

6th December 2016 | Lowestoft

Offshore Wind Meet...

Oil & Gas, Defence, Space

Sandpit Session

Dr Nee-Joo Teh

Energy Systems Lead

+44 7964 563613

neejoo.teh@ktn-uk.org

Innovate UK

Knowledge Transfer Network

ktn-uk.org @KTNUK

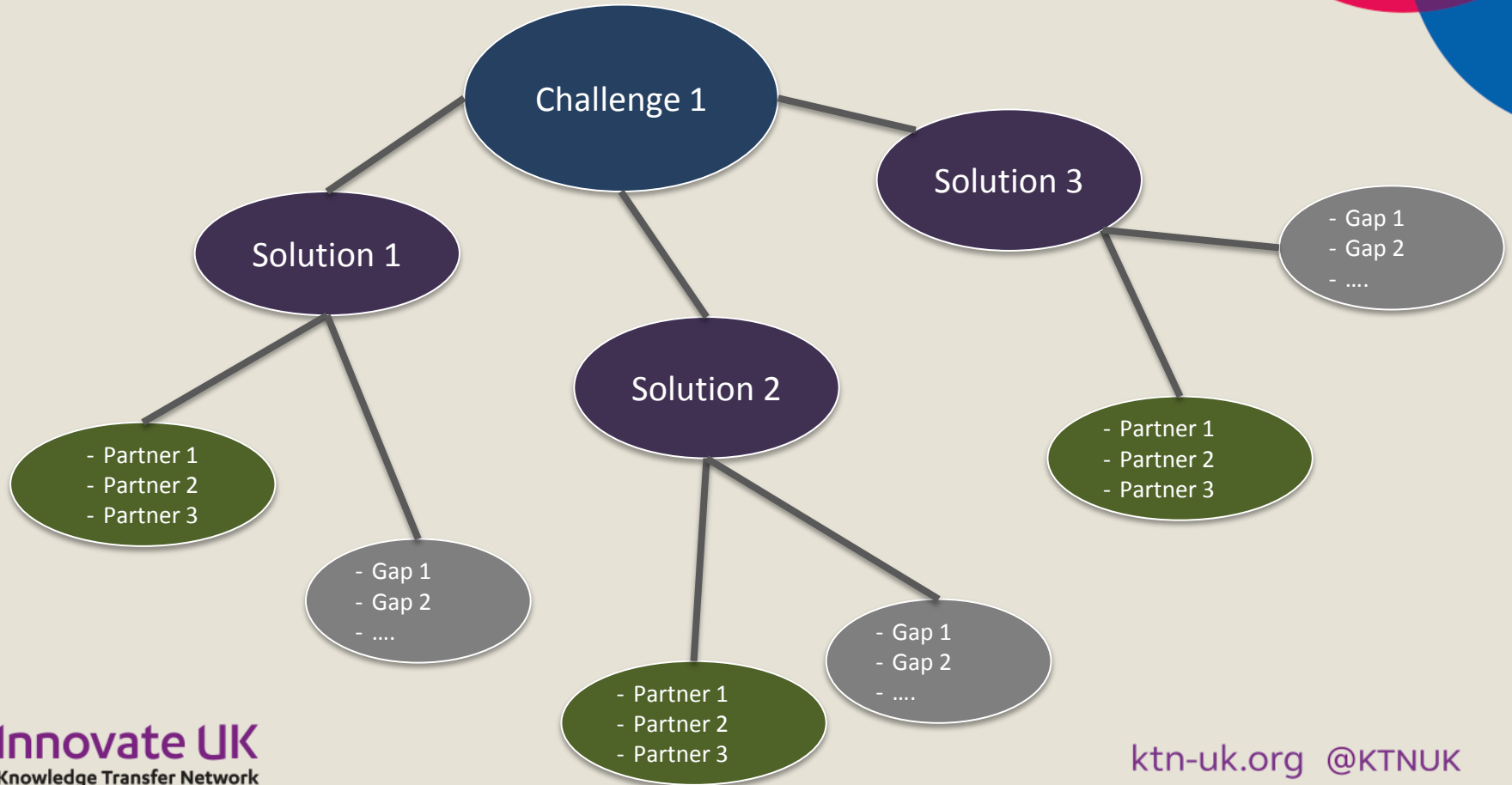




Sandpit Format

- Delegates divided into 3 groups by coloured sticker on name badge
- Each table will be supported by a facilitator
- 4 challenge areas, 25 minutes allocated per area
- Output from a group should be a brainstorm of potential solutions for each challenge area, captured as a MindMap
- MindMaps will be collated and shared after workshop

Output Capture



Challenge Topic 1



1. Survey & Inspections

The costs of cable, scour and turbine tower and blades inspection are high. This is partly driven by the need for vessels and constrained weather windows.

What can other sectors offer in terms of autonomous remote inspection from sea, air or space?

Challenge Topic 2

2. Lifetime Asset Management

O&M is currently a mixture of time-based scheduled servicing and corrective maintenance. Costs could be reduced and lifetime increased by moving to condition based or risk-based maintenance.

What can other sectors offer in terms of tools for optimising O&M?

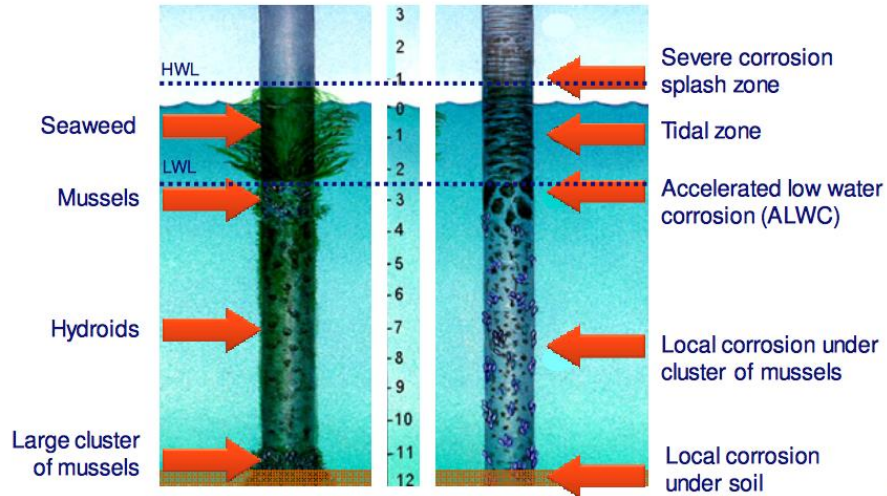


Challenge Topic 3



Types of fouling

Types of corrosion



3. Materials & Coatings

Offshore wind turbines operate in harsh environments and there are issues with blade erosion and substructure corrosion.

What can other sectors offer in terms of new materials for subsea and airborne protection?

Challenge Topic 4



4. Communications & Connectivity

Being able to maintain communication with offshore workers can be difficult. It can also be challenging to extract data from monitoring devices offshore.

What can other sectors do to ensure that we can maintain constant communication with personnel and equipment in remote locations and in a variety of weather conditions?

Thank you!

Dr Nee-Joo Teh

Energy Systems Lead

+44 7964 563613

neejoo.teh@ktn-uk.org

Innovate UK

Knowledge Transfer Network



ktn-uk.org @KTNUK