



Pacific Islands Ridge to Reef National Priorities – Integrated water, land, forest and coastal management to preserve biodiversity, ecosystem services, store carbon, improve climate resilience and sustain livelihoods

Launch of the GEF Pacific Ridge to Reef Programme Website and related decision-support tools

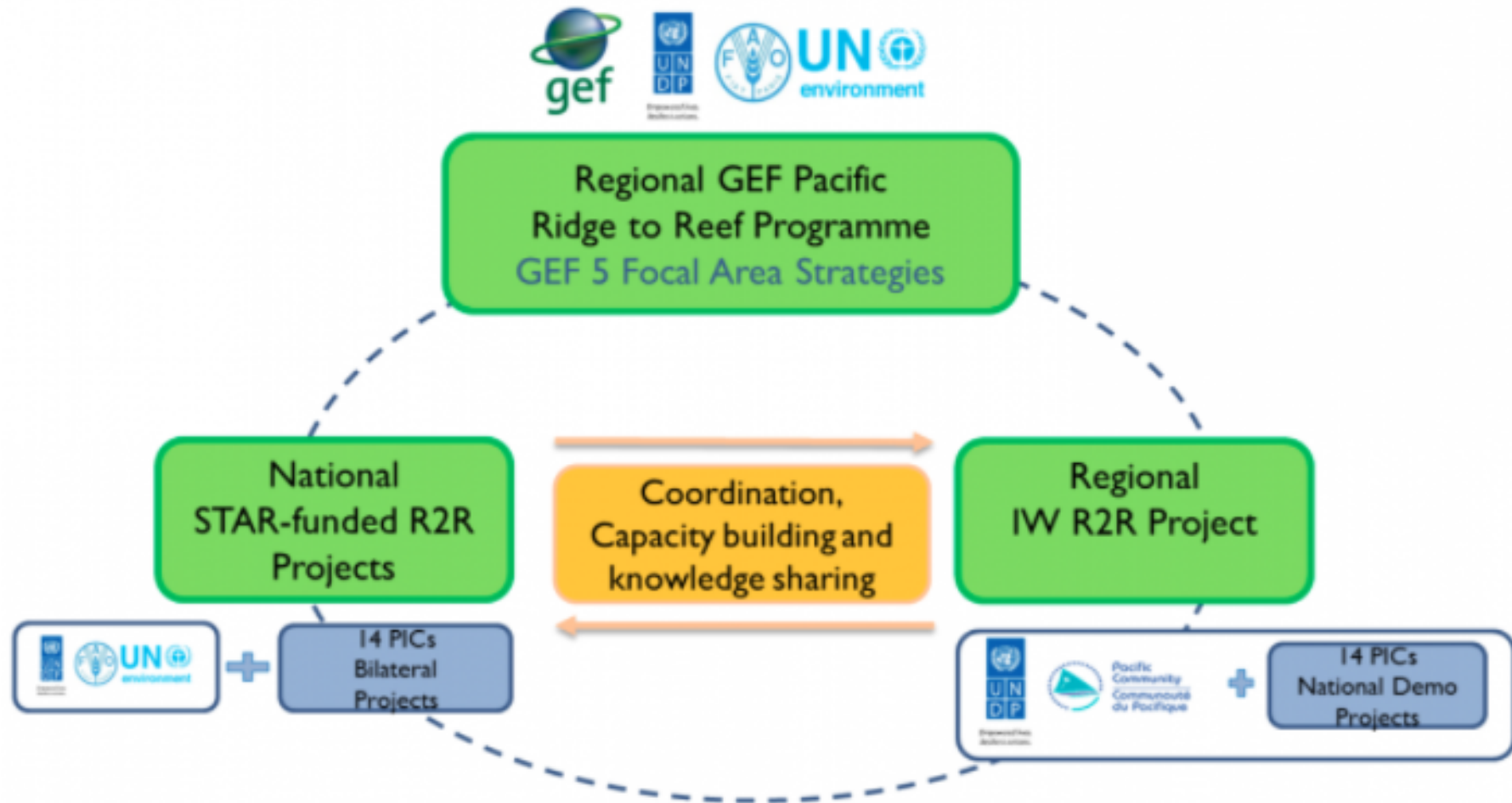
Fononga Vainga Mangisi-Mafileo and Sachin Singh

