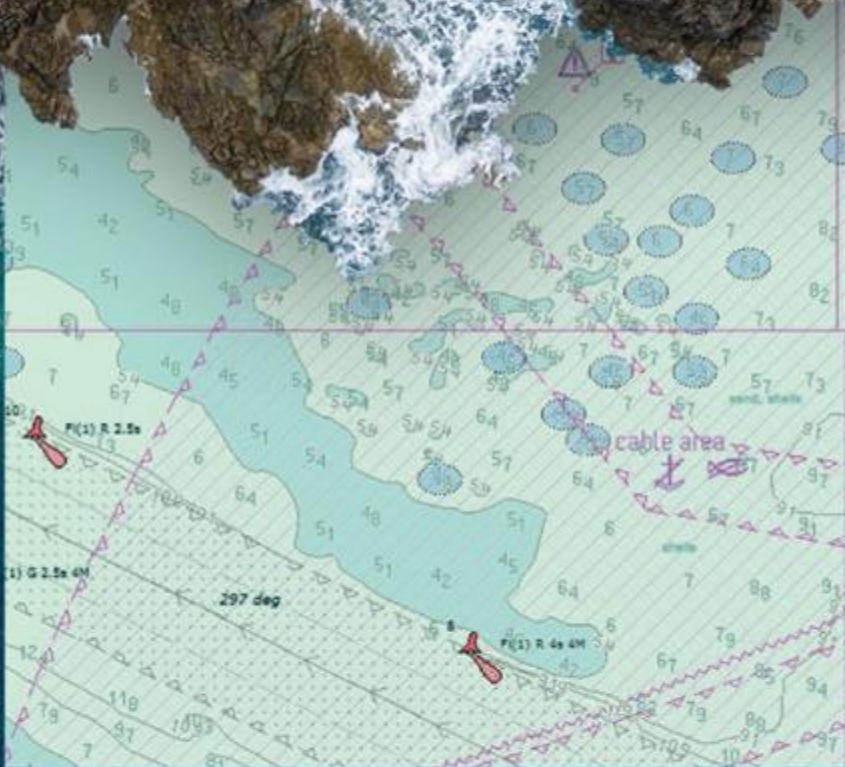




ITALIAN HYDROGRAPHIC INSTITUTE

RAdm Fabrizio ORENGO
Director

Duties & Tasks



National Charting Authority

Italian Navy / Ministry of Defence

- Contribution to the safety of navigation (i.a.w. SOLAS 74)
- Hydrographic (geospatial), meteorological and oceanographic support to the Armed Forces
- Applied research
- Specialist technical regulations
- Survey planning and execution
- Specialist training

