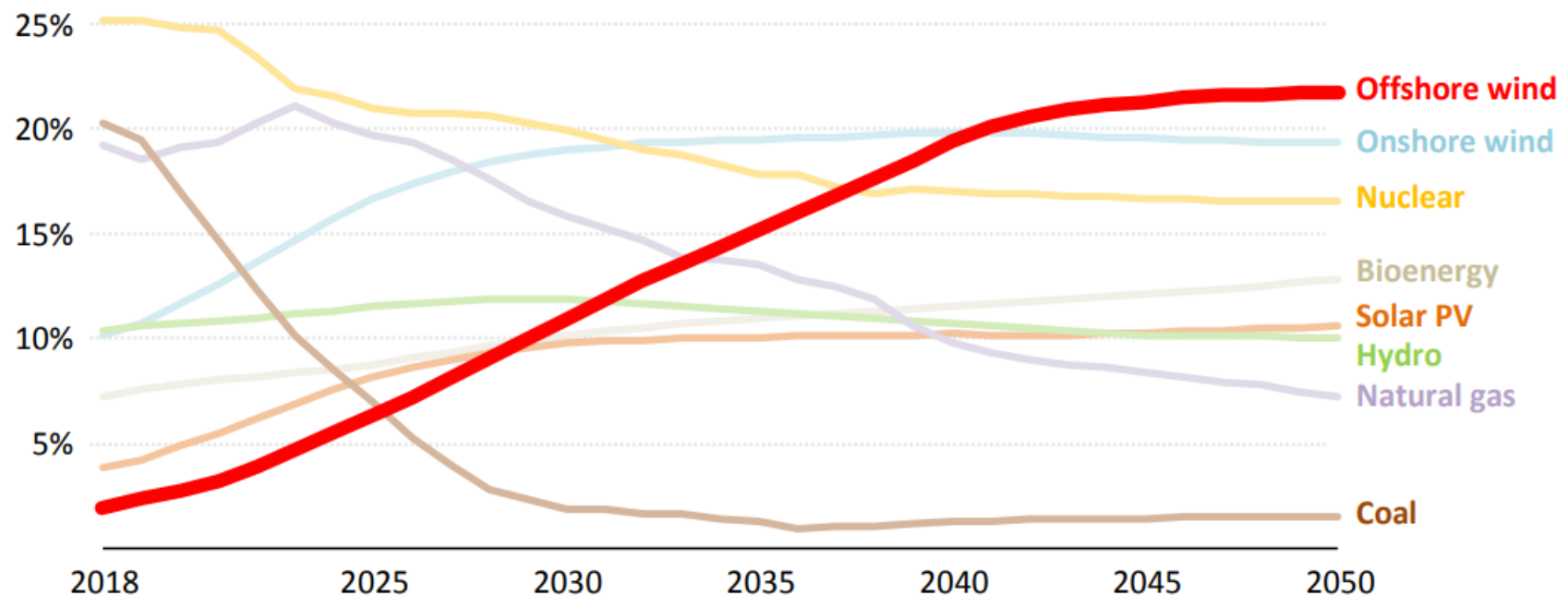


# BRIGHT FUTURE FOR OFFSHORE WIND? CHALLENGES IN THE NORDIC-BALTIC REGION

Pierre Tardieu  
WindEurope

# Offshore wind the no. 1 power source in the EU by 2040

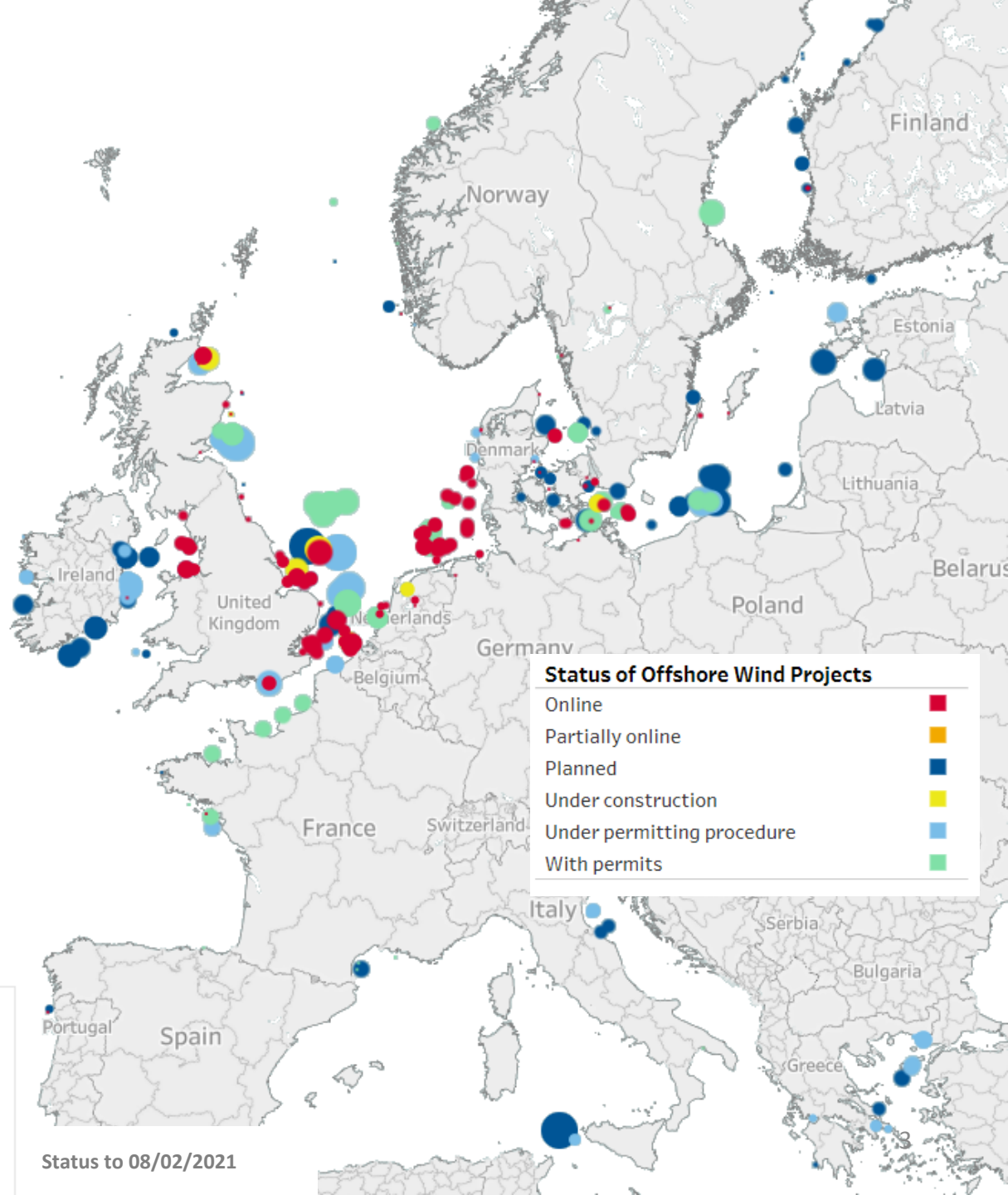
Share of electricity generation by source in the EU, 2018-50



