



The Supergen Offshore Renewable Energy (ORE) Hub

Foundations for Ireland-UK Floating Wind 12 March 2021

Professor David White (University of Southampton) Professor Deborah Greaves (University of Plymouth)









































The Supergen Offshore Renewable Energy Hub provides research leadership to <u>connect</u> academia, industry, policy and public stakeholders, <u>inspire</u> innovation and maximise societal value in offshore wind, wave and tidal energy.





Supergen ORE Hub Objectives

Provide Visible Research Leadership

Inspire

- Execute and publish a distinctive and ambitious world class <u>research</u> through the core programme
- <u>Inspire and facilitate</u> a programme of co-ordinated UK led <u>research</u> through the flexible fund
- Be a **beacon** for equality, diversity and inclusion **(EDI)**
- <u>Support</u> development of <u>early career researchers</u> (ECR)

Connect

- Be a <u>respected voice</u> for policy makers and a <u>trusted partner</u> for industry
- Have strong international collaboration
- Take a <u>whole systems</u> approach to ORE

£2,200,000

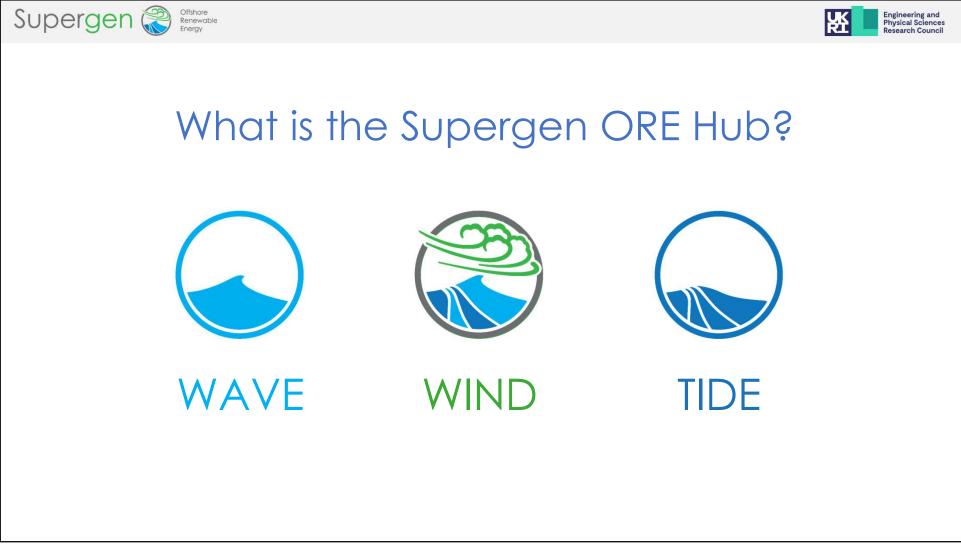
Invested into research through our funding rounds

