



# MacArtney

*Innovating SubSea Defence Communication  
&  
Surveillance Solutions*

***Innovating SubSea  
Defence Communication  
&  
Surveillance Solutions***



- Global Headcount: 478
- 100% Family owned
- Headquarter in Esbjerg, Denmark
- Supplier of underwater solutions and applications
- Global access to local support

## **Agenda**

### **CONTEXT**

- Going Hybrid
- A rising trend

### **MacArtney SHIELD**

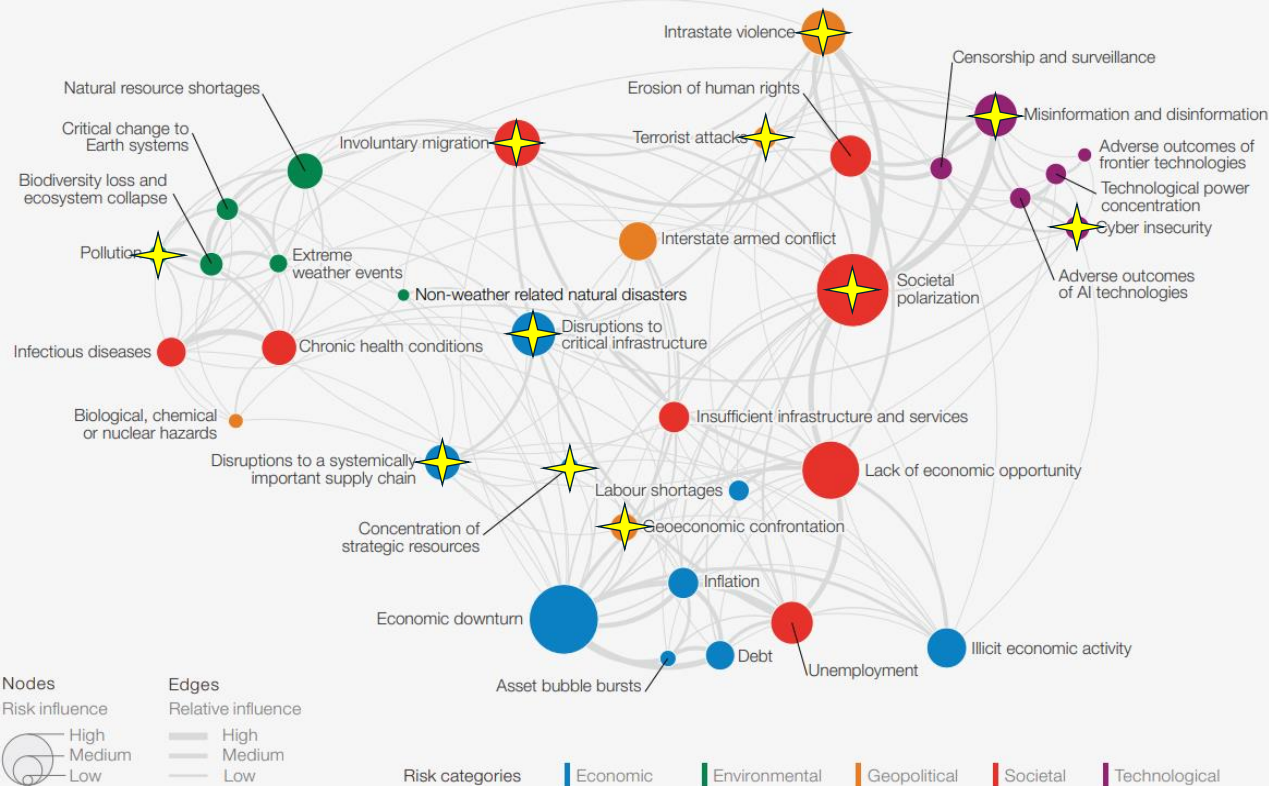
- OX2 Experience
- Our Approach

### **Next Steps**



# The Global Risks Report 2024 – WEF – Global risk landscape

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UNDERWATER TECHNOLOGY



Agenda

Context

MAS

Next Steps

Wide  
spectrum

Difficult to  
read

# Hybrid Warfare

Mixing kinetic effects with non-kinetics tactics,  
eroding overtime adversary willingness and  
resources

