




Pacific
Community
Communauté
du Pacifique



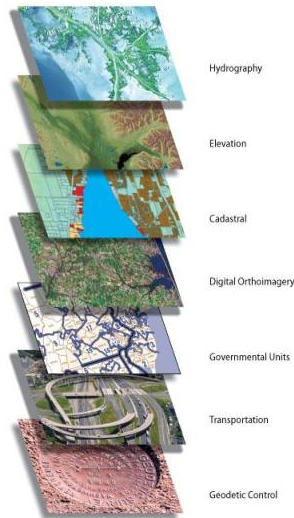
PACIFIC ISLAND
COUNTRIES
GIS/RS
USER
CONFERENCE

DISCUSSION SESSION ON PACIFIC SPATIAL DATA INFRASTRUCTURE

Thursday 19th November 2015

Sachindra Singh
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ICT for Development Section
Geoscience Division, Pacific Community

Rehash: What is SDI?



Hydrography

Elevation

Cadastral

Digital Orthoimagery

Governmental Units

Transportation

Geodetic Control

*The term “Spatial Data Infrastructure” (SDI) is often used to denote the relevant base collection of **technologies, policies and institutional arrangements** that facilitate the availability of and access to spatial data. The SDI provides a basis for spatial data discovery, evaluation, and application for users and providers within all levels of government, the commercial sector, the non-profit sector, academia and by citizens in general.”*

– SDI Cookbook

<http://www.gsdi.org/gsdicookbookindex>

An inter-connected set of systems that enables **easy** management, exposure & usage of information across all **spatial data** themes.

ICT for Development Section, Geoscience Division, SPC

Rehash: Why SDI?

Fundamental step towards a fully **Spatially Enabled Pacific Society**.

Empowers **Sound Decision Making** in a Spatial Context

Leverages **Collective Intelligence** across agencies

Sustainable **Economic** Development:

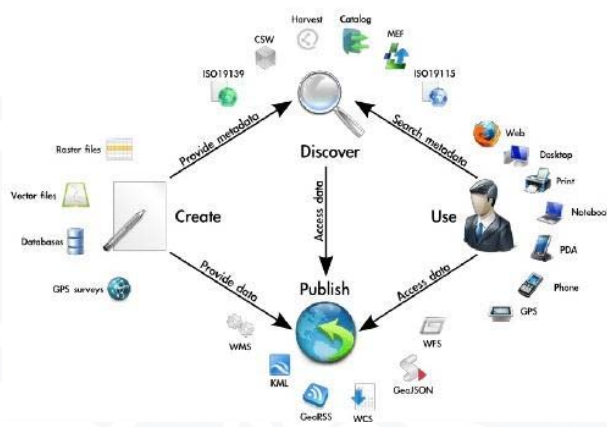
In NZ, Using Geospatial Information contributes **1.2 Billion NZD/year** to NZ Economy
 2009 Productivity Report, LINZ, NZ Ministry of Economic Development

<http://www.linz.govt.nz/sites/default/files/docs/geospatial-office/spatial-information-in-the-new-zealand-economy-2009.pdf>

In EU, Using Open Data saves EU Countries saves **114 Billion Euros/year**.

<https://joinup.ec.europa.eu/news/contribution-open-source-europes-economy-450-billion-year>

Rehash: How SDI?



Regional: PacGeo

PacGeo

An open access geospatial data repository for the Pacific Region providing premier geophysical, geodetic, and marine spatial data sets.

Developed through collaboration between the Geoscience Division of Secretariat of the Pacific Community (GSD-SPC), University of Sydney, Geoscience Australia (GA), and GRID-Arendal.