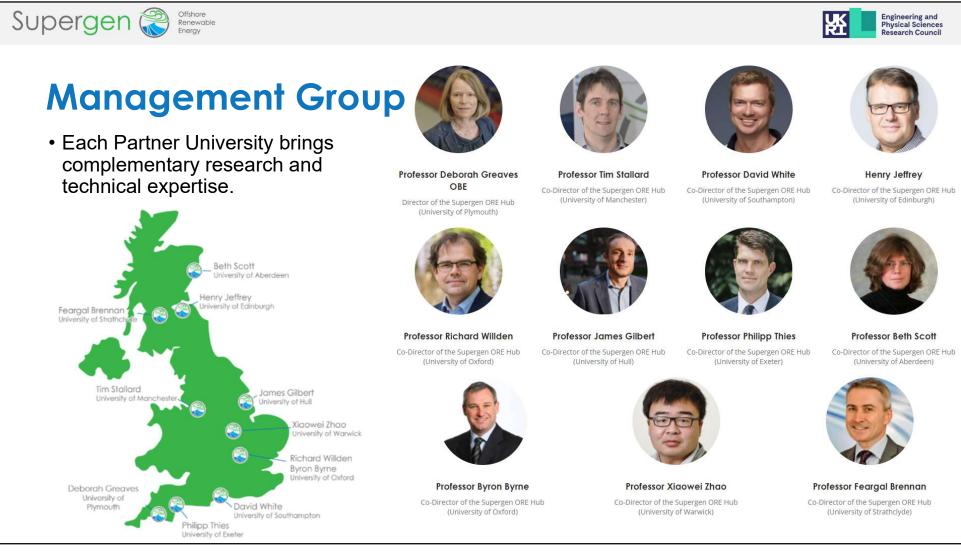
Early Career Researchers in our Network

Early Career Researchers in our Network

publications associated with the Hub

events engaging with academia, industry, policy makers and the public









Industry Advisory Board

A wide group of stakeholders from across all ORE disciplines, representing Research, Industry, Government, Academia and Innovation.



























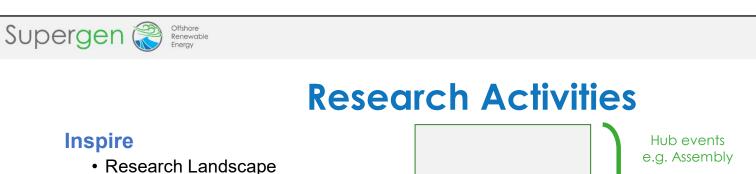












- Flexible funding
 - Resource prioritisation

Connect

- · Assembly and events
- ECR network
- Research Alignment Group
- Advisory Board
- Influence policy voice for sector



