

EUROPEAN  
ENERGY  
FORUM



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EUROPÉEN  
DE L'ÉNERGIE





# 10 years of achievements after the 3rd Package

Joachim Vanzetta  
Board Chair ENTSO-E

EEF Dinner 17 September 2019 Strasbourg

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# Who we are

- 43 TSOs in 36 countries
- 500 million citizens served
- 480 000 kilometers of power lines
- 467 000 GWh of electricity exchanges in 2018



# What we do

## Enabling the European energy transition through:

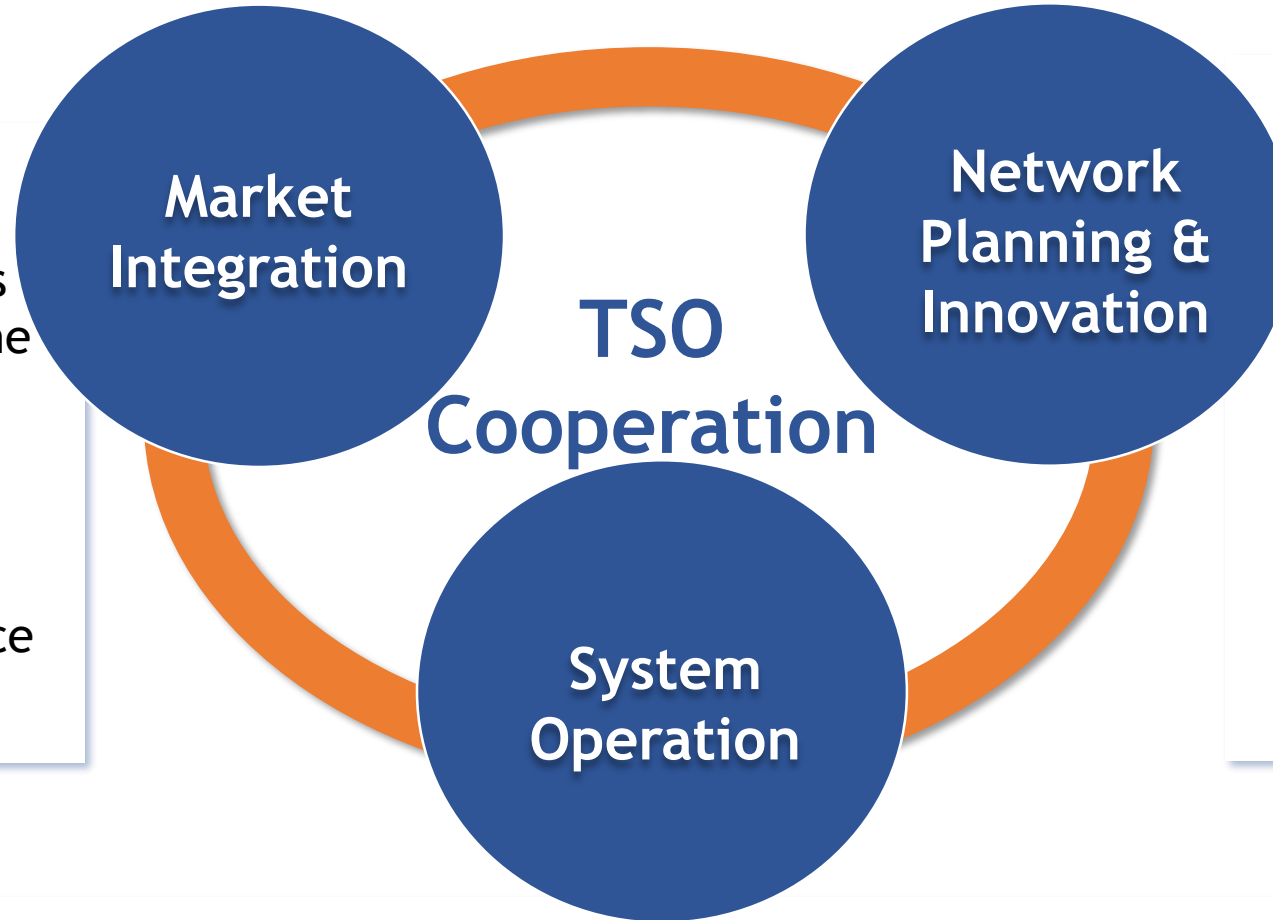
- European long term grid planning
- European security analysis
- Technical/market rules
- European platforms
- Standardisation & research
- Regional & global cooperation