5th RSC Virtual Meeting

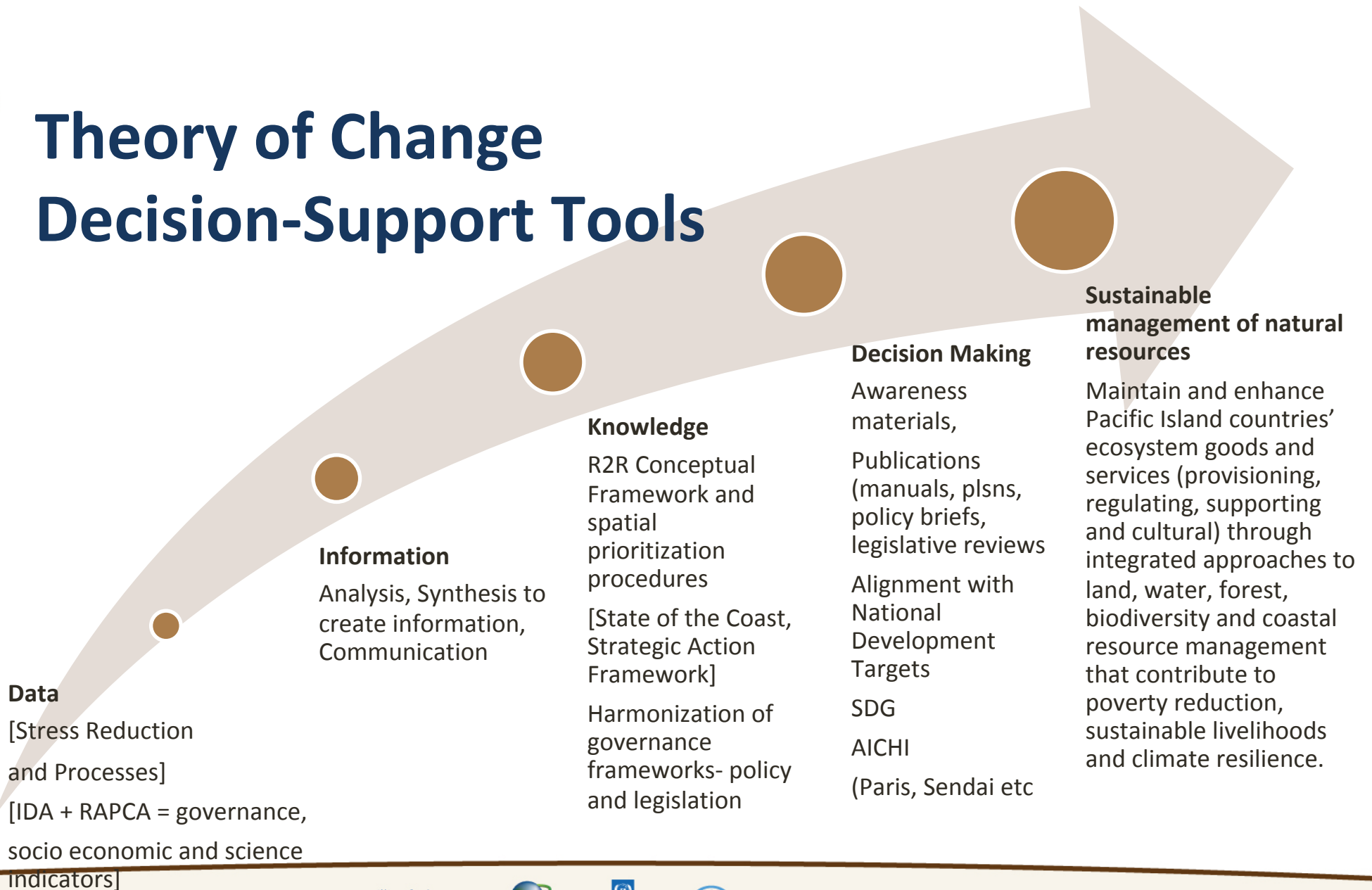
23 October, 2020



The Programmatic Approach



Theory of Change Decision-Support Tools





Regional Project Website
and associated databases

Programmatic Website
Status of regional programme and national investments
Programme and Project Results Reporting
Regional and national capacity building and knowledge sharing





Website Redevelopment – Fast Facts

- **Phase 1** soft launch on [World Water Day](#) on March 22.
- Pacific R2R website results (Aug 30, 2020):
 - ✓ 3,304 users (target 100). Exceeded 100-user target,
 - ✓ 25,584 page views,
 - ✓ Bounce rate: 25% (26% - 40% rates excellent)
 - ✓ 2279 downloads
 - ✓ 167 countries visited
 - ✓ Most visited page:
 - Resource library
 - News
 - Project pages
 - Capacity development
 - Science portal

