



KONGSBERG



Collecting Ocean Science data from vessels and uncrewed platforms

ERVO – Faroe Islands
Magnus Grøtterud
Mapping sales manager - Nordics

KONGSBERG Group

Four business areas



Kongsberg Maritime



Kongsberg
Defence & Aerospace



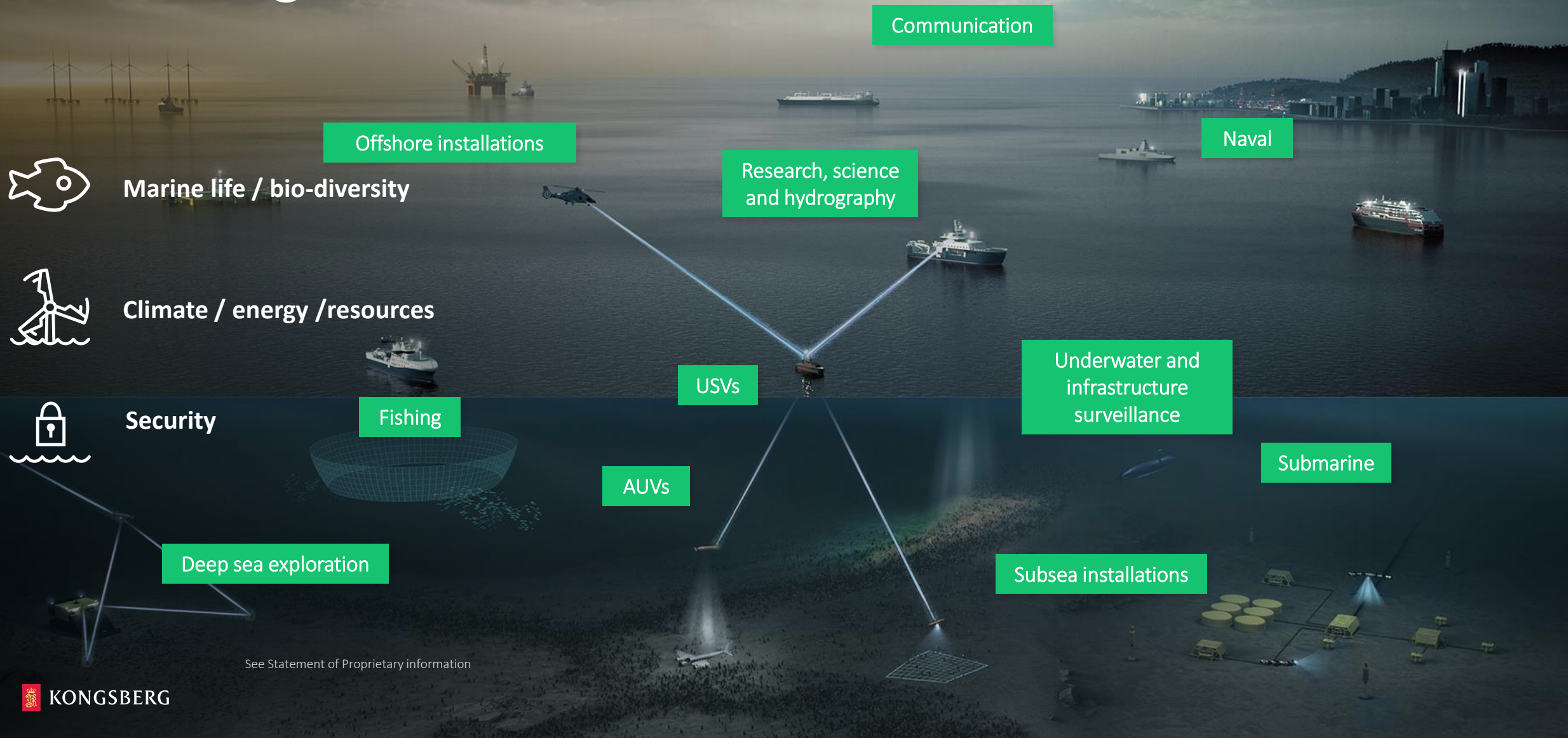
Kongsberg Digital



Kongsberg Discovery

Kongsberg Discovery - Vision

Discovering the **secrets** of the ocean



Kongsberg Discovery – Focus areas going forward

Strategic direction



Resilient navigation



Situational awareness



Platforms



Analytics



Sensors continuously in development



- Latest releases:
 - CP300 ADCP
 - EM2042 multibeam
 - Seapath positioning
 - Naxys hydrophones
 - Situational awareness
 - Drone radar
- In addition to lifecycle management, typically 10 years