# What TSOs do for Europe

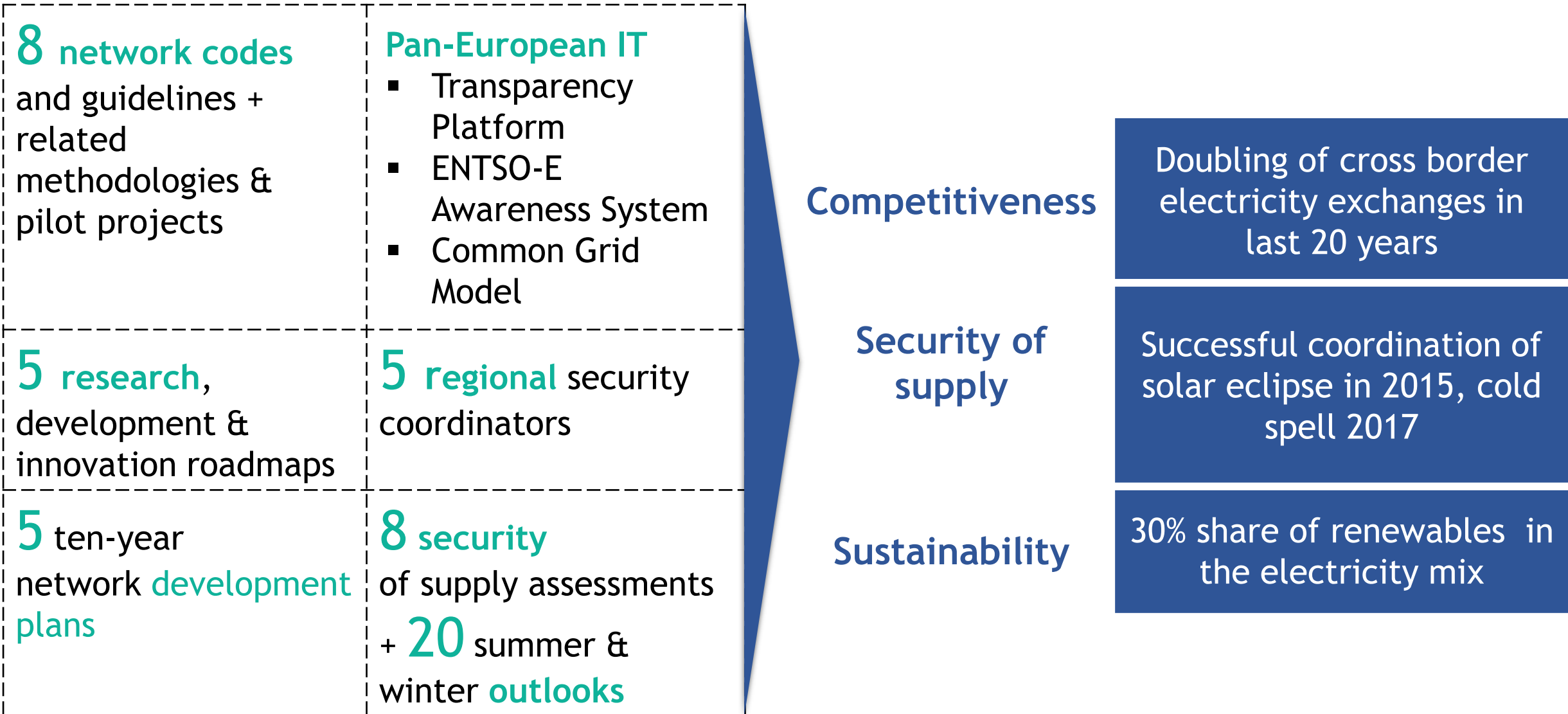
- TSOs drive Market Integration
- TSOs engage in numerous Initiatives to integrate the Market
- TSO initiatives foster Increased Cross-Border Trade
- TSO initiatives foster Price Convergence



- TSO Coordinated Planning generates Welfare Gains
- TSOs actively engage in Innovation/New technologies
- TSOs couple Distant Markets
- TSO Measures to foster Acceptance

