



**Land Information  
New Zealand**  
*Toitū te whenua*

# MSDI National Report

New Zealand

**Rachel Gabara**

Manager Hydrographic Data and Products

Date

# Topics for today

**1. Preparation for S-100**

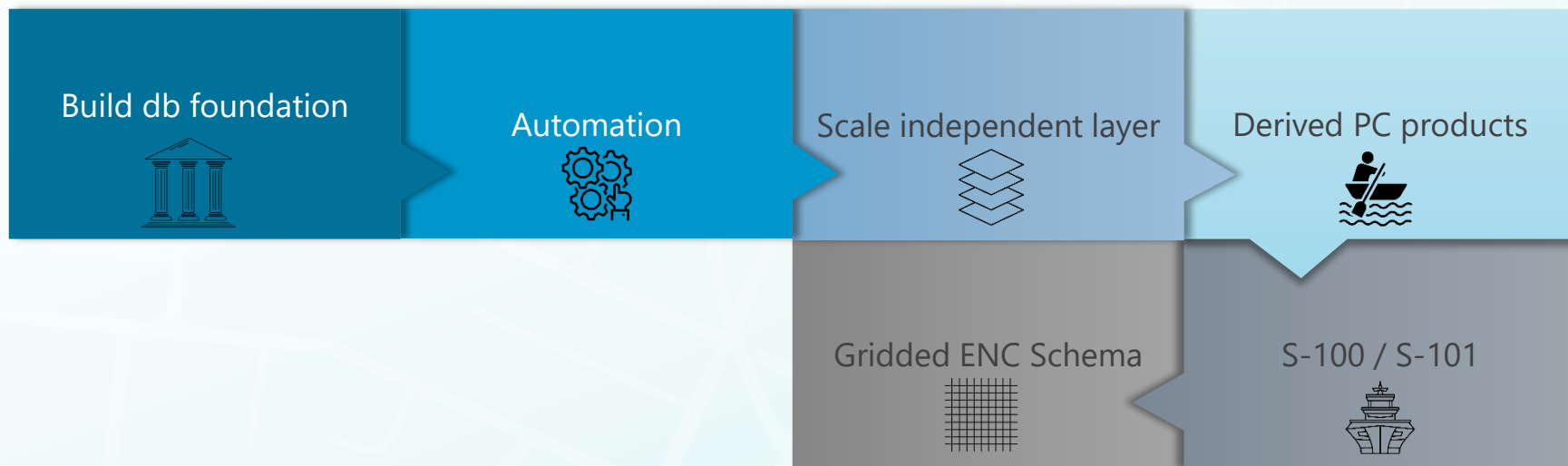