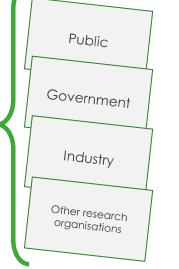
Hub events
e.g. Assembly

Hub ECR
network

Hub UK ORE
Research
Landscape

Hub as the
UK academic
voice for policy

Hub as UK voice
internationally



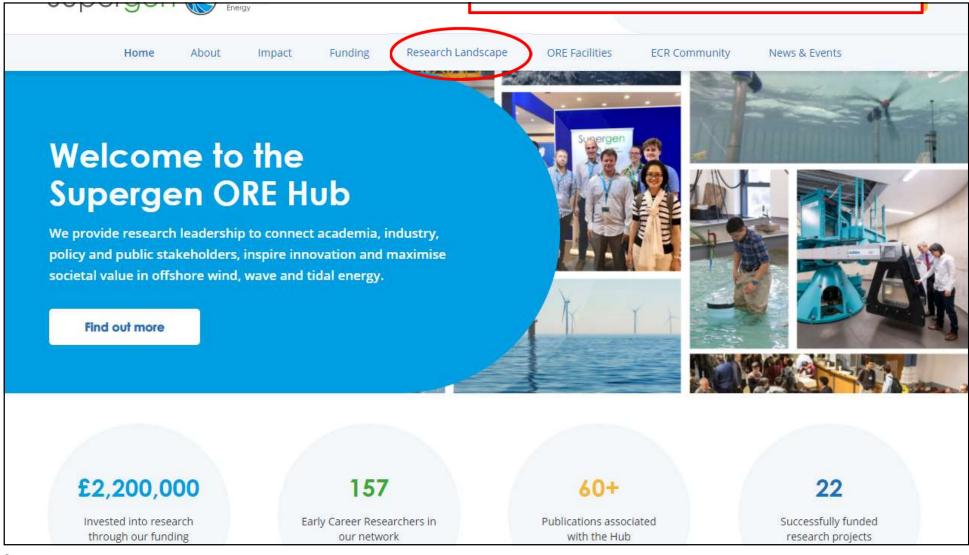
Engineering and Physical Sciences

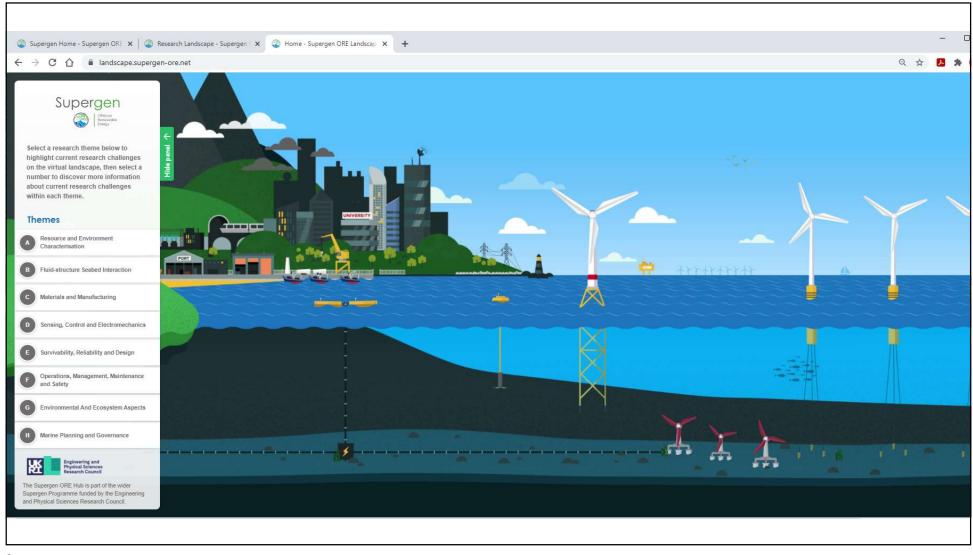