- TSOs anticipated need for cooperation
- TSOs efficiently responded to new challenges
- TSO Regional Cooperation is a Success Story
- Despite of new challenges Maintenance of high level of security of supply

# 10 years of achievements for European customers



# TSOs' regional coordination in markets

## Voluntary cooperation



1990s – NORD POOL



2006



2011



FEBRUARY 2014



MAY 2014

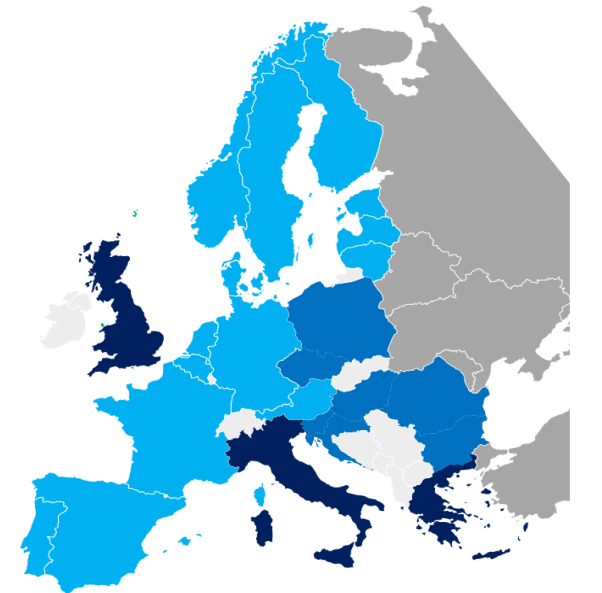
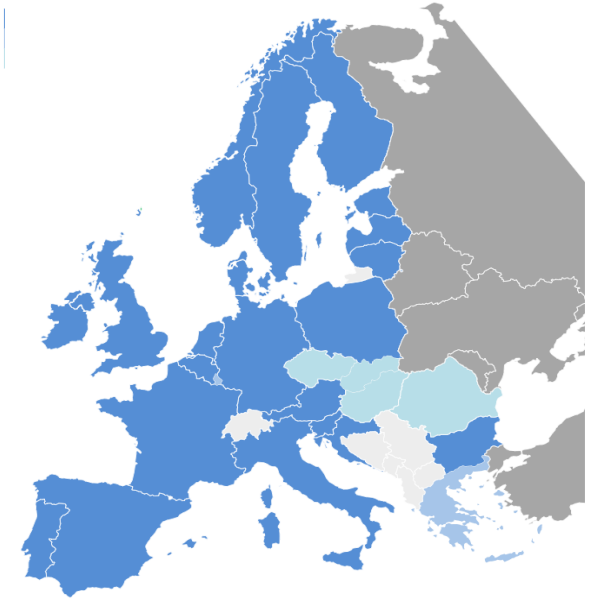