Deniability

Targeting

Below the  
threshold

Agenda

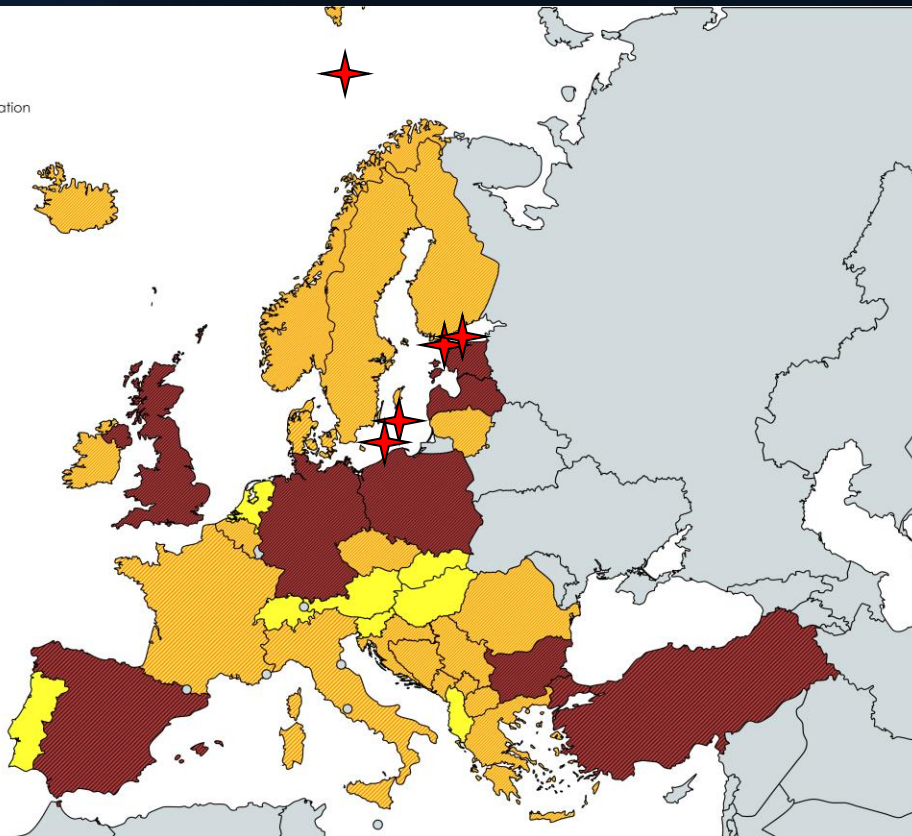
Context

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Next Steps



■ Intelligence  
■ Intelligence and Destabilization  
■ Full spectrum



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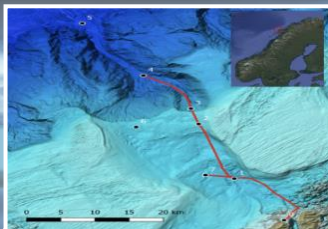
Context

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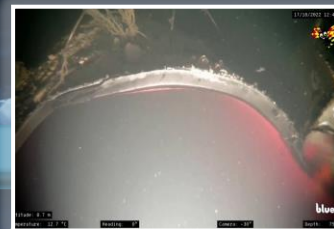
Next Steps