HUGIN EDGE

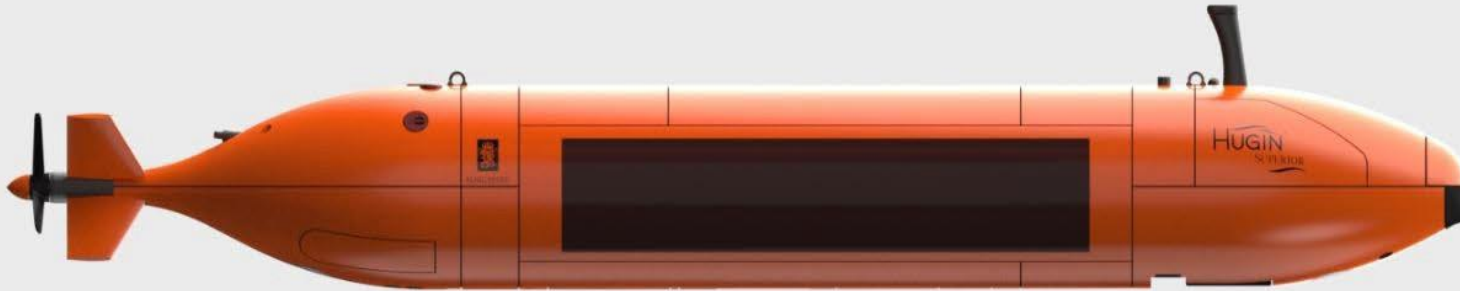
1000 meter depth rating
24 hours endurance

HUGIN[®]



HUGIN STANDARD

3000 or 6000 meter depth rating
Diameter = 875 mm
HISAS 1032



HUGIN SUPERIOR