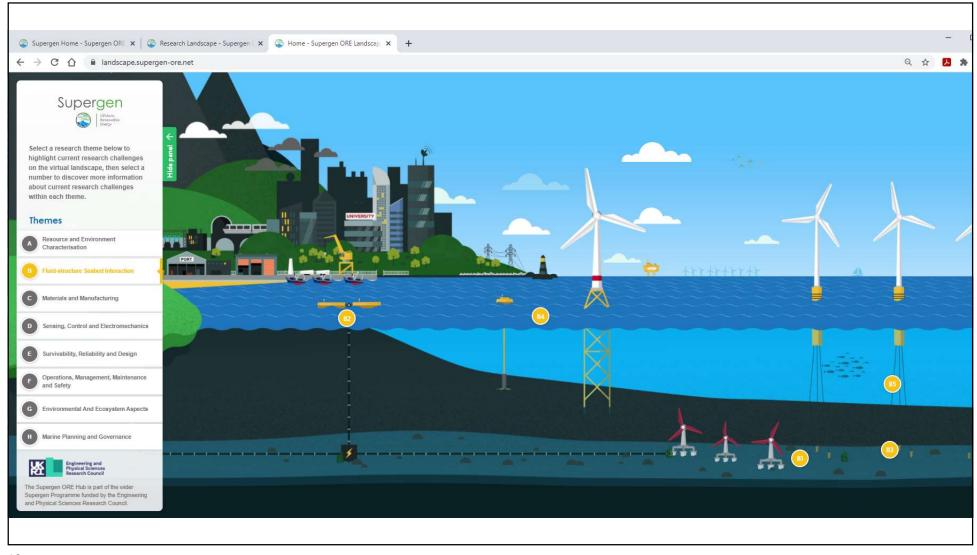
Research Landscape

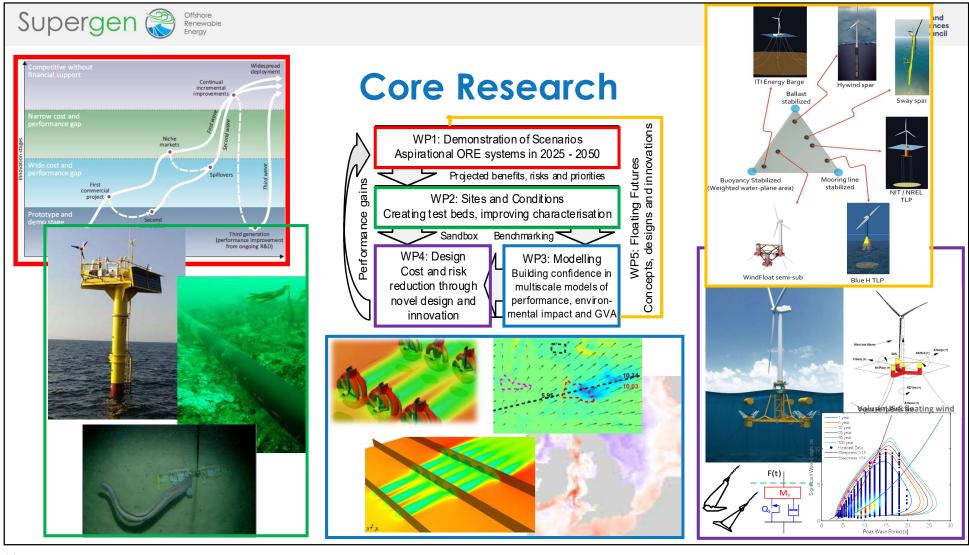
Interactive web-based landscape tool to enable industry, government and researchers to share opportunities and challenges across challenge themes, and allows researchers to promote ORE projects to the wider community.