Phase 2

- Science Portal and the Pacific State of the Coast (SoC) system and database launch
- Pacific R2R Science Database Training for PMs 2 October
- Follow-up country specific training for in-country GIS specialists
- Online regional and national portals developed
- Roster of national and regional experts and practitioners developed and deployed
- A virtual Content Management System training September 15-16 for STAR and IW projects to update, maintain and enhance the content of their respective online project pages.
- Launch of the first Pacific R2R Programme newsletter.

Challenges:

- PMIS development delay due to implementation issues.
- Related WP.03 Status on implementing MTR Recommendations and Management Responses



Phase 2 work, includes:


- Science Portal and the Pacific State of the Coast (SoC) system and database launch
- Pacific R2R Science Database Training for PMs 2 October
- Follow-up country specific training for in-country GIS specialists
- Online regional and national portals developed
- Roster of national and regional experts and practitioners developed and deployed
- Repository for best practice, lessons learned, and other programme outputs developed
- A virtual Content Management System training September 15-16 for STAR and IW projects to update, maintain and enhance the content of their respective online project pages.
- Launch of the first Pacific R2R Programme newsletter.

Phase 2 Challenges:

- PMIS development delay due to implementation issues.
- Related WP.03 Status on implementing MTR Recommendations and Management Responses




Pacific R2R Ridge to Reef [Data](#) [Maps](#) [Documents](#) [About](#) [Register](#) [Sign in](#)



PACIFIC STATE OF COAST

Spatial Data Infrastructure for the Pacific Ridge to Reef Programme




Pacific Community
Communauté du Pacifique

[Visualise Data >](#)

[Advanced Search](#)


<https://www.pacific-r2r.org/r2r-science-portal>



216 Layers

Click to search for geospatial data published by other users, organizations and public sources. Download data in standard formats.


[Explore layers >](#)



7 Maps

Data is available for browsing, aggregating and styling to generate maps which can be saved, downloaded, shared publicly or restricted to specify users only.


[Explore maps >](#)



24 Documents

As for the layers and maps GeoNode allows to publish tabular and text data, manage their metadata and associated documents.

[Explore documents >](#)




11 Users


Geonode allows registered users to easily upload geospatial data and various documents in several formats.


[See users >](#)


Pacific R2R Ridge to Reef [Data](#) [Maps](#) [Documents](#) [About](#) [Register](#) [Sign in](#)


Pacific Island Countries



Cook Islands



Fiji Islands



Federated States of Micronesia



Kiribati



Marshall Islands



Nauru



Palau



Papua New Guinea



Solomon Islands


Tonga



Tuvalu



Samoa



Timor-Leste



Vanuatu


Discover the available datasets.