2019  
Syria sabotaged  
pipelines



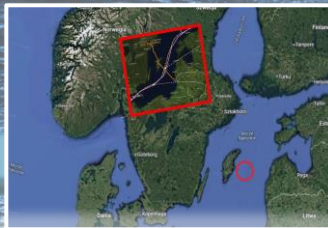
2021 - LoVe Event



2022  
NorthStream Event



2023  
Baltic Connector  
Event



2024  
BCS/C-Lion 1 Event



2024  
Estlink-2 Event

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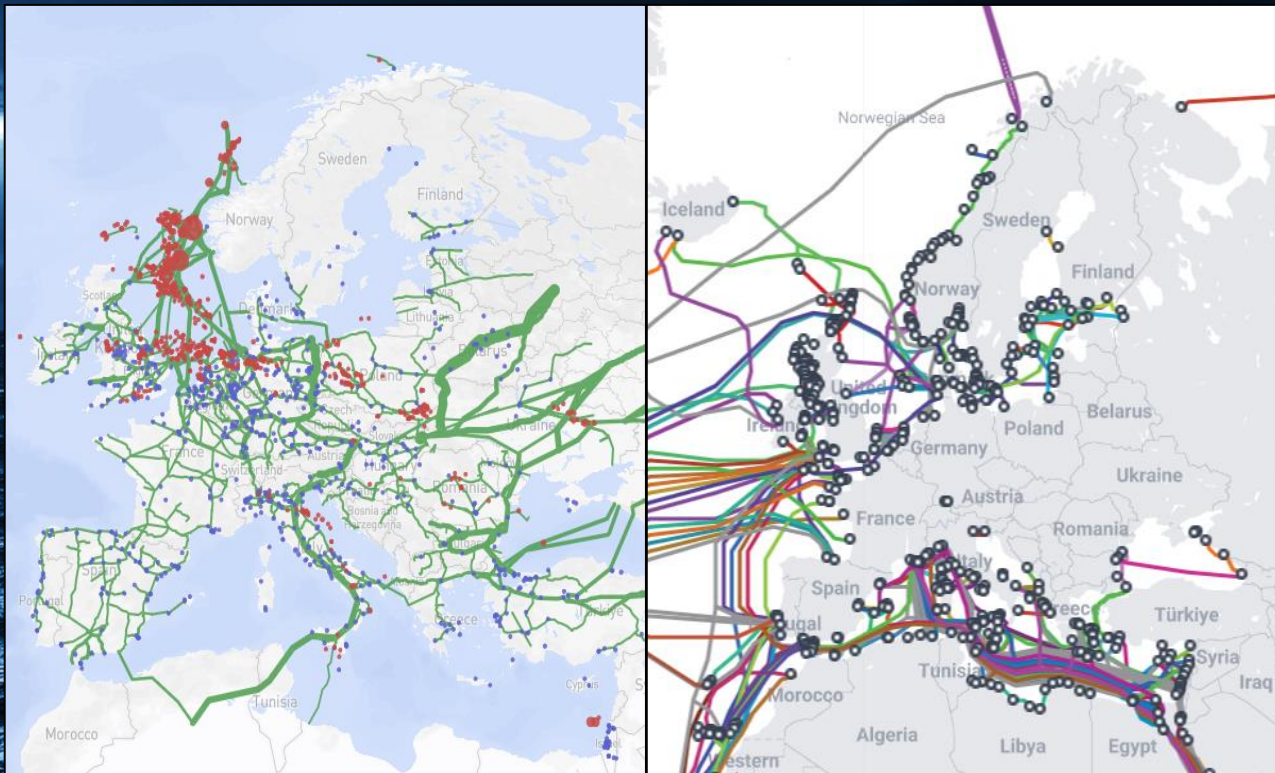


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# GTI 2024 Overall Results

MEASURING THE IMPACT  
OF TERRORISM

## THE IMPACT OF TERRORISM



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TERMA<sup>TM</sup>

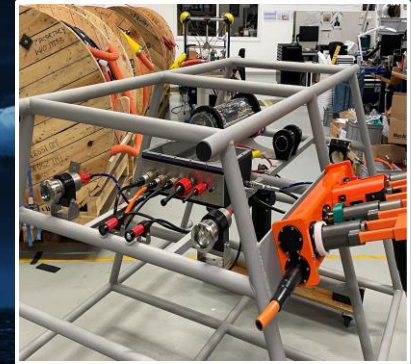
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AP SENSING  
advanced photonic



*To verify an initial capability to deploy a virtual  
fencing and discover/analyze, in a stand off  
location and in real time, possible threats coming  
from multiple platform*



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- Light/Ultra Light UAV\*
- Small ROV\*
- Divers
- Fast boat
- Anchor Towing
- Surface/Air POL

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A surreal landscape featuring undulating sand dunes in the foreground, illuminated by a bright, low sun or moon. The sky is dark and filled with wispy clouds, with a strong light source creating a lens flare effect across the upper portion of the image. The overall mood is mysterious and ethereal.