6000 meter depth rating
Diameter = 875 mm
HISAS 1032 Dual Rx
80 hours endurance

HUGIN ENDURANCE

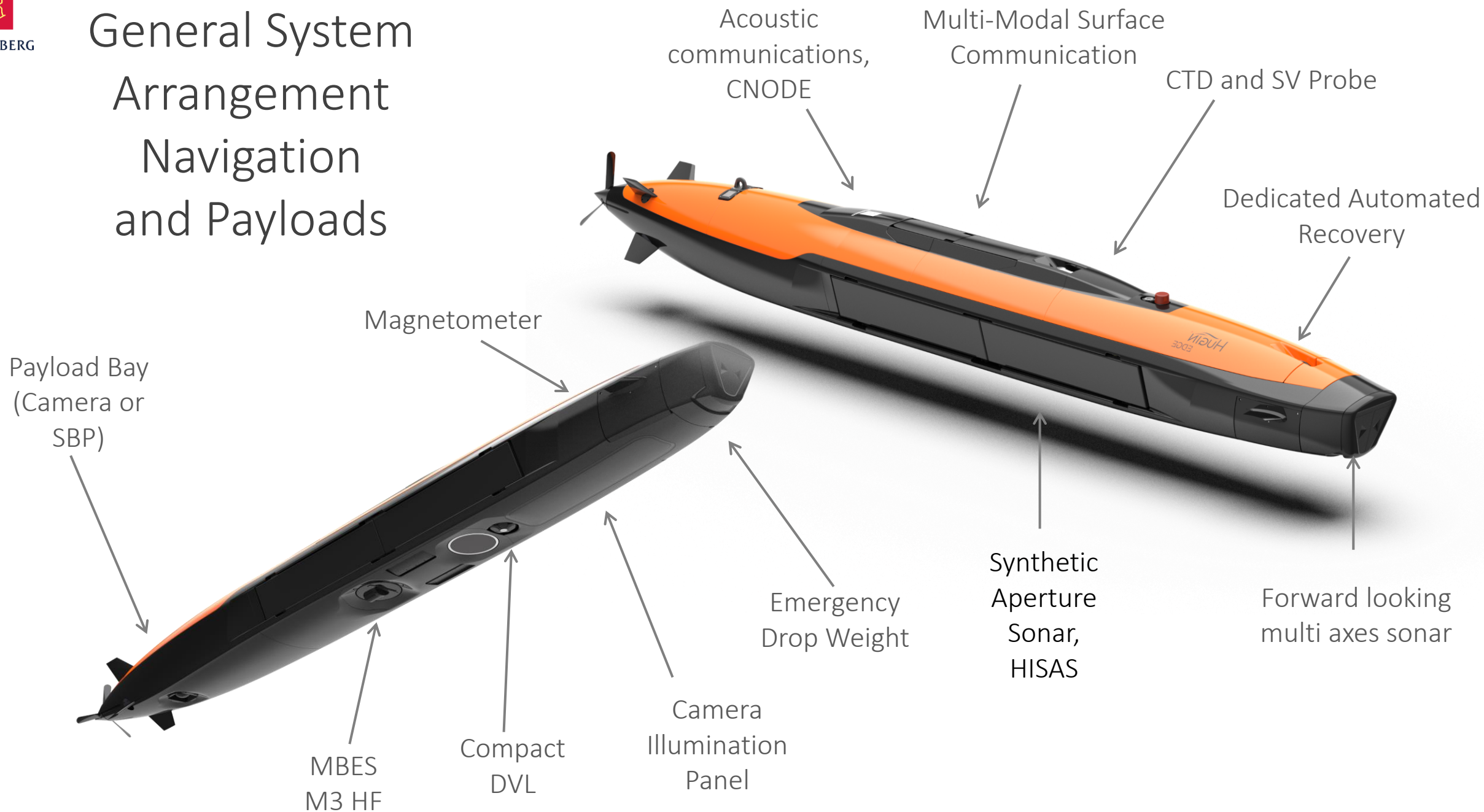
6000 meter depth rating
Diameter = 1200 mm
15 days endurance





