Defining the future – 'the new safe' MENA HSE Conference

Fugro Orca, North Sea, Inside 500m Zone

Part 1 Fugro at a glance



Our planet is a complex and dynamic system...





Accurate collection and interpretation of Geo-data is essential to mitigate risk

Geophysical Geotechnical Geospatial Metocean Environmental Positioning Asset condition Change detection

Fugro is the world's leading Geo-data specialist

Unlocking insights from Geo-data

Using our 'triple A' approach, we support our clients in managing their project risks during construction and operation of their assets, both on land and at sea



Unlocking Insights from Geo-data, for a safe and liveable world

Safety Always Matter Together we create a safe and liveable world

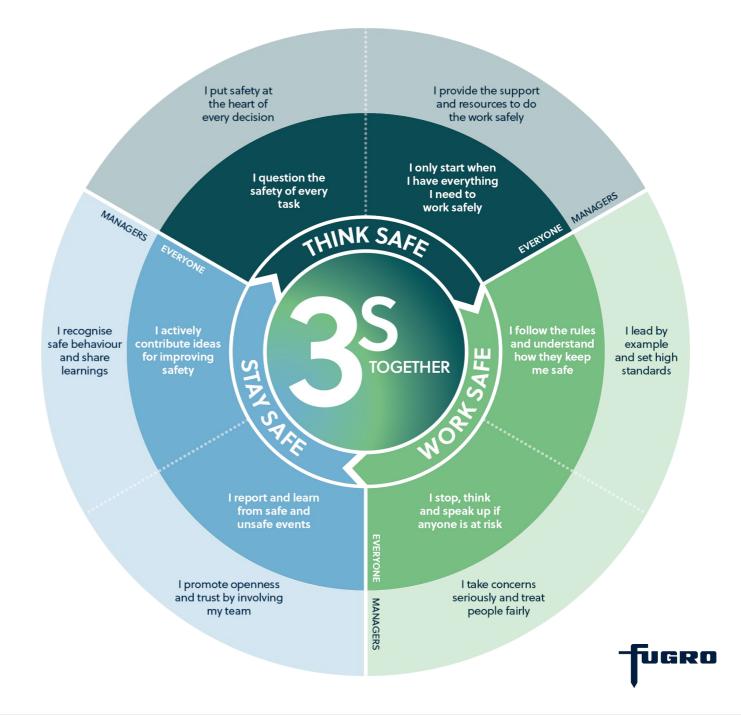
8



3S Together

The 'everyone' behaviours are based on our learnings from incidents and the outcome of the safety culture assessment carried out to help us understand where our safety challenges lie.

The 'managers' behaviours are linked to the everyone behaviours; it's about working together, building trust between each other to be the safest we can be.







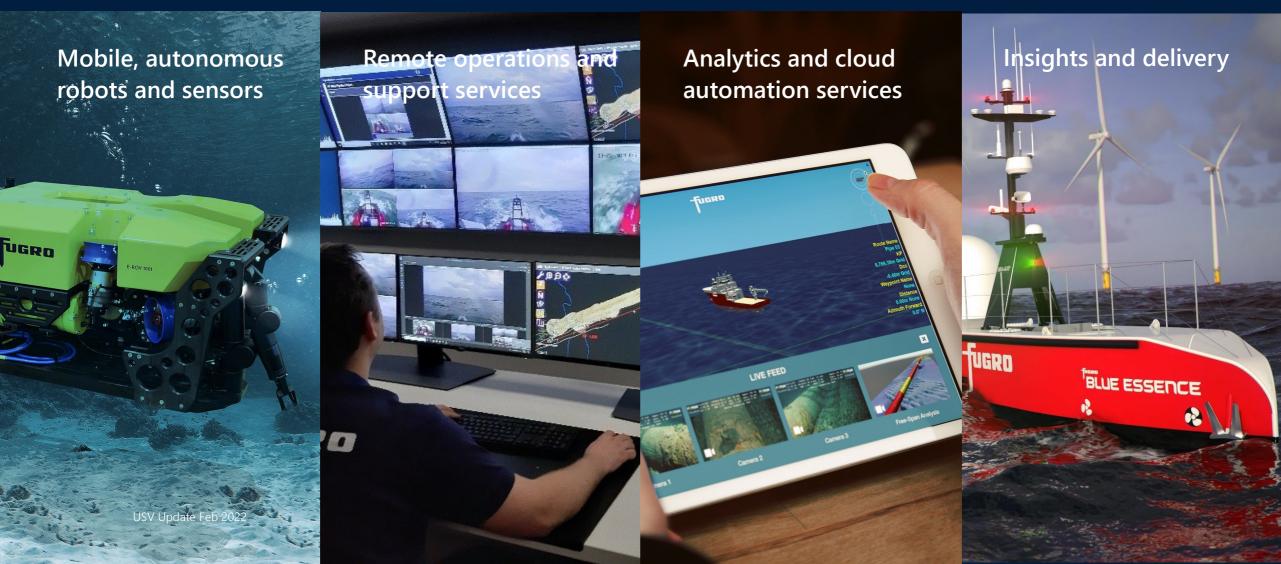
When the Life-Saving Rules are followed, we all get to return to our friends and family safely