FEBRUARY 2015

Single Day Ahead  
Coupling

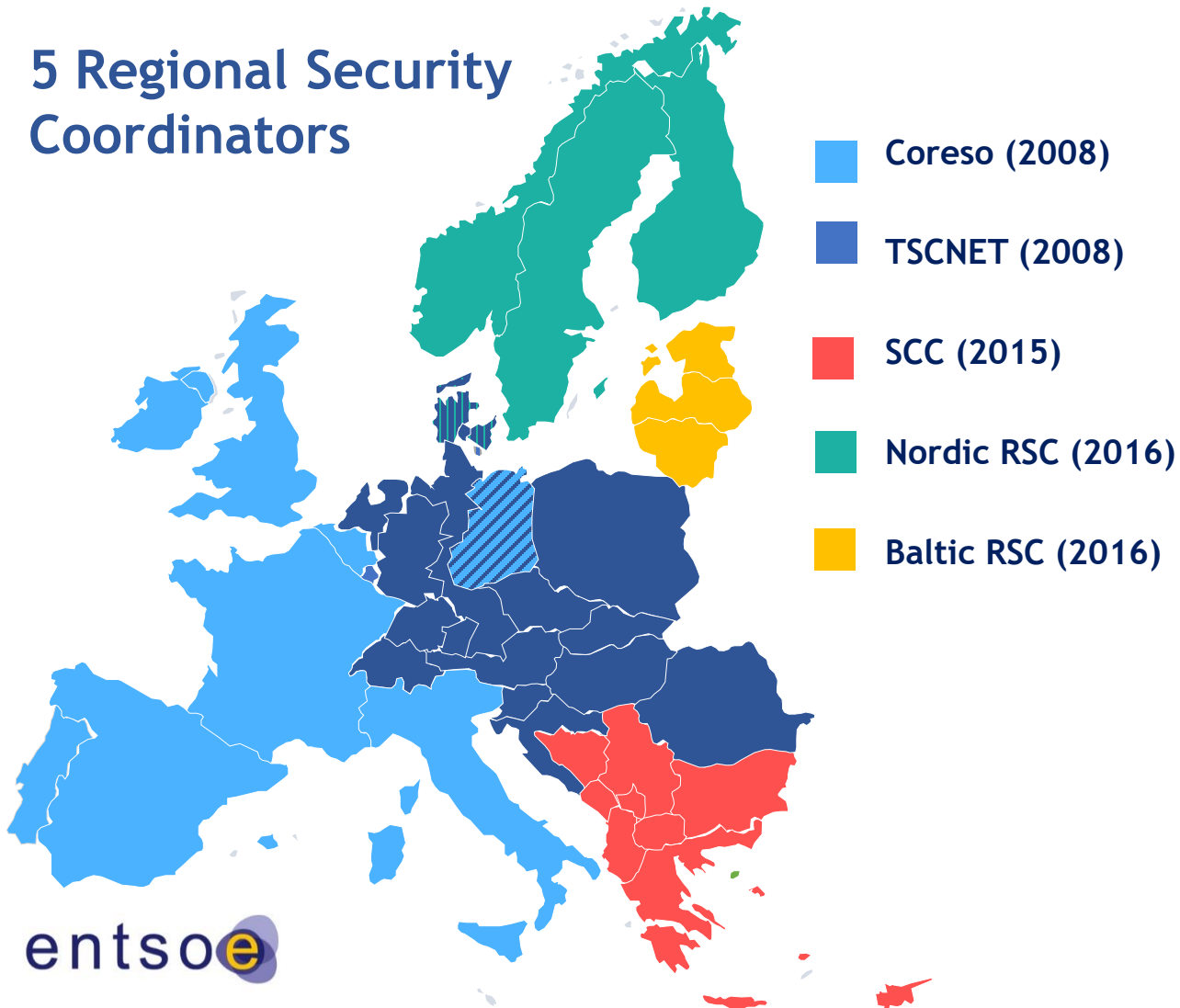
Single Intraday  
Coupling

Multi Regional Coupling

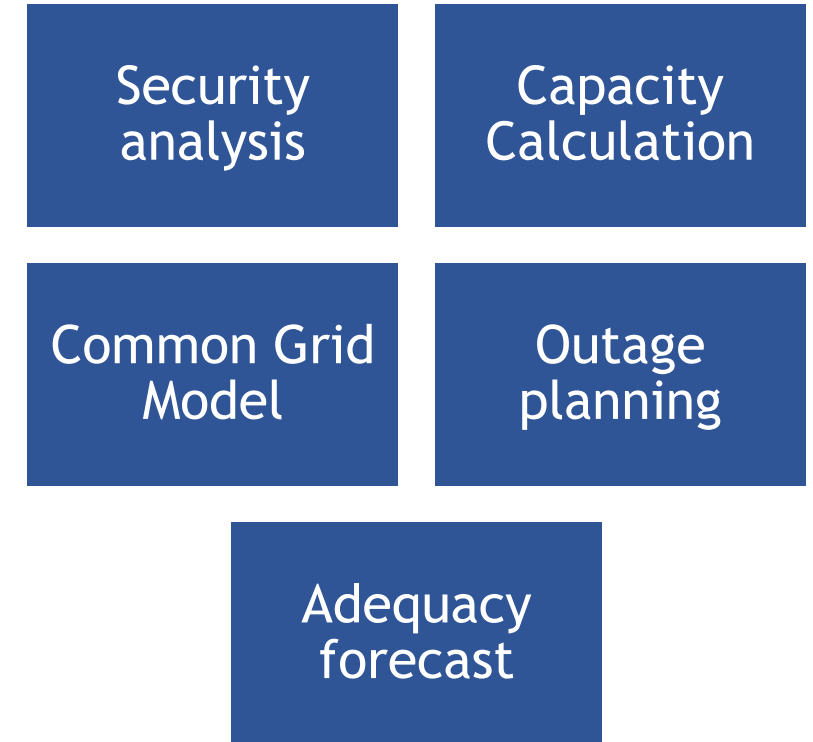


# TSOs' regional coordination in operations

## 5 Regional Security Coordinators



## 5 coordinated services





# TSOs cooperate in grid planning for the benefit of society




# TSOs invest in research & innovation



**"Crossbow"**

CROSS BOrder management of variable renewable energies and storage units enabling a transnational Wholesale market


[Learn More](#)



**EUSYSFLEX**

European system with an efficient coordinated use of flexibilities for the integration of a large share of RES


[Learn More](#)



**FLEXITRANSTORE**

An Integrated Platform for Increased FLEXibility in smart TRANSmision grids with STORage Entities and large penetration of Renewable Energy Sources