**2. Joining Land and Sea**

**3. National approach for Marine Geospatial Information**

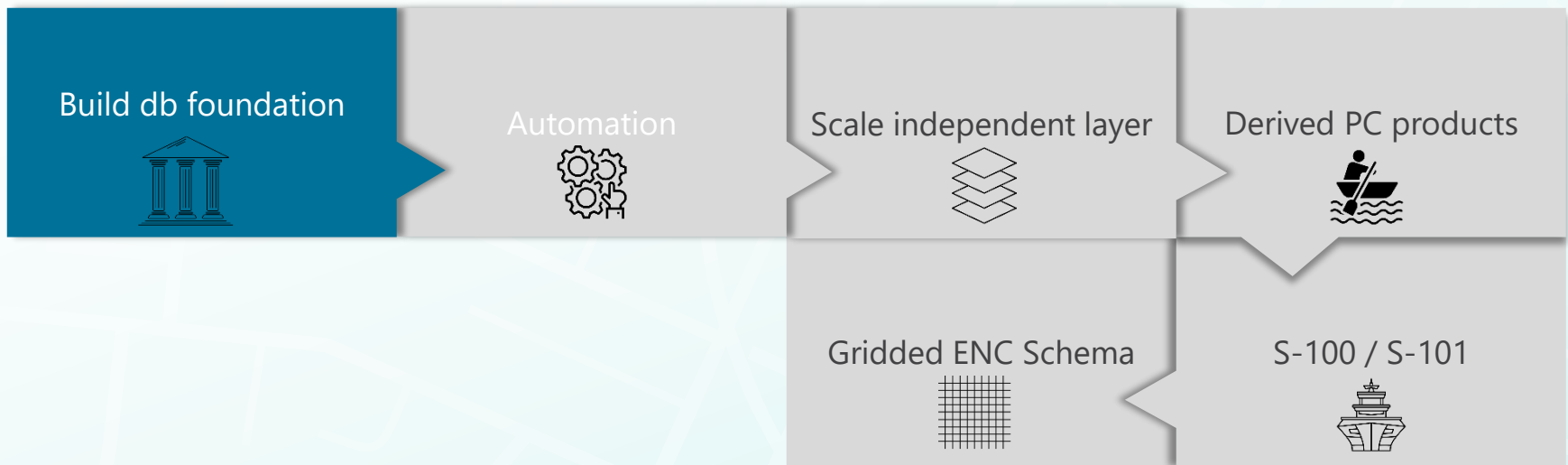


# Preparation for S-100

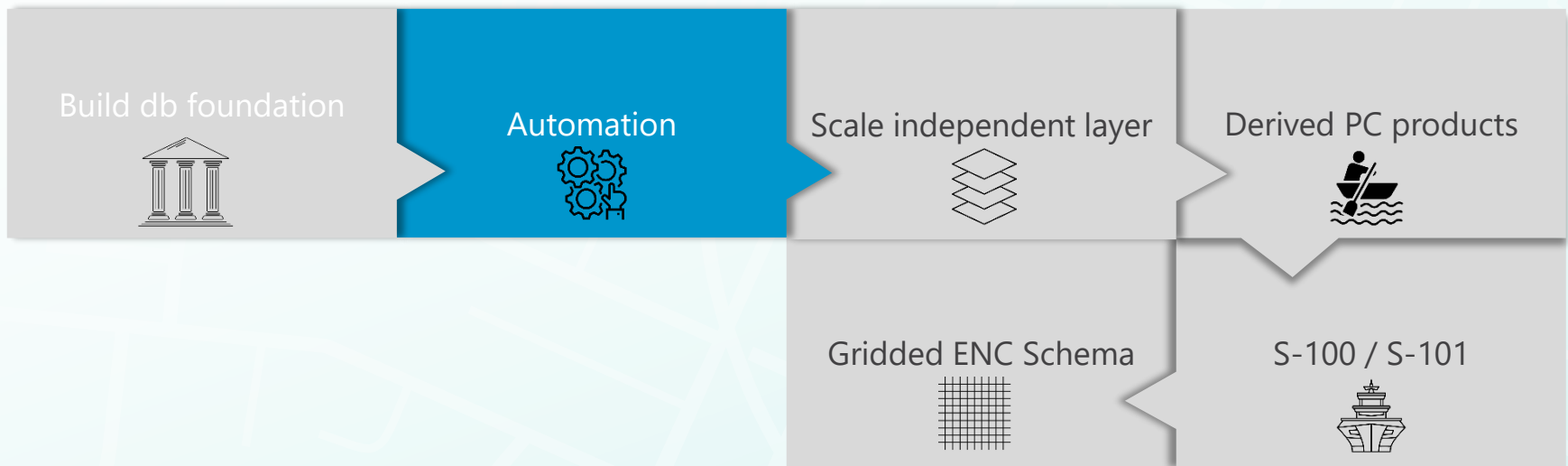
