

THE NIPPON FOUNDATION-GEBCO

SEABED
2030

JULY 2023

SEABED 2030

Energizing Ocean Floor Mapping

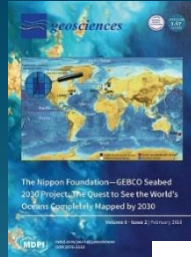


Jamie McMichael-Phillips
Seabed 2030 Director

The Nippon Foundation-GEBCO Seabed 2030 Project



June 2016



June 2017



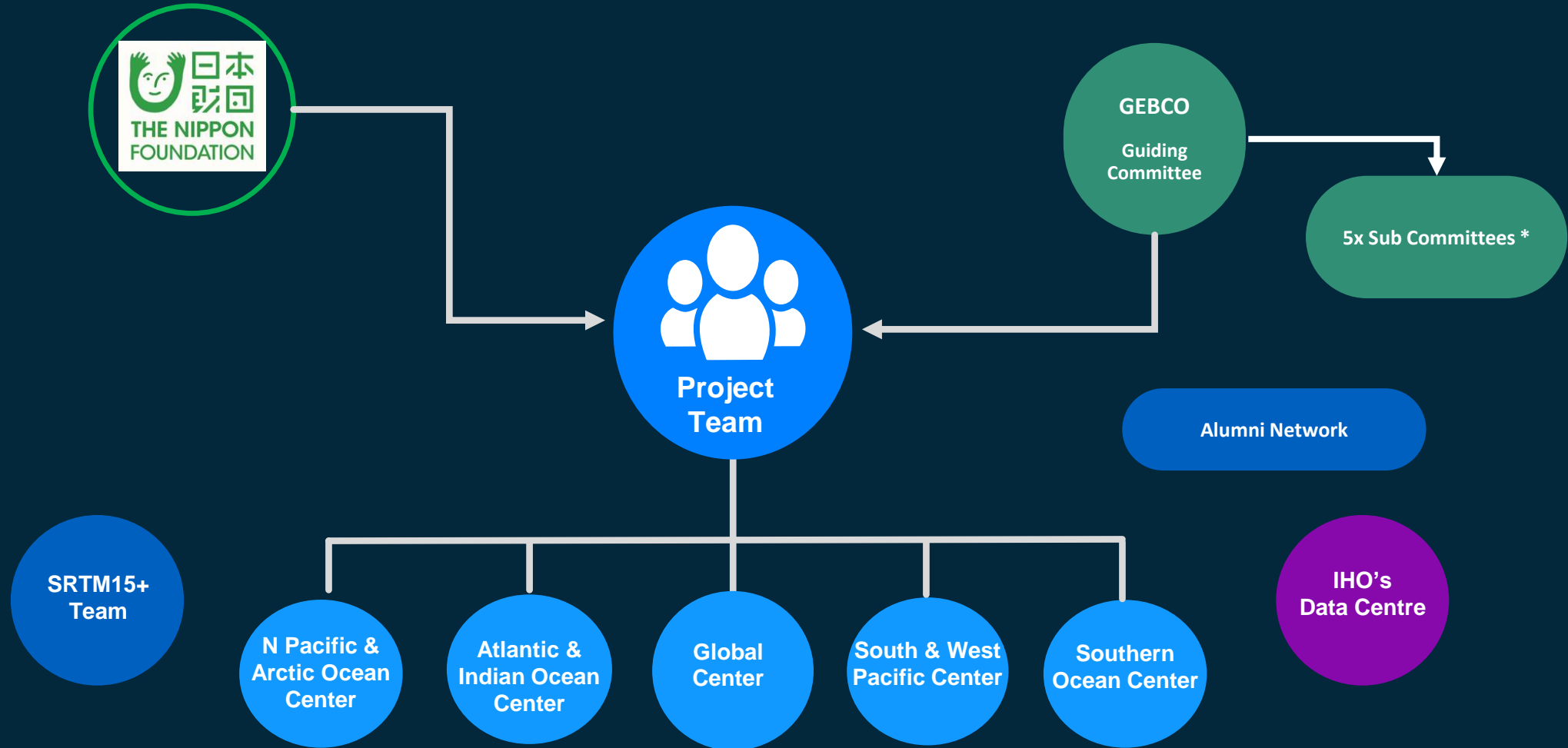
June 2021

Seabed 2030 = accelerator to GEBCO's aim

Collaboration to:

