

22nd Meeting of the South West Pacific Hydrographic Commission

National Report by
New Zealand

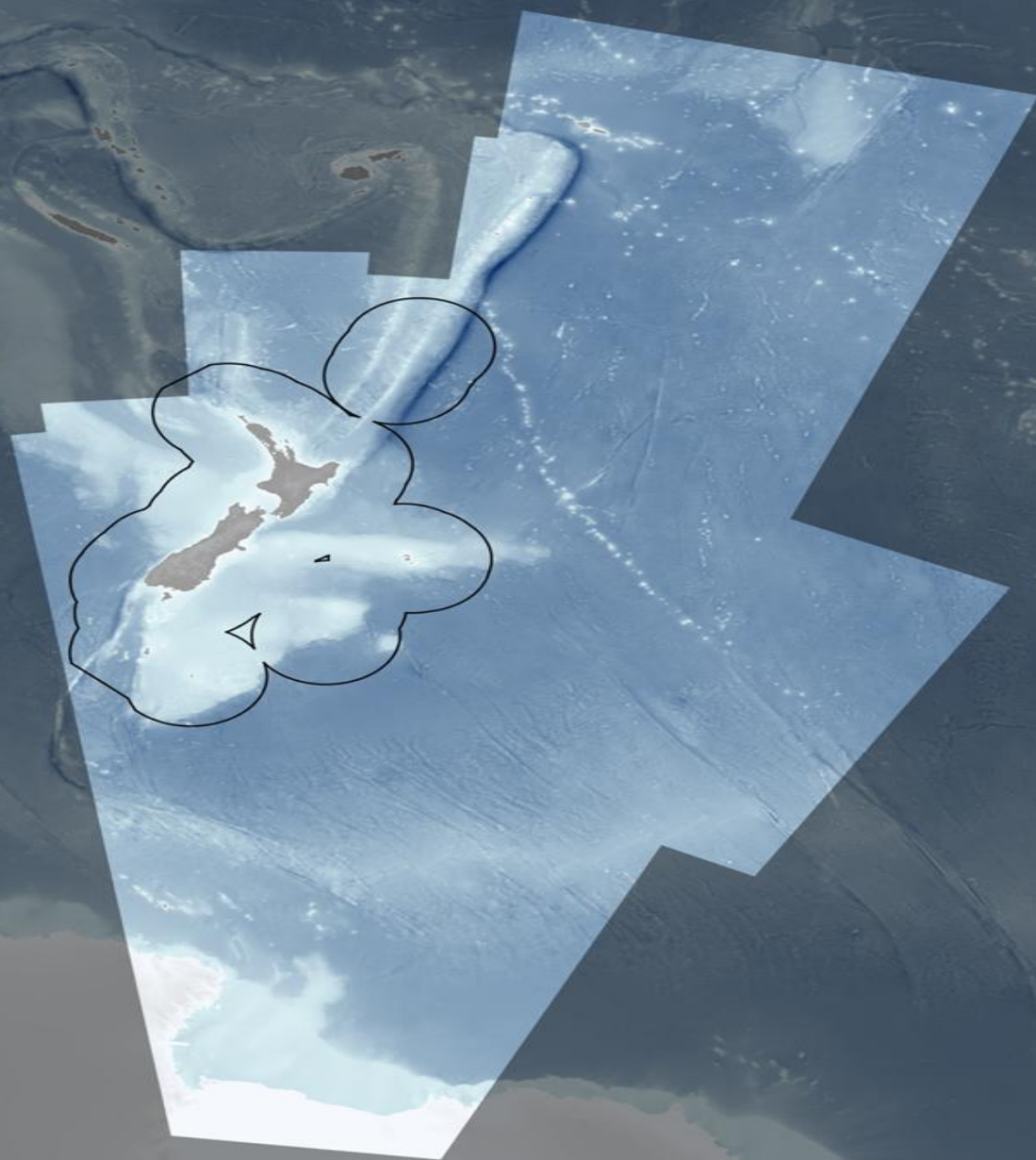


IHO

International
Hydrographic
Organization

South West Pacific Hydrographic Commission





New Zealand is responsible for charting nearly 25 million square km of ocean, from the Cook Islands, down to the Ross Sea in Antarctica.