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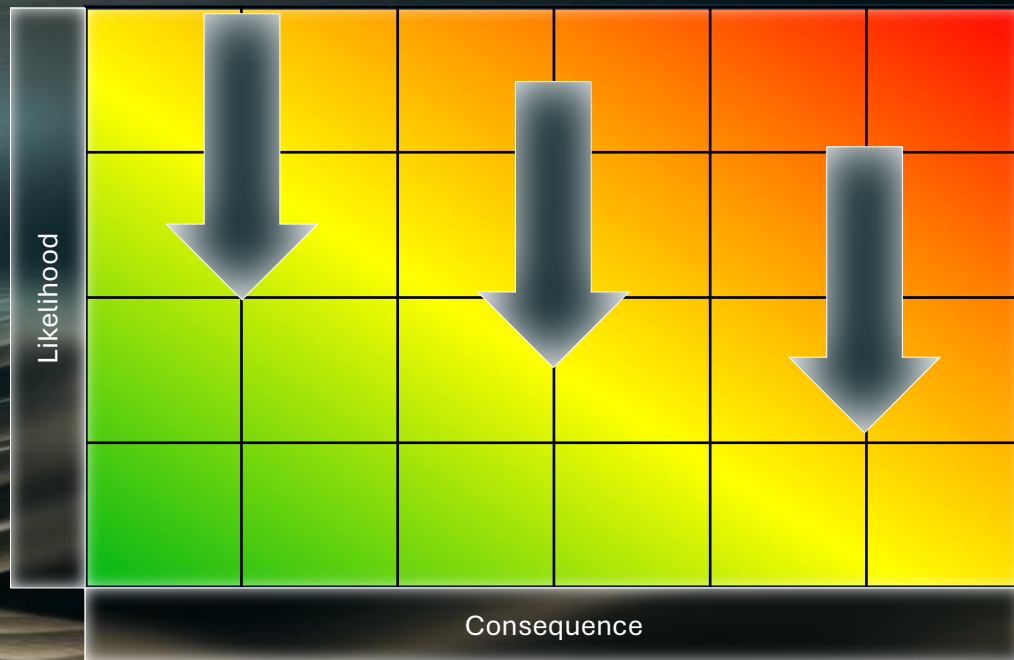