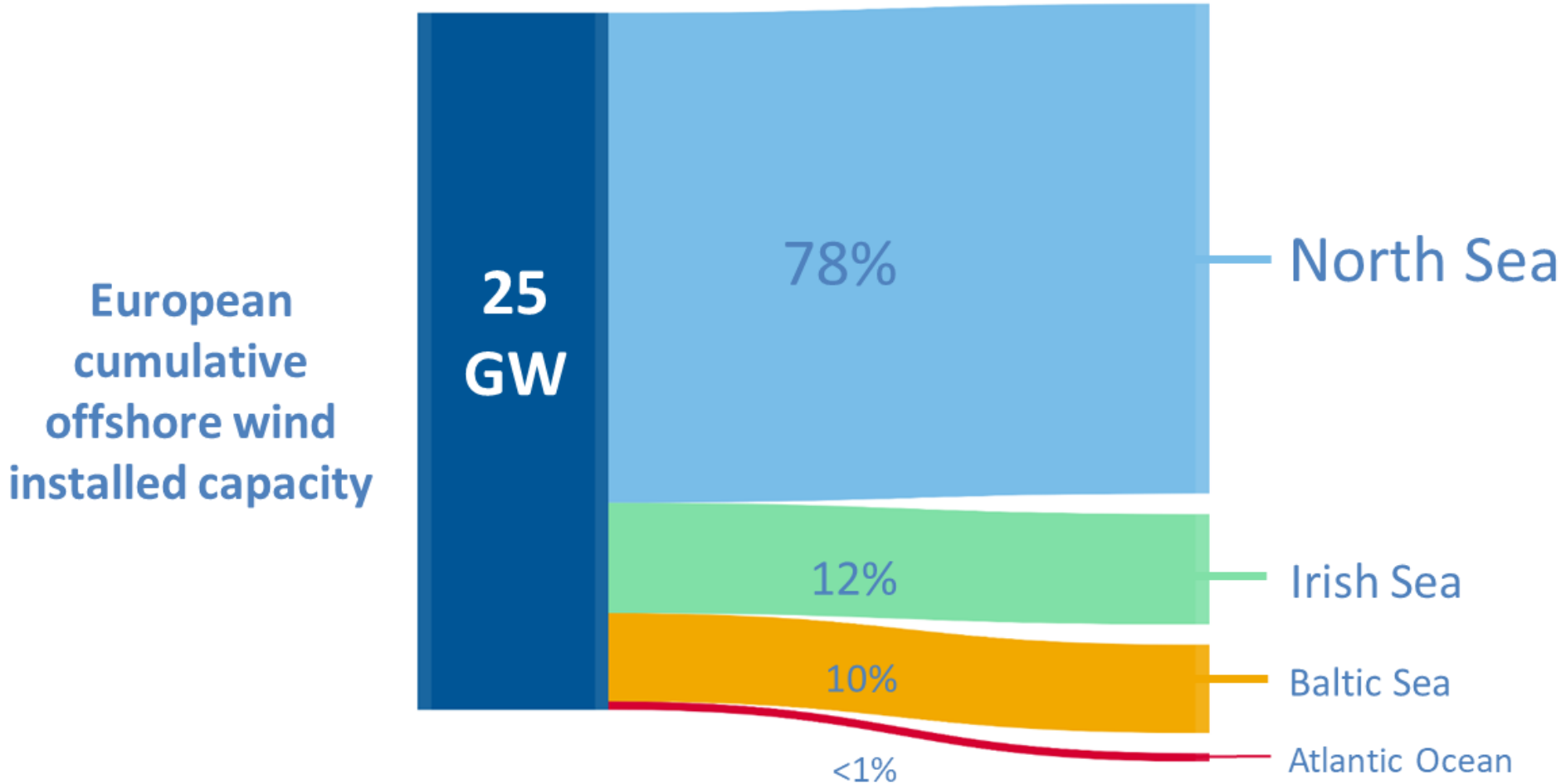
# Europe's Offshore Wind Farms

25 GW

3%  
of Europe's  
electricity demand

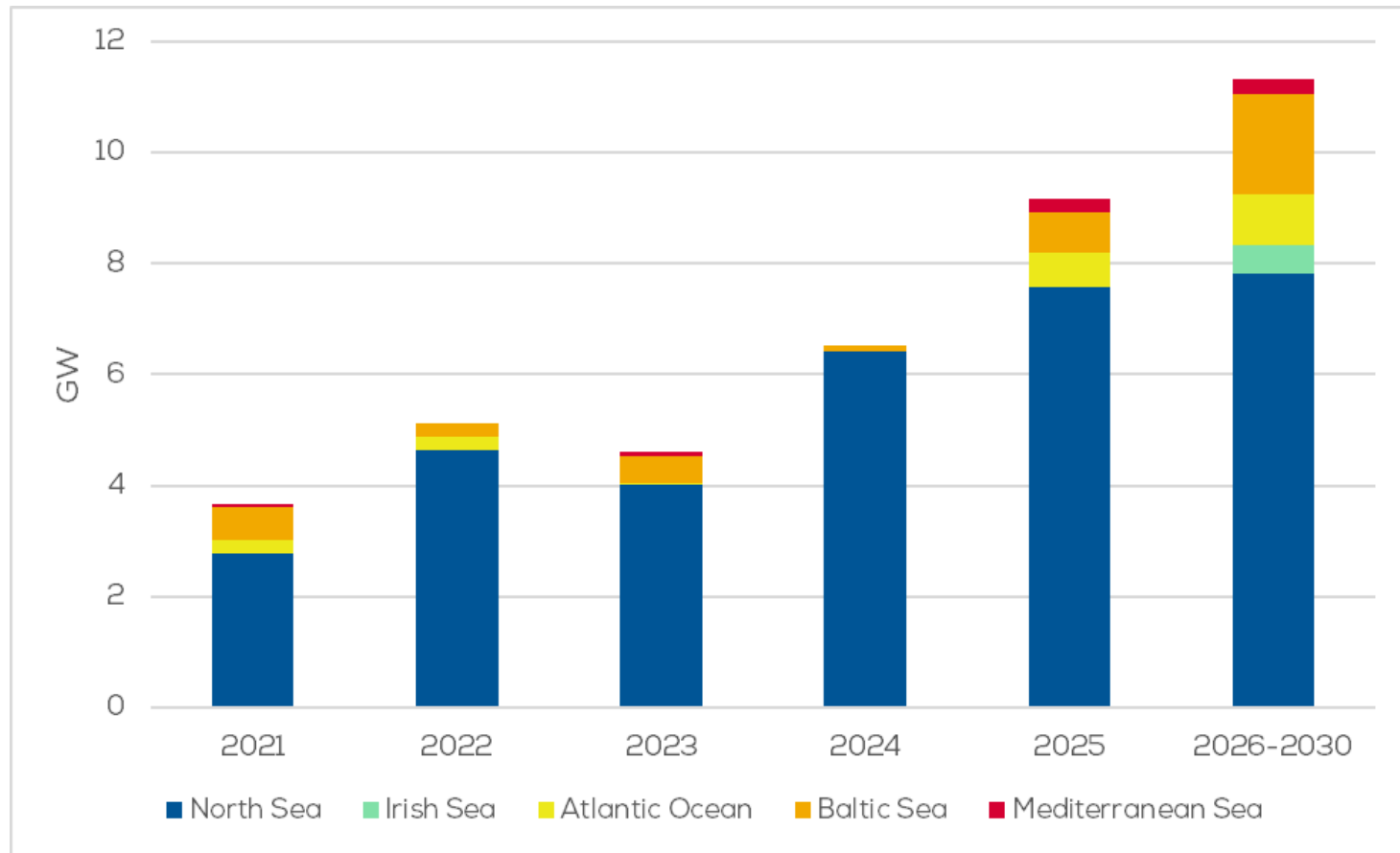


# Share by Sea Basin today



# 2030 Offshore Wind Outlook

## Annual installations by sea basin



Source: WindEurope

# 2030 Outlook for Baltic Countries

Country	Capacity by 2030
Germany	2,100 MW
Denmark	3,100 MW
Poland	6,000 MW
Sweden	300 MW
Finland	100 MW
Lithuania	700 MW (+ 500 MW – date n.a.)
Latvia	500 MW
Estonia	500 MW (+ 1000 GW - date n.a.)

