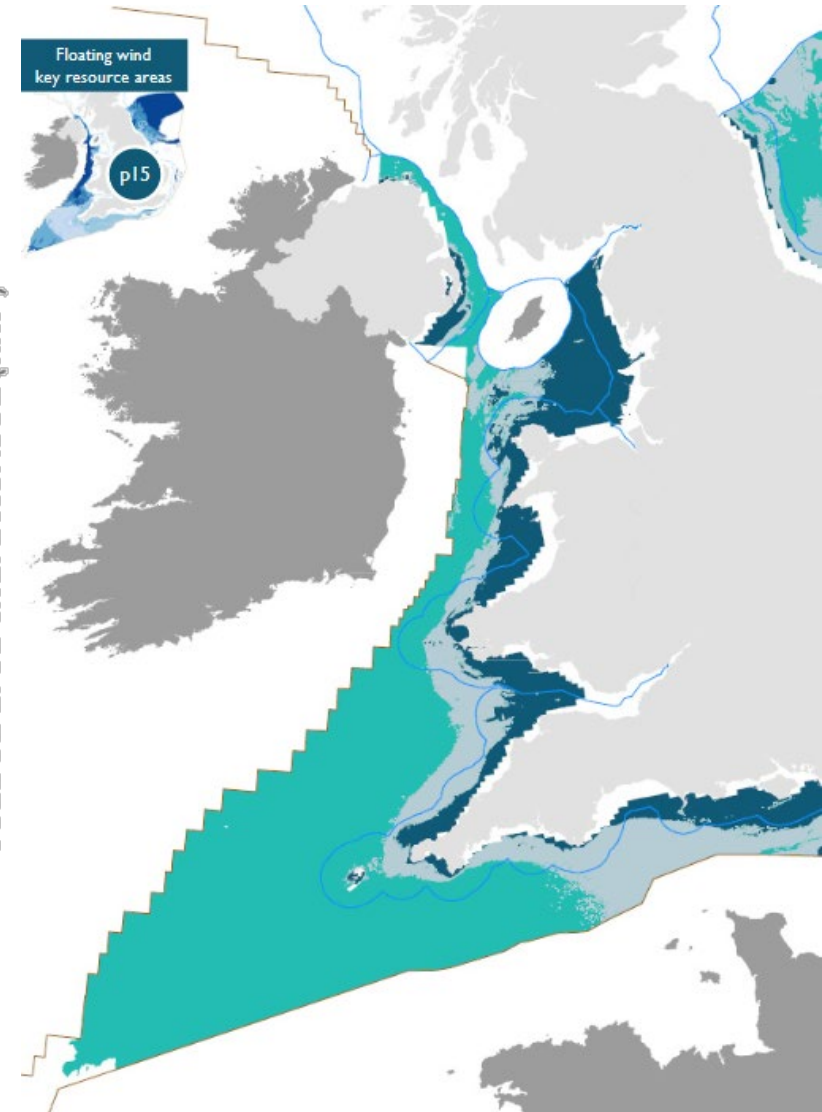
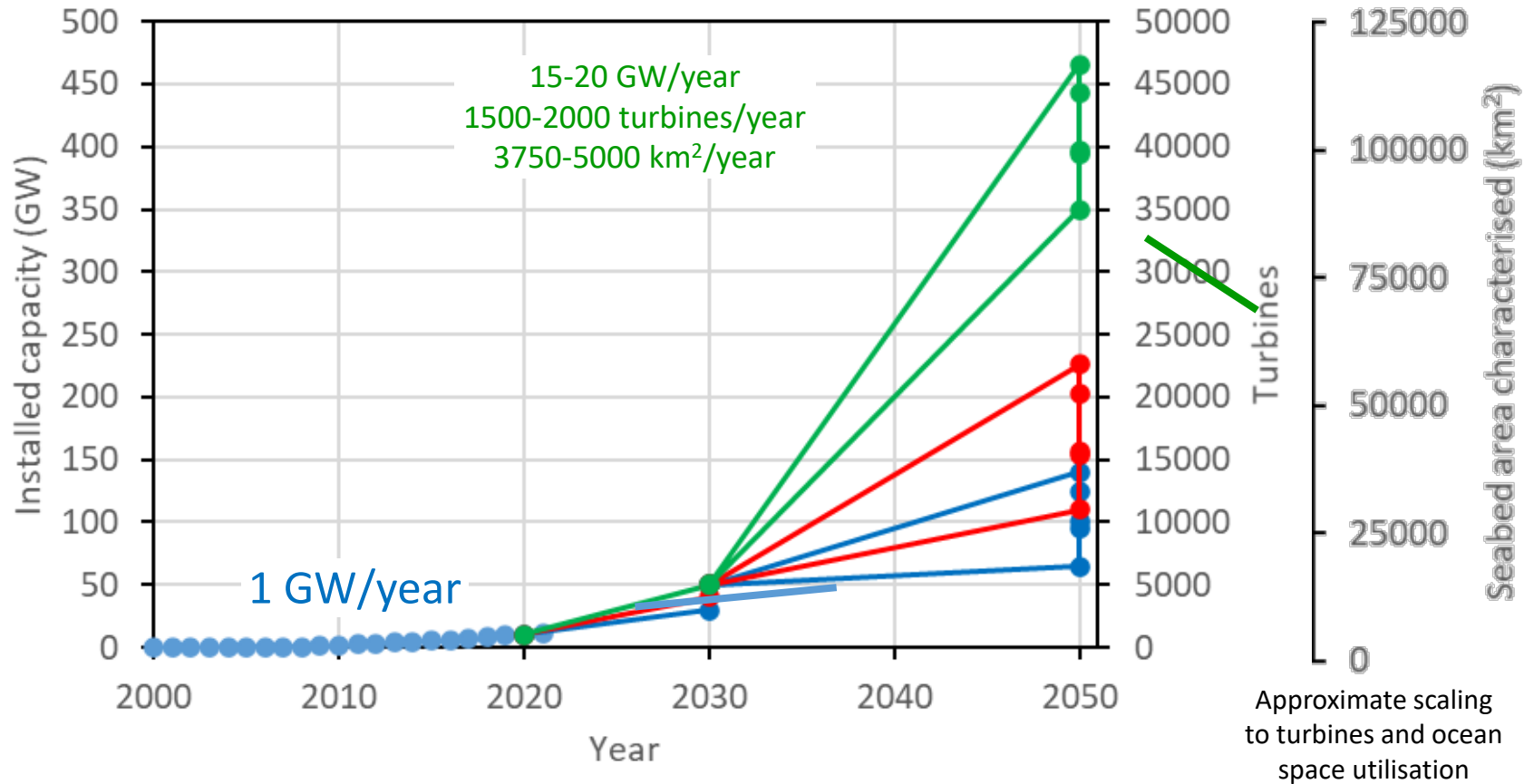