## MacArtney Shield

Securing SubSea Operations

ROSETTA STONE

COMPARTMENTED INFORMATION  
DISTRIBUTION IS NOT AUTHORIZED



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## MacArtney Shield

Securing SubSea Operations

ROSETTA STONE

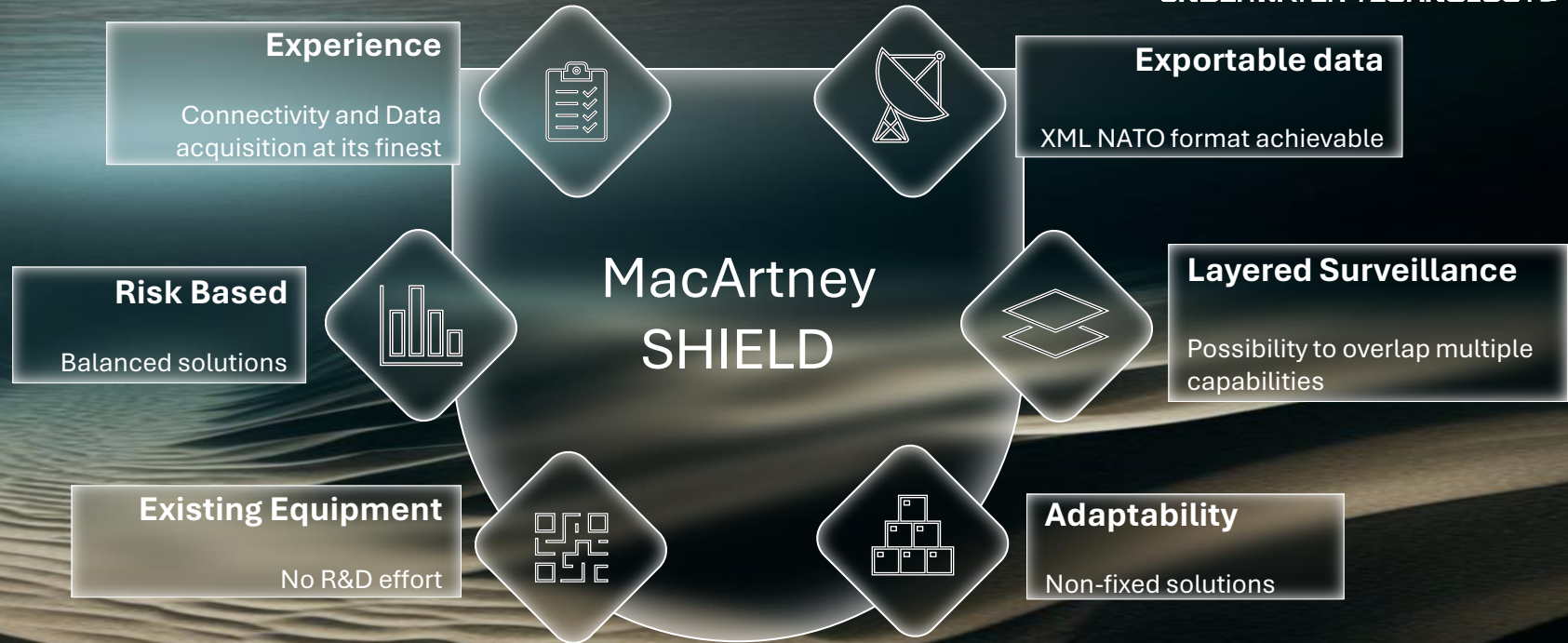
COMPARTMENTED INFORMATION  
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## Why a fixed surveillance system?

For the same reason there are CCTVs in banks:

- Situation awareness;
- Black-box capabilities;
- Deterrence;
- Cost/effectiveness.





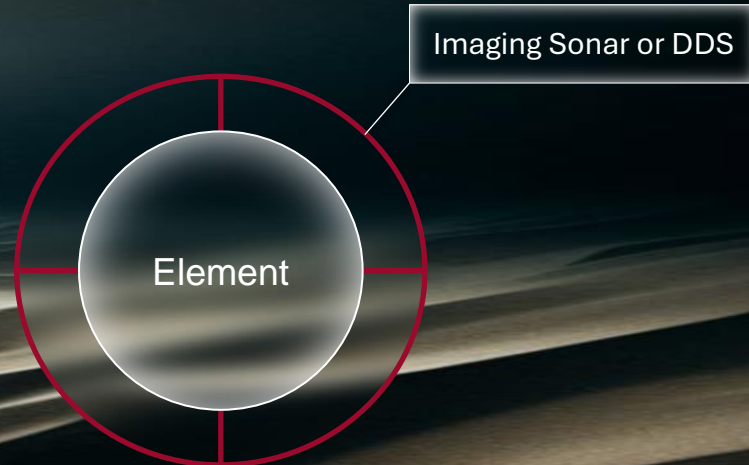
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# MacArtney SHIELD



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Passive Acoustic Array  
DAS  
AUV Survey  
Interface with Surf Sensors