Total: 13+ GW



€7.5bn  
EU GDP  
contribution

**1** new offshore  
wind turbine  
=  
**€15m**  
to the economy





77,000

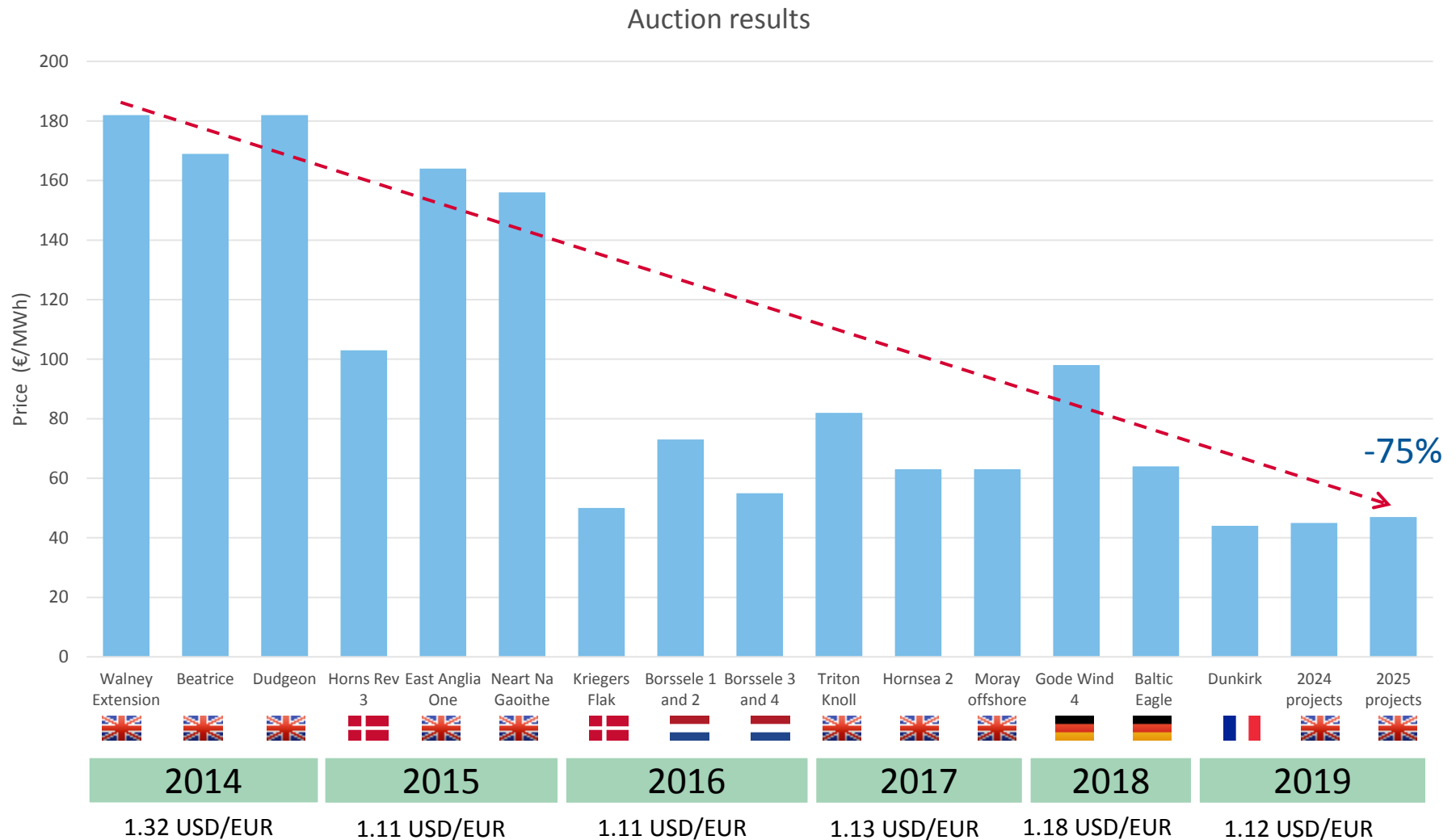
offshore wind  
jobs in  
Europe today

200,000

offshore wind  
jobs in Europe  
in 2030

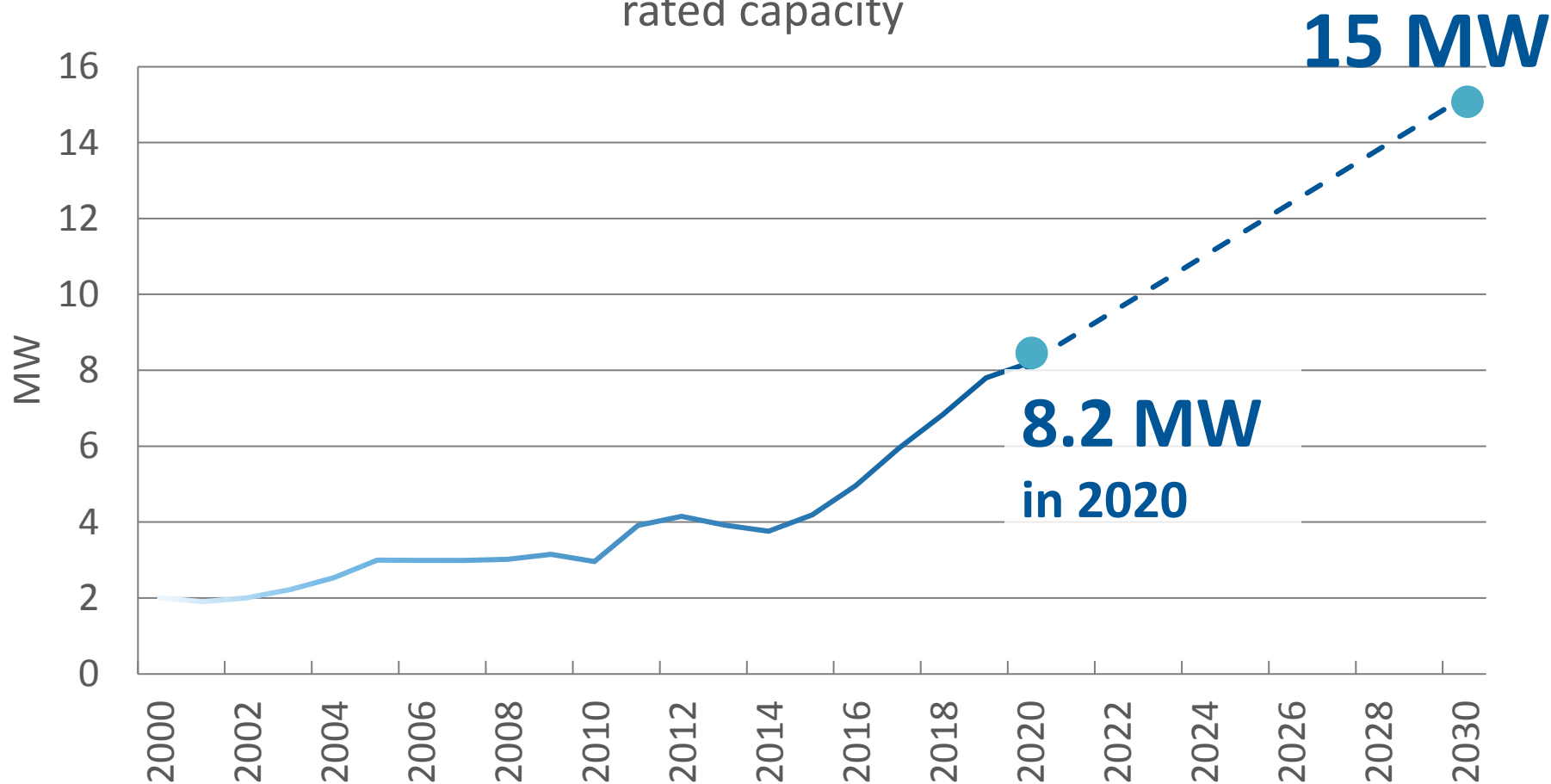