Remote Operations Introducing new ways of working

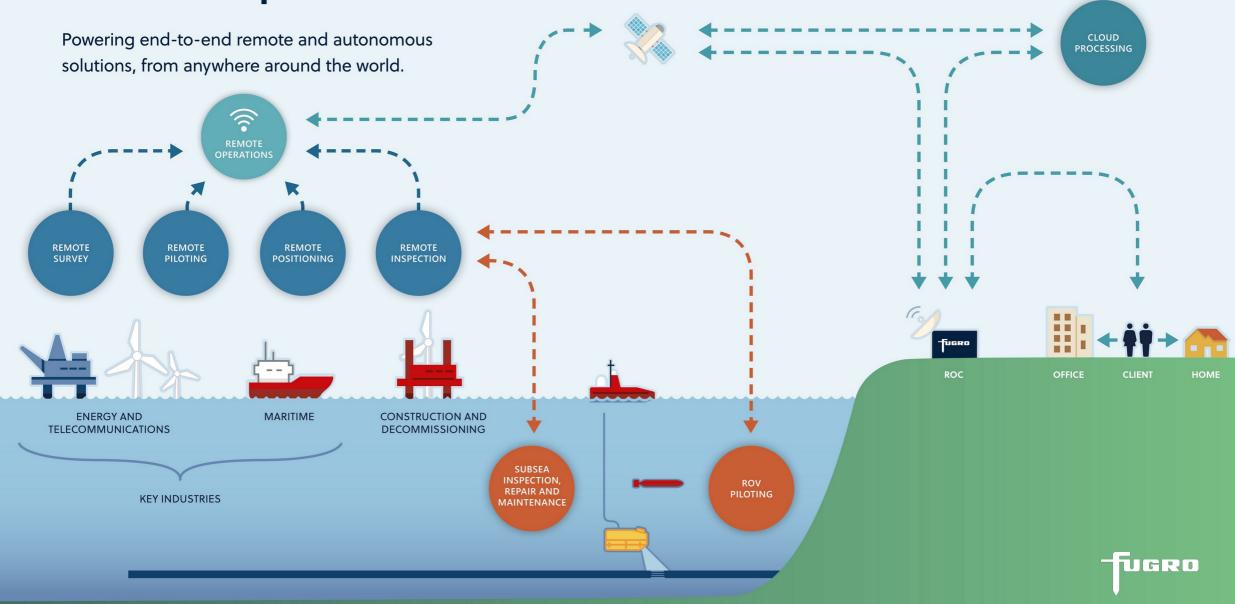


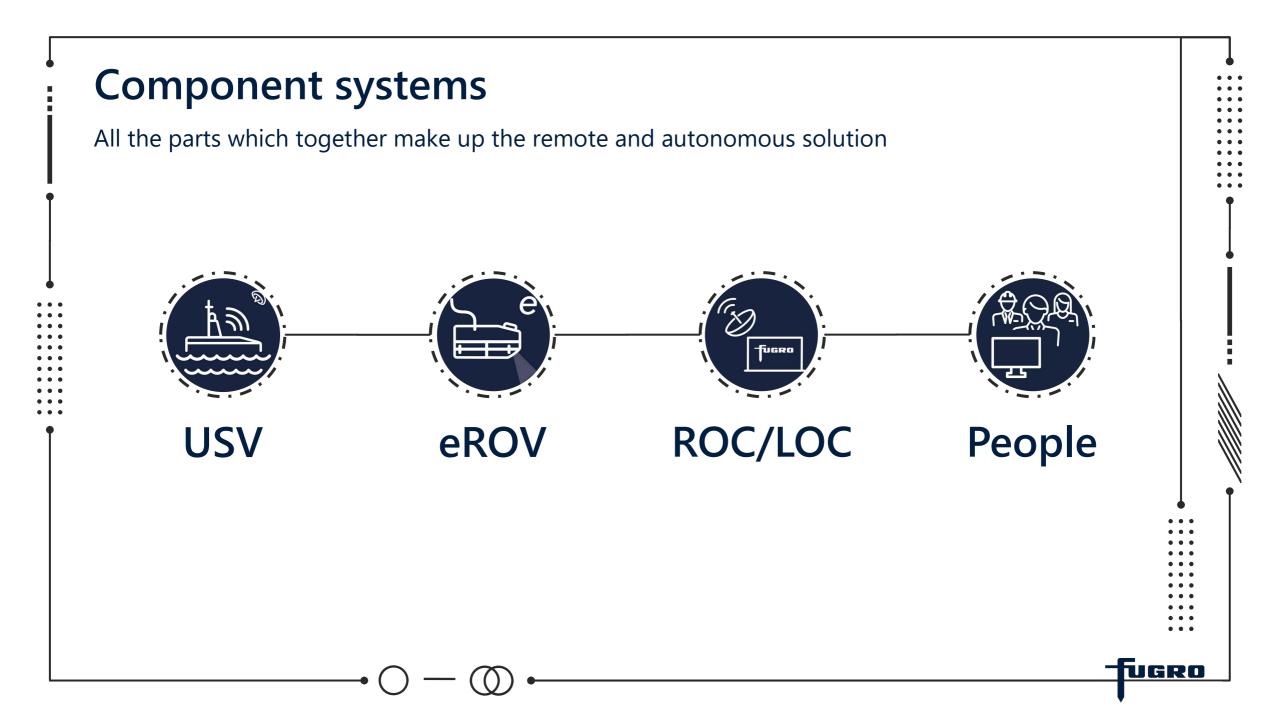
Differentiate by integrated digital solutions

Combining these building blocks into integrated digital solutions creates value for our clients



Remote Operations Centres





Introducing new operational models Applying traditional HSE practices



Introduction of new technology

Regulatory Gap Analysis

Identify what aspects of current legislation can be complied with through *conventional* means

Identify what aspects of current legislation could be complied with through *novel* means

Identify what aspects of current legislation cannot be complied with / would not be applicable