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Imaging Sonar or DDS

DAS

Element

Element

Element

MacArtney  
SHIELD

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# MacArtney SHIELD

Passive Acoustic Array  
DAS  
AUV Survey  
Interface with Surf Sensors

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DAS

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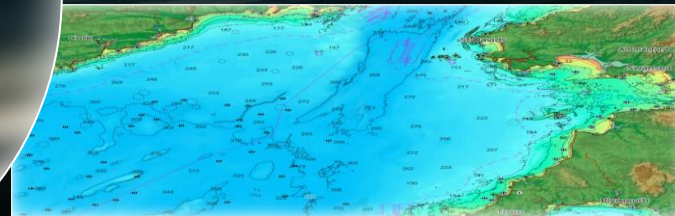
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# MacArtney SHIELD



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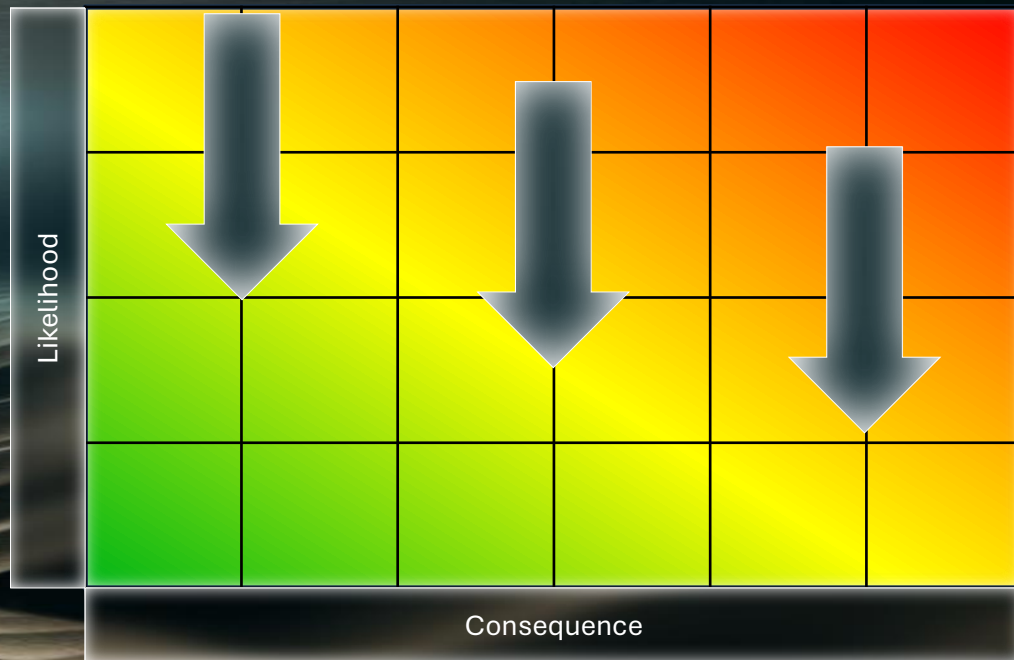
Next Steps