CORE WP2 – Landscape themes A, B & G

Sites and conditions for future ORE

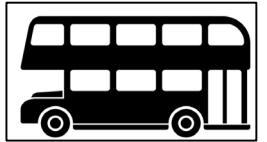
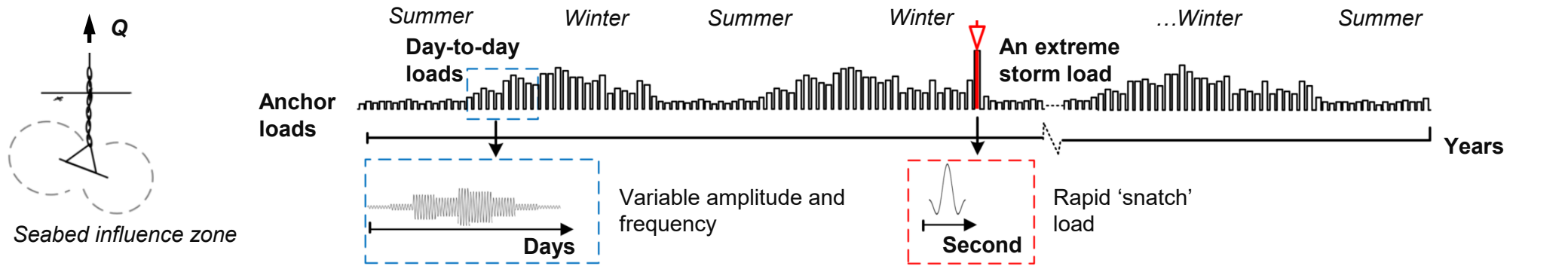