Mission



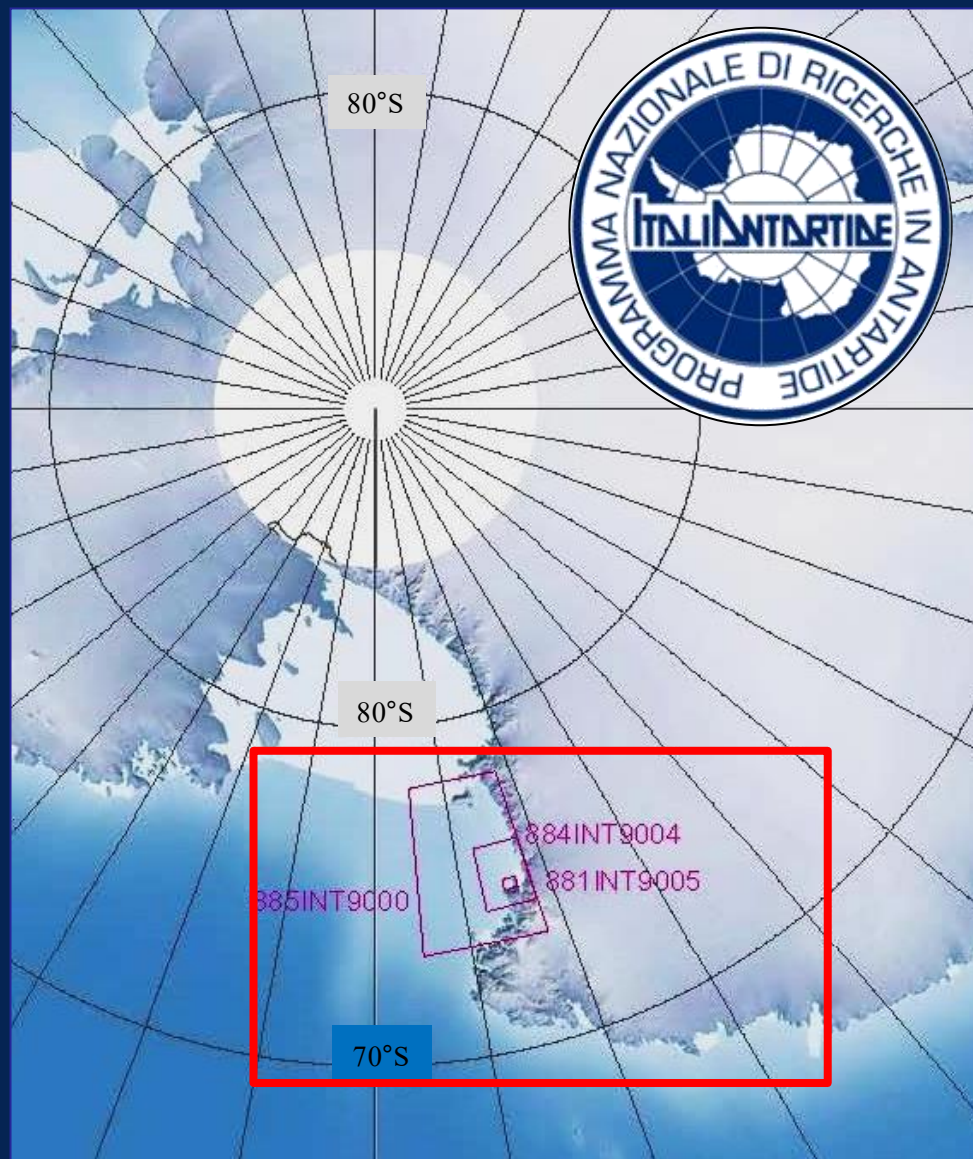
To contribute to the safety of navigation, to support the National Defence and to promote the knowledge of the Ocean by providing high-quality, timely and reliable marine geospatial and oceanographic information



- [illegible]