## MacArtney Shield

Securing SubSea Operations

ROSETTA STONE

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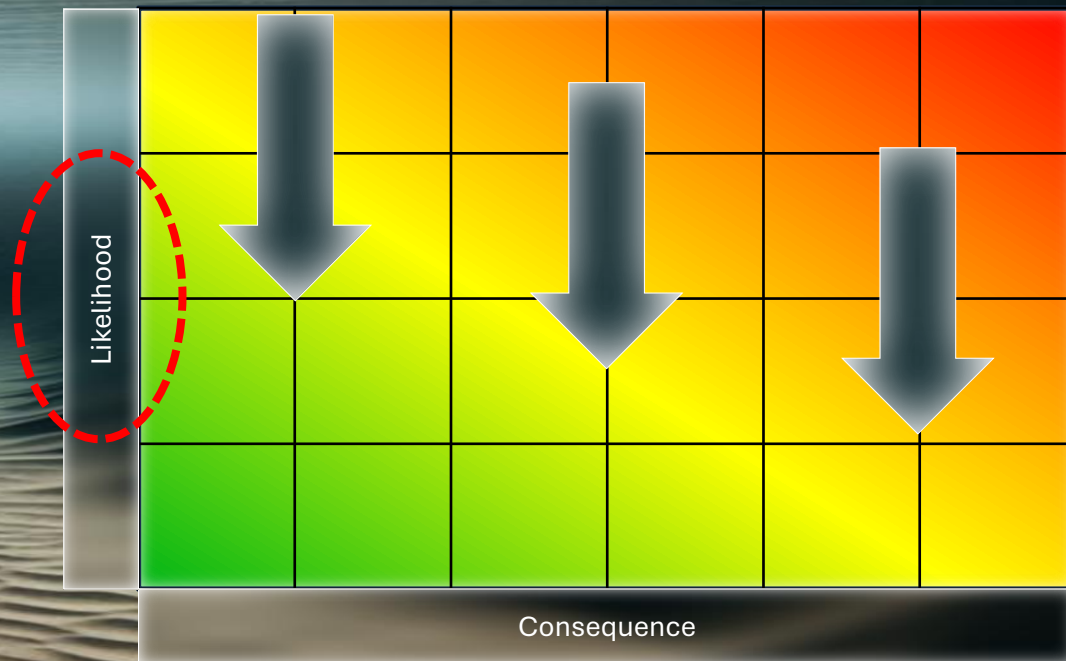
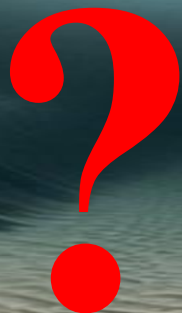
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MINISTRY FOR THE ENVIRONMENT, ENERGY AND  
PUBLIC CLEANLINESS

**INTERCONNECT**  
MALTA

REFERENCE NUMBER: MEEE 254/2023

INTERNAL REFERENCE: ICM 103/24

**PRE-QUALIFICATION QUESTIONNAIRE (PQQ) FOR THE AWARD OF  
A CONCESSION CONTRACT FOR THE DESIGN, CONSTRUCTION,  
OPERATION, MAINTENANCE, AND DECOMMISSIONING OF AN  
OFFSHORE FLOATING WIND FARM FOR RENEWABLE ENERGY  
SUPPLY**

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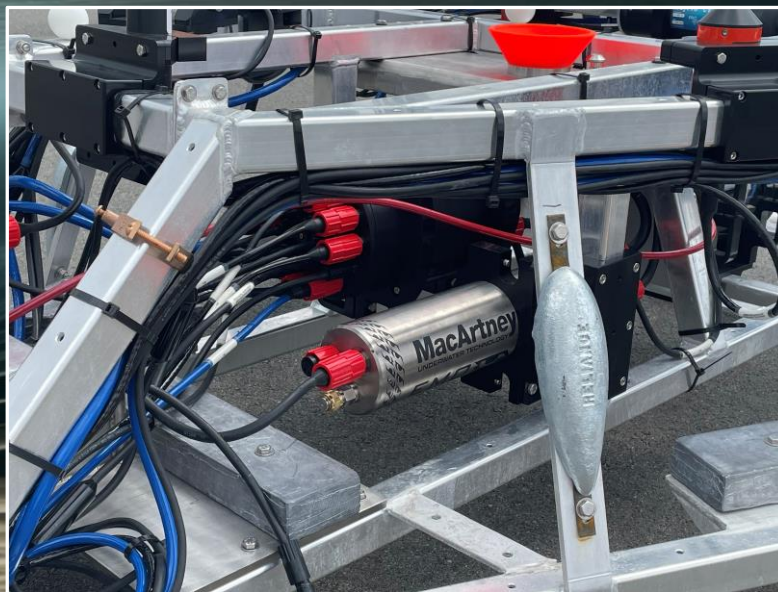
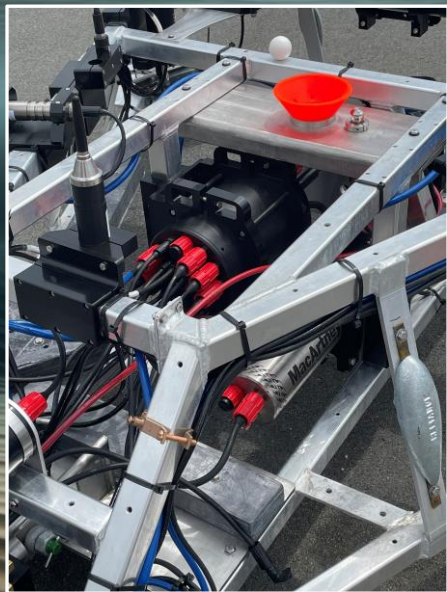
- 2.1.9 The Concessionaire shall take full responsibility of the protection, safety, and security of the offshore wind farm area including all the infrastructure in this area and the cable connections up to the grid connection point for the duration of the Term, until decommissioning. The area used for the deployment of wind turbines shall leave a corridor for the transit of fishing vessels.