BIODIVERSITY



BOUNDARIES



CLIMATE



ECONOMY



ELEVATION



ENVIRONMENT



FARMING



GEOSCIENCE



HEALTH



BASE MAPS



INLAND WATERS



INTELLIGENCE



LOCATION



OCEANS



PLANNING


POPULATION


SOCIETY


STRUCTURE


TRANSPORTATION


UTILITIES



Pacific
Community
Communauté
du Pacifique

State of Coast Platform

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SPATIAL DATA INFRASTRUCTURE

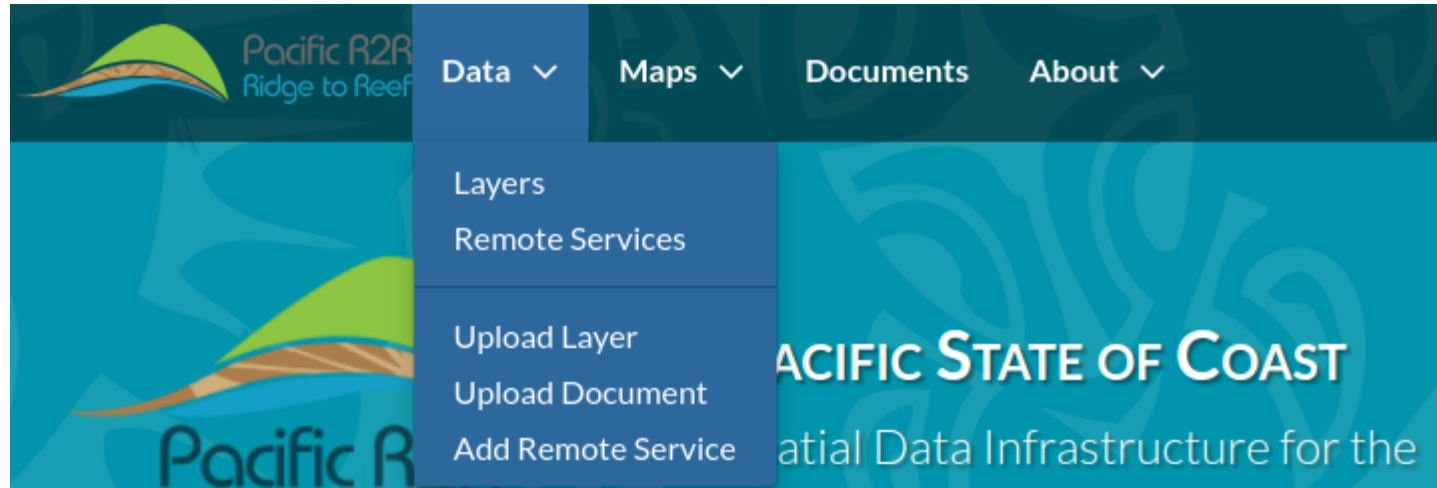
FOR THE

GEF PACIFIC RIDGE TO REEF PROGRAMME

<http://r2r.spc.int>



Key Features



[?] Spatial Data **Sharing**

(between users, groups, public)

[?] Related **Documents**, Reports and Assets

(non-spatial)

[?] Spatial Data **Visualisation** and Querying

[?] OGC **Metadata** Compliance

[?] Data **Catalogue** by Thematic Area, Country

[?] Time Series Data, **Temporal** Spatial Layers

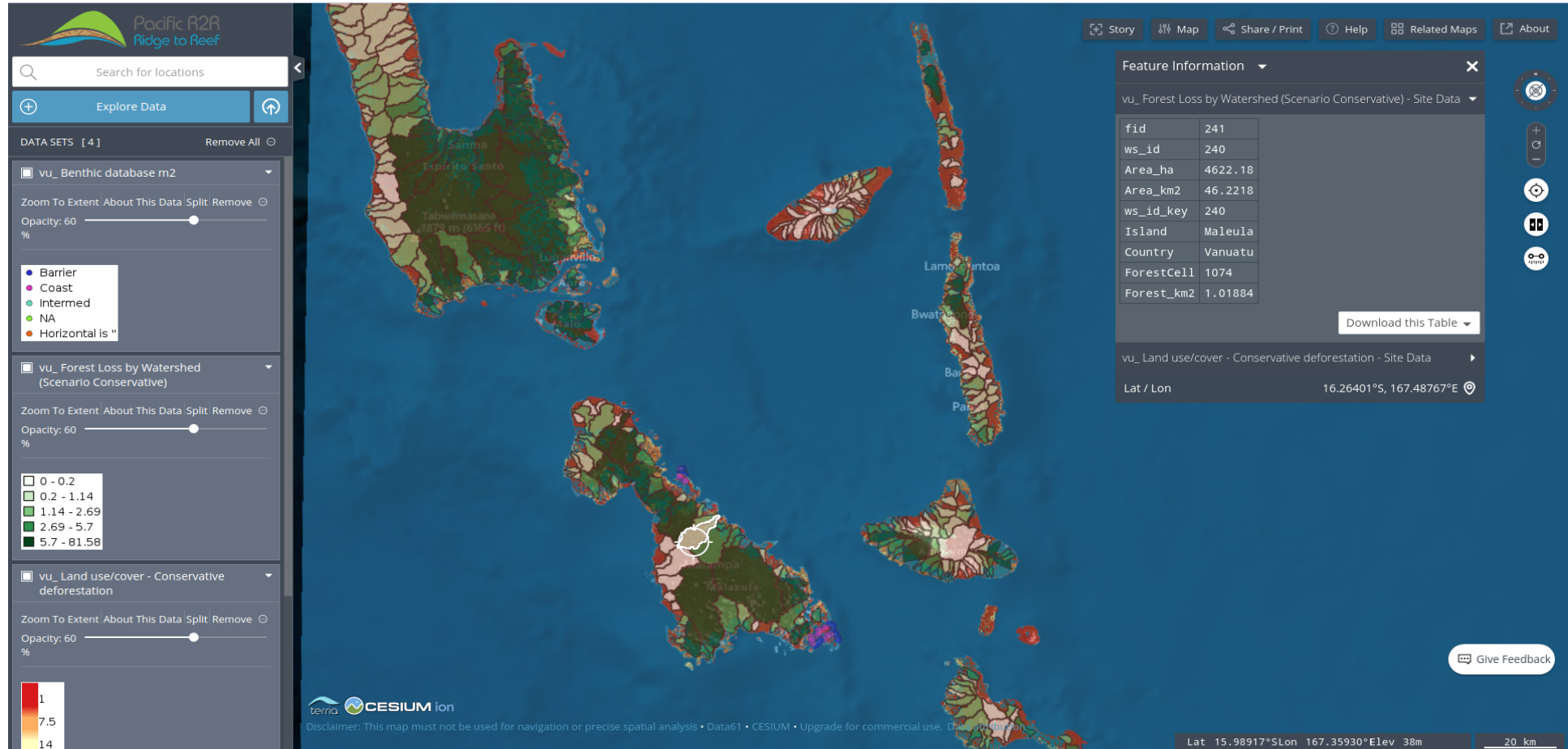
[?] DataSheet Register by **Indicators**, Site