Polar Activities - Antarctica



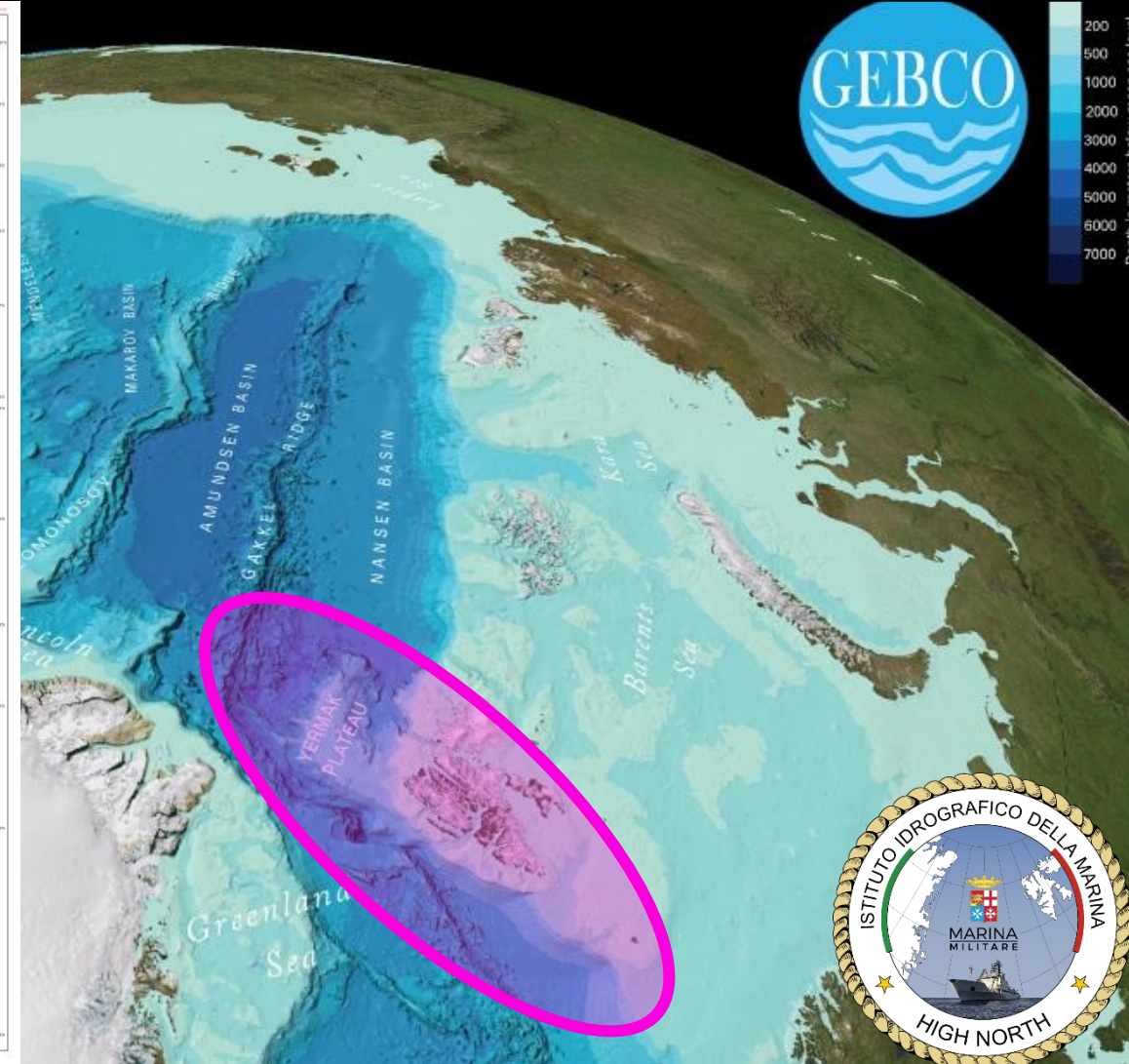
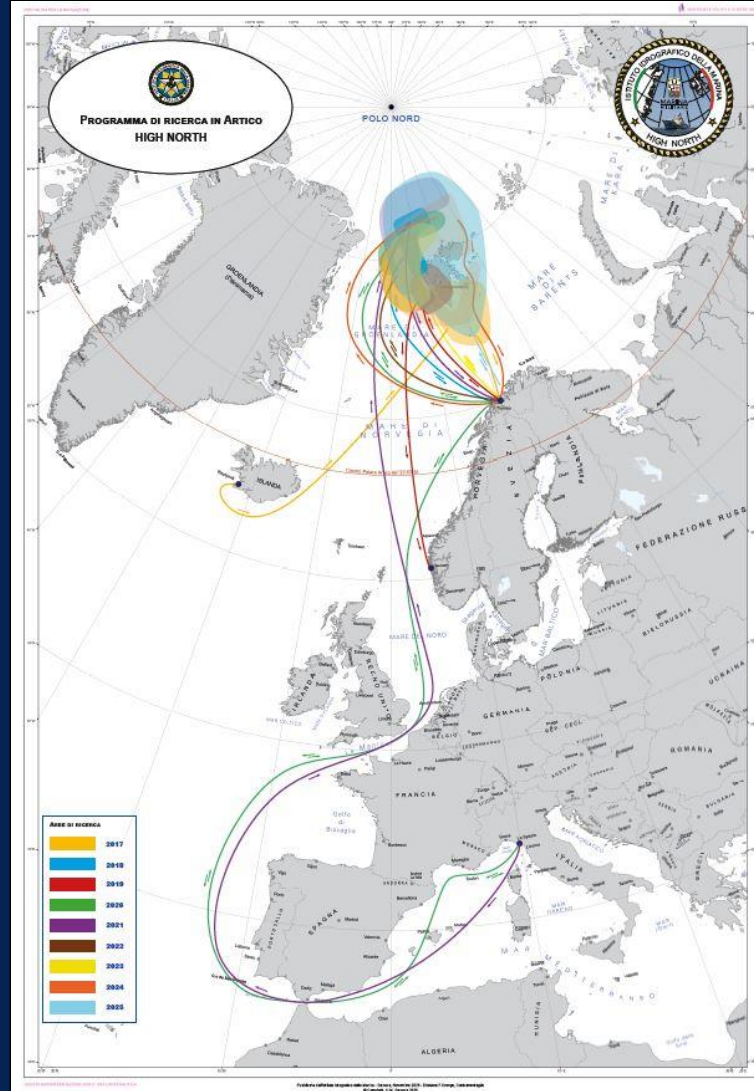
Nr.	INT	Title	Scale	Edition
881	9005	Da Capo Russell a Campbell Glacier Tongue	50.000	2024
884	9004	Baia di Terra Nova (Terra Nova Bay)	250.000	2020
885	9000	Coulman Island to Ross Island	500.000	2017



Polar Activities – Arctic HIGH NORTH Programme



2017 – 2019
2020 – 2022
2023 – 2025
2026 – 2028



- Data sharing.
- Ocean knowledge.
- Exploration.
- Monitoring.
- New technology.
- Education.

