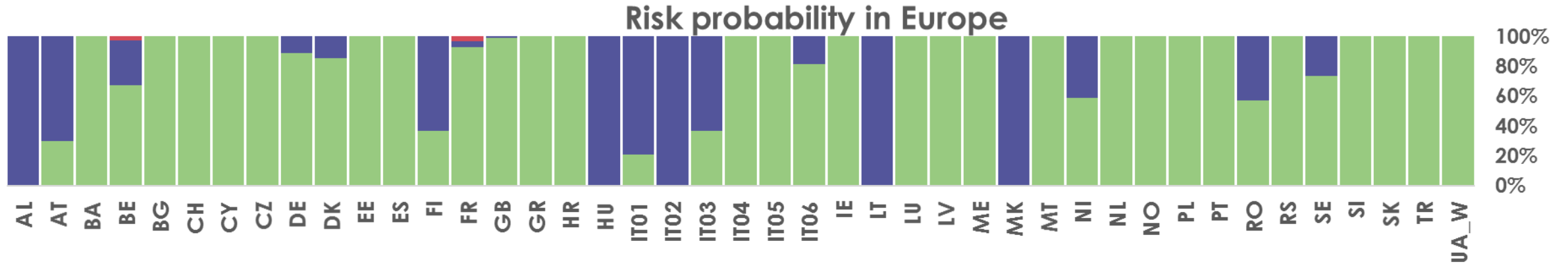
Aim is to estimate the  
probability that an issue could  
occur

Main drivers are identified

# Stress test—Adequacy under Severe Conditions (weeks 2–3)

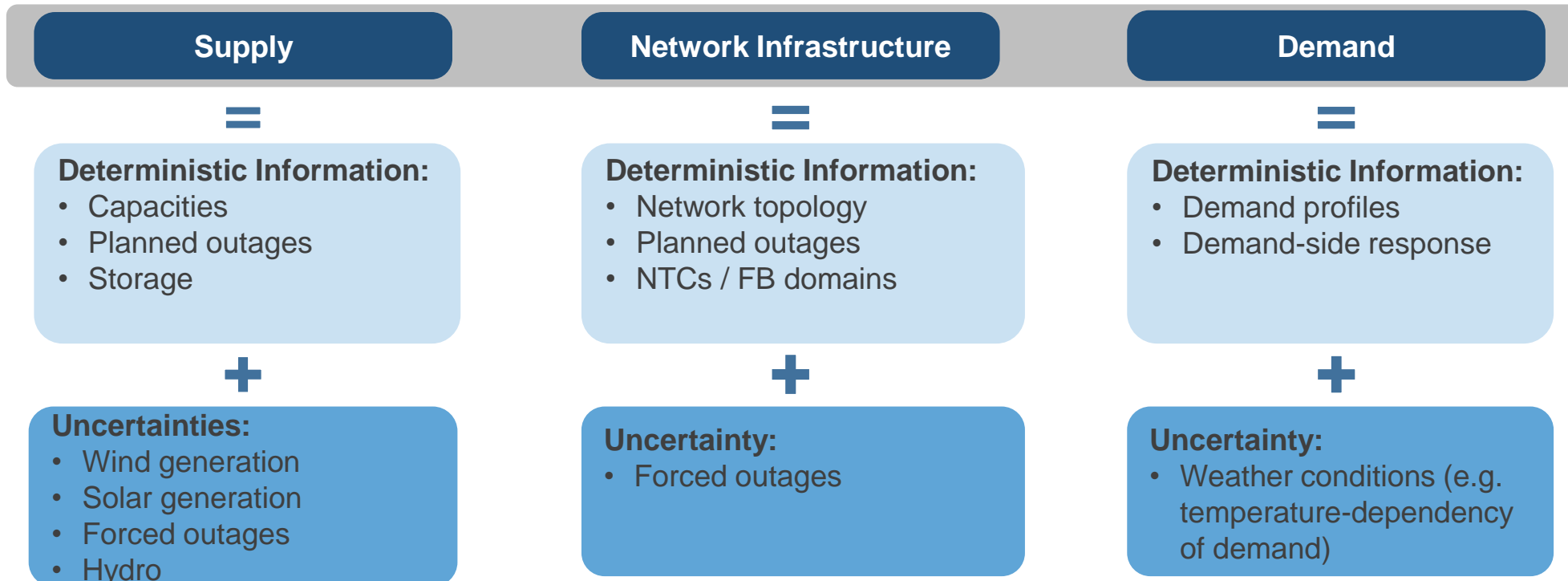
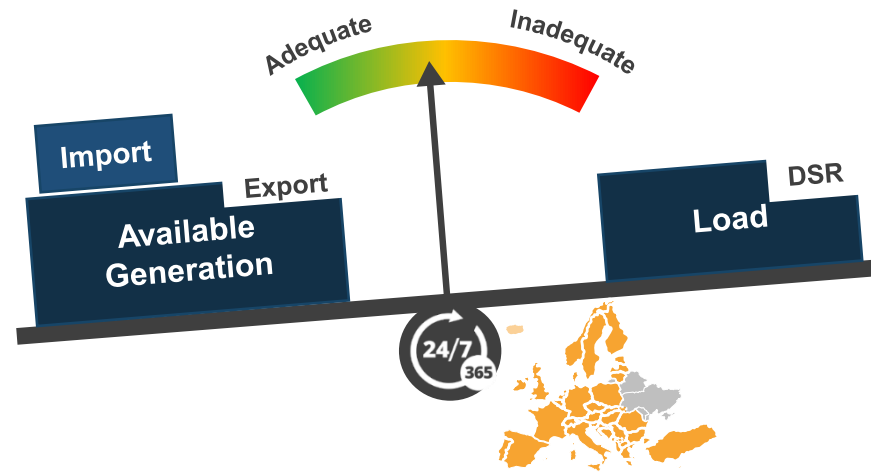