Source: Crown Estate, Coles et al. 2021, UK Govt. HMSO, OWIC/OREC 2020, Putuhena et al. 2022

Example: Anchors for floating wind

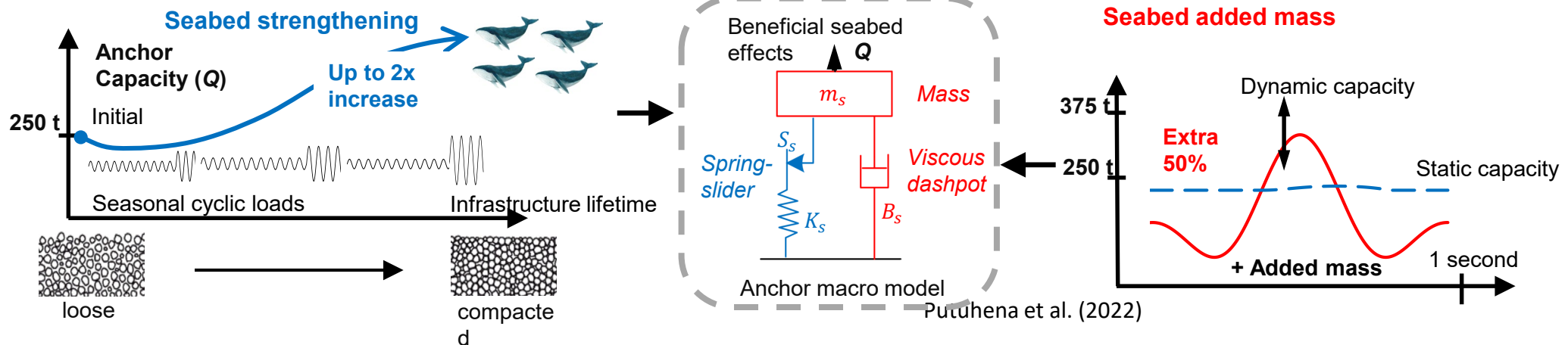


Loads on anchoring systems



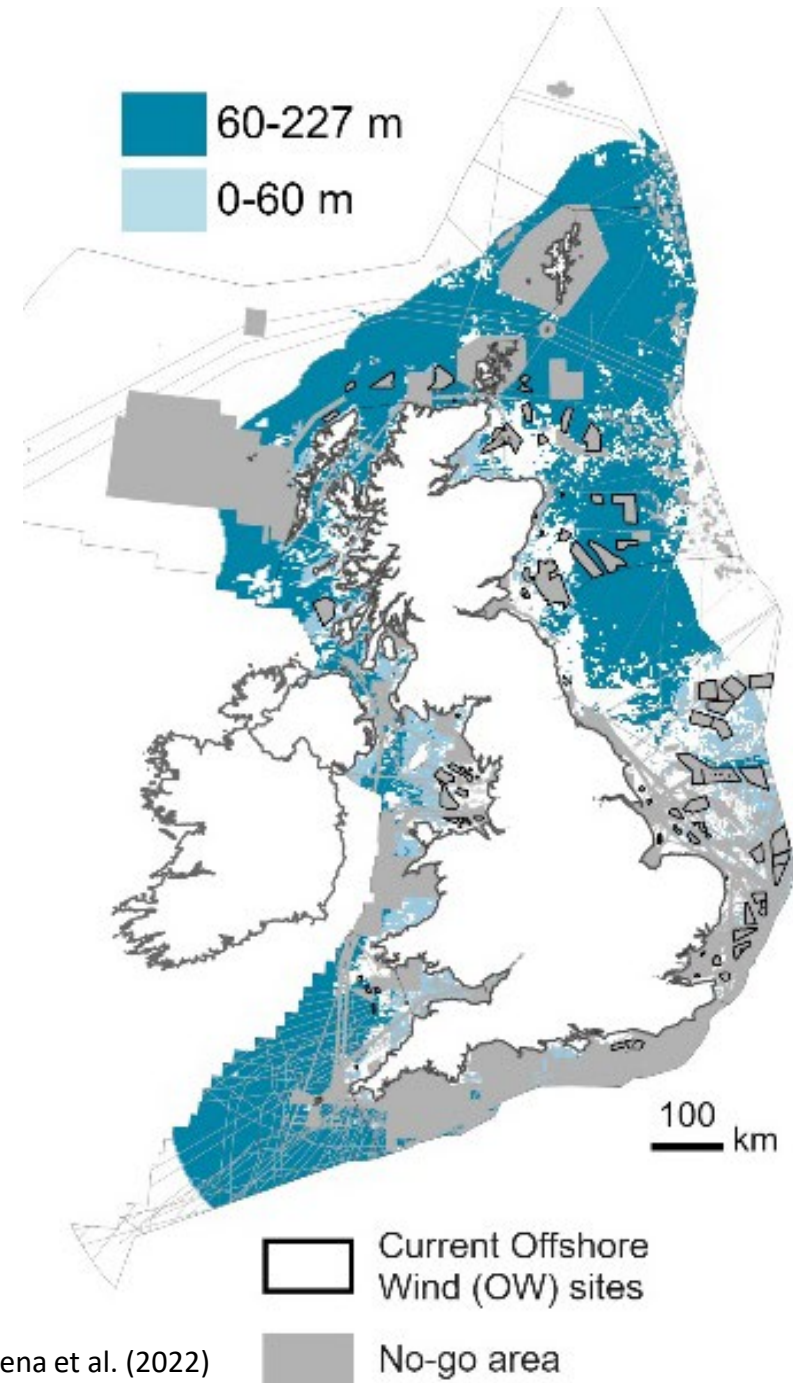
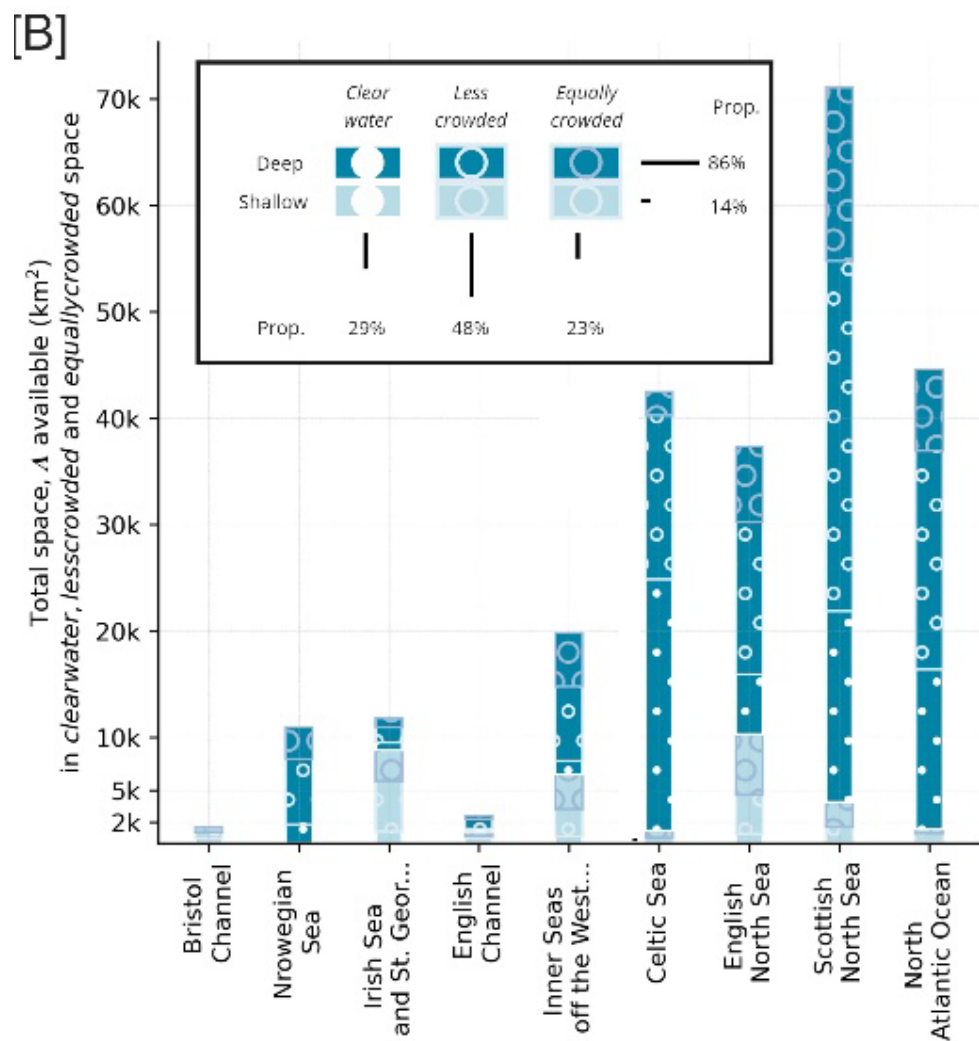
Katherine Kwa