Hydro-oceanographic vessels and boats



ITS Magnaghi



Ninfe class



IIM boats
and vehicles



ITS Leonardo



ITS Alliance



Major Hydro-Oceanographic Vessel ITS Quirinale



ICE CLASS 1C
Winterization -16°C

Lenght	110 m
Breadth	20 m
Draught	5,6 m
Gross Tonnage	6700 t
DP	Yes - DP2
Endurance	45d / 7000 nm

Crew	85
Scientific	55

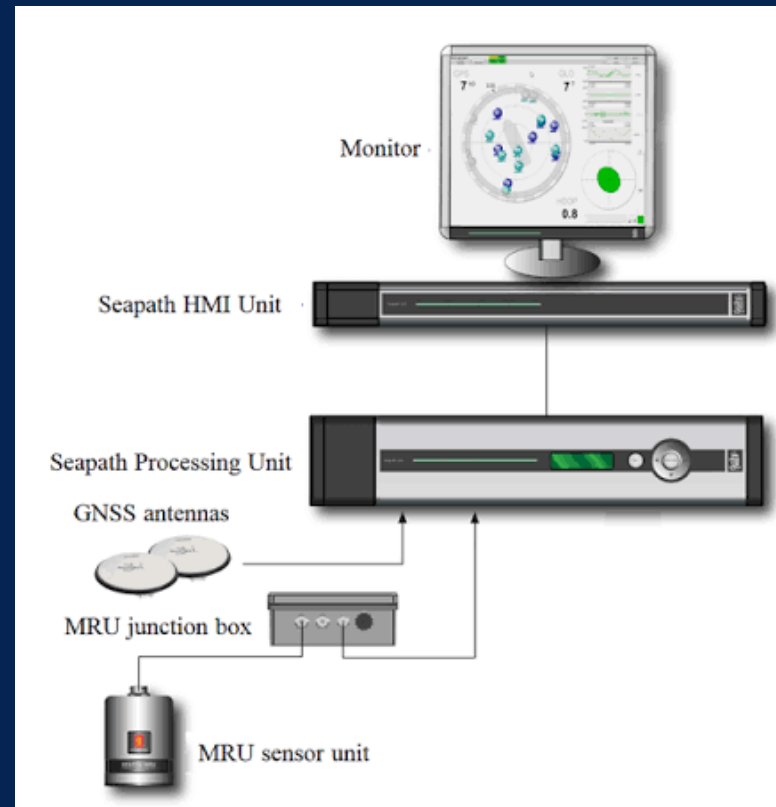
Full ocean depth capability
5 labs – Crane – A-frame
2 Survey boat

The Italian Hydrographic Institute & Kongsberg: A Long-Standing Operational Partnership



Kongsberg solutions already supporting IIM hydrographic operations:

- Multibeam Echosounders (MBES);
- Integrated survey solutions;
- Operational experience;
- Continuous technical interaction.



 **KONGSBERG** 



Extension: 1

DP, Navigation, Automation, Energy Systems, Monitoring sensors, Remote and Autonomous Operations



Extension: 2

Kongsberg Discovery



Extension: 3

Propulsion and Thruster Control Systems



Extension: 4

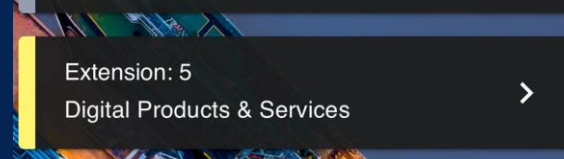
Deck Machinery and Handling Systems



Extension: 5

Digital Products & Services





ITS Quirinale: from systems to capability



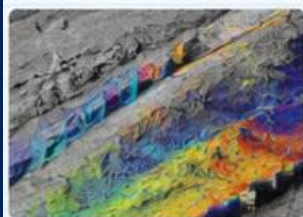
Building the next-generation hydrographic capability

IIM OPERATIONAL REQUIREMENTS

CAPABILITY-DRIVEN SYSTEM DESIGN

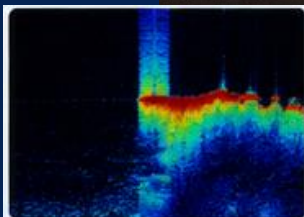
KONGSBERG HYDROGRAPHIC SUITE

INTEGRATED SURVEY CAPABILITY



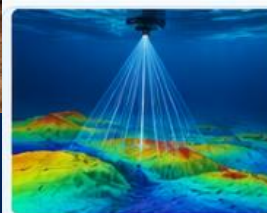
**Backscatter &
seabed characterisation**