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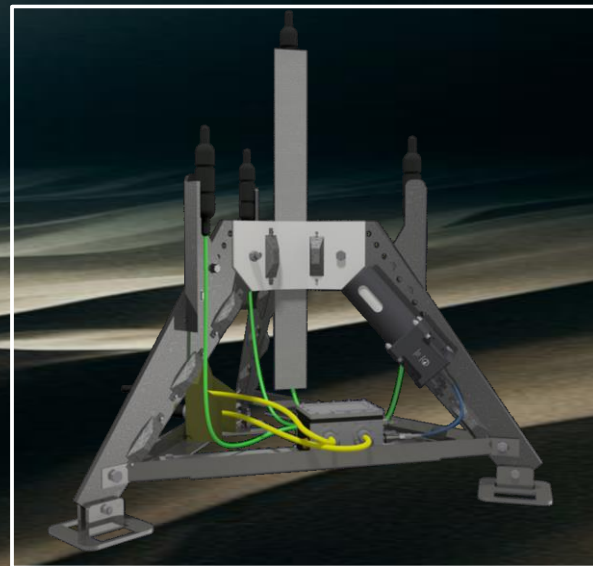
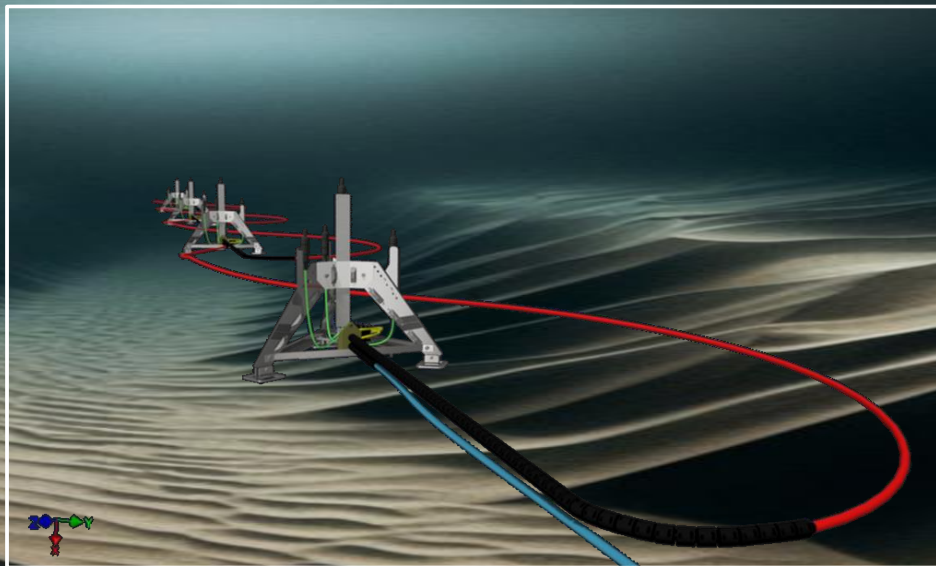
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**Come meet MacArtney at booth 3!**





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*Thank you for your attention*