

# Pacific Climate Change Portal (PCCP) and Climate Change Portal Starter-pack (CCPS)

## Step 2: Upgrade Design Documentation

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# Introduction

This document outlines an upgrade strategy applicable to:

- The regional Pacific Climate Change Portal (PCCP)
  - [pacificclimatechange.net](http://pacificclimatechange.net)
- National climate change portals, built upon SPREP's Climate Change Portal Starter-pack (CCPS)
  - Vanuatu - [nab.vu](http://nab.vu)
  - Fiji - [fijiclimatchangeportal.gov.fj](http://fijiclimatchangeportal.gov.fj)
  - Tuvalu - [www.tuvaluclimatechange.gov.tv](http://www.tuvaluclimatechange.gov.tv)
  - Papua New Guinea - [www.cdda.gov.pg](http://www.cdda.gov.pg)
  - Palau - [climatechange.palau.gov.pw](http://climatechange.palau.gov.pw)
  - Federated States of Micronesia - (offline)

The above sites are all built upon version 7.x of the Drupal content management framework.

This strategy outlines a proposed upgrade path that moves the portals to version 9.x of Drupal, leveraging the EKAN data portal distribution as a base platform.

# About the EKAN Platform

EKAN is an open data portal distribution built upon Drupal version 9.x and is based largely on its predecessor DKAN (Drupal 7.x) and the open data portal software CKAN (python based).

EKAN portals already exist for the publishing of environmental resources in the Pacific region, implemented through SPREP's Inform project. Although these portals are broader in scope than the climate change portals, there is a clear overlap in purpose, features and audience.

In some instances (e.g. FSM), stakeholders have expressed an interest in consolidation between the Inform data portals and the climate change portals.

In other cases (e.g. Regional portal) there is a clear desire to continue to operate a separate portal dedicated to publishing climate change related resources.

In all cases, there is a need for a common data sharing protocol to share the catalogue of resources between climate change portals and the broader environment information portals.

By establishing an upgrade path based on EKAN, the climate change portals listed above are given the flexibility of two pathways:

- Merge with an existing EKAN portal (i.e. Inform data portal).
- Upgrade to stand-alone EKAN instance.

In both cases the data schemas are consistent to facilitate information sharing through EKAN's existing harvesting features.

# High Level Architecture Design

## Categories of Content

At the core of the climate change portals are the following categories of content.

- Document / Resource
- Projects and Funding

Further to this are a number of other categories that can be considered “General” in nature, in that they are common in many content-managed websites, can have a fairly simple data structure and supplement the core features with value-adding features.

- News and Events
- Basic Page

The regional Pacific Climate Change Portal also has a Country content type, which serves both as a way to relate other content to countries and as a means to provide country profile pages. It is recommended that this should be separated into two content types (i.e. country and country\_profile) so that the two functions can be used independently.

Considering the above categories, the below table compares each to the current status of the EKAN distribution.

CCP Content Type	EKAN Status
Document / Resource	Similar in nature to EKAN's Dataset / Resource content.
Projects and Funding	Doesn't yet exist in EKAN.
News and Events	Doesn't yet exist in EKAN.
Country ( / Country Profile)	Doesn't yet exist in EKAN.
Basic Page	Equivalent exists in EKAN.

Therefore, the application development tasks required to enhance EKAN data structures to be a suitable upgrade path for the climate change portals can be summarised as the following.

1. Enhance EKAN's Dataset / Resource content management to accommodate the documents / resources currently hosted by the climate change portals.
2. Implement a country taxonomy vocabulary.
3. Implement a project and funding database feature.
4. Implement a news and events feature.

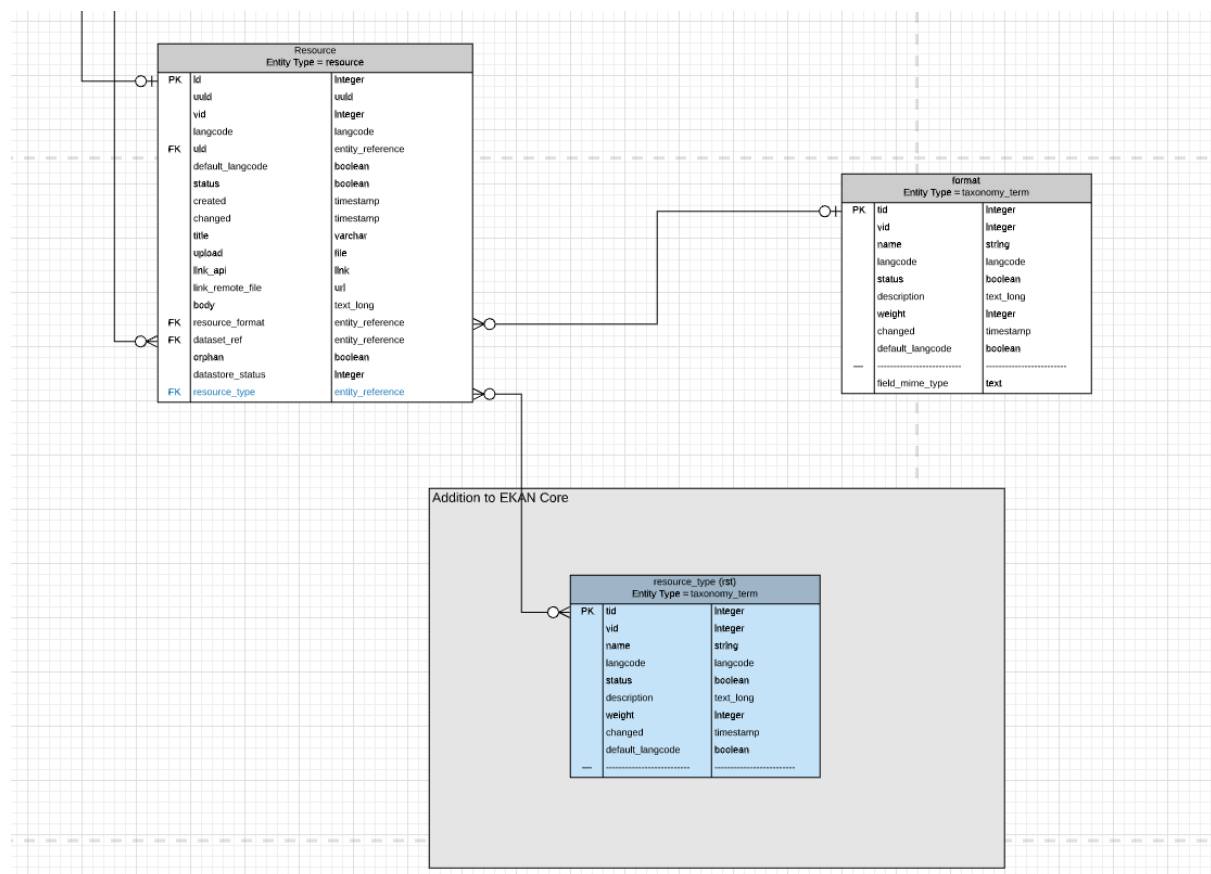
5. Implement a country profile feature.
6. Implement an announcement feature.