- inspire 100% seabed mapping by 2030
- compile the GEBCO Map

Seabed 2030 Simplified Network



* *Technical / Regional / Undersea Feature Names / Engagement & Outreach / Education & Training*



DECADE OUTCOMES

**"THE OCEAN
WE WANT"**

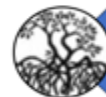
- **Clean**
- **Healthy & Resilient**
- **Productive**
- **Predicted**
- **Safe**
- **Accessible**
- **Inspiring & Engaging**

OCEAN DECADE CHALLENGES



Pollutants

Coastal -bathymetry



Ecosystems

Mapping central



Food from the Ocean

Bathymetry dependent



Ocean economy

Mapping intensive



Ocean-climate nexus

Modelling, SLR, etc.



Ocean-related risks

Bathymetry intensive



Ocean observing system

Georeferencing



Ocean digital representation

Central facility



Capacity development

Strongly needed



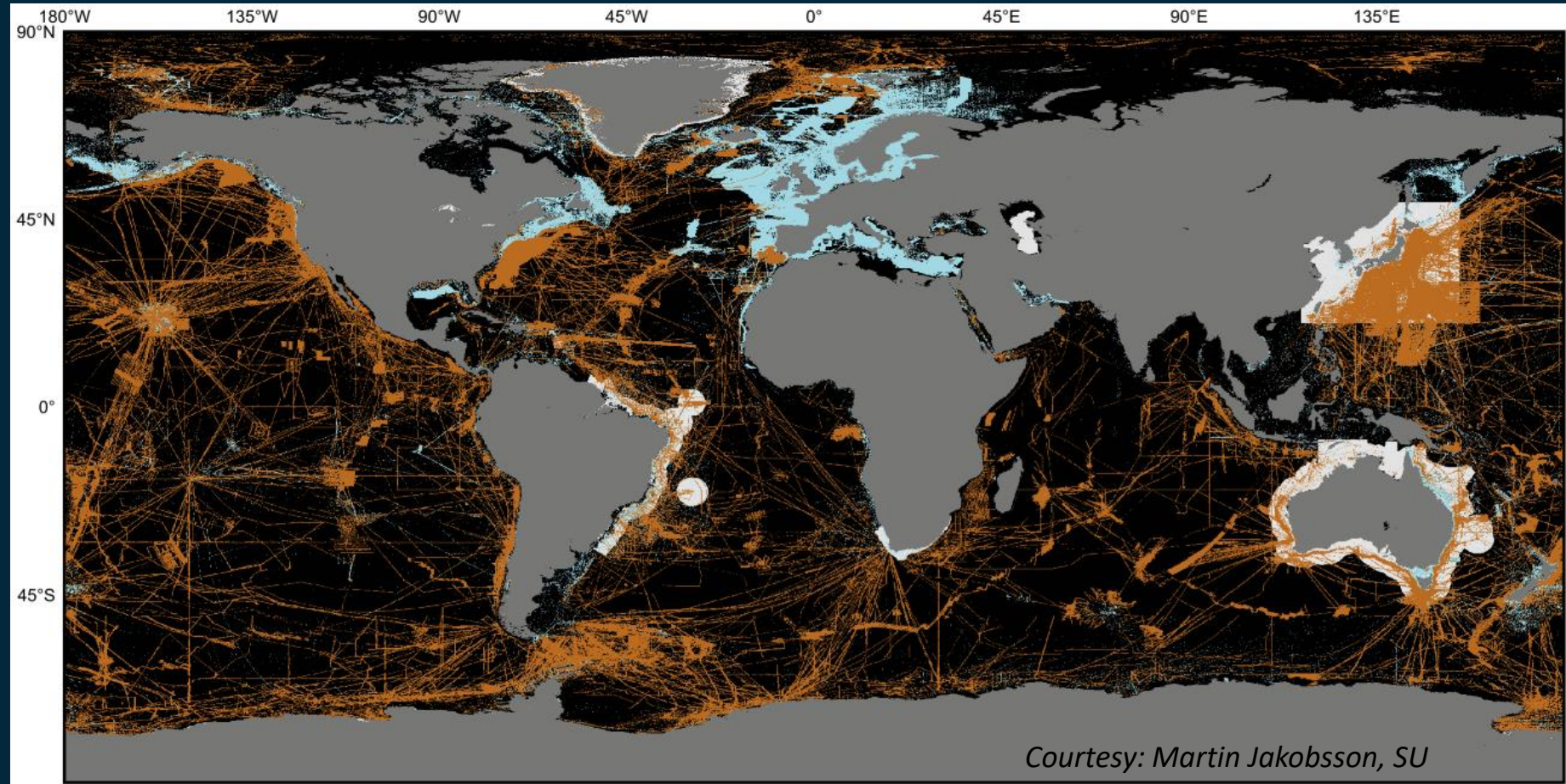
Behaviour change

Resonates with people

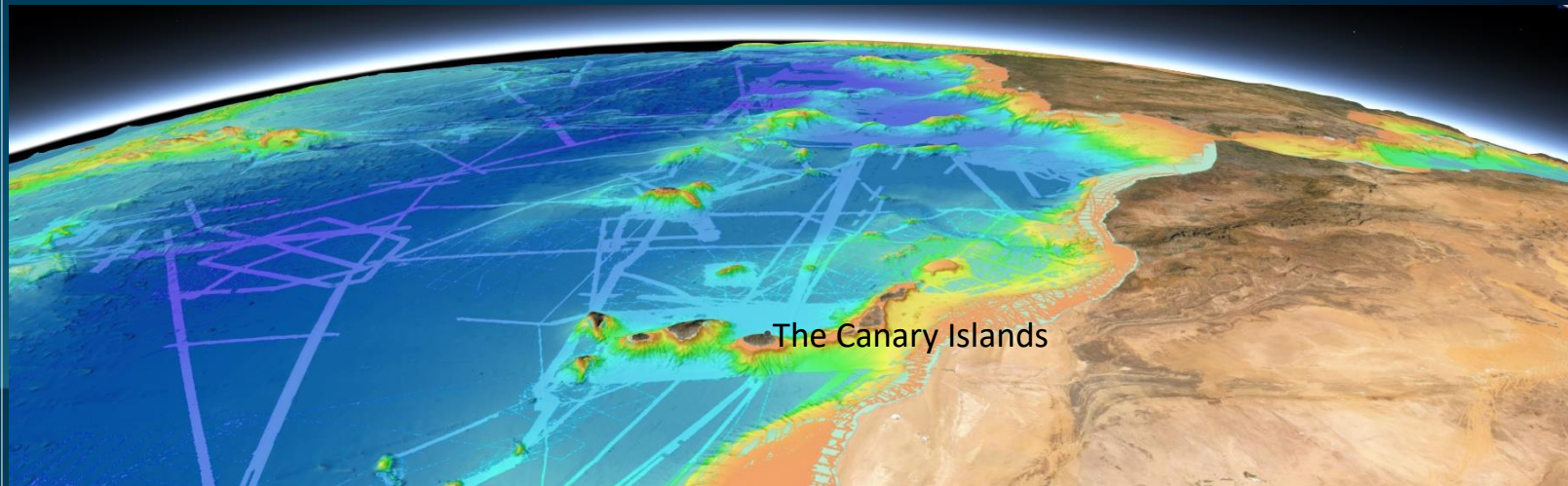
Progress so far ...