Anchor capacity enhancements



Outcome: smaller and more efficient moorings and anchors

Ocean congestion?



Hugo Putuhena

See more details on poster!

Putuhena et al. (2022)

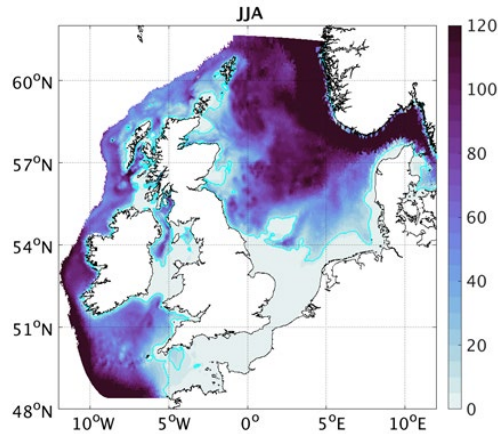
CORE WP2 - Landscapes A & G and Flexi/ECR

Fine scale to large scale physical/ecosystem aspects)



3D Hydro Dynamic models (FVCOM) predicting PEA from 10 m to 10,000 m scales

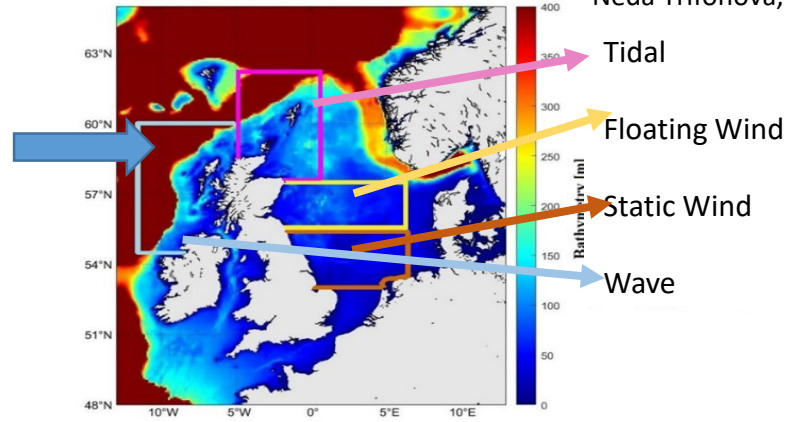
Michela De Dominicis, NOC



Ecosystem predictions on effects (both positive and negative in contrasting habitats)



Neda Trifonova, UoA



ECR

- **Enhance knowledge of the complex fluid dynamics involved in tidal turbine farms** as well as to understand the additional physics required to simulate wind farms operating in atmos. Pablo Ouro, University of Manchester
- **Going where modern technology cannot: novel adaptations of conventional approaches to record seabird behaviour and fish communities in tidal stream environments.** James Waggitt, Bangor University
- **Reducing economic and environmental trade-offs between offshore wind and fisheries.** Lilian Lieber, Queens University Belfast
- **Dynamic Subsea Power Cables in Offshore Renewable Energy - the Impact of Marine Growth.** Andrew Want, Heriot Watt University

Flexi funds

- **Flow measurement for accurate tidal turbine design.** Anna Young, University of Bath
- **V-SCORES (Validating Surface Currents at Offshore Renewable Energy Sites).** Benjamin Williamson, University of Highlands and Islands
- **WTIMTS - Wave-Turbulence Interaction and Measurement for Tidal Stream.** Alison Williams, Swansea University
- **FORTUNE: Floating Offshore Wind Turbine Noise.** Denise Risch, Scottish Association of Marine Sciences
- **FASTWATER: Freely-Available mesoScale simulation Tool for Wave, Tides and Eddy Replication.** Brian Sellar, University of Edinburgh