# Winter Outlook—week 3, 2020



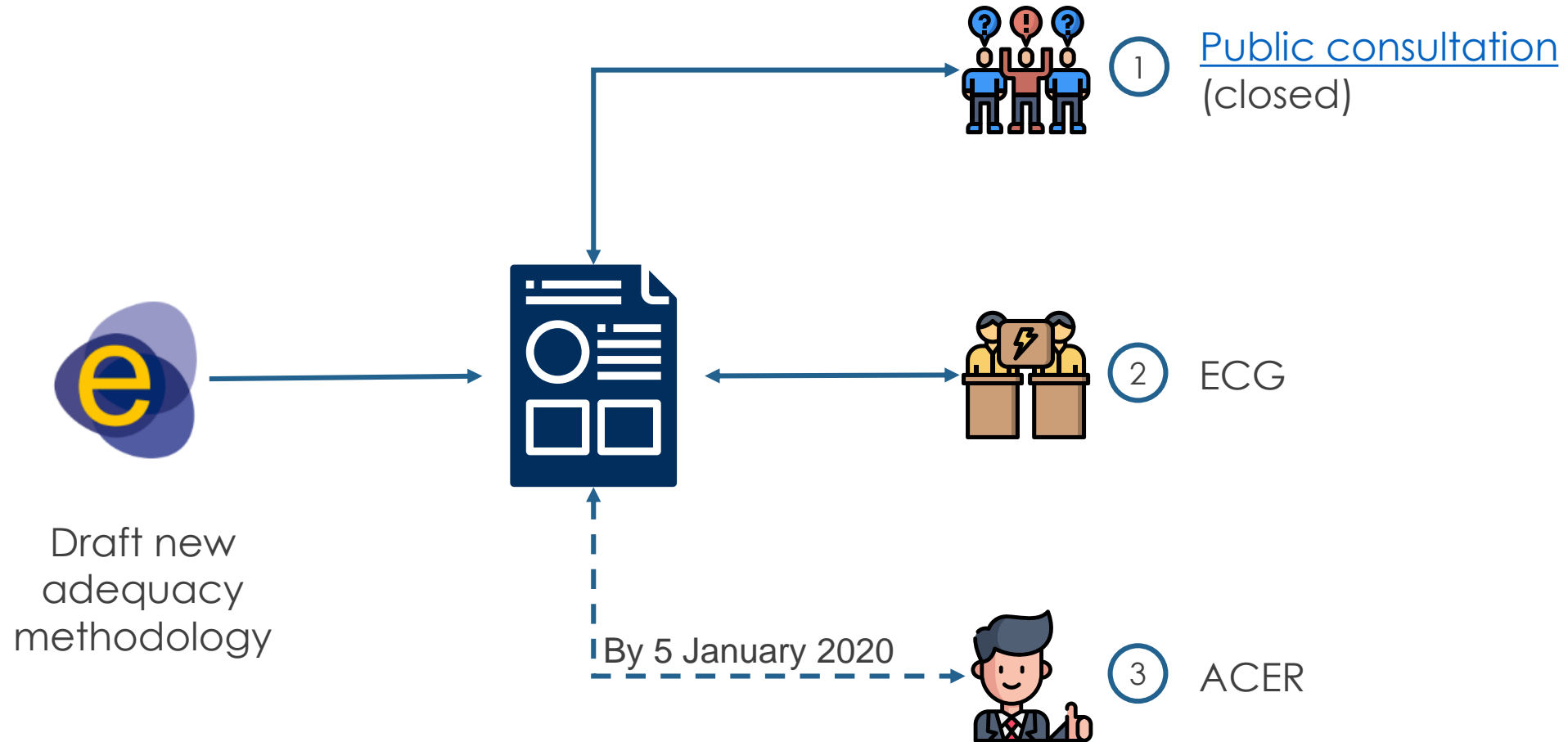
■ No need to import    
 ■ No deficit after import    
 ■ Deficit after imports

# Seasonal Adequacy – Going probabilistic (parallel runs)





# Methodology Revision and Submission



**ENTSOs seasonal outlooks are unique pan-European,  
system wide, security of supply analysis**

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**Methodologies are continuously improving and  
cooperation is enhancing**

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**Adequacy assessed in:  
Electricity system under severe conditions**

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**Adequacy situation: close monitoring needed in case  
of cold spell in January–February**

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## Take-aways

**Thank you for your attention**

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