# Cost of offshore wind continue decreasing

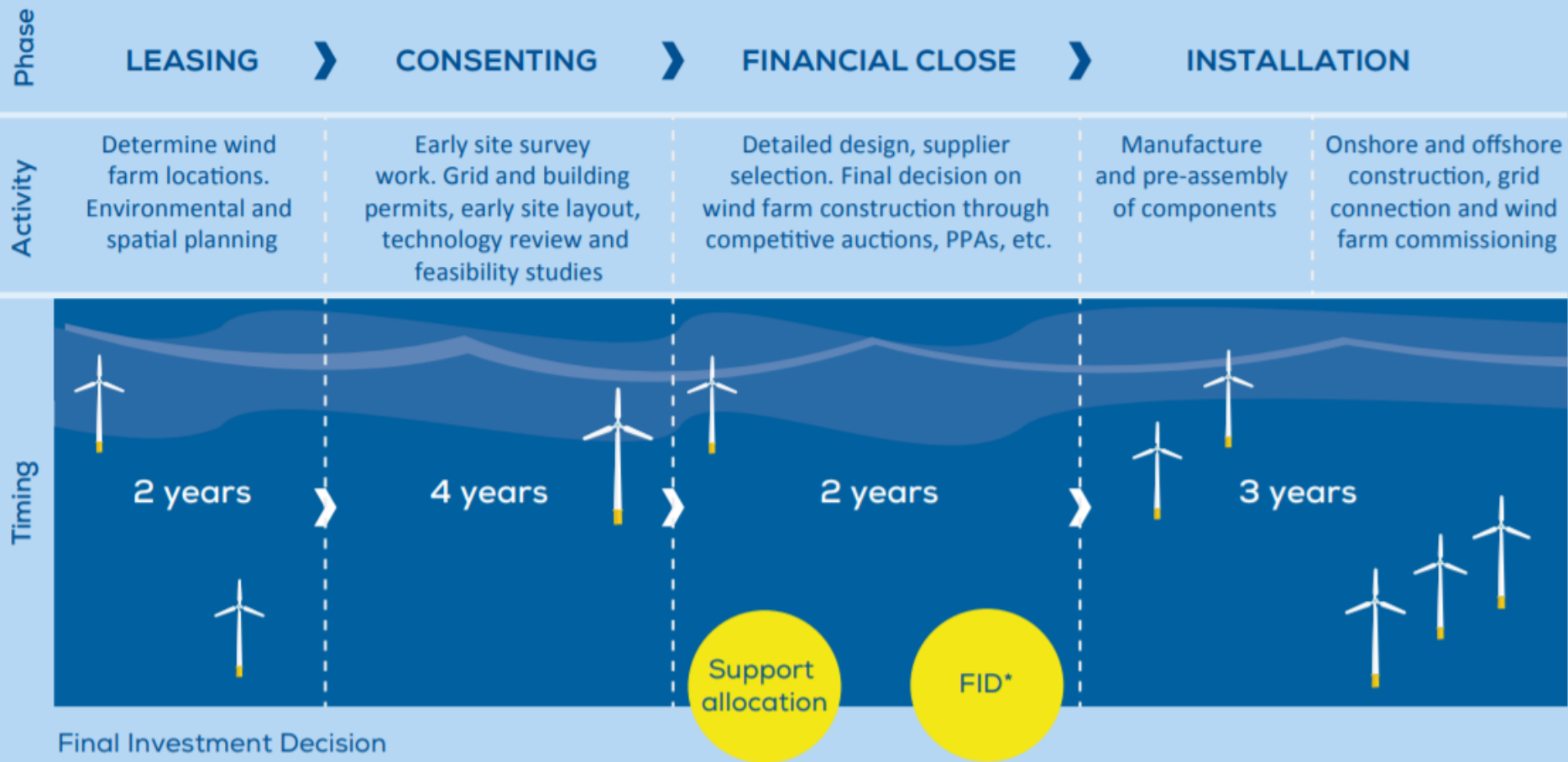


# Offshore turbines are getting larger

Yearly average of newly-installed offshore wind turbine  
rated capacity



# 1. Planning



# Maritime Spatial Planning

2

Ecosystem Based approach

5

Best available data

6

