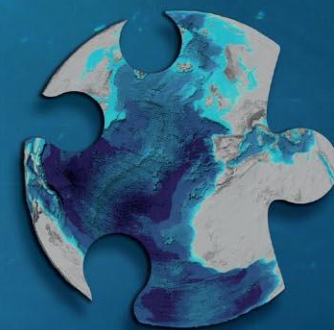


The Nippon Foundation-GEBCO

Seabed 2030 Project

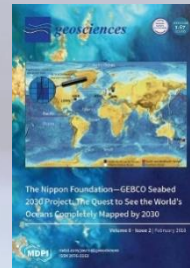


Jamie McMichael-Phillips – Project Director



SEABED 2030

A collaborative project between The Nippon Foundation and GEBCO to inspire the complete mapping of the world's ocean by 2030 and to compile all bathymetric data into the freely-available GEBCO Ocean Map.



June 2016



June 2017

Seabed 2030 Management

Management

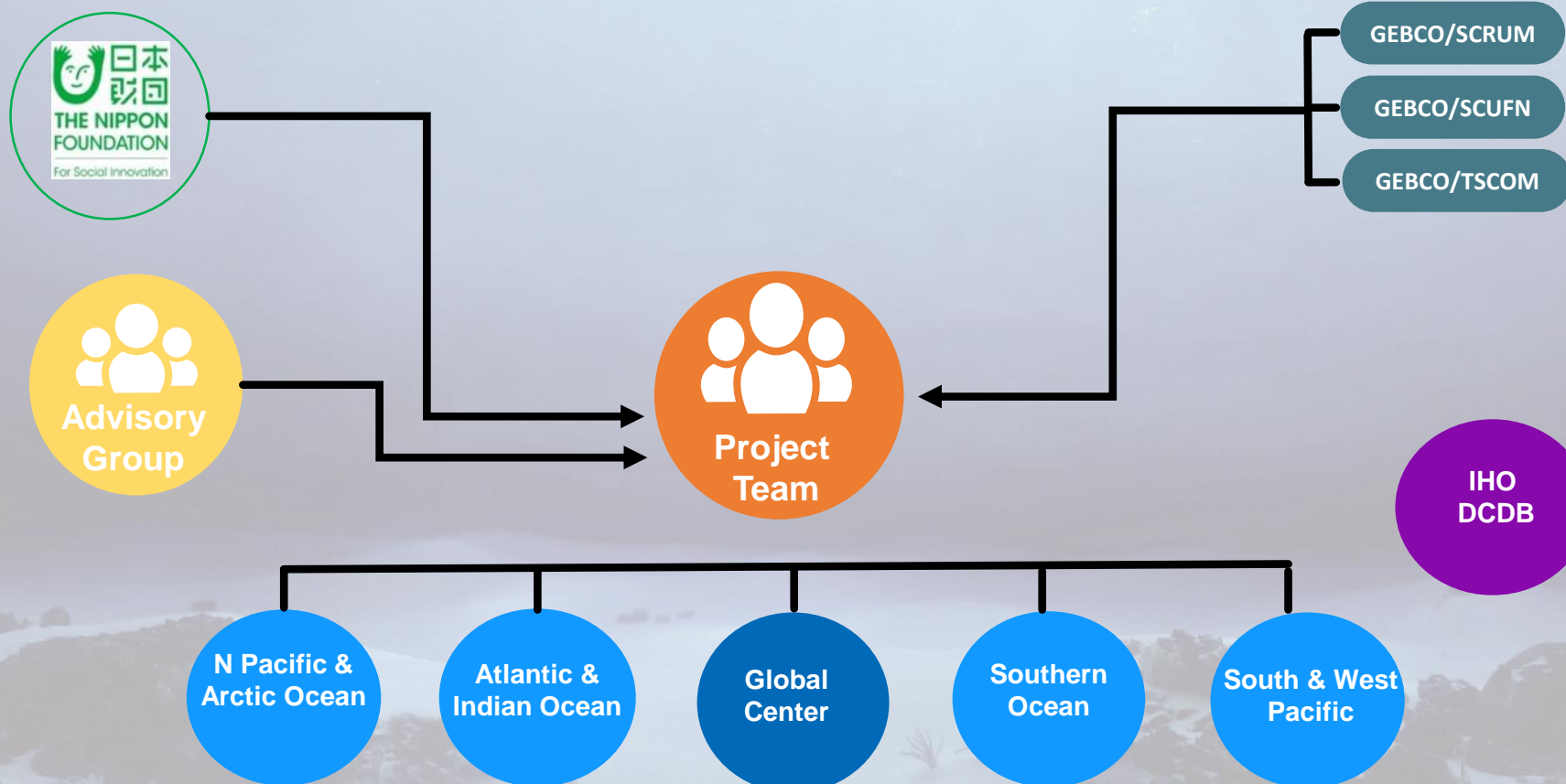