GEBCO Map:

- 6% in 2017
- Now 24.9%

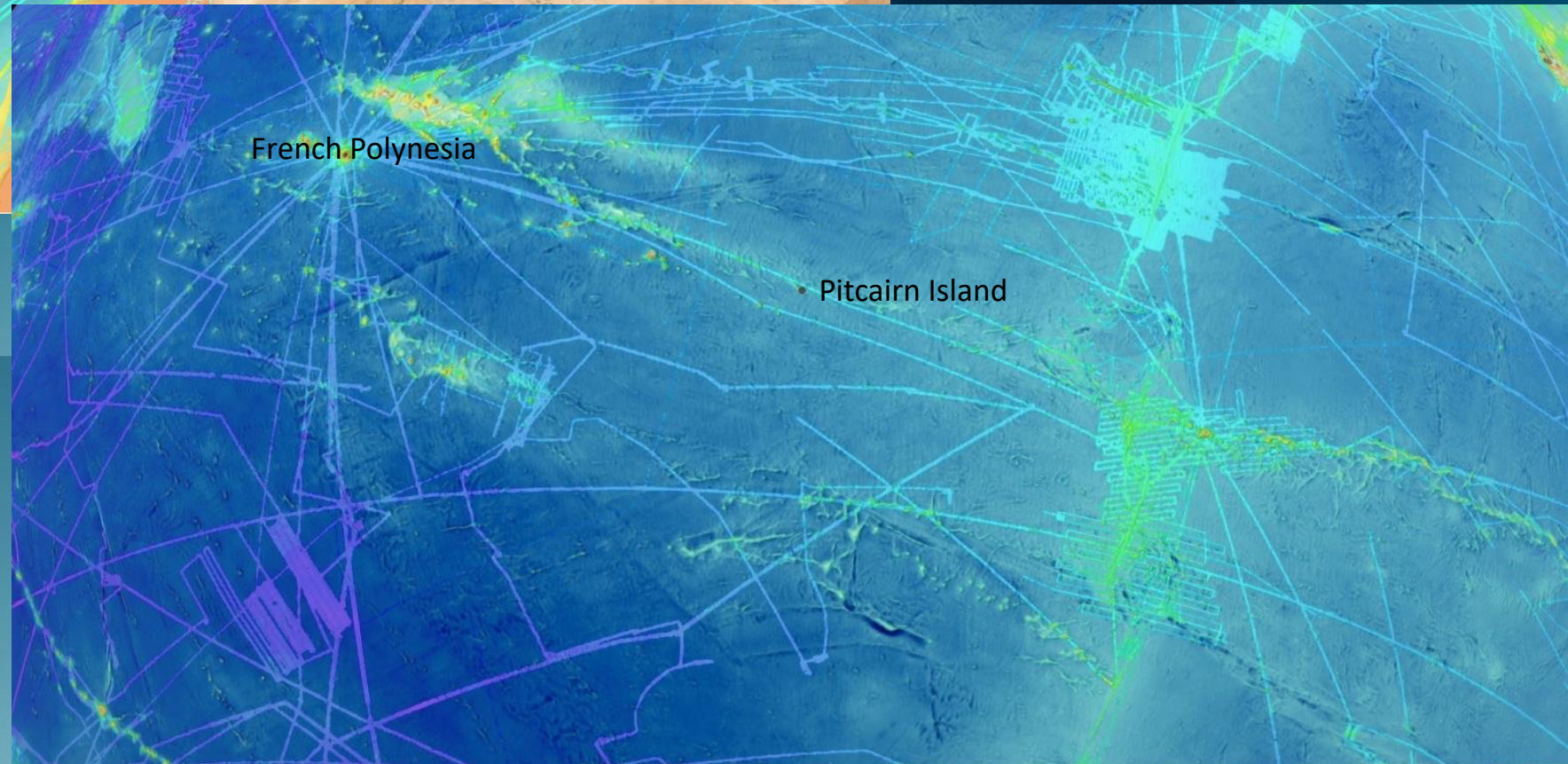


3/4 of ocean floor still to go



**Paucity of
Depth Information**

**To manage
effectively**
...we must map



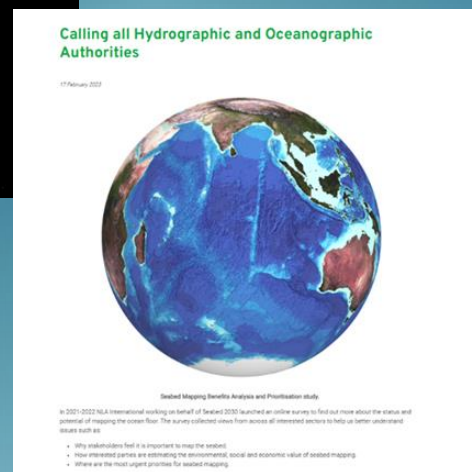
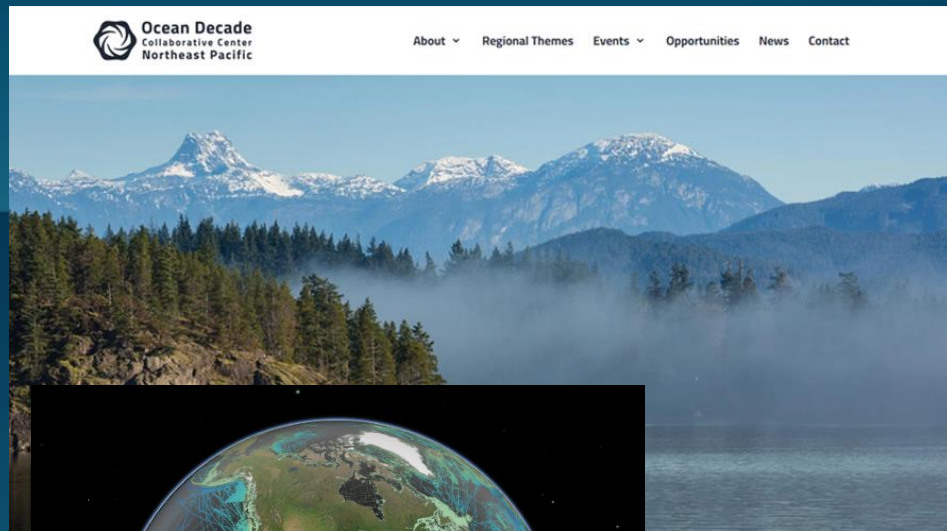
Target Resolutions

- Depth dependent
- We will never ask for data of any higher resolution than:
 - 1 x depth value in 100x100m box

At best only one depth value in area ~ size of a soccer pitch



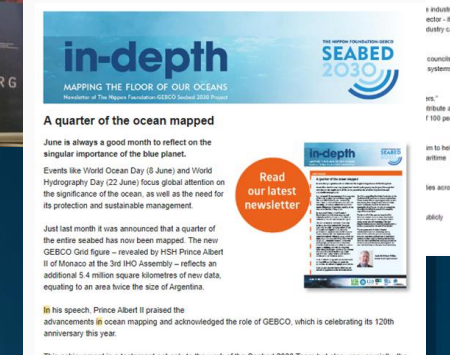
Y6 Achievements



- SRTM15+ Collaboration
- Data ingestion with many countries/entities
- Web Form Improvements/streamlining
- Improvements to UNH GapFiller tool
- Ongoing work with UN Ocean Decade
- “Wind in the Sails” project ongoing
 - Work towards global prioritisation tool
- Increased Crowd Sourced Bathymetry activities

Y6 Achievements

- 16 new MOUs in Y6
 - *Total now 47*
- 359 media items published
- New website launched June 2023
- Significant number of events/conferences inc:
 - COP 27, Our Ocean 2023, Oceanology Americas,
 - WOC: Smart Oceans- Smart Initiatives,
 - Economist World Ocean Summit,
 - Ocean Business, IHO Assembly, IOC Assembly
 - **South & West Pac Regional Mapping Meeting**



Thank you