Detailed seabed information
for multiple applications



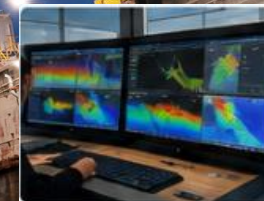
Water-column data

Detection and analysis
of targets and environmental
features



MBES

Shallow & deep-water
surveying



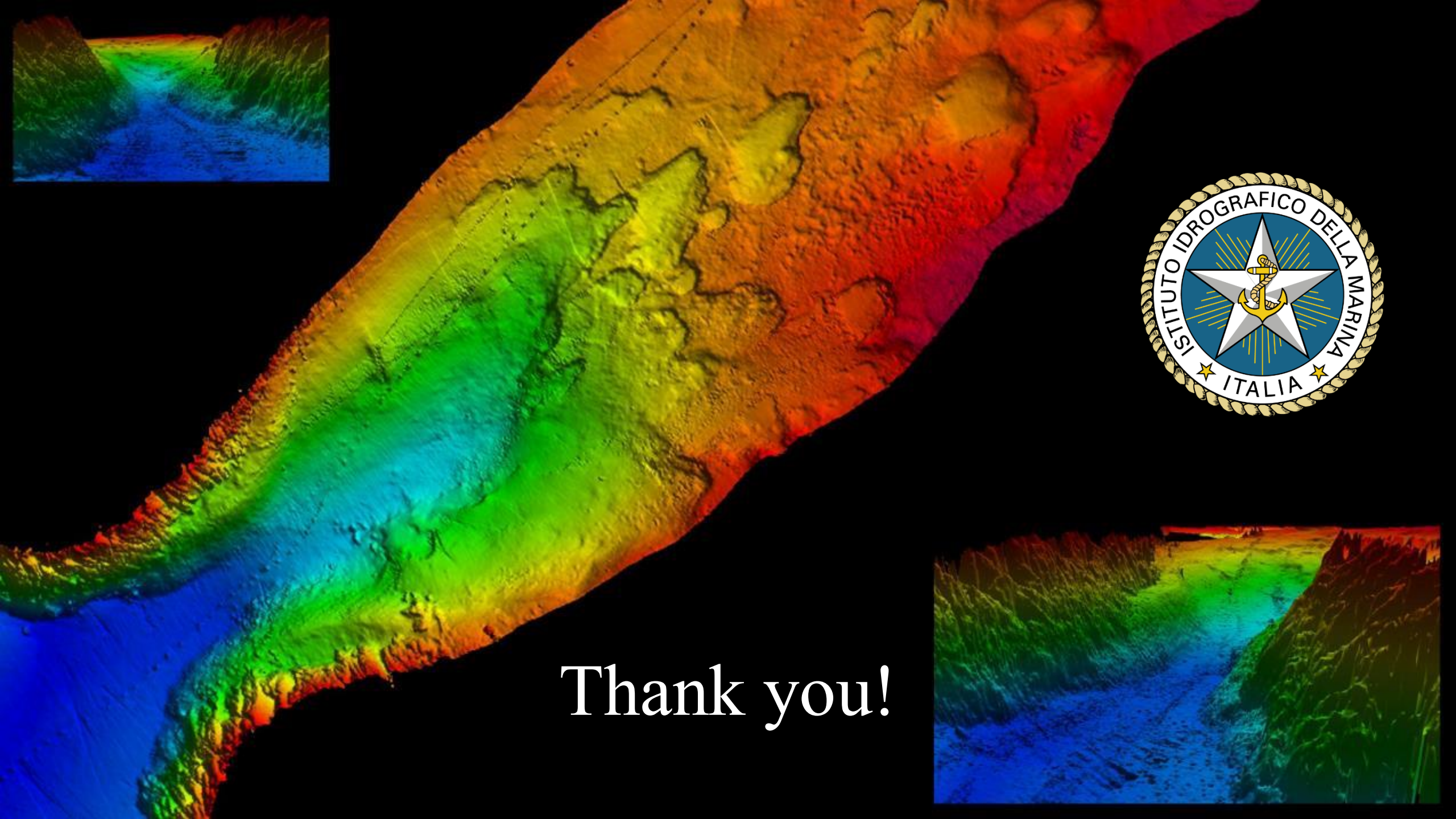
**Integrated acquisition
& processing**

Efficient workflows from
acquisition to final products.



Positioning & navigation

Seapath Navigation Systems
provide highly accurate
positioning and motion data.



Thank you!