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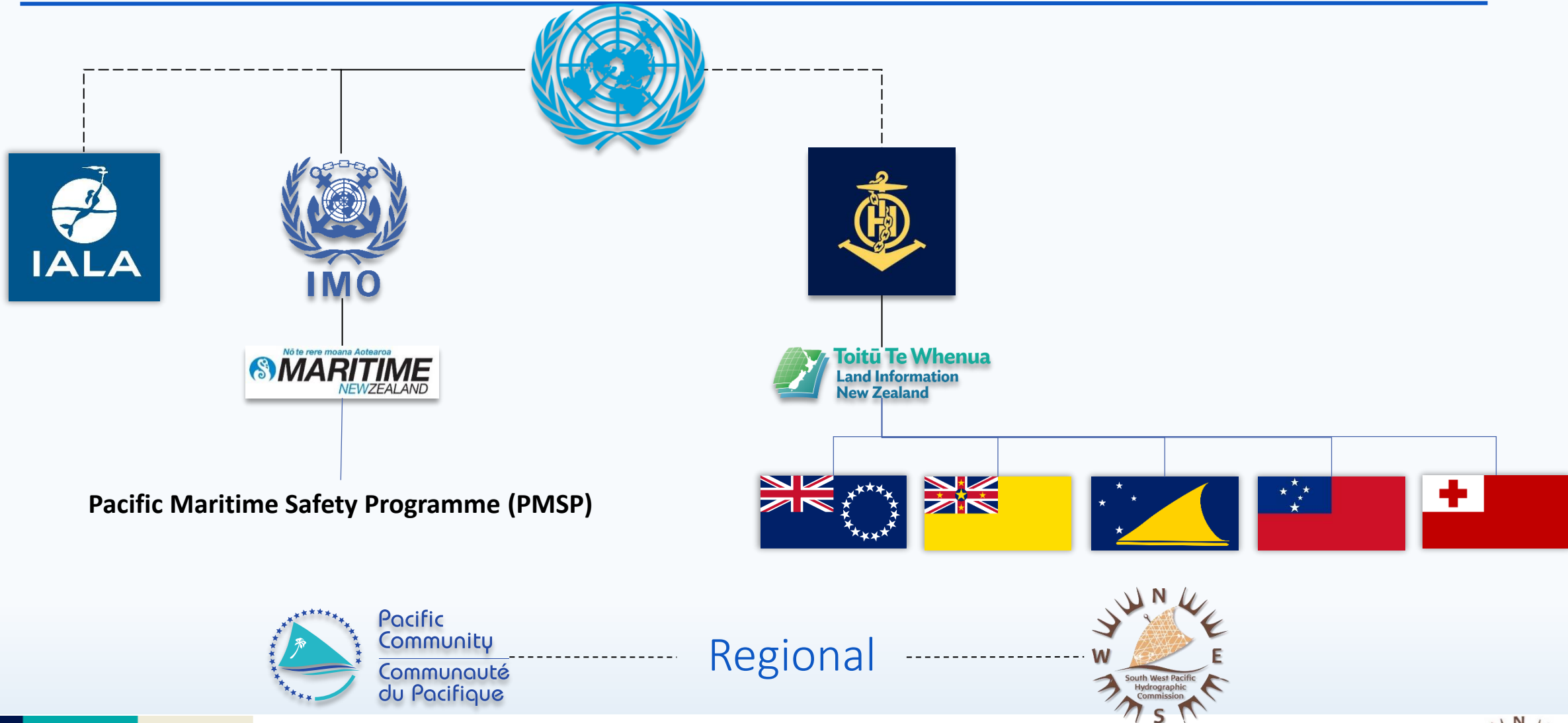
International
Hydrographic
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International & Regional Community



