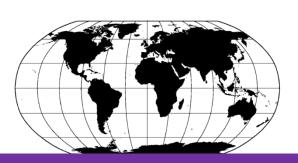
MARLIN Modular Floating Platform for Offshore Wind

'Global Energy Access for Coastal Communities'

Trevor Hardcastle

BSc MSc MBA CEng CMarEng MIMarEST







Existing Technical Concepts





'Fixed' Foundations







'Floating' Foundations







Problem

Coastal Location



 Good Offshore Wind Conditions



Energy Mix 'MW'Power Requirements



Basic Quayside



Fossil Fuel dependency



Nearshore Water too Deep

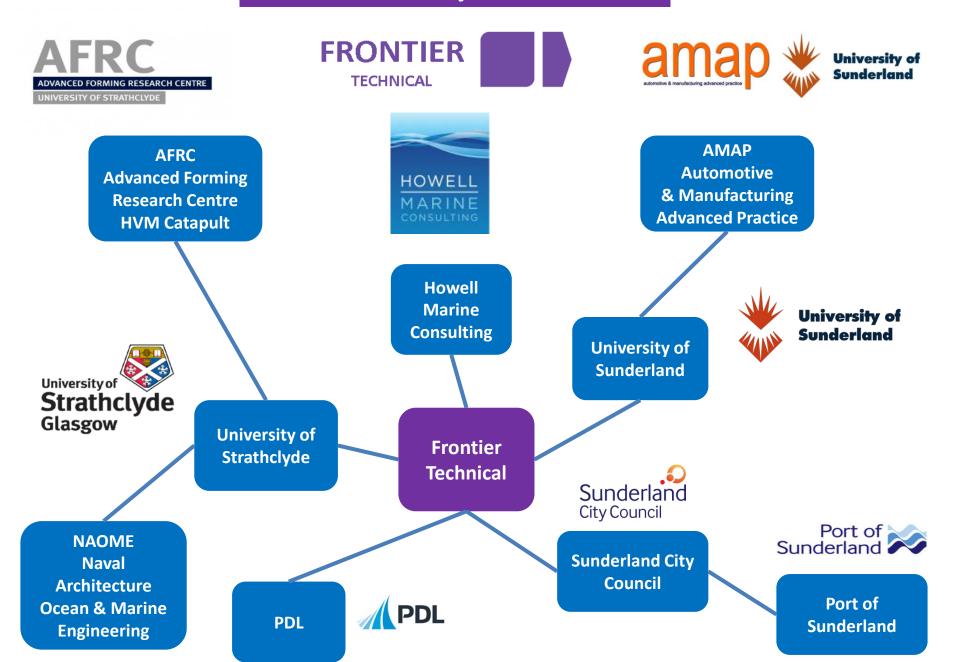


Distance from Marine Construction Yards



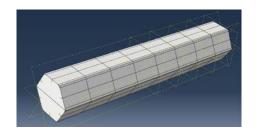
Economically Viable Options





Solution

- Floating Offshore Wind
- Configurable Modular System
- Standardised Freight Transport
- Subsea Construction
- Patent Pending