# Preparing for S-100



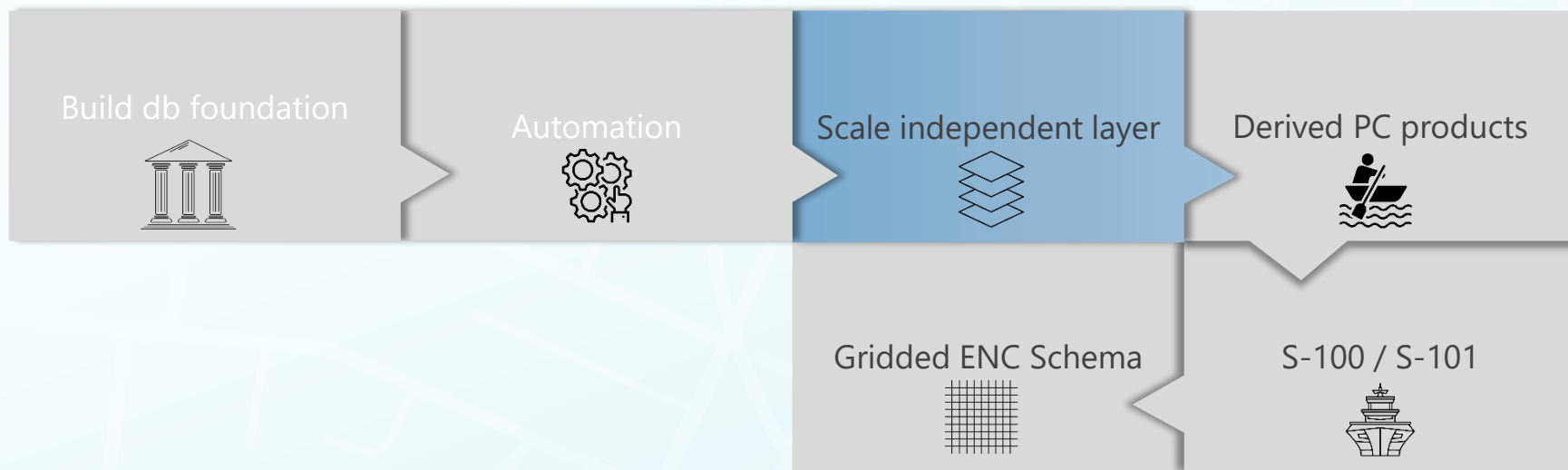
# Preparing for S-100



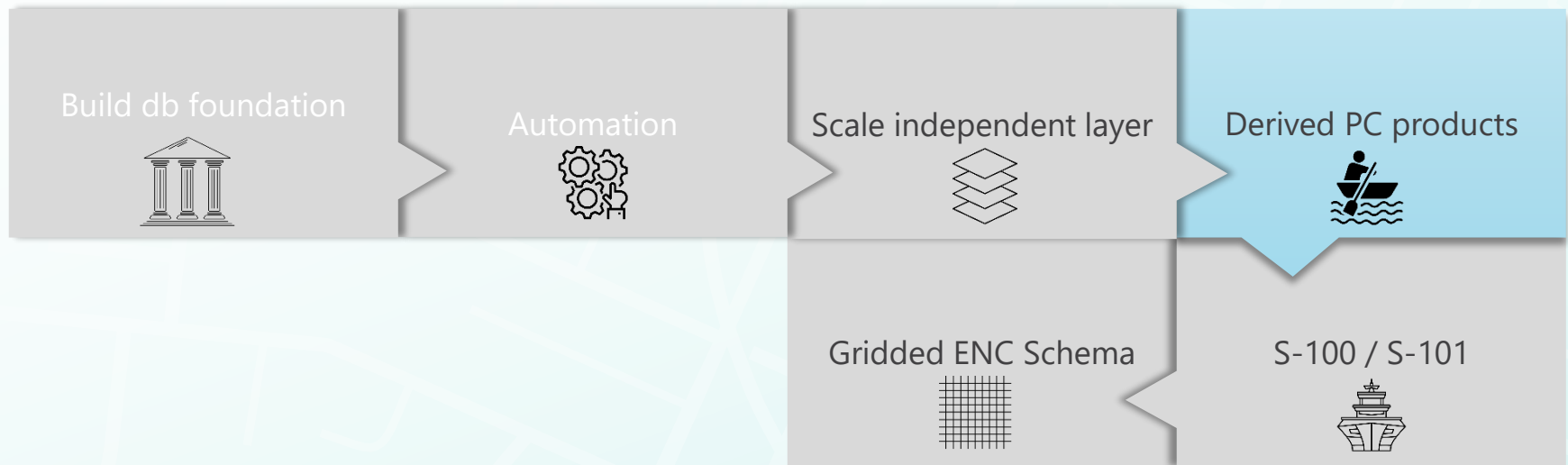
# Preparing for S-100



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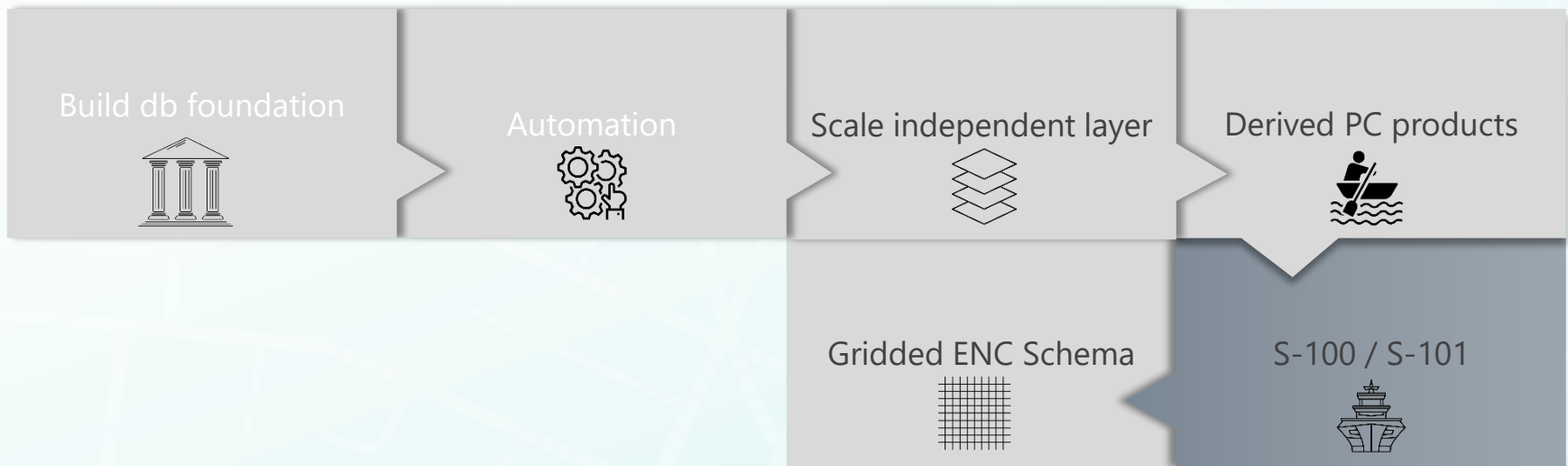