Toitū Te Whenua
Land Information
New Zealand



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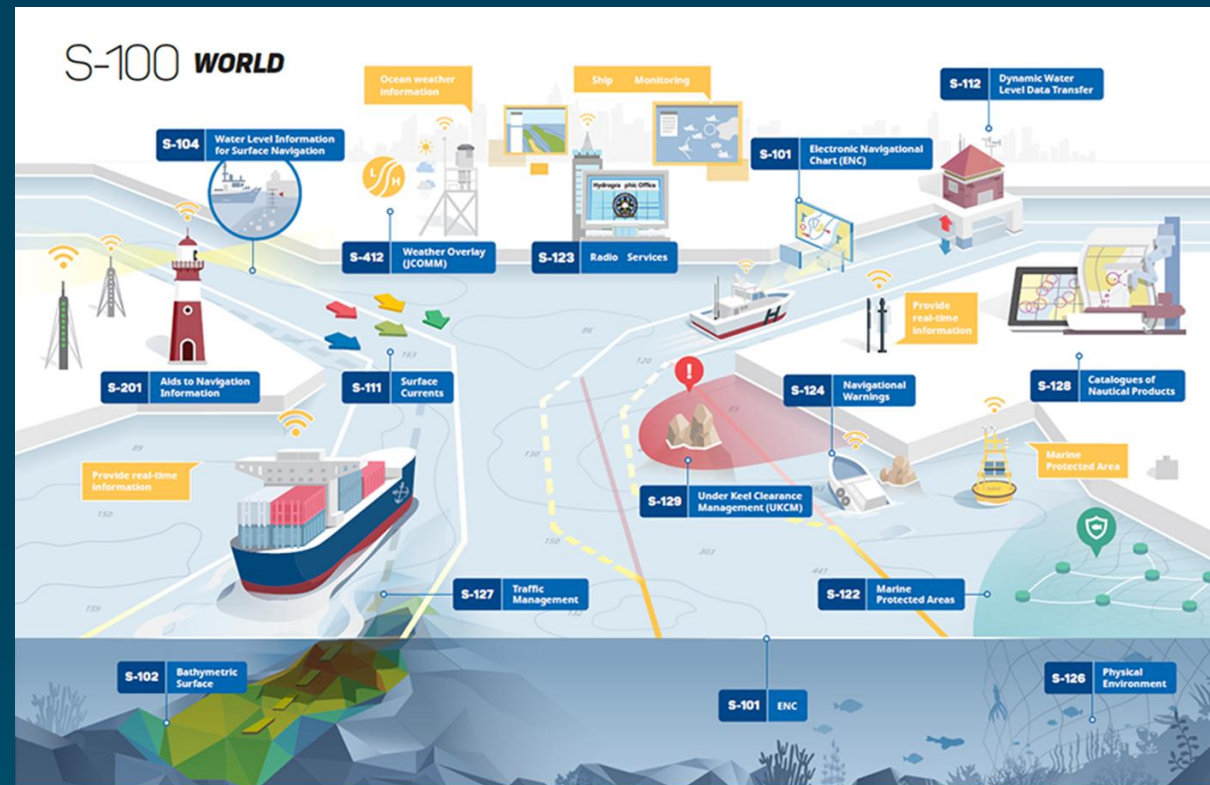