[Learn More](#)



**TDX-ASSIST**

Design and develop novel Information and Communication Technology tools and techniques that facilitate scalable and secure information systems and data exchange between TSO and DSO.


[Learn More](#)



**Intensys4EU**

The INTENSYS4EU (INtegrated ENergy SYstem, a pathway for EUrope) project is a coordination and support Action group supported by the European Commission's Horizon 2020 programme

[Learn More](#)



**Osmose**

OSMOSE is preparing the necessary flexibilities for the electricity system of tomorrow.

[Learn More](#)



**INNOGRID2020+**  
the innovative power conference

May 13-14 2019 • Brussels

**Connecting physics and digits:  
Power Platforms on the rise**



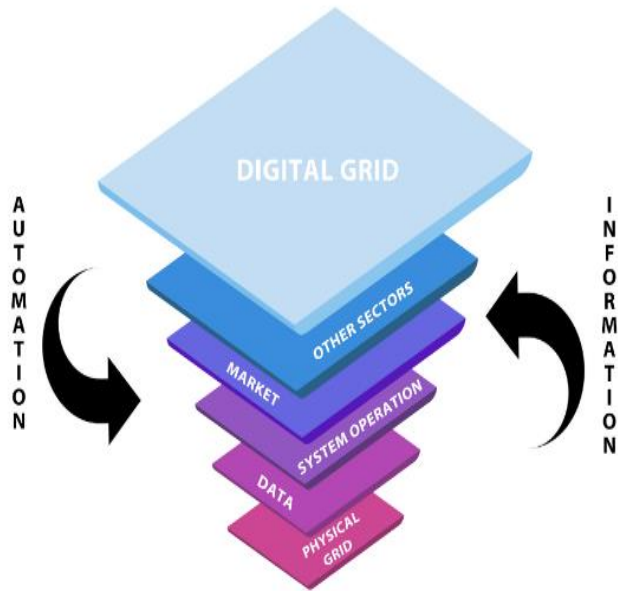
**INTERFACE**

TSO-DSO-Consumer INTERFACE  
aRchitecture to provide innovative grid services for an efficient power system