www.supergen-ore.net/research-landscape

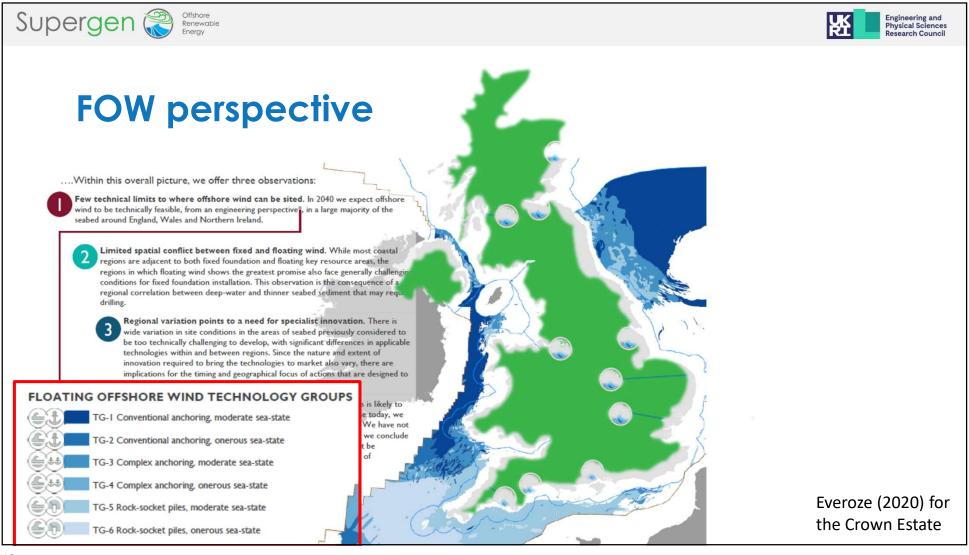


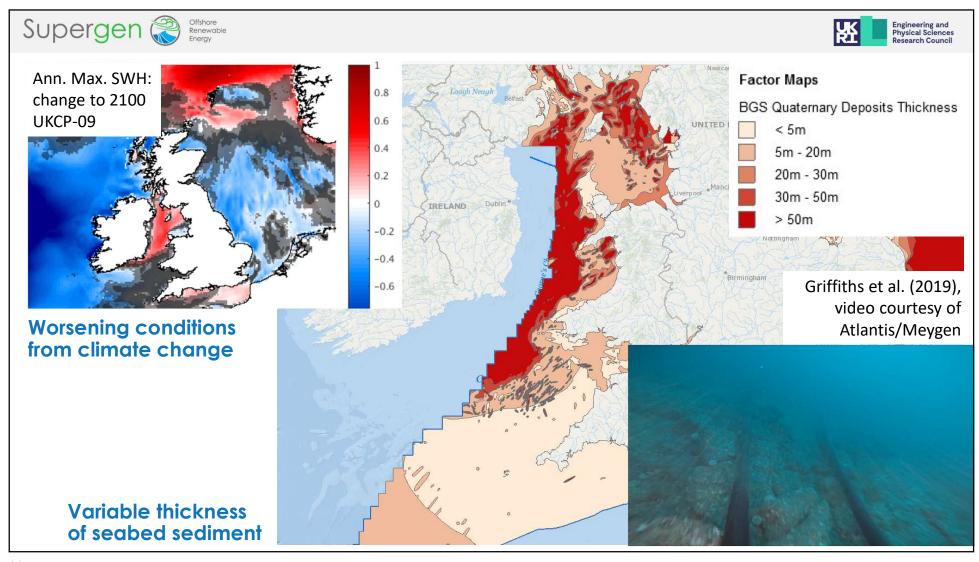


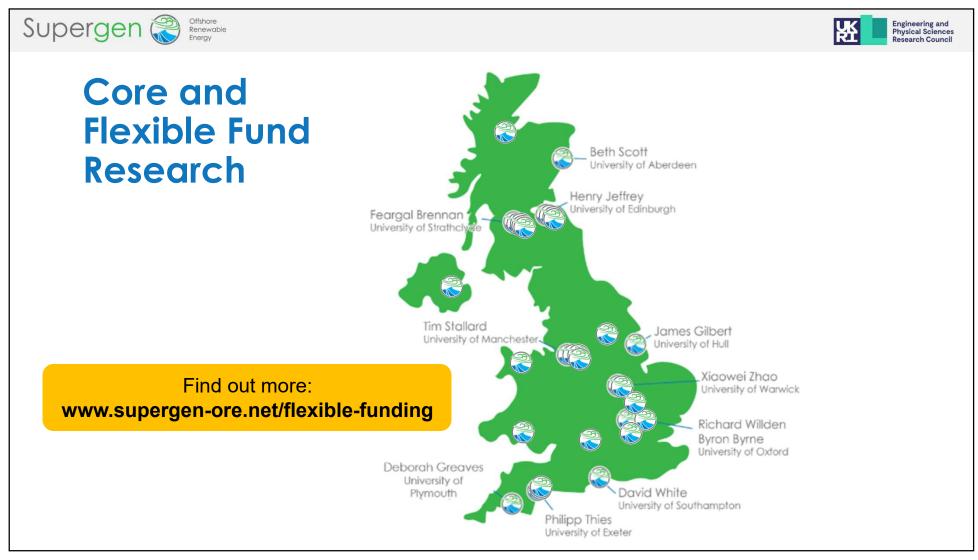












Supergen Offshore Renewable Energy



Flexible Funding

- Round 1 and 2 (2019/20): 22 projects, £2.2m
 Flexible Funding; £2.4m in industry match
- Round 3 (2021), £0.85m
- Two-stage blind review process underway
- Collaboration with ORE Catapult in Round 2 and ORE Catapult's Floating Offshore Wind Centre of Excellence (FoW CoE) in Round 3

Supergen Cross-Hub Workshops

- ORE Hub, Energy Storage Network+, and Energy Networks Hub: ORE Transmission & Storage
- · ORCA and ORE Hub: Offshore Robotics
- Seedcorn funding made available

Find out more:

www.supergen-ore.net/flexible-funding

"Aligning our relevant research priorities with Supergen ORE's Flexible Funding calls is a win-win – encouraging vital collaboration between industry and academia to solve many of the technology challenges facing the offshore renewable energy sector today."

Paul McKeever, Head of Electrical Research for ORE Catapult and Chair of the Supergen ORE Hub Industry Advisory Board

"This funding will allow projects to support the development of strategic relationships between academic partners and supply chain organisations, and the acceleration the commercialisation of floating offshore wind."

Ralph Torr, Programme Manager at ORE Catapult







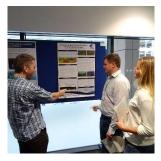
ECR Network

- 157 members of our ECR Network, with an ECR Committee
- LinkedIn discussion group for ECR community members
- Highlighted events include:
 - Three ECR Forums (Plymouth, Glasgow and this year virtual!)
 - Competition to attend the Houses of Parliament launch event, and meet with policy-makers
 - Workshops on Fellowship applications, career development, research topics
 - ECR Cross-hub webinars sharing of current ECR projects & wellbeing and working from home
 - Opportunity to attend Global Offshore Wind 2020
- Awarded two rounds of ECR Research Funding
 - 16 projects at a total of £82,000 invested
 - Designed to be a flexible fund for ECRs to support small activities in developing ECR career skills and/or research.