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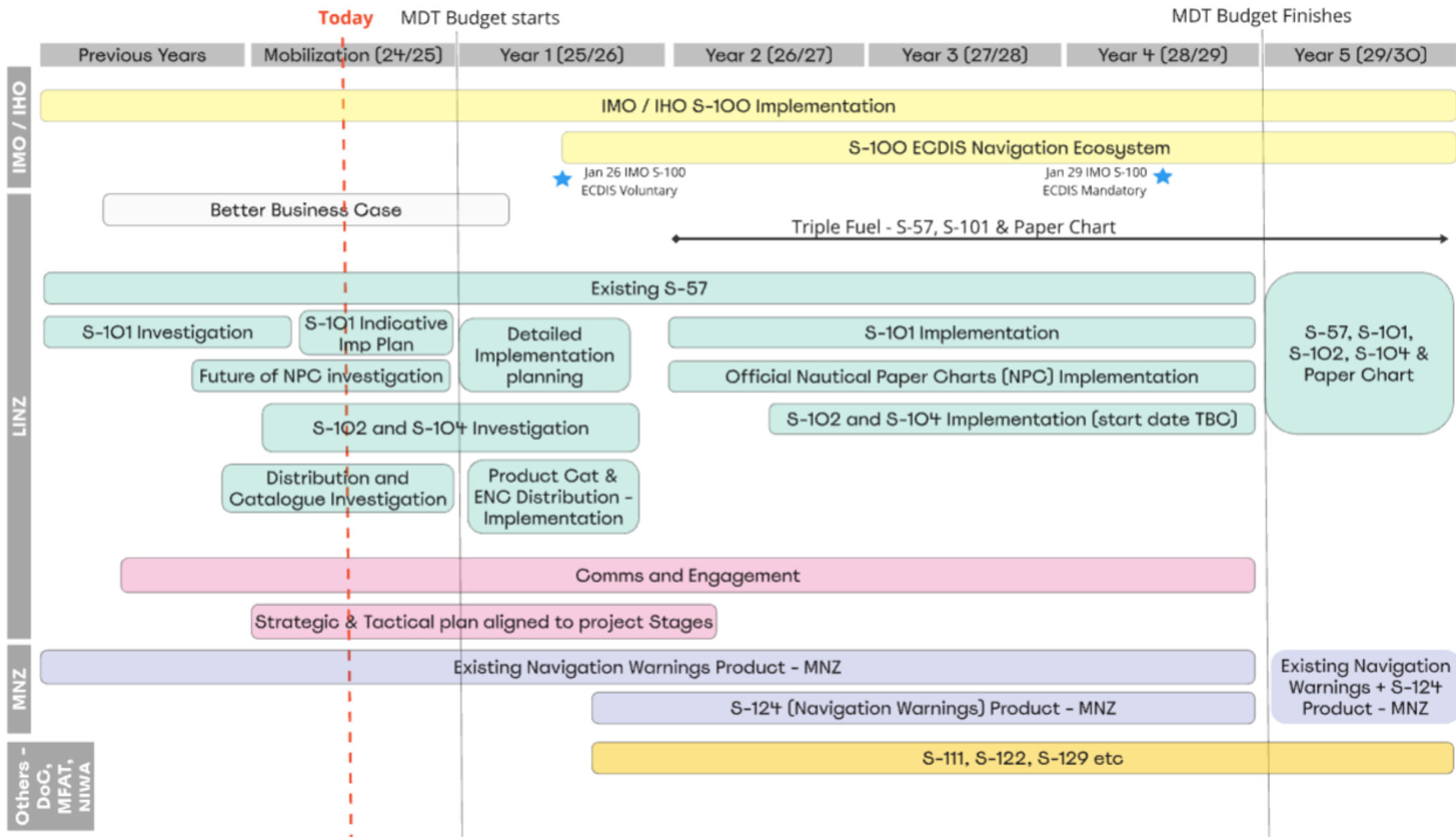
Main achievements during the year

