Energy Institute

Fugro remote & uncrewed capabilities
Agenda

Accelerating the Energy Transition towards a Sustainable World

01 Fugro overview

02 Uncrewed assets

03 Remote infrastructure

04 The Future
Fugro overview
Overview of Solutions

**Consulting**
- Geology, geohazards, ground models metocean and environmental
- Geophysical surveys
- Environmental baseline surveys
- Geotechnical investigations and laboratory analysis
- UXO risk mitigation
  - Desk studies, survey, identification and clearance

**Metocean**
- Measurements, monitoring and forecasting
  - Desk studies, in-situ measurements, and real-time monitoring and forecasting of weather, currents and environmental conditions

**Positioning and construction support**
- Subsea survey and inspection
- Structural monitoring

**Positioning and (de)construction support**

**Environmental monitoring**
- Pre/post decom surveys

**Updates to the ground model to support O&M**

**Geo-data throughout the project lifecycle**
Uncrewed assets
Remote operations remit

SAFER  FASTER  SUSTAINABLE
USV Fleet for O&M

**BLUE VOLTA**

**BLUE ESSENCE**

**BLUE ECLIPSE**
USV Approach - Safer

People offshore reduced from 35 POB to 0 POB
USV Approach - Faster

Data insights improved from 3 weeks to 3 hours
Fuel consumption reduced from 7,000 ltr per day to **200 ltr** per day
USV with eROV payload

80% of the capability for 5% of the fuel with 0 POB
Remote infrastructure
REMOTE OPERATIONS CENTRES

Powering end-to-end remote and autonomous solutions, from anywhere around the world.
Remote Operations Centre Video

Click HERE for ROC Video
04
The Future
A Carbon Neutral Robotic Fleet
Contributing to a safe and liveable world

- >20 Uncrewed Surface Vessels (USVs) by 2025
- Able to acquire, analyse and advise anywhere at anytime
- 5% of the fuel usage compared to current fleet

- Industry leading Remote Operation Centre (ROC) network
- Capable of connecting our experts all over the world at anytime

- Robust communications
- Connecting people with robots around the world
Thank you

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