547 Layers
Click to search for geospatial data published by other users, organisations and public sources. Download data in standard formats.
[Explore layers >](#)

4 Maps
Data is available for browsing, appraising and styling to generate maps which can be shared publicly or restricted to specific users only.
[Explore maps >](#)

65 Users
PacGeo allows registered users to easily upload geospatial data in several formats including shapefile and GeoTIFF, along with related documents and editors.
[See users >](#)

Pacific Island Countries

Cook Islands, Fiji, Federated States of Micronesia, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Tonga, Tuvalu

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Regional: Pacific Risk Information

PCRAFI

Pacific Catastrophe Risk Assessment and Financing Initiative

520 Layers
Click to search for geospatial data published by other users, organisations and public sources. Download data in standard formats.
[Explore layers >](#)

12 Maps
Data is available for browsing, appraising and styling to generate maps which can be shared publicly or restricted to specific users only.
[Explore maps >](#)

65 Users
Pacific Risk Information allows registered users to easily upload geospatial data in several formats including shapefile and GeoTIFF.
[See users >](#)

Thematic

Agriculture, Health, Environment, Disaster Preparedness

Pacific Island Countries

Cook Islands, Fiji, Federated States of Micronesia, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Tonga, Tuvalu

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Regional: SPREP ESIS

GeoNode Search

ESIS
Environmental Geospatial Information System (Geospatial Data Repository) of the Pacific Regional Environment Programme (SPREP)

SPREP's ESIS is an open-source Geospatial Data Repository for the Pacific Region providing spatial data for environmental planning and governance. This repository has been developed with technical partners Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the GeoScience Division of Secretariat of the Pacific Community (SPC-GSD), and project partners Agence des Aires Marines Protégées (AAMP) and the European Union (EU). This portal is based upon GeoNode 2.4.

CSIRO Australian Aid SPC Secretariat of the Pacific Community Agence des Aires Marines Protégées European Union

39 Layers
Click to search for geospatial data published by other users, organizations and public sources. Download data in standard formats.
[Explore layers](#)

9 Maps
Data is available for browsing, appraising and styling to generate maps which can be shared publicly or restricted to specific users only.
[Explore maps](#)

6 Users
ESIS allows registered users to easily upload geospatial data in several formats including shapefile and GeoTIFF, along with related documents and videos.
[See users](#)

© 2015 Secretariat of the Pacific Regional Environment Programme | Version 2.4.2 | [OGC Web Services About](#) English

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Country: SolGeo

SolGeo Layers Maps Documents Views Citations Register your search here... Home

SolGeo is the Spatial Data Infrastructure (SDI) platform for the government of Solomon Islands implemented on top of an enterprise-level Geospatial Data Access platform that enables the ministries to centrally collate, manage, expose and analyse its spatial and related data holdings. This whole-of-government geospatial data services is essential to monitor and respond to natural resource use and infrastructure challenges within Solomon Islands, as it will enable sound decision making within a geospatial context.
[More information](#)

761 Layers
Click to search for geospatial data published by other users, ministries, organizations and public sources. Download data in standard formats.
[Add layers](#)

9 Maps
Data is available for browsing, appraising and styling to generate maps which can be shared publicly or restricted to specific users only.
[Create maps](#)

14 Users
SolGeo allows registered users to easily upload geospatial data in several formats including shapefile and GeoTIFF among others.
[See users](#)

24 Ministries
SolGeo enables 24 ministries and groups to manage data access and users in an independent and secure manner.
[See Ministries](#)

© 2015 ICTSD, Solomon Islands Government | Version 2.4.201 | [OGC Web Services About](#) English

ICT for Development Section, Geoscience Division, SPC

Country: SolGeo



The screenshot shows the SolGeo website interface. At the top, there is a navigation bar with links for Home, Maps, Documents, People, and Groups, along with a search bar and a user profile icon. The main content area features a title 'SolGeo' and a descriptive paragraph about the Spatial Data Infrastructure (SDI) platform for the Solomon Islands. Below this, there is a map of the Solomon Islands and a section titled 'About PacGeo/GeoNode' which describes the platform's capabilities for managing geospatial data. A footer section includes copyright information for the Solomon Islands Government and a language dropdown menu set to 'English'.