[?] **Interoperable**

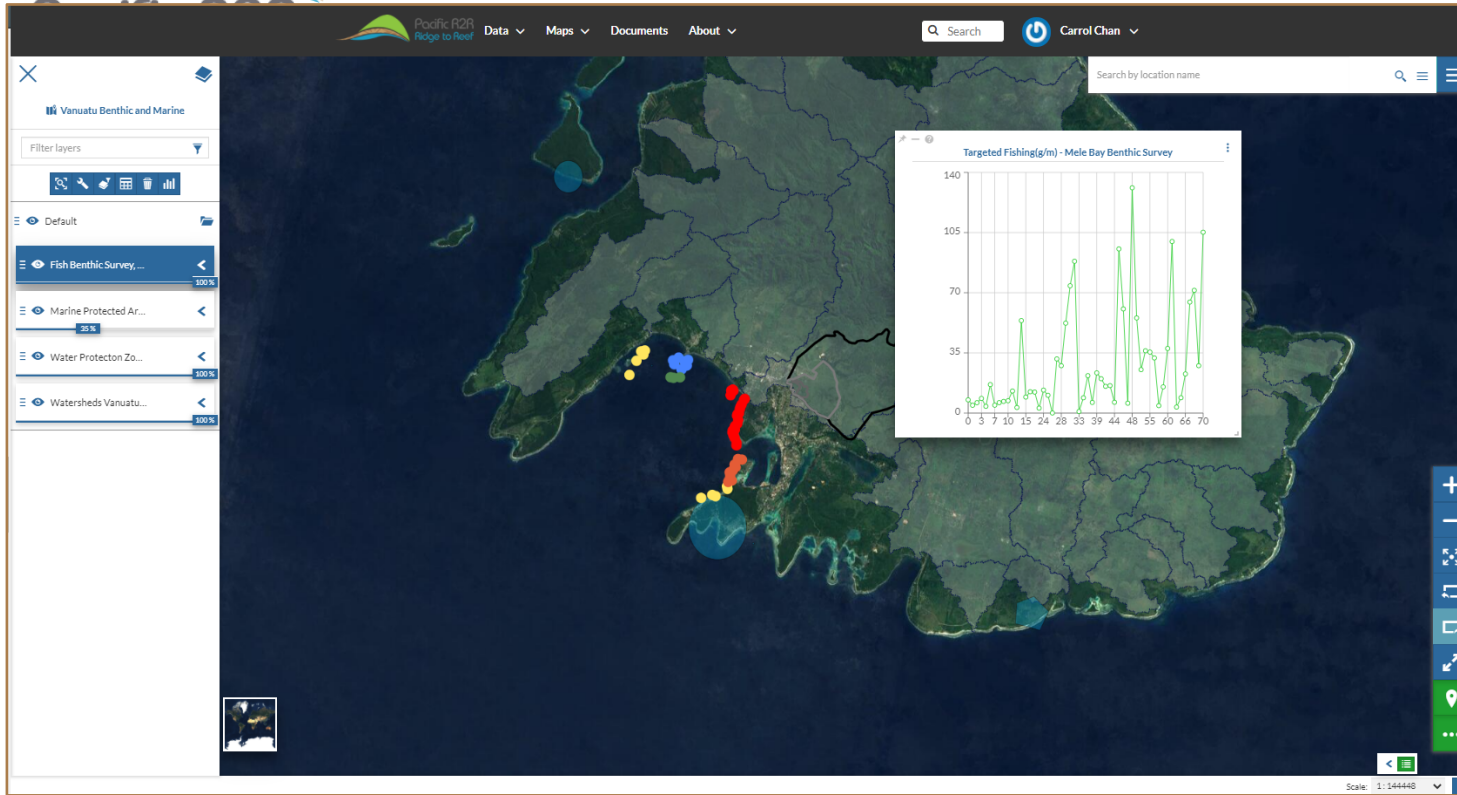
(with regional and international data platforms)