Member States and third countries cooperation

1

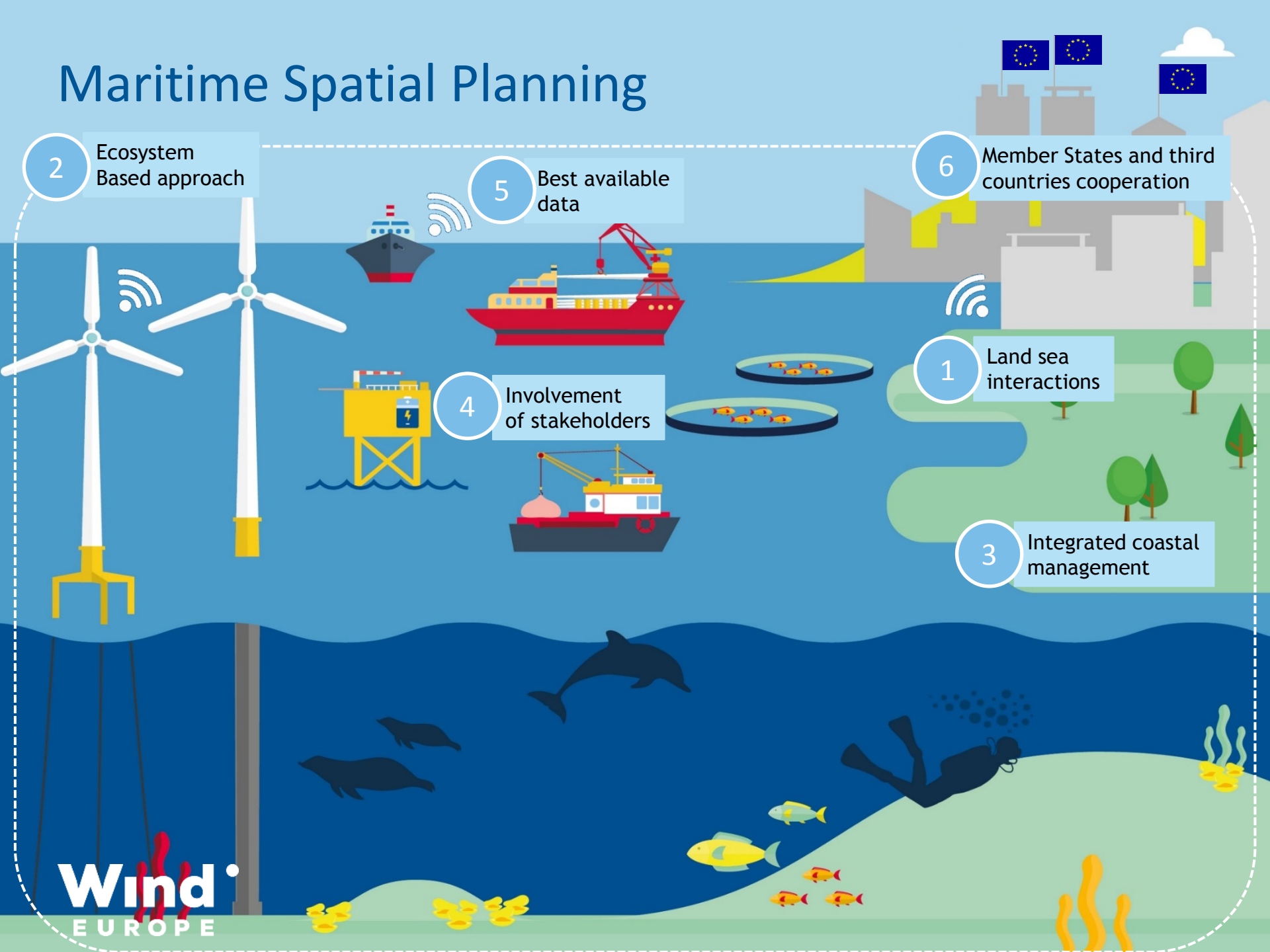
Land sea interactions

4

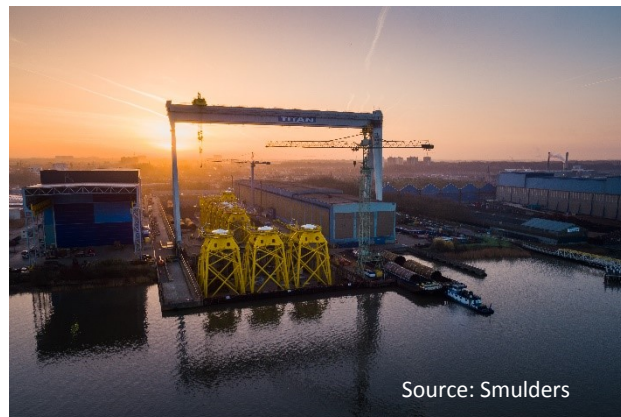
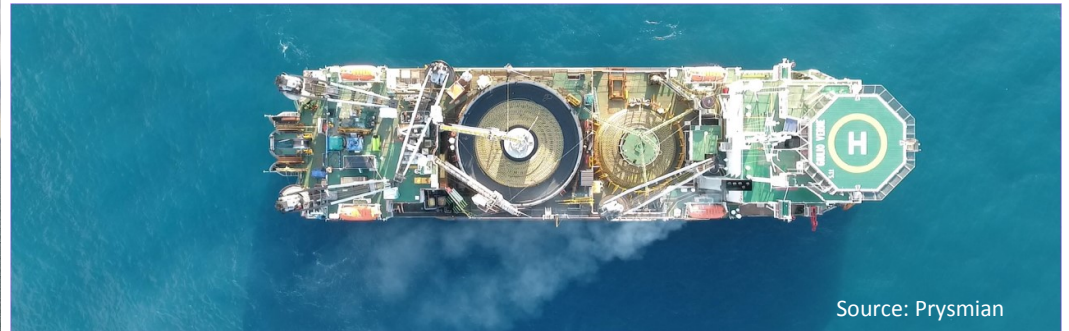
Involvement of stakeholders

3

Integrated coastal management