**We create  
the common  
platform!**

# TSOs and digitization

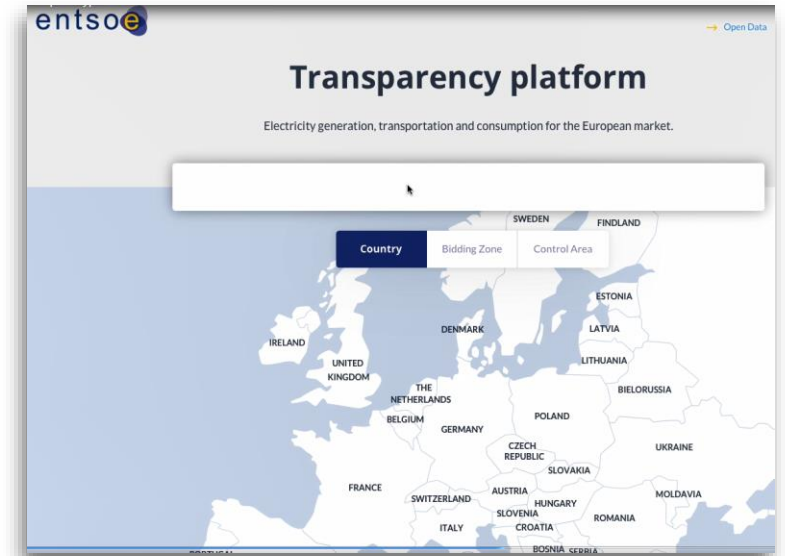
Link between TSOs & DSOs



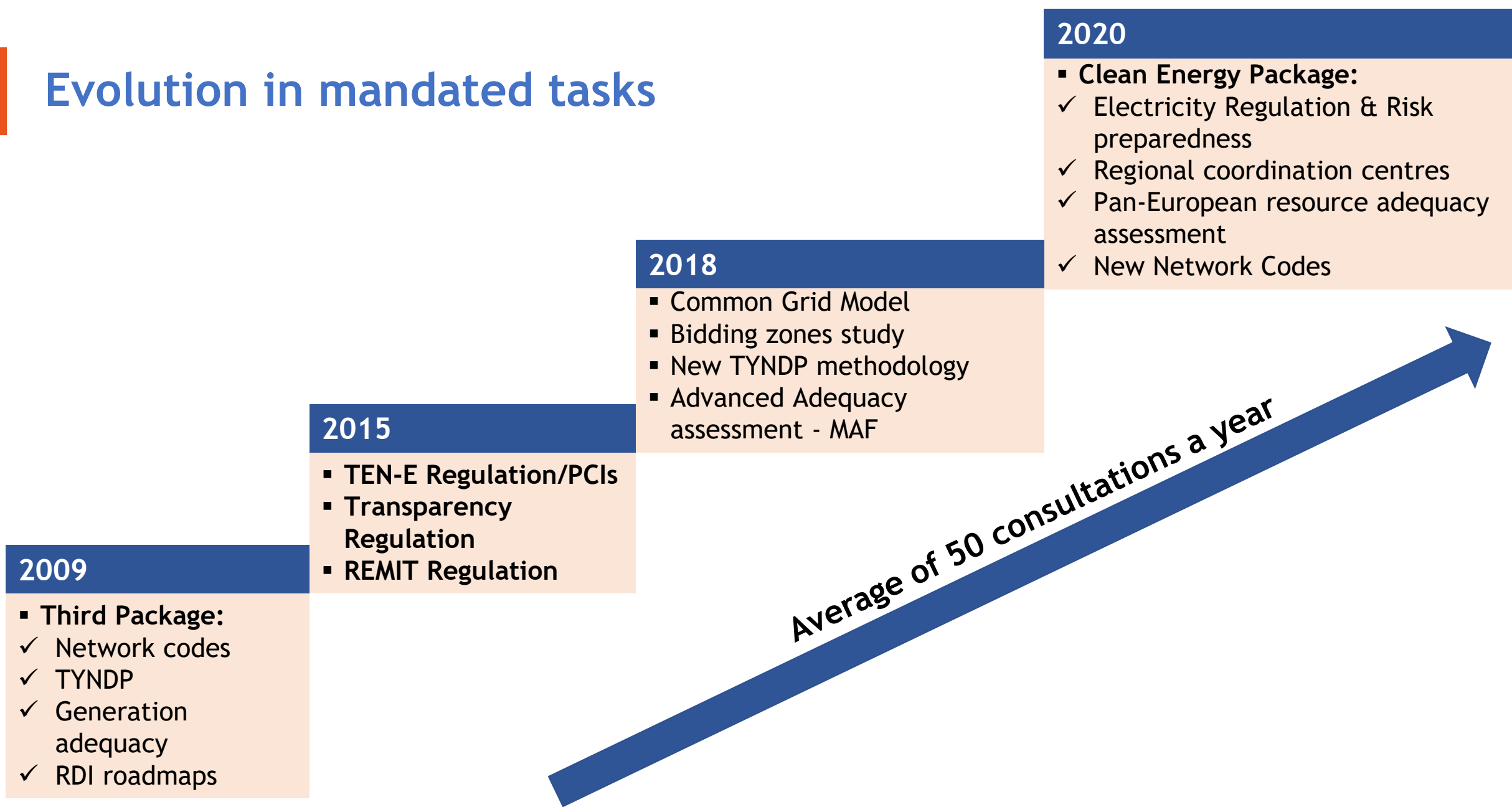
Pan-European operational planning data exchange



