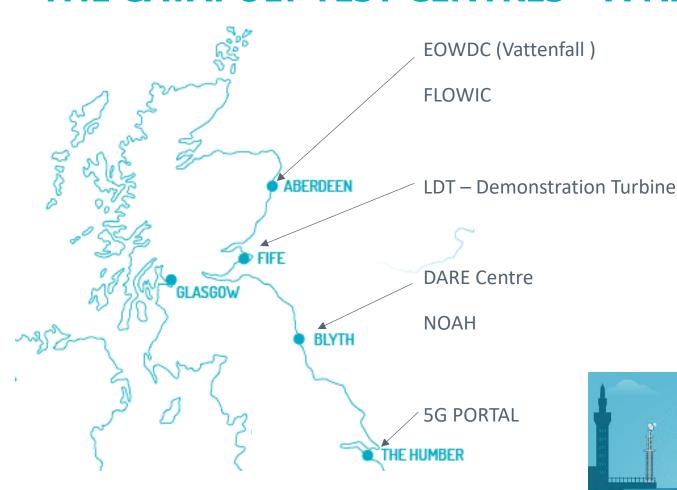


THE CATAPULT TEST CENTRES – A NATIONAL CAPABILITY

















DARE – DIGITAL, AUTONOMOUS & ROBOTIC ENGINEERING











- Command and control rooms
- Live asset monitoring systems
- Indoor assembly stations and storage
- Mechanical and electrical workshop

- Dry and wet dock
- Simulation seabed
- Blade sections
- Drone flying zone



5G PORTAL

- Private 5G network deployed across:
 - Operational wind farm
 - Operations and Maintenance port
 - In-field solar-powered research buoy
- Lab space
 - 5G onboarding lab
 - Operational data payload transfer
 - Data analysis and simulation/ modelling





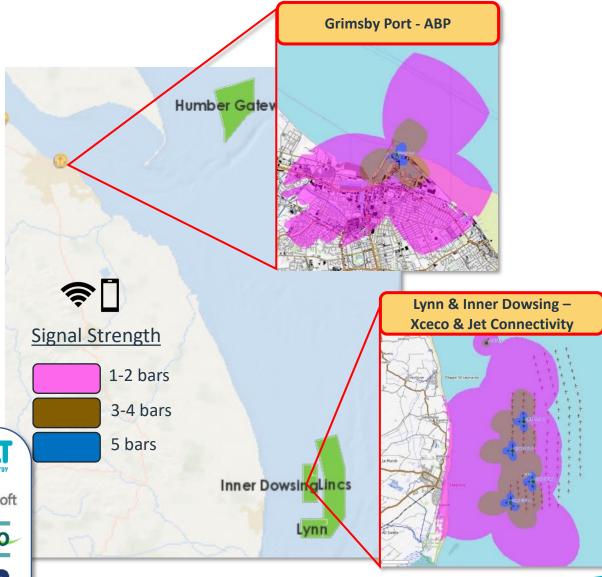














OFFSHORE ASSETS



LDT – Demonstration Turbine

- Instrumented, active working demonstration turbine
- Nearshore structure
- Vessel / land access



EOWDC – Aberdeen Bay

- Collaboration Agreement
- Vattenfall, Aberdeen region, EU
- 11 Vestas V164-8.0 MW Turbines
- Suction-bucket jackets
- Distance from shore ~3km



Lynn & Inner Dowsing – Grimsby

- Collaboration Agreement
- XceCo, GLID
- 54 SGRE 3.6 MW Turbines
- Monopile foundations
- Operated from Grimsby



NOAH – Offshore demonstration asset

- Instrumented met mast
- Inspection to foundation structure
- 40 metres depth



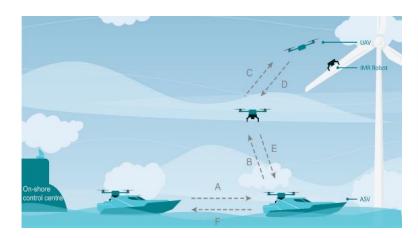
FUTURE

Simulation & Digital Twin Environments

- STUDS
 - RTI for RAS development and nested systems
- DOME
 - Common, high fidelity digital twin hosting environment

Offshore Demonstration Area

- 1 km² Ongoing Development
- South of the Blyth NOAH met mast
- Inshore of the existing EDF windfarm
- Will provide representative conditions for testing technology in an offshore environment.











CONTACT US

Email us: info@ore.catapult.org.uk

Visit us: ore.catapult.org.uk

Engage with us:









GLASGOW

BLYTH

LEVENMOUTH

GRIMSBY

ABERDEEN

CHINA

LOWESTOFT

PEMBROKESHIRE

CORNWALL