# Preparing for S-100

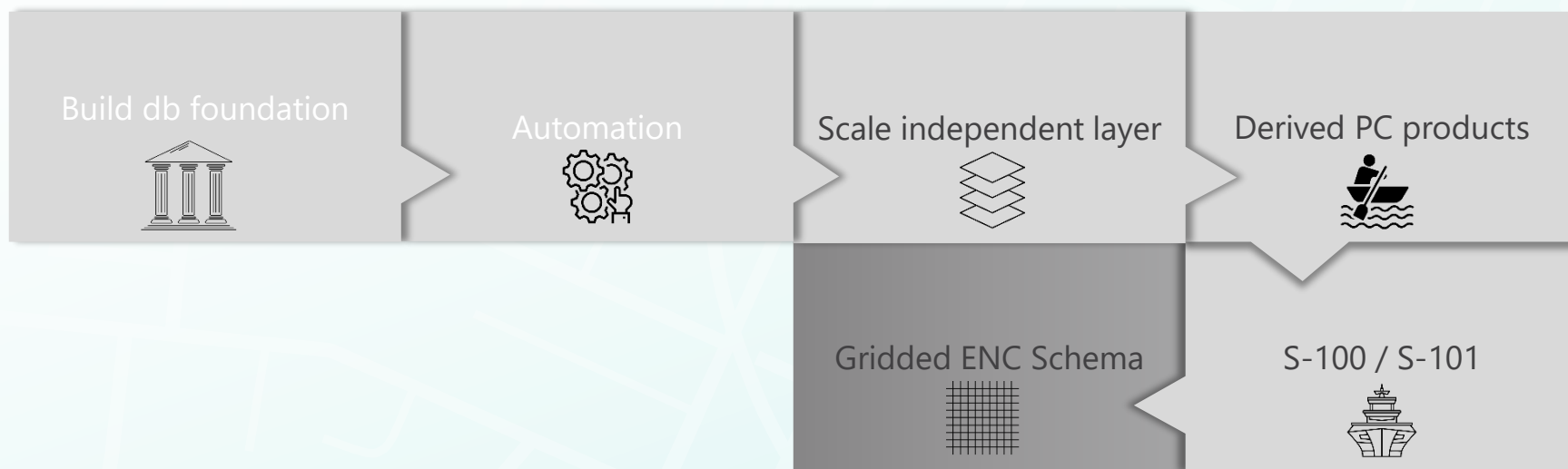




# Preparing for S-100



# Preparing for S-100





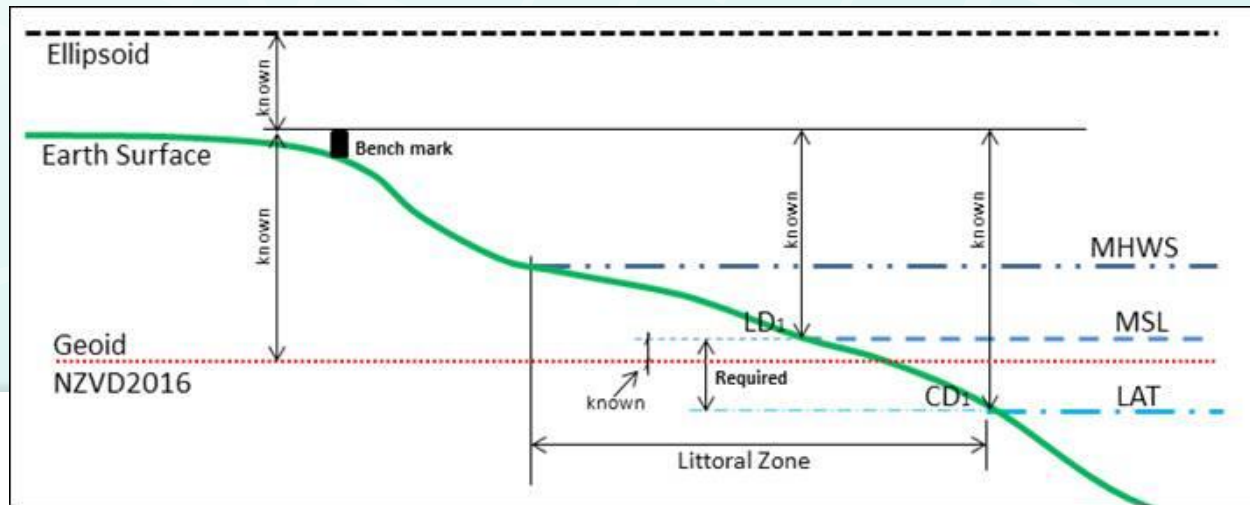
# Joining Land and Sea

# Joining Land and Sea

Objective: Integrate datasets collected at different datums across Land and Sea

## NZ Approach

- Installing additional short-term tide gauges around NZ coastline
- Improve the national tidal model – surfaces in terms of MSL
- Tie tidal model to the ellipsoid at tide gauges
- Develop an online transformation tool