Join the network: www.supergen-ore.net/ecr-community



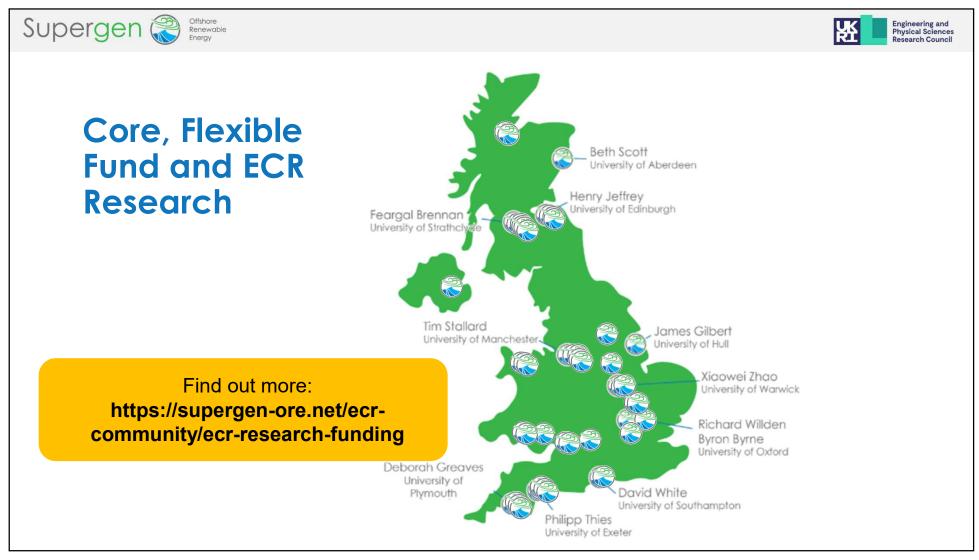


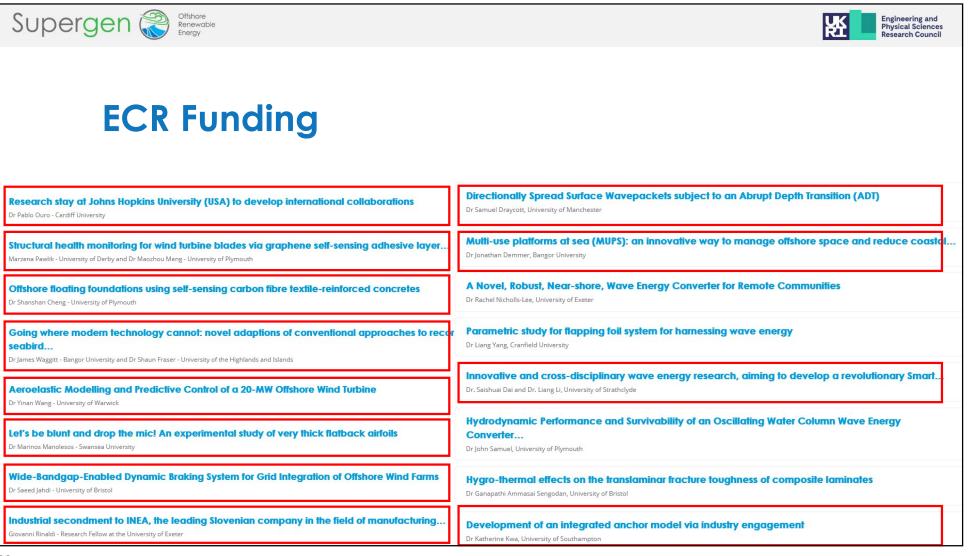
















ORE Facilities Survey and Interactive Map

With 99 facilities mapped, users can find further information and contact details across the following facility types:

- · Aeroelastic, blade and cable testing
- Demonstration sites
- Drive Train/Dynamometer Testing
- Electrical Systems Testing
- Foundations, Structural and Subsea Testing
- Hydrodynamics
- Icing Tunnels, Marine Environment and Meteorology and Radar
- Material and Mechanical Components Testing
- Robotics, Smart Energy and High Performance Computing Facilities
- Wind Tunnels



www.supergen-ore.net/ore-facilities





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Keep up-to-date with news and events by joining our mailing list www.supergen-ore.net





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