- **NZ S-100 Working Group** established June 2024
 - 3 meetings
 - Discussions on S-100 testbed
 - S-100 Roadmap
 - Sub-groups (S-101, S-102, S-104/S-111)
 - Presentations from NZ stakeholders, AHO, AMSA
- Hydrographic **risk assessment** published
- **Maritime Digital Transformation** - S-100 implementation





Maritime Digital Transformation

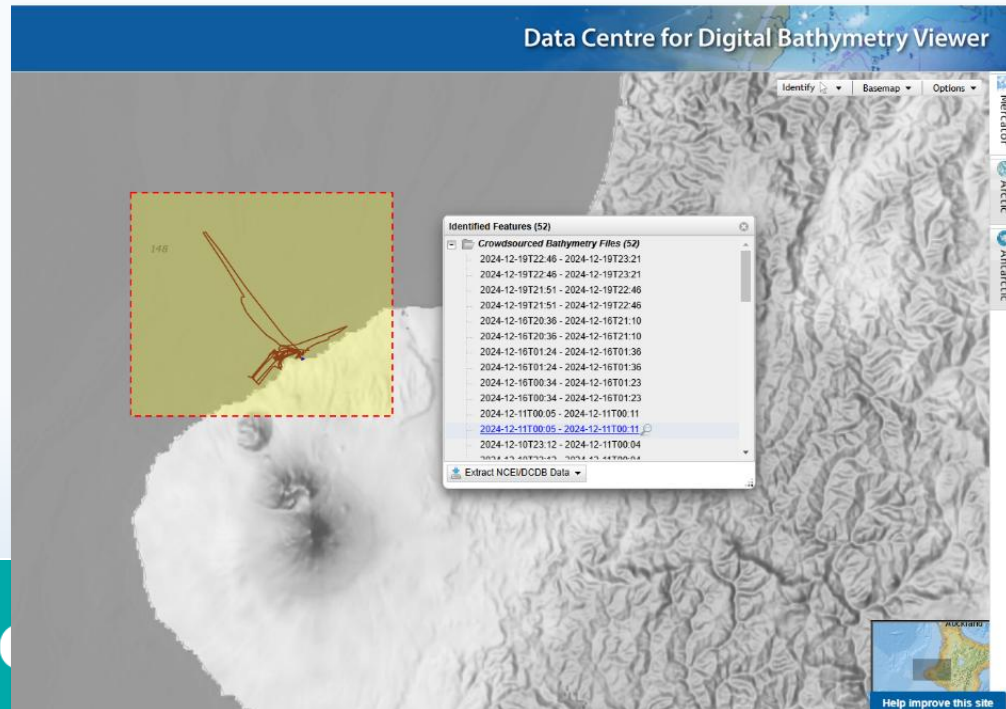


[Video link https://youtu.be/PDmA506a1i8](https://youtu.be/PDmA506a1i8)



Main achievements during the year

- **3D Coastal Mapping** project underway
 - Topo/bathy LiDAR (~10,000km²)
 - GNSS @ tide gauges
 - SDB
- **CSB data loggers** installed, in use and data published on IHO DCDB



Main challenges and/or obstructions

- Secure **funding** for resources to deliver the IHO S-100 implementation roadmap
- Planning and preparing for the technical implementation of a gridded ENC schema and the S-100 Phase 1 Product Specifications
 - Triple fuel: S-101 + S-57 + paper
- **Recruitment** and **retention** of staff - building capacity & capability to deliver S-100 Phase 1

Phase 1 / Route Monitoring

Phase 1

Route Monitoring Mode

S-101 ENC
 S-102 Bathymetry
 S-104 Water Level
 S-111 Surface Currents
 S-124 Navigational Warnings
 S-129 UKC Management

Critical Framework

IHO Geospatial Information Registry
 S-98 Interoperability Specification
 S-100 Universal Hydrographic Data Model
 S-128 Catalogue of Nautical Products
 S-164 Test Data Set for S-100 and ECDIS
 Type Approval

Figure 2 The IHO Navigational Package, for S-100 ECDIS layers and Phases may be added in the future.


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Any other matters of interest

- New NIWA scientific research vessel, RV *Kaharoa II*
- GNS Science evaluating SDB for tsunami inundation modelling
- LINZ evaluating SDB and intertidal DEM for mapping coastal zone
- LINZ geospatial support during international emergencies (PNG, Vanuatu, Samoa)



Any other matters of interest

- RNZN is reviewing its hydrographic capability for the future. Requests for survey are encouraged and should be made through the appropriate official defence to defence channels
- Pacific Islands Maritime Pilots conference/workshop, Rarotonga, 18-19 August, 2025
- New Zealand is planning to nominate Adam Greenland, NZ National Hydrographer for the position of IHO Director, to be decided at IHO A4 Assembly in April 2026.

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Sulang!



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