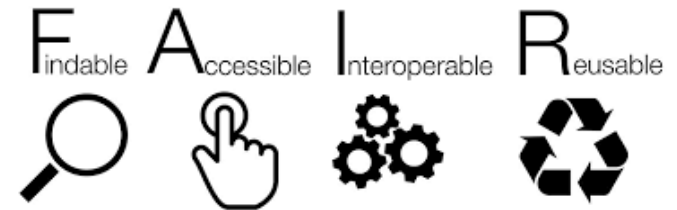
# NZ Marine Geospatial Community



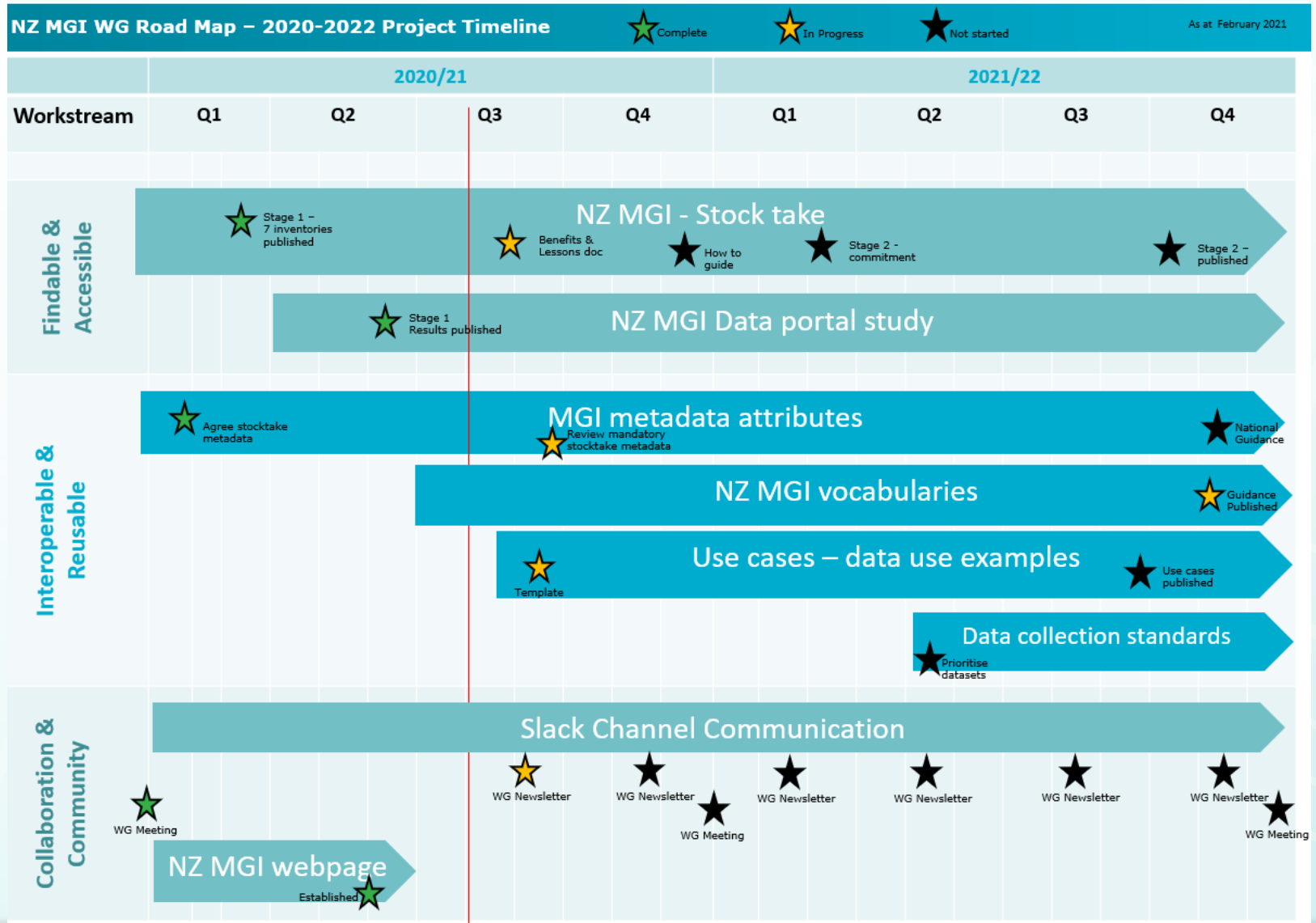
# NZ MGI Working Group

## Purpose

- Facilitate national collaboration to grow the value of MGI investments



# Work Programme



# Findable - National MGI Inventory

- NZ organisations undertaking MGI stocktakes
- 7 organisations completed today
- Output available on [www.data.govt.nz](http://www.data.govt.nz)
- Next steps
  - guidance to help others take part
  - User friendly national inventory

The screenshot shows the data.govt.nz website interface. At the top, there's a navigation bar with links: Get datasets, Manage data, Use data, Open data, Events, Blog, About, and a Search button. Below the navigation bar, the page title is "Search datasets for 'marine geospatial'". A search bar contains the text "marine geospatial". To the right of the search bar, there's a dropdown menu for "Order by:" set to "Relevance". Below the search bar, there are two buttons: "Request a dataset" and "Search for website content".

On the left side, there's a "Filter by location" section with a map of New Zealand and a list of organisations with their respective dataset counts:

- Ministry for Primary Industries (90)
- Northland Regional Council (63)
- Greater Wellington Regional Council (58)
- National Institute of Water and Atmospheric Research (42)
- Gisborne District Council (29)
- Hawke's Bay Regional Council (14)
- Marlborough District Council (13)
- Environment Canterbury (11)
- Bay of Plenty Regional Council (7)
- Department of Conservation (5)

Below the list, there's a "Show More Organisations" button.

On the right side, the main content area displays "338 datasets found for 'marine geospatial'". The first result is "Greater Wellington Regional Council Marine Geospatial Data Inventory" by Greater Wellington Regional Council. It includes a description: "This data inventory is a list of datasets with metadata that describes each dataset's contents, publisher, contact point, licensing, open status, temporal and spatial details,..." and a "CSV" button.

The second result is "Environment Southland's marine data inventory" by Environment Southland. It includes a description: "List of publicly available marine-related datasets from Environment Southland." and a "CSV" button.