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Country: FijiGeo



The screenshot displays the FijiGeo website. The header includes the FijiGeo logo and navigation links for Layers, Maps, Documents, People, and Groups, with a search bar and a user icon. The main section is titled 'Fiji Geospatial Data Services and Repository' and provides a brief overview of the system's purpose. Below this, there are six key statistics presented with icons and brief descriptions: 651 Layers, 1 Map, 3 Users, and 14 Ministries. Each statistic has a corresponding 'See users' or 'Add layers' button. The footer contains copyright information for the Ministry of Lands and Mineral Resources and a language dropdown menu set to 'English'.

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Country: Cook Islands

GeoNode Layers Maps Documents People Groups Search Sign In

for effective response and recovery from disasters

Kia Orana and Welcome

The EMCI GeoNode system is as our answer to online mapping and document catalogue to assist emergency response teams make better decisions in the event of a national emergency.

Within this catalogue system, you will discover GIS maps and documents with metadata to provide information about the maps and documents. The metadata aspect will assist you in determining the origin, rights to use under license and amongst other information, validity of information being hosted. Although this system is focused on primarily for Emergency Response, however there are other information available to support decision making. We will endeavor to improve your experience throughout this system as we progress with further development.

Meiāka maata to our [partners](#) and contributors for their continuous support.

Feel free to [contact us](#) for any queries regarding EMCI GeoNode system.
Need help? [Contact Us](#)

33 Layers
Click to search for geospatial data published by other users, organizations and public sources. Download data in standard formats.
[Explore Layers](#)

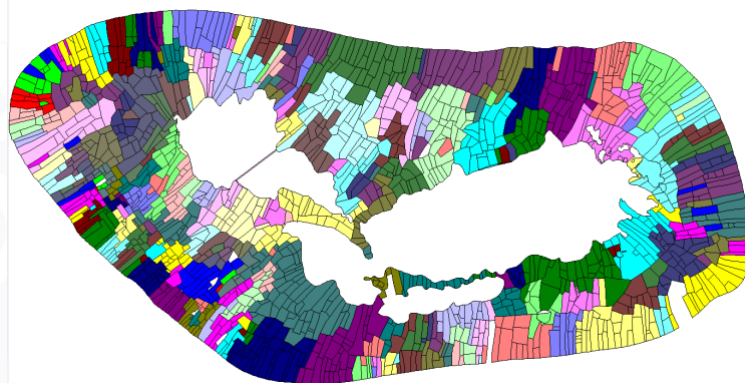
13 Maps
Data is available for browsing, aggregating and styling to generate maps which can be shared publicly or restricted to specific users only.
[Create Maps](#)

46 Users
GeoNode allows registered users to easily upload geospatial data in several formats including shapefile and GeoTIFF.
[Share Data](#)

Featured Information <http://geonode.emci.gov.ck>

ICT for Development Section, Geoscience Division, SPC

Country: TuvLIS



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KiGeo

Kiribati Health Portal v.1
Search
Welcome sachin

Kiribati Health Portal

Home Outbreaks Household Surveys Marine Water Monitoring Public Water Monitoring Maps Reports Villages Communities Sites

Welcome to Kiribati Health Portal

Kiribati Health Portal is a secure online database system which enables Ministry of Kiribati personnel to populate, collate and collaborate on outbreaks, household and utilities surveys, in addition to other related datasets, within a geospatial context.

[More Information](#)



Outbreaks
2021



Household Surveys
2



Marine Water Monitoring
1



Public Water Monitoring
1



Geospatial Maps
0



Documents & Reports
1

Disclaimer

Kiribati Health Portal database system may contain other proprietary notices and copyright information, the terms of which must be observed and followed. Information on this Web site may contain technical inaccuracies or typographical errors. Information may be changed or updated without notice.

Kiribati Ministry of Health may make improvements and/or changes in the products and/or the programs described in the information at any time without notice. For documents and software available from this server, Kiribati Ministry of Health does not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed.