Seabed 2030 reports to
GEBCO Guiding Committee

Leadership

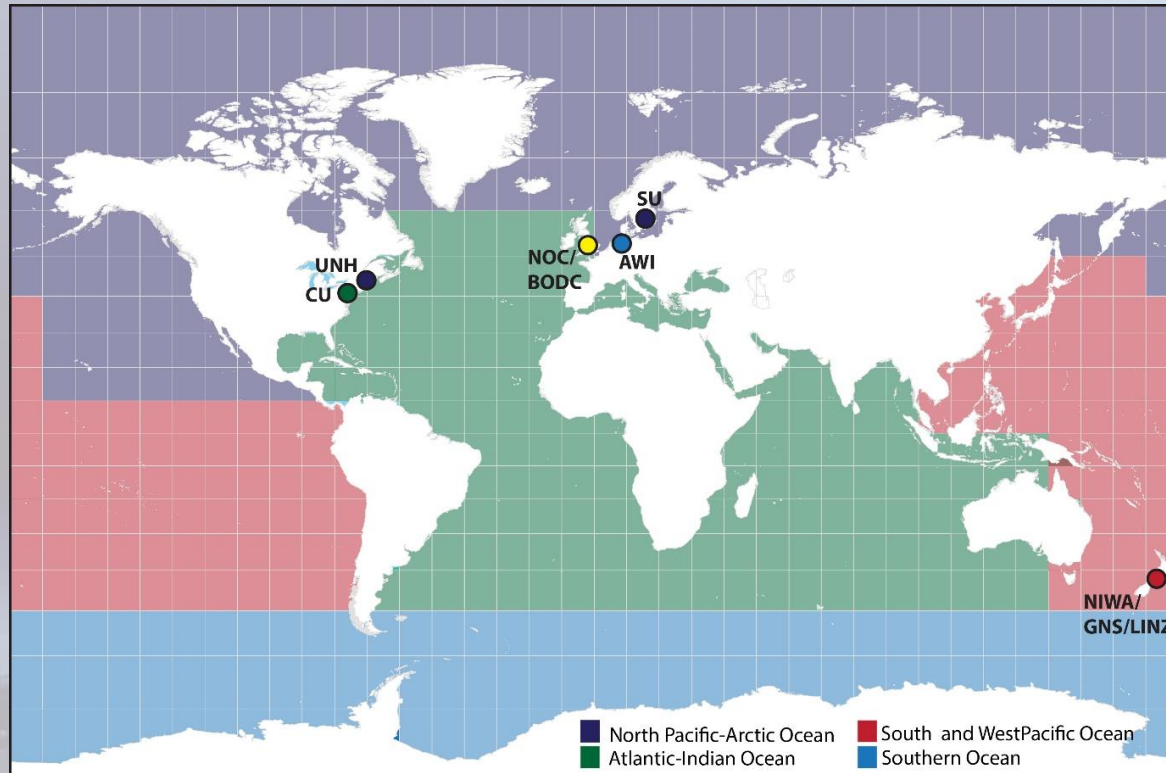
- The Nippon Foundation
&
- GEBCO under the auspices of IHO and IOC

Seabed 2030 Network



4 Regional Centers + 1 Global Center

The Network of Centers



North Pacific –Arctic Ocean

Stockholm University & University of New Hampshire
(SU & UNH)

Southern Ocean

Alfred-Wegener-Institut (AWI)

Atlantic-Indian Ocean

Lamont-Doherty Earth Observatory,
Columbia University (CU)