The third result is "MPI Marine Geospatial Inventory" by Ministry for Primary Industries. It includes a description: "List of available marine geospatial datasets from the Ministry for Primary Industries/Fisheries New Zealand." and a "CSV" button.

The fourth result is "LINZ Marine Geospatial Inventory" by Land Information New Zealand. It includes a description: "List of available marine geospatial datasets from Land Information New Zealand." and a "CSV" button.

The fifth result is "Marine Geospatial Catalogue" by Ministry for Primary Industries. It includes a description: "List of available marine geospatial datasets from the Ministry for Primary Industries/Fisheries New Zealand." and a "CSV" button.

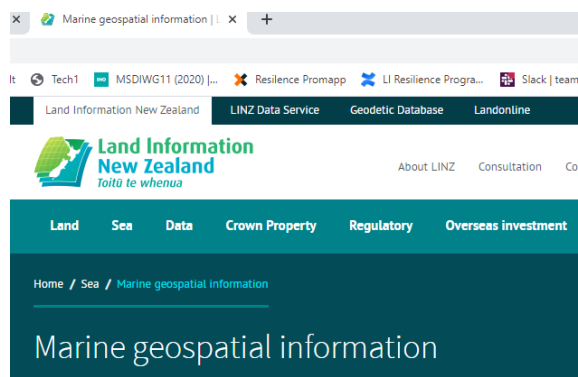


# Accessible - NZ MGI Data Portal Review

		Te Kete Korero a Te Takutai Moana	AuSEABED	Petlab	LAWA	IRA Moana	NZ Petroleum Basin Explorer	LDS	IHO DCDB
Purpose of the portal	Discoverability of data or metadata catalogue	✓	✓	✓	✓	✓	✓		✓
	Visualisation of data and geospatial information	✓	✓		✓	✓	✓		✓
	Access to data	✓	✓	✓	✓	✓	✓	✓	✓
	Other	✓	✓						
Types of marine geospatial data supported by the portal	Species data (e.g. seabirds, fish, algae, invertebrate, marine mammals, etc)								
	Community data (e.g. species distribution, modelling datasets, species turnover, etc)								
	Ecosystem data (e.g. marine habitat)				✓				
	Depth/bathymetry (e.g. grids, soundings, contours, surfaces, models, etc)	✓	✓				✓	✓	✓
	Geophysical (e.g. seafloor characteristics, backscatter, sedimentology, slopes, curvature, rugosity, ground sampling, etc)		✓	✓			✓	✓	
	Water observations (e.g. temperature, turbidity, water column backscatter, salinity, sound velocity profiles, etc)				✓				
	Sea level data (e.g. coastline, tidal data, etc)						✓	✓	
	Meteorological data (e.g. air temperature, air pressure, wind, etc)								
	Marine infrastructure (e.g. hazards, marine farms, coastal construction, aids to navigation, etc)	✓						✓	
	Human activities (e.g. pollution, plastics, chemicals, oil, gas, vessel tracks, commercial catch effort, recreational fishing intensity, etc)	✓					✓		
Data is supplied by	Management areas (e.g. marine reserves, sanctuaries, fishing restrictions, Mataitai, Taiapure, fishing reporting grids, etc)	✓	✓				✓	✓	
	Other	✓		✓		✓	✓		
	Own organisation	✓	✓	✓	✓	✓	✓	✓	✓
	Other organisations / Third party	✓	✓	✓	✓	✓	✓	✓	✓
External data is uploaded by	Portal owner / Own organisation	✓	✓		✓	✓	✓	✓	
	Data supplier		✓	✓		✓	✓		✓
External data is managed by	Portal owner / Own organisation	✓	✓		✓	✓	✓	✓	
	Data supplier	✓	✓		✓	✓	✓		✓
Third party data supplier is responsible for	Costs of their data being uploaded on the portal		✓		✓				
	Costs of their data being maintained on the portal		✓		✓				
	Costs of their data being stored on the portal		✓		✓		✓		
	Costs of their data being accessed/downloaded on the portal		✓						✓
	Costs of the portal infrastructure being maintained and administered				✓				
	Other costs		✓			✓	✓		
Accessibility	Direct download	✓	✓	✓	✓	✓	✓	✓	✓
	API		✓			✓	✓	✓	
	Webservices (wmts, wms, wfs, etc)	✓	✓	✓			✓	✓	✓
	Physical media (USB drive, disc, etc.)							✓	✓
	Other					✓			
Data exploration	Search	✓	✓	✓	✓	✓	✓	✓	✓
	Filter	✓	✓		✓	✓	✓	✓	✓
	Subset	✓	✓	✓		✓	✓	✓	✓
	Custom visualisation (e.g. turning layers on/off, zooming, changing basemap, etc)	✓	✓		✓	✓	✓		✓
Data reuse	Data released under open licence (e.g. Creative Commons, etc)	✓	✓	✓	✓		✓	✓	✓
	Licensing restrictions exist					✓			
	Other licensing policy			?			✓		
	Free access/reuse the data	✓	✓	✓	✓	Varies	✓	✓	✓
Standards	ISO 19115/19139	✓	✓				✓	✓	✓
	OGC Web Services	✓	✓	✓	✓		✓	✓	✓
	Predefined / standardised vocabularies	✓	✓			✓			
	Proprietary standard						✓		✓
	Custom standards		✓			✓	✓		
User experience	other			✓			✓		
	No login required	✓	✓		✓	✓	✓		✓
Analytics for data owner	Available user guide/help tab	✓	✓			✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓	✓	