STANDARD

INOVATIVE

EGIS

Quantifying Risk

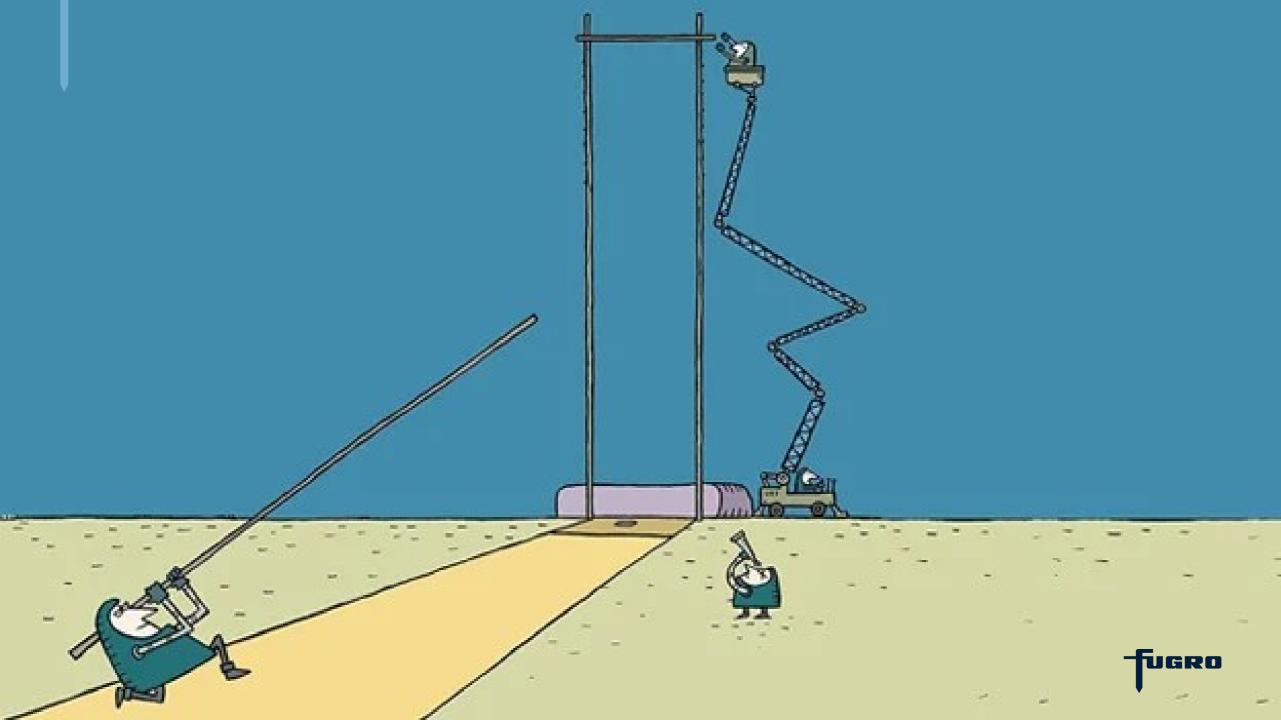
The new ALARP





Ensuring smart systems create safer environments Stay safe







The human in the loop Developing new ways of working











Shaping the connected mariner

How are we developing the human technology partnership?

Monitor and update operational models for MASS

Define new competence requirements

Review task statements

Compare and contrast against current standards

Review, update and add new job profiles



Current Status

MASS**People**

9 Flag State members

Zealand Regional Survey Groups

- UK
- Netherlands
- Norway

- Italy
- PolandNew

- France
- Belgium
- Denmark

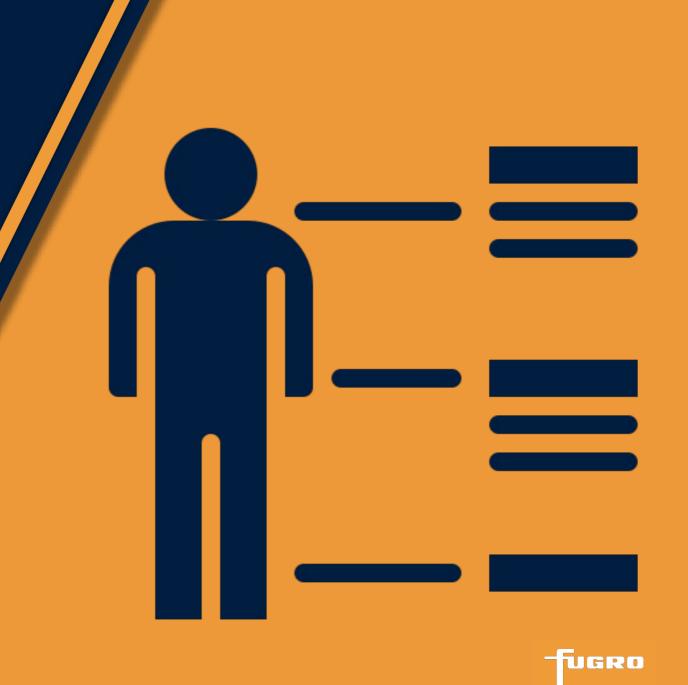
Regional Survey Groups established by the Flag State members to support in the information gathering process

MASS Acceptance

First deliverable due Q4 2022 – MASS Acceptance document highlighting current operational acceptance for MASS in each member Flag States jurisdiction

Who is the 'human in the loop'?

- Communications Specialist
- Marine Engineer
- IT Technician
- Navigation Officer
- Electronics Specialist





Unlocking **Insights** from **Geo-data**