

... Green Transition and Digital Transformation

National Priorities in Ireland's Maritime Transport sector

- 1) €65M National Challenge Fund established under the Government's National Recovery and Resilience Plan (NRRP),**
will address key national challenges in the areas of Green Transition and Digital Transformation
- 2) The Climate Action and Low Carbon Development Act (2021) commits Ireland to a 51 per cent reduction in emissions by 2030 and Zero emissions by 2050.**
The Climate Action Plan published on (November 2021) sets out how Ireland will take advantage of the potential of at least 30GW of offshore wind power to achieve these targets. The Department of Transport's policy statement (December 2021) identified the need for facilities to be developed at multiple ports, in a phased approach, to remove risks and support regional development.

... Policy Statement on Ports for Offshore Wind (Dec 2021)

On the role of ports in Offshore Renewable Energy (ORE)

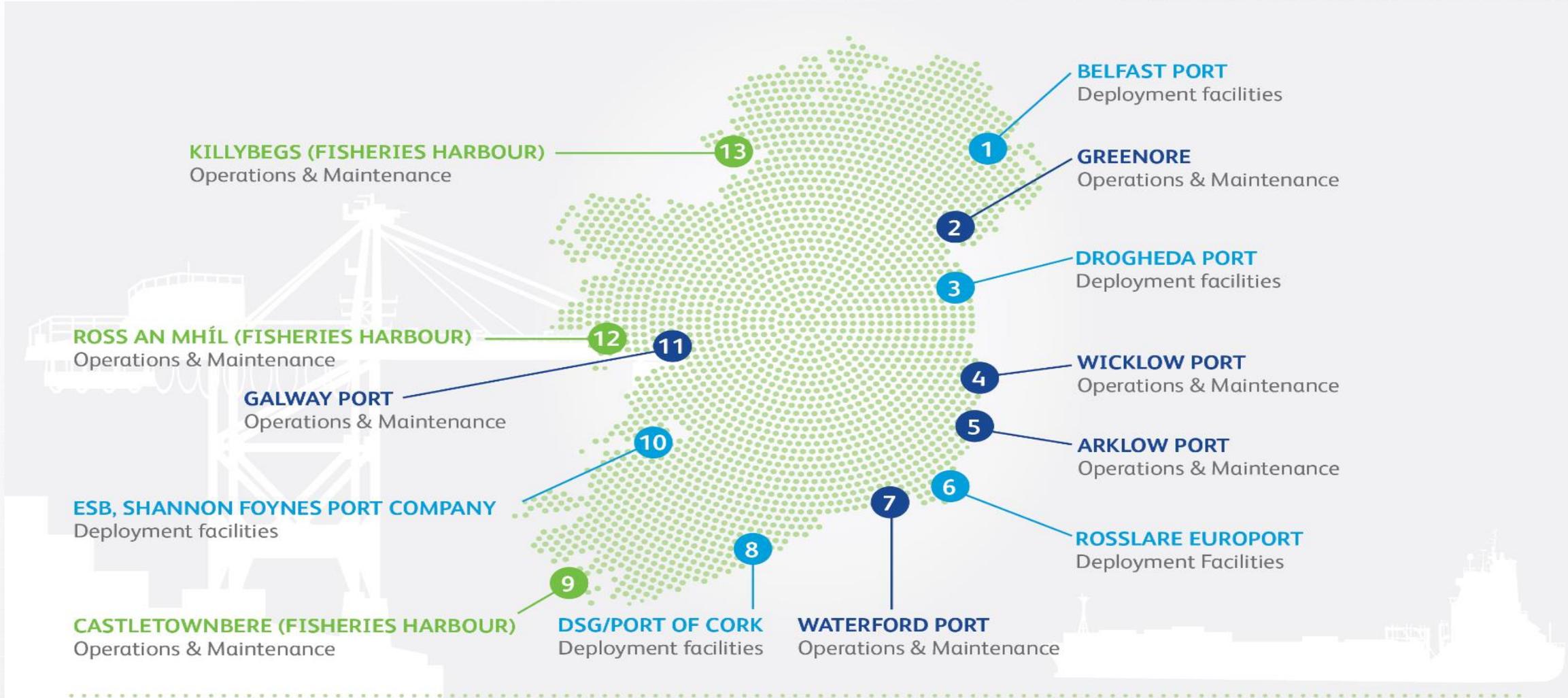
1. Multi-port approach
2. Creation of a Port Co-ordination Group (policy alignment)
3. Maximise value of the supply chain
4. Develop ports as energy hubs
5. Recognise the potential of floating wind and the export opportunity
6. Increase resilience of Irish ports
7. Develop funding mechanisms (to address the national & international demand)

Overall, ensure complementary development takes place that recognises the enduring needs of trade and tourism



.... Response from Irish ports to ORE opportunity

Natural resources are regionally dispersed



Smart Ports – collaboration with “Insight” *data analytics centre*



1. Advanced optimisation under **resource constraints**
2. **Failure prediction** based on statistical pattern analysis of machine data (e.g. predictive maintenance)
3. Fusion and context of **heterogeneous sensor data sources**
4. **Mining/knowledge extraction** from many data sources to optimise process and learning
5. **Predictive analytics** – quality & product demand.
6. Assessing multi-channel **customer sentiment**. Linked Data profiling across enterprise and open/public data sources
7. Modelling of the Customer Journey in the supply chain. Supporting **trust & data provenance**



.... INTERNATIONAL FAST AND SECURE TRADE LANE (IFTSL)

Improve maritime connectivity to the European economy

Delivers:

- streamlined processes
- interoperable systems
- accurate, real-time data
- clear operational and governance model



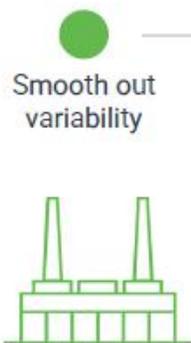
Green Atlantic @ Moneypoint – Overview



- 1978 – Government approval to build Moneypoint, first generation in 1985;
- The project has been the backbone of Ireland’s generation system;
- Now is the time to decarbonise Moneypoint**



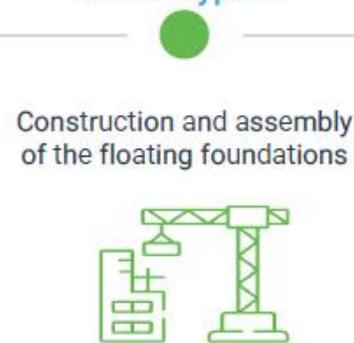
Synchronous Compensator



Start work on our first floating wind farm



Developing facilities in Moneypoint



Hydrogen production and export facility @ Moneypoint.





Transforming Ireland's Maritime Transport system

Green Transition and Digital Transformation

- Ireland's commercial ports are our key international maritime gateways
- In addition – ports are enablers of other activities and hubs for business
- New port capacity for the offshore renewable energy sector is needed to facilitate development of the Irelands huge renewable energy resources
- National programmes launched in 2021 for the Green Transition and Digital Transformation will build on success in Motorways of the Sea and EU programmes