[?] **Open Source** (can be deployed at national project-level with minimal costs)

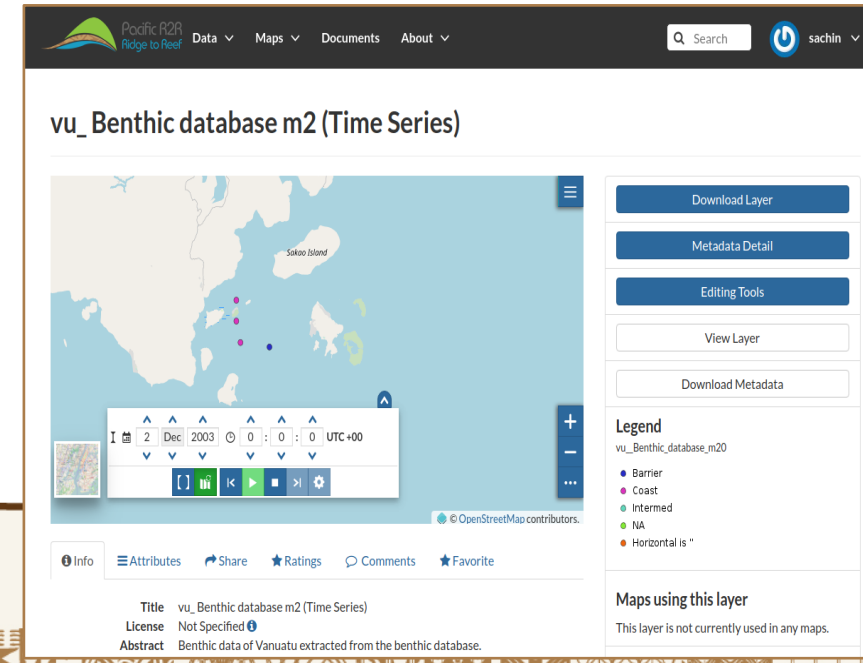
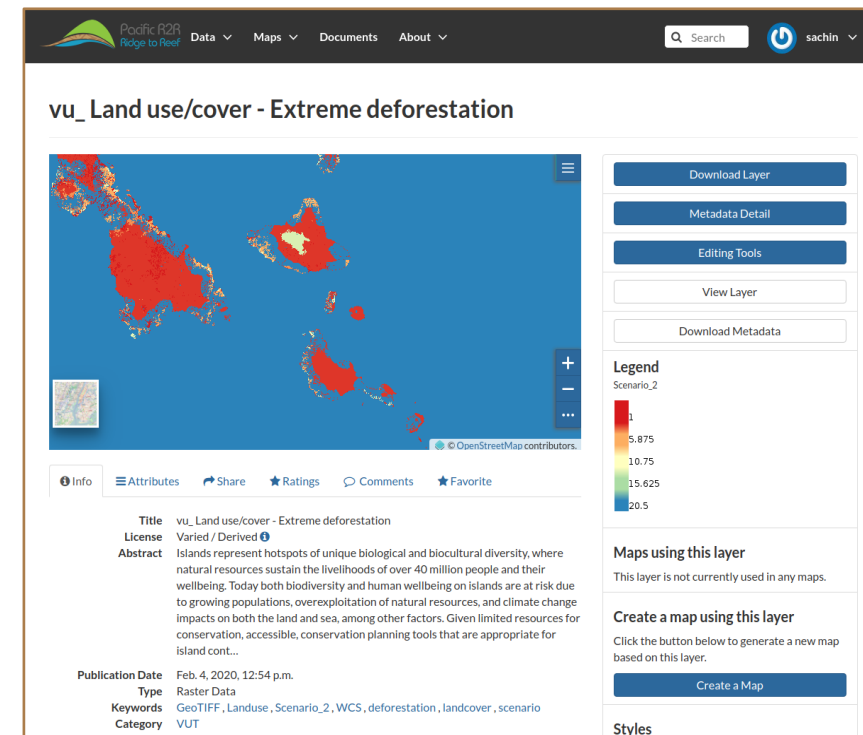
Mapping and Visualisation