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Cyclone Pam Spatial Data Resources

SPC
Secretariat
of the Pacific
Community
Cyclone Pam Spatial Data Resources

Severe Tropical Cyclone Pam is regarded as the worst natural disaster in the history of Vanuatu. United Nations reports that 10 people are known to have lost their lives in the aftermath of the storm, with many more fatalities reported but unconfirmed. The storm's impact was also felt in a lesser extent, in other islands in the South Pacific, most notably the Solomon Islands, Tonga, and New Caledonia. Pam is the second most intense storm of the South Pacific Ocean according to statistics after June 2002. Pam is also the most intense storm in the Southern Hemisphere by the same metric, only after Zita of 2002 and Gerta in 2004. In addition, Pam has the highest storm surge and caused at any South Pacific tropical cyclone. It is tied with Cyclone Owen and Cyclone Monica for having the strongest winds of any cyclone in the Southern Hemisphere.

This page collates all spatial data resources for affected areas available within SPC to assist stakeholders in communication efforts. This page will be continuously updated for the next few days.

DigitalGlobe
[Download Free Live Copies](#)

Subscribe to Pacific Disaster Net mailing list @ info@pdc.net for latest updates on media releases and situation reports.

Impact Maps

Vanuatu Risk Map

SPC Building Damage Classification for Pam Vile, 2015 (in progress)

SPC TC Pam Wave Summary (Preliminary)

SPC TC Pam Wave Summary (Preliminary)

UNEP/WHO: Potentially Displaced Areas and Zones

UNEP/WHO: Potentially Displaced Areas and Zones

WHO: Population by Building Material, Drinking Water and Sanitation Status

Vanuatu National Ocean Database (Depth, PO, SVP)

Proportion of Households With No Toilet Facility

Drinking Water Plants (operating, open, temporarily closed) by Tropical Cyclone Pam

Water Plants (operational, closed and unknown)

Situation Reports

Vanuatu: Tropical Cyclone Pam, Situation Report #1 - 23 March 2015 (PDF)

Vanuatu: Tropical Cyclone Pam, Situation Report #2 - 24 March 2015 (PDF)

Vanuatu: Tropical Cyclone Pam, Situation Report to UN on 24 March 2015 (PDF)

Pacific: Tropical Cyclone Pam (TC Pam), situation update report no. 3, 24 March 2015 (PDF)

Vanuatu: Tropical Cyclone Pam (TC Pam) Situation Report #3: Reporting period 25/03/2015 to 24/03/2015 (Emergency Preparedness/Response Sheet)


Cyclone Pam Interim Situation Report #3 - 25 March 2015 (PDF)

Vanuatu: Tropical Cyclone Pam - Social Media 24 Report #4 - March 25, 2015 (Word)

Vanuatu: Tropical Cyclone Pam, Situation Report # 4 of 12 March 2015 - UNOCHA

Vanuatu: Tropical Cyclone Pam, Situation Report No. 1 of 12 March 2015

Vanuatu: Tropical Cyclone Pam, Situation Report to UN Disaster NMOU, Situation Report # 5 (March 24, 2015)



CYCLONE PAM

Photo: Humanaid of Vanuatu

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Grows with technology: Point Cloud

Vanua Levu 2
Point cloud courtesy of
Geoscience Division, Secretariat of the Pacific Community

<http://gsd.spc.int/pointcloud>

ICT for Development Section, Geoscience Division, SPC

Pacific SDI Working Group

Australian Government
Geoscience Australia

THE UNIVERSITY OF SYDNEY

CSIRO

Pacific Community
Communauté du Pacifique

UNEP GRID ARENDAL
Environmental Knowledge for Change

SPREP
Secretariat of the Pacific Regional Environment Programme

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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Discussion on Pacific Limitations:

- Lack of an overall policy for spatial data acquisition, management and distribution
- Data ownership, usages, exchange, access and security
- Limitations on the institutional arrangements
- Inconsistent data standards and tools
- Incomplete and missing metadata
- Inconsistent/ incomplete knowledge about availability and quality of spatial data
- Weak ICT Infrastructure and capacity