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General System Arrangement Navigation and Payloads

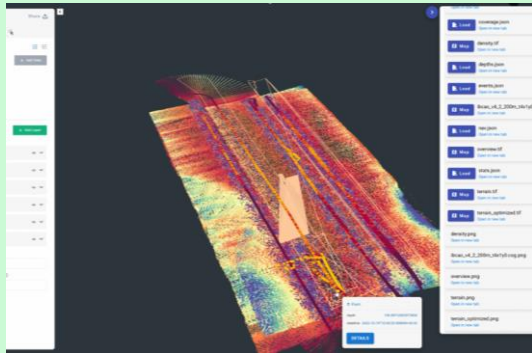


Product roadmap

Blue Insight

Geomatics | released 2025

Operational efficiency



- Catalogue acoustic & other ocean data
- Visualization and exploration of time and geospatial data
- Metadata management

Product Launch: Ocean Business April 2025

Analytics | Future release

Improved understanding



- Real time data processing for decision support
- Deployment of ML models to vessels
- Cloud processing orchestrator

(Ongoing delivery projects)

Remote | Future release

Remote operation



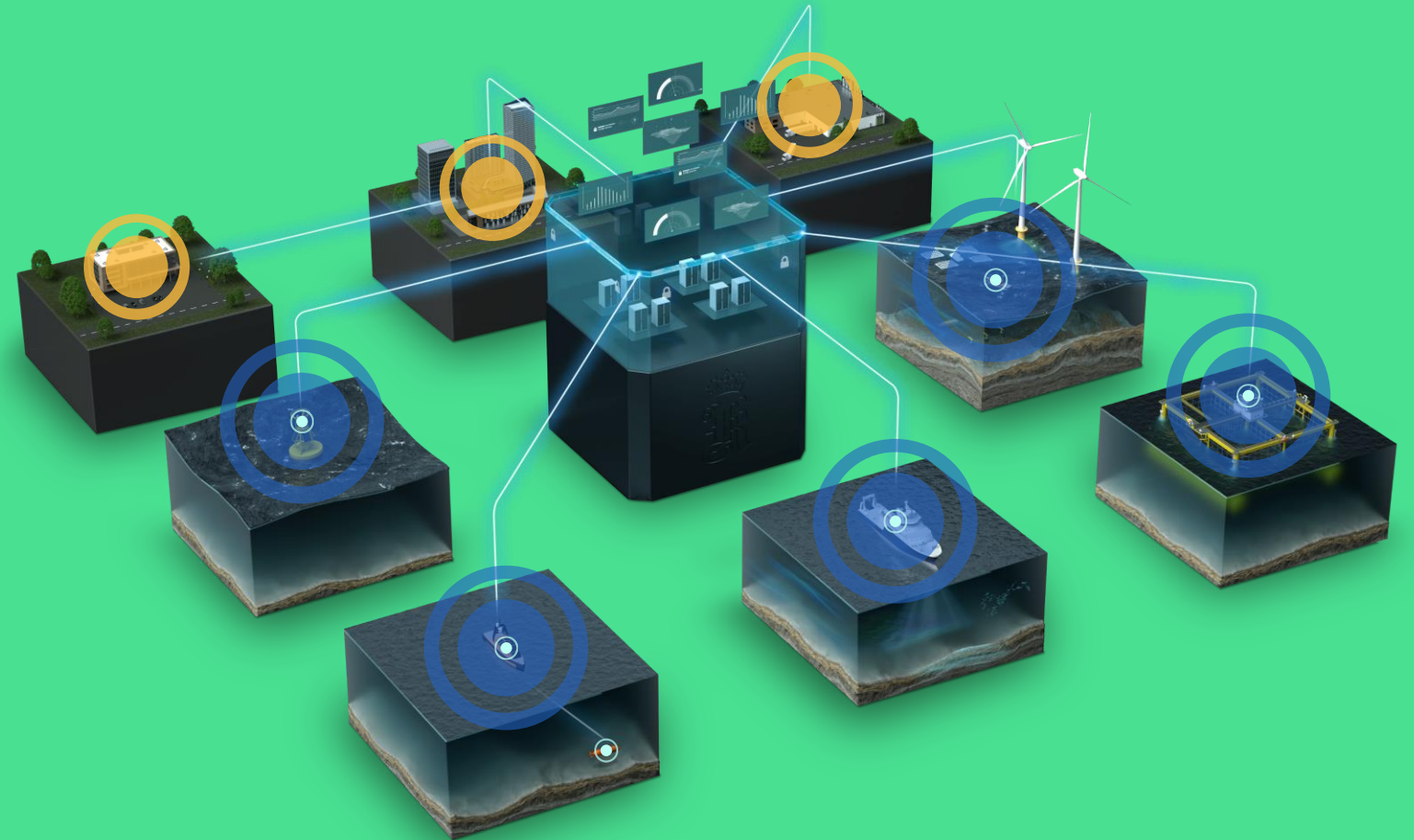
- Remote control of sensors
- Health monitoring of remote systems
- Efficient operation of sensors to assist decision making

(Ongoing delivery projects)

Blue Insight Geomatics

Connecting sensors to applications and users

A digital infrastructure to accommodate the needs of the modern spatial-temporal data analysis professional.