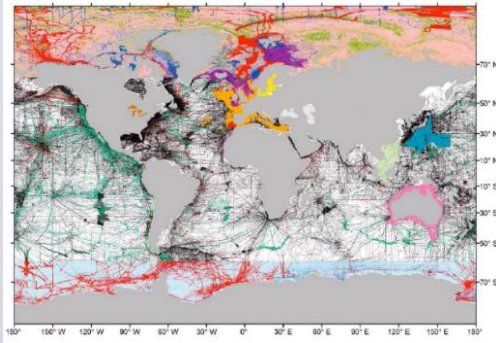
South-West Pacific Ocean

National Institute of Water & Atmospheric Research (NIWA)
Land Information New Zealand (LINZ)
GNS Science (GNS)

Global Center

British Oceanographic Data Centre,
National Oceanography Centre (NOC/BODC)

Seabed 2030 Phase 1 Existing Data



GEBCO 2014

30-arc second Grid

- Ingest all available existing data (Y)
- Catalogue embargoed existing data (Y)
- Develop new high-res GEBCO product
- Develop user tools for GEBCO products

$$X + Y + Z = 100\%$$

Data IN
GEBCO

Data NOT in
GEBCO

'Map the Gaps' = ocean NOT mapped

Seabed 2030 Phase 2: Mapping the Gaps

$$X + Y + Z = 100\%$$

➤ **Ocean Frontier Mapping**

- Use GEBCO Grid to inform location of future mapping
- Advocate for greater mapping activity
- Identify funding for mapping expeditions

➤ **Crowd Sourced Bathymetry**

- Promoting CSB around the world
- Gaining support of, and data from, contributors at all levels

➤ **Technology Innovation**

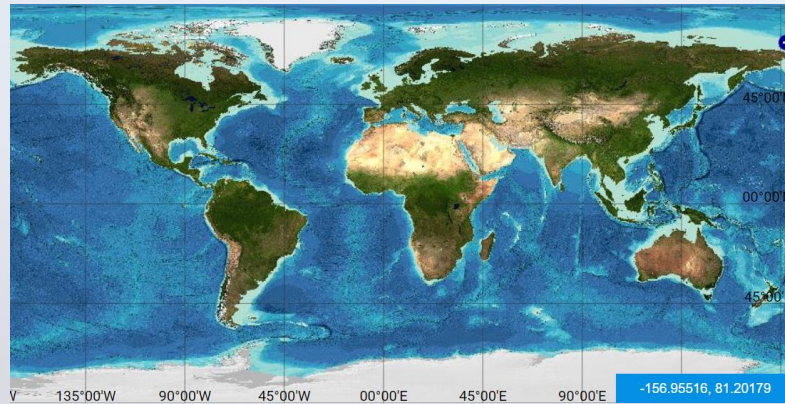
- What can Seabed 2030 do to accelerate uptake of technology to accelerate rate of bathymetric mapping?



Shell OCEAN DISCOVERY XPRIZE®

Why Now?

The **need**: Ocean under stress



UN SDG-14

Big Data



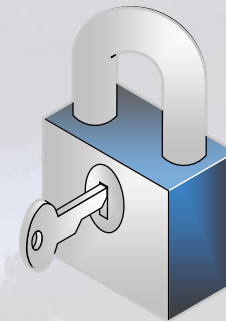
IoT

Information Technology

Solutions: innovation



Autonomy



Open Data

What we ask from AHC Members

- **Noting** that
 - Some 70% of the Earth covered by the ocean, yet today we have mapped only ~ 15%
 - Seabed shape is fundamental not only to safety of navigation but also to many ocean processes that:
 - Drive ocean current circulation, affecting climate & sea level rise predictions.
 - Allow forecasting of tsunami wave propagation & other dynamic phenomena (inc sediment transportation; wave action; & underwater hazards).
 - Allow better understanding marine habitats & eco-systems.
 - Offer opportunities for new discoveries
- Please **Encourage** Member States to support Seabed 2030 by:
 - Promoting the vital need to map the entire seabed
 - Promoting tech innovation that will accelerate mapping
 - Making national seabed mapping data available for use by Seabed 2030 in the GEBCO Grid
 - Supporting future seabed mapping projects where data can be used by Seabed 2030 in the GEBCO Grid

Thank you

Sponsors:



Regional and Global Center hosts:



Connect with Seabed 2030:

https://seabed2030.gebco.net/get_involved/