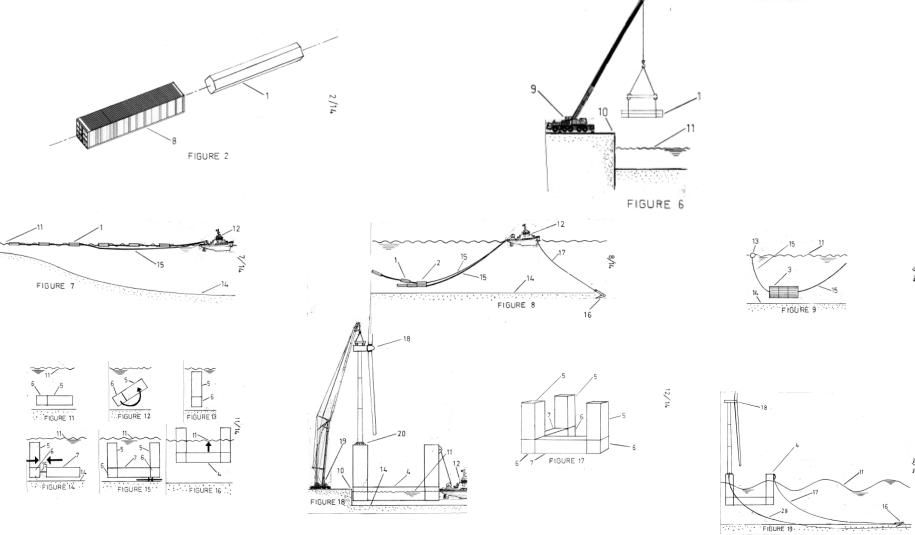






'Modular Floating Structure' Patent Pending





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Infrastructure Not Required



Innovation Overview

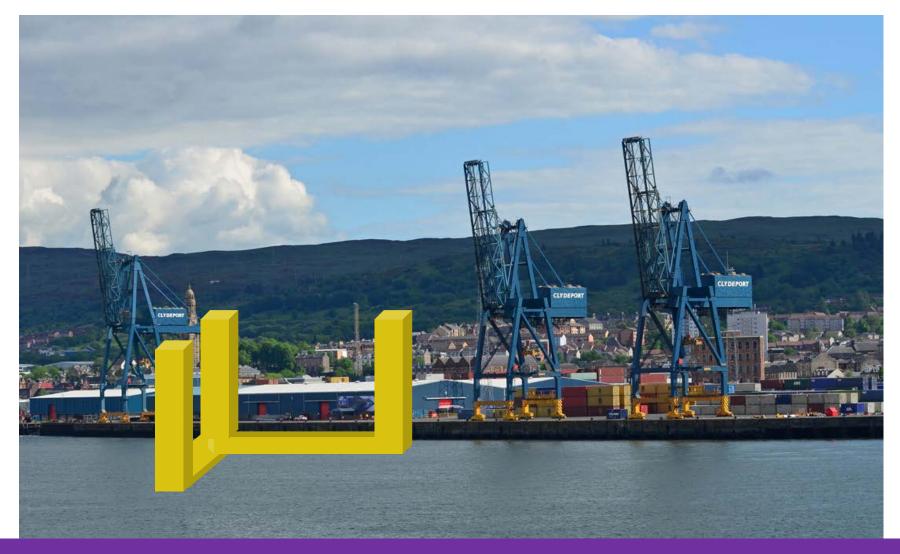
- Floating offshore wind in Range of water depths
- Shipping Containers
- Mobile cranes
- Conventional vessels
- Underwater final assembly - Remotely



Sub-assembly from multiple rivers, ports quays



Configurable Designs



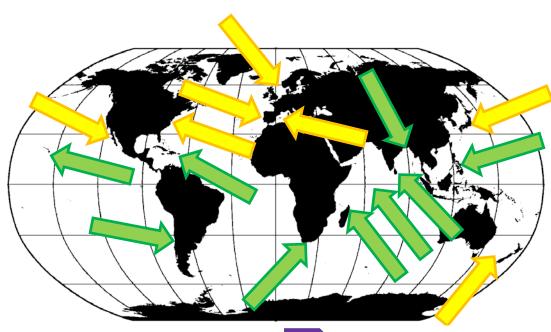


Logistics



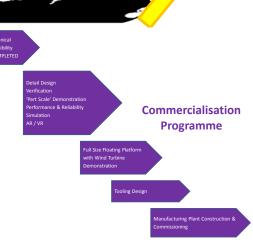
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Markets



Funding & Support

- UK IP Office Award
- Innovate2Succeed
- ERDF Software Spec.
- Innovation Grants
- Innovate UK



Assumptions

- Competitor Product Size
- Regional Mobile Crane Services
- Regional Vessel Operators
- Demonstration
- Certification and Compliance

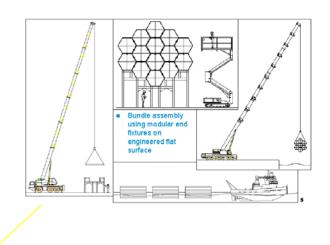
Commercialisation

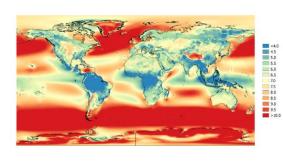
- 5 Year plan to full production
- Ex Works Sales of Basic Product
- Sell Modules
- Remote Subsea Assembly
- Training and licences
- SIDS Initial Markets



Next Steps: Market Knowledge & Funding

- Specific Country requirements
- Public Grant Funding
- Private Investment
- Sector Specific
 Business Expertise











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