# Communication and Outreach

## Webpage



New Zealand's marine environment is a taonga. Our waters are rich in biodiversity and unique ecosystems.

The marine environment supports recreational and economic activities and is of significant spiritual and cultural value to our people.

A sustainable blue economy contributes to economic growth, while preserving the health of marine and coastal ecosystems.

Marine geospatial data helps us understand our marine environment, supporting decision-making to ensure our oceans are protected for future generations.

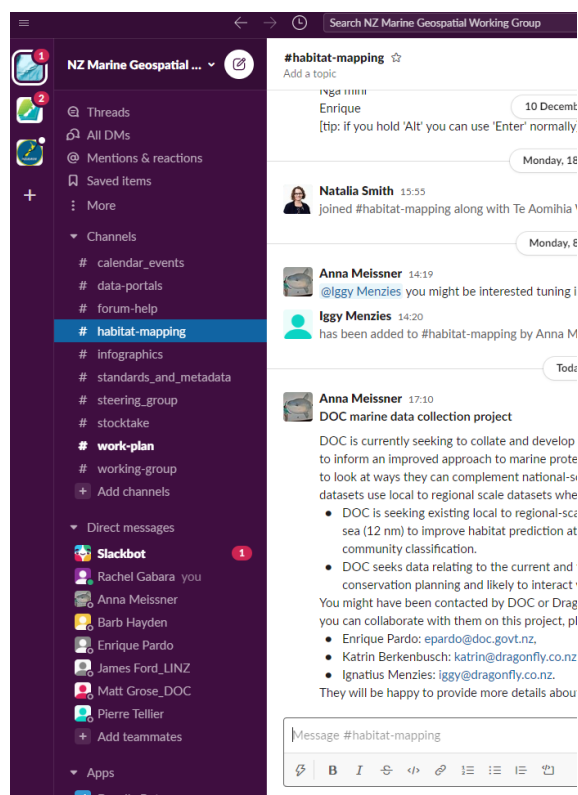
Key marine geospatial datasets need to be easy to find and use.

Land Information New Zealand is working in collaboration with the marine geospatial community to improve access and reuse of marine geospatial data and support a sustainable blue economy.

### Finding NZ Marine Geospatial Information

There are many places to find NZ marine geospatial information (NZ MGI). The Marine Geospatial Information Working Group is working to increase the findability and accessibility of marine geospatial

## Slack Channel



## Newsletter

### Pānui Ahumoana

MGI newsletter 1, March 2021

#### Kia ora koutou and welcome to the inaugural MGI newsletter Pānui Ahumoana!

We created Pānui Ahumoana to increase communication with the New Zealand Marine Geospatial Information Working Group (NZMGI-WG) and the wider community. It means to announce or notify in te reo and is reflective of this newsletter's purpose. Pānui Ahumoana relates to the marine environment. We will publish Pānui Ahumoana every two months to keep the NZMGI-WG informed on relevant updates and progress of our work.

Since the NZMGI-WG meeting in July 2020, the NZMGI Steering Group (NZMGI-SG) has been meeting every two months. This newsletter is the opportunity to report on what has been happening.

We welcome submissions for each newsletter including:

- conference announcements
- collaboration opportunities
- recent achievements
- pictures from the field
- any other news that you would like to share with the community.

# Thank you!