Examples of Data and Functionality



Avifauna, Biological Habitats, Fisheries, Socio-Economic, Terrestrial, Water Quality, Global Baseline Data (Coral Reefs, Population Grids, Bathymetric, Seagrass, Mangroves, Land Cover, Watersheds, Rainfall, Soils)





Register for Environmental Data

The screenshot shows the homepage of the Pacific R2R Data Register. At the top, there is a header with the Pacific Community logo on the left and the text 'State of Coast Data Sheet Register Pacific Ridge to Reef Programme' on the right. Below the header is a large banner with the Pacific R2R logo and the text 'Data Register'. The main content area contains a paragraph explaining the register's purpose: 'The Data Register forms an integral part of the State of the Coast Information Management System, which as a whole is envisioned as a decision-making tool for supporting national ICM/IWRM reforms and investment plans, and socio-economic and environmental improvements including poverty reduction, sustainable livelihoods and disaster and climate resilience.' Below this is another paragraph: 'The current version of the data register enables the management and analysis of environmental and socio-economic data that has been captured on the ground and mined through secondary data sources by the Pacific Ridge to Reef Programme and STAR IW Project. These datasets include forestry surveys, water quality assessments, creel surveys and so forth. To compliment the Pacific Ridge to Reef Science-Policy Approach, stakeholders are encouraged to take ownership to maximise existing data through contribution of data and assets.' There are two sections: 'Data Types' with links for 'Avifauna', 'Biological', 'Country', 'Fishing Benthic', 'Fishing Creel', 'Socio Economic', 'Terrestrial', and 'Water Quality'; and 'Data Actions' with buttons for 'Export Templates', 'Import Data Templates', and 'Analytics'. At the bottom, there are logos for the Pacific Community, GEF, UNDP, FAO, and UN Environment. The footer contains the copyright notice: '© 2020 Geoscience, Energy and Maritime Division (GEM), Pacific Community (SPC)'.

The screenshot shows the data entry form for the Pacific R2R Data Register. The form is titled 'DataSheet Register' and has tabs for 'Forest Stand Distribution', 'Ground Water', and 'Surface Water'. It includes input fields for 'Site Name', 'Site Country', and 'GeoLocation' (with a 'Set GeoLocation' button). Below these is a table for 'Environmental Data' with columns for 'Category', 'Unit', 'Data Available?', and 'Comment'. The table is currently displaying data for 'FS2.1: Physical Environment'. The rows are: 'Average soil texture' with sub-rows for 'Sand', 'Silt', and 'Clay' (each with a percentage input field and a 'Data Available?' checkbox); 'Present area (Year ?)' with a 'Hectare' input field and a 'Data Available?' checkbox; 'Average rate of change over the last decade in area cover' with a 'Hectare/year' input field and a 'Data Available?' checkbox; 'Average cross sectional slope' with a 'Degrees' input field and a 'Data Available?' checkbox; 'Slope aspect' with a percentage input field and a 'Data Available?' checkbox; 'Topography' with sub-rows for 'Flat', 'Hilly', 'Low-lying', and 'Upland' (each with a percentage input field and a 'Data Available?' checkbox); and 'Number of vegetation zone' with a 'Number' input field and a 'Data Available?' checkbox.

Enables management and analysis of **non-spatial** environmental, socio-economic, habitat, natural resources and other data sets collated by Pacific Ridge to Reef Programme and STAR IW Projects in a **standardised** manner.



From data to decision-making

The R2R framework and infrastructure supports Pacific Island countries to:

- ✓ Identify priority conservation areas on land that will have the greatest impact on marine conservation;
- ✓ Test proposed terrestrial and marine protection and restoration policy actions and model their effects on marine resources;
- ✓ Development of a decision support tool to identify synergies and trade-offs in habitat conservation across terrestrial and marine ecosystems at an archipelagic scale.





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VINAKA VAKALEVU THANK YOU VERY MUCH