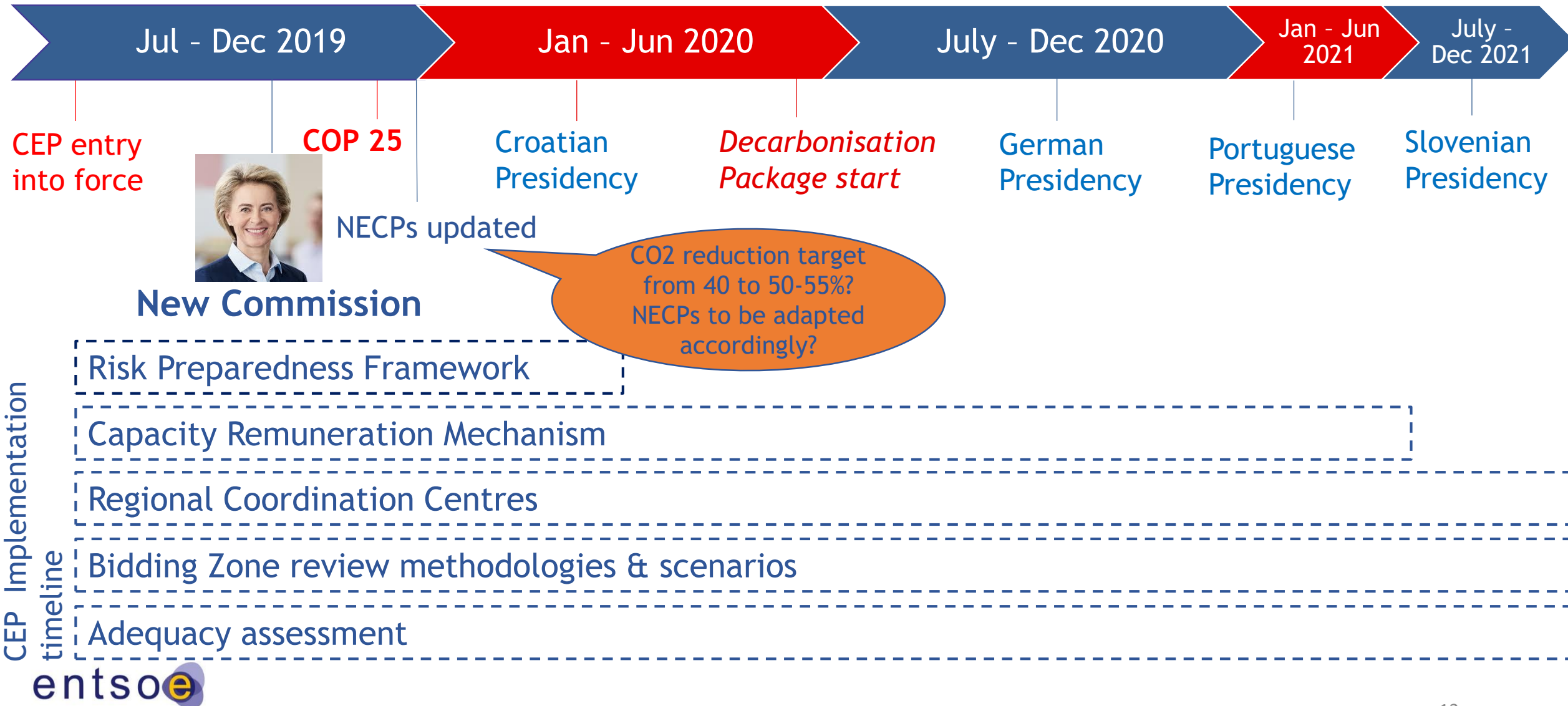
Transparency of market & grid data



# Evolution in mandated tasks

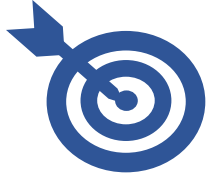


# • European Regulatory timeline 2019-2021





# 2020 and beyond: what do we want to achieve?



## Mission & Identity

- Implementation of legal mandates
- Technical advisor for policy makers



## Operational Excellence

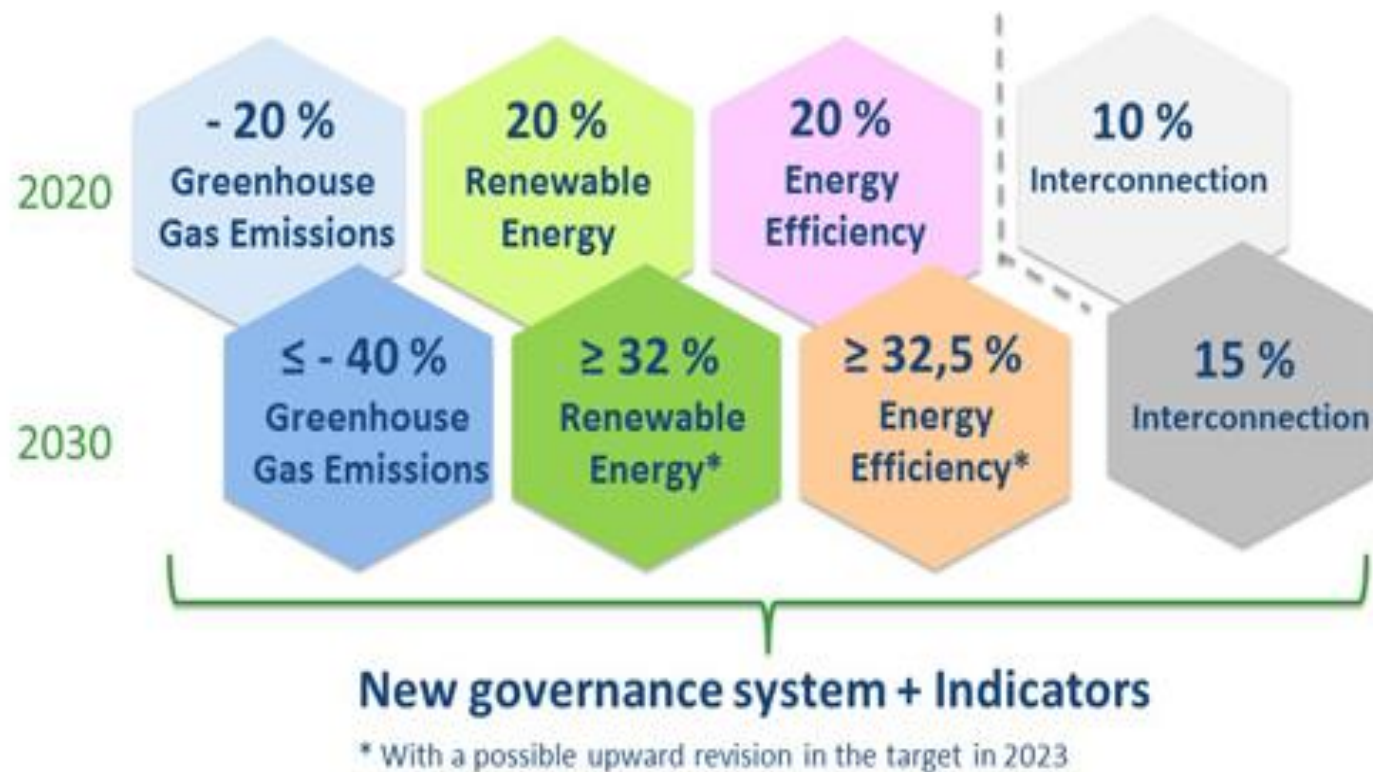
- Align operations with core mission
- Deliver high quality



## Content of our mission

- Energy system 2030 up to 2050
- Decarbonisation, sector coupling and market design
- Sound IT backbone

# 2020, 2030 & beyond



Source: [www.climat.be](http://www.climat.be)



# ENTSO-E 10 years conference



Helsinki 13 November 2019

**LOOKING BACK FOR  
LOOKING FORWARD**

RELIABLE SUSTAINABLE CONNECTED

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