Sensors & Platforms

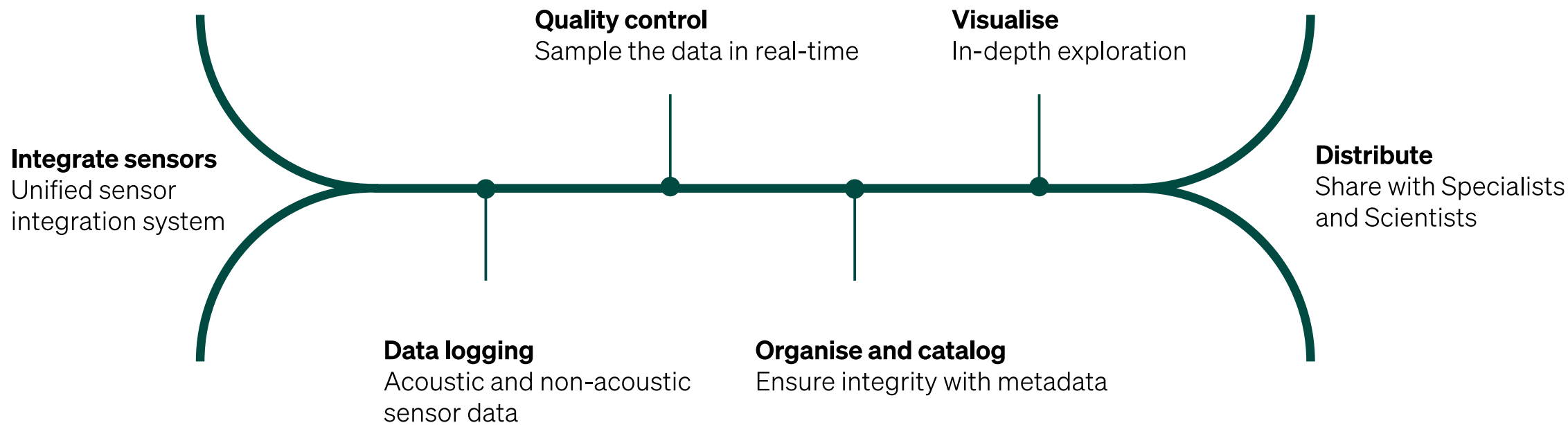


Applications

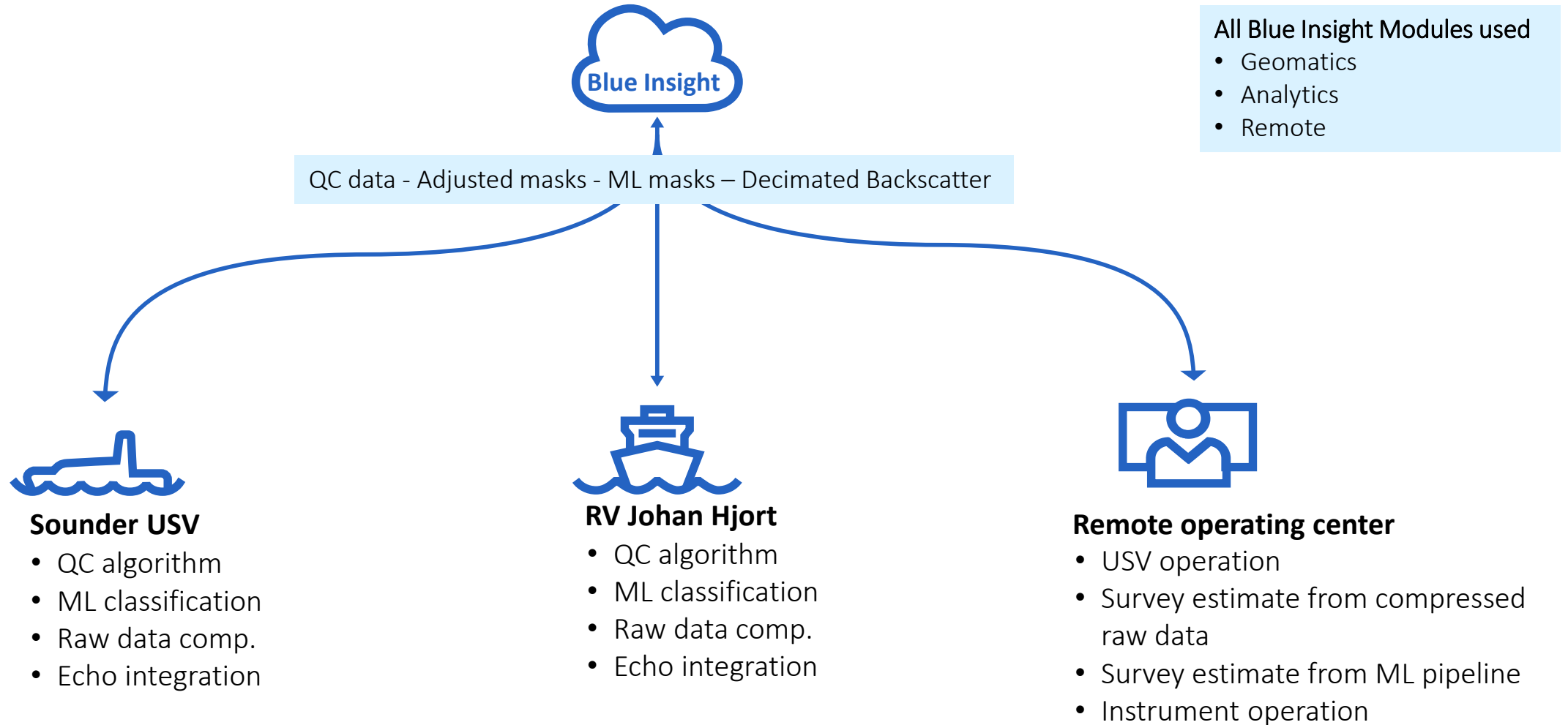


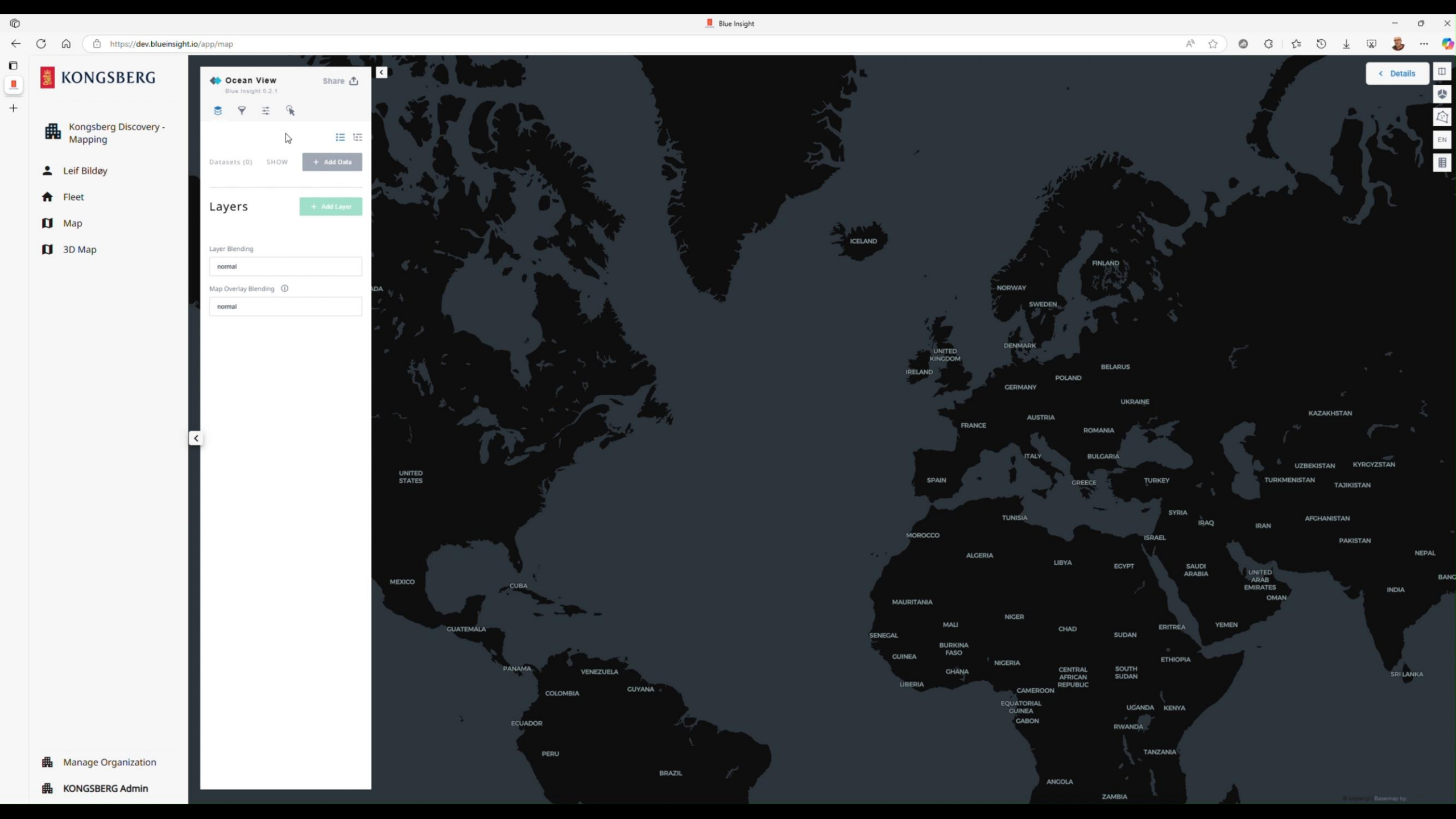
Users

Workflow



Revolutionizing biomass estimation survey







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Thank you!

Questions?