## 2. The offshore wind supply chain





# Ports will need to have enough space too





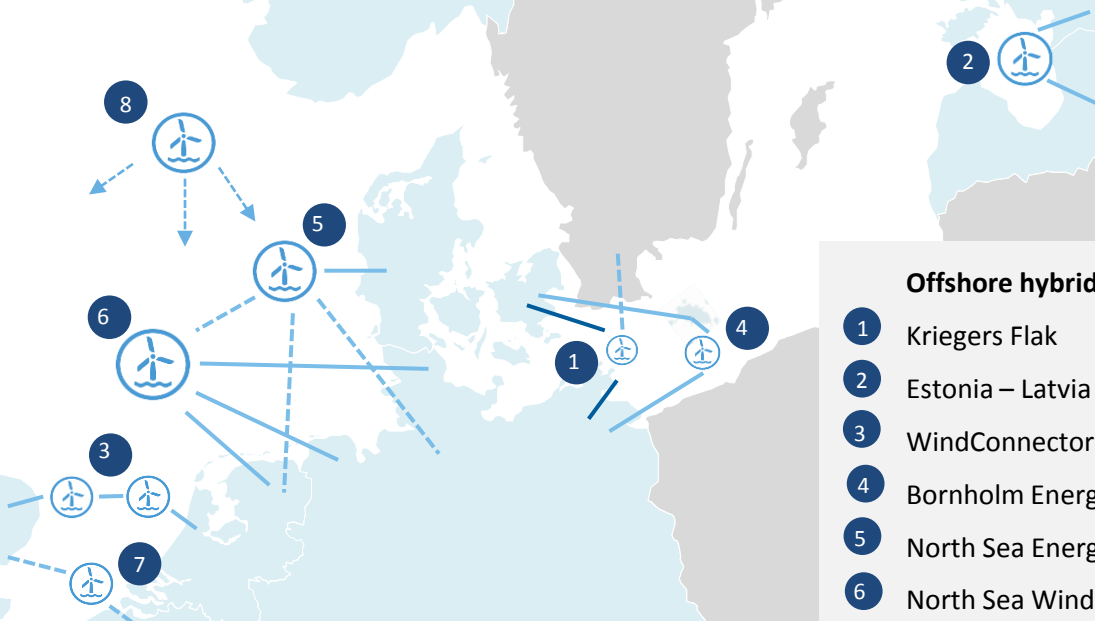
# 3. Regional Cooperation



# 4. Offshore hybrid interconnectors

## Project status

- Operational
- Cooperation signed
- - - Under discussion



## Offshore hybrid projects

- 1 Kriegers Flak
- 2 Estonia – Latvia
- 3 WindConnector
- 4 Bornholm Energy Island
- 5 North Sea Energy Island
- 6 North Sea Wind Power Hub
- 7 Nautilus
- 8 Sørlige Nordsjø II

# THANK YOU

**Wind**<sup>•</sup>  
**EUROPE**

[windeurope.org](http://windeurope.org)



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1040 Brussels, Belgium