Magnus.Grotterud@KD.Kongsberg.com



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Supporting slides



Filters

+ Add Filter

string water_column



Data Source

EM2040 data

Values In

Enter a value

Search



On

< Details



EN

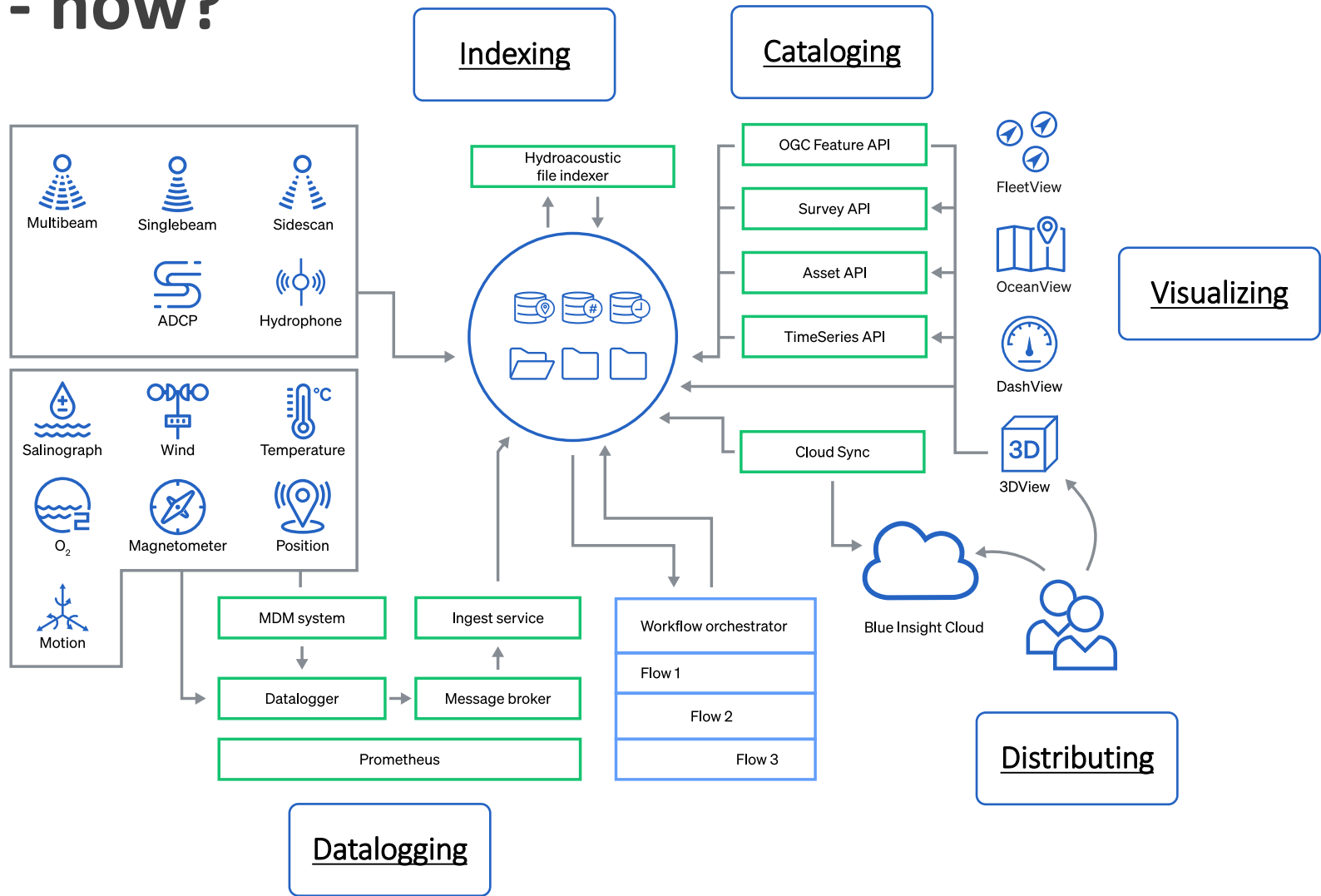

 < 
 EM2040 Data


fm_disable	Off
min_depth	1
interference	Off
external_trigger	Off
transmit_angle_along	0

DETAILS

Web based software architecture

Geomatics - how?




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Kongsberg Discovery - Mapping

Fleet

Map

3D Map

 Ocean View

Blue Insight 0.2.1

Share

Layers

Earthquakes

Point

Earthquake center

Geojson

Basic

Polygon

Fill Color

Color Based On

Opacity

Stroke Color

Stroke Width

Radius

World Map

Map with colored earthquake points and a large red circle in the North Atlantic.

Details

Spectrogram

NERSC

WAV - TEST

0:00 / 0:05

Spectrogram

4.1 kHz

1.8 kHz

634 Hz

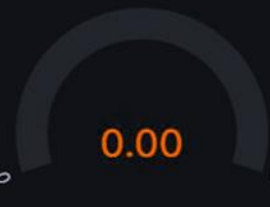
0 Hz

Attributes

Property	Value
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Links

WeatherStation ▾



See Statement of Proprietary Information