## Architecture Development Task: Enhance EKAN's Dataset / Resource content management.

Climate change portal documents can be hosted within EKAN with very few changes to the EKAN schema. This does however require some consolidation of categorisation fields, which has been detailed in the attached data mapping table to be used for data migration.

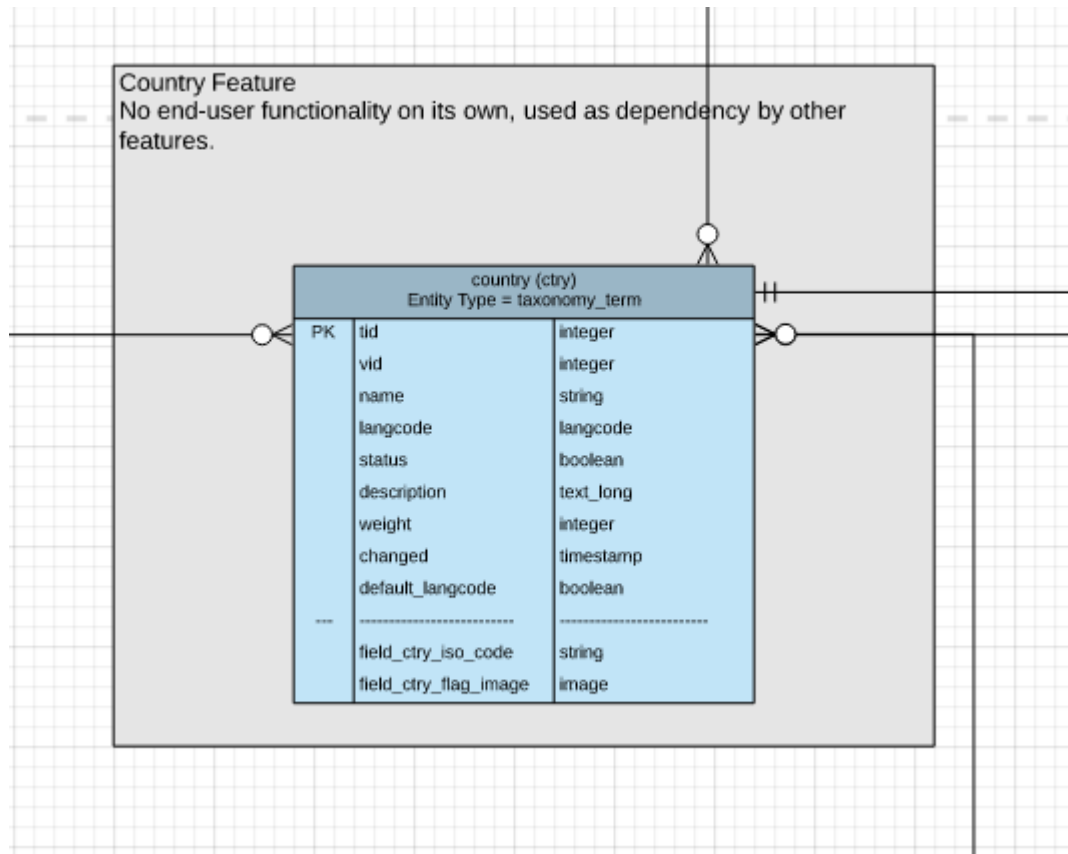
The following changes are recommended for the core EKAN schema to support the climate change portal documents.

- Add a resource type entity reference field onto resource entities, referencing a resource\_type taxonomy vocabulary. As this would be a useful addition to the EKAN distribution itself it could be submitted to the EKAN project rather than added as a custom change.



## Architecture Development Task: Implement a Country taxonomy vocabulary.

The country taxonomy vocabulary is needed as a dependency of the news and events feature, the country profile feature and the project and fund feature.



### Access Control

	Anonymous	Group Member	Content Creator	Site Manager
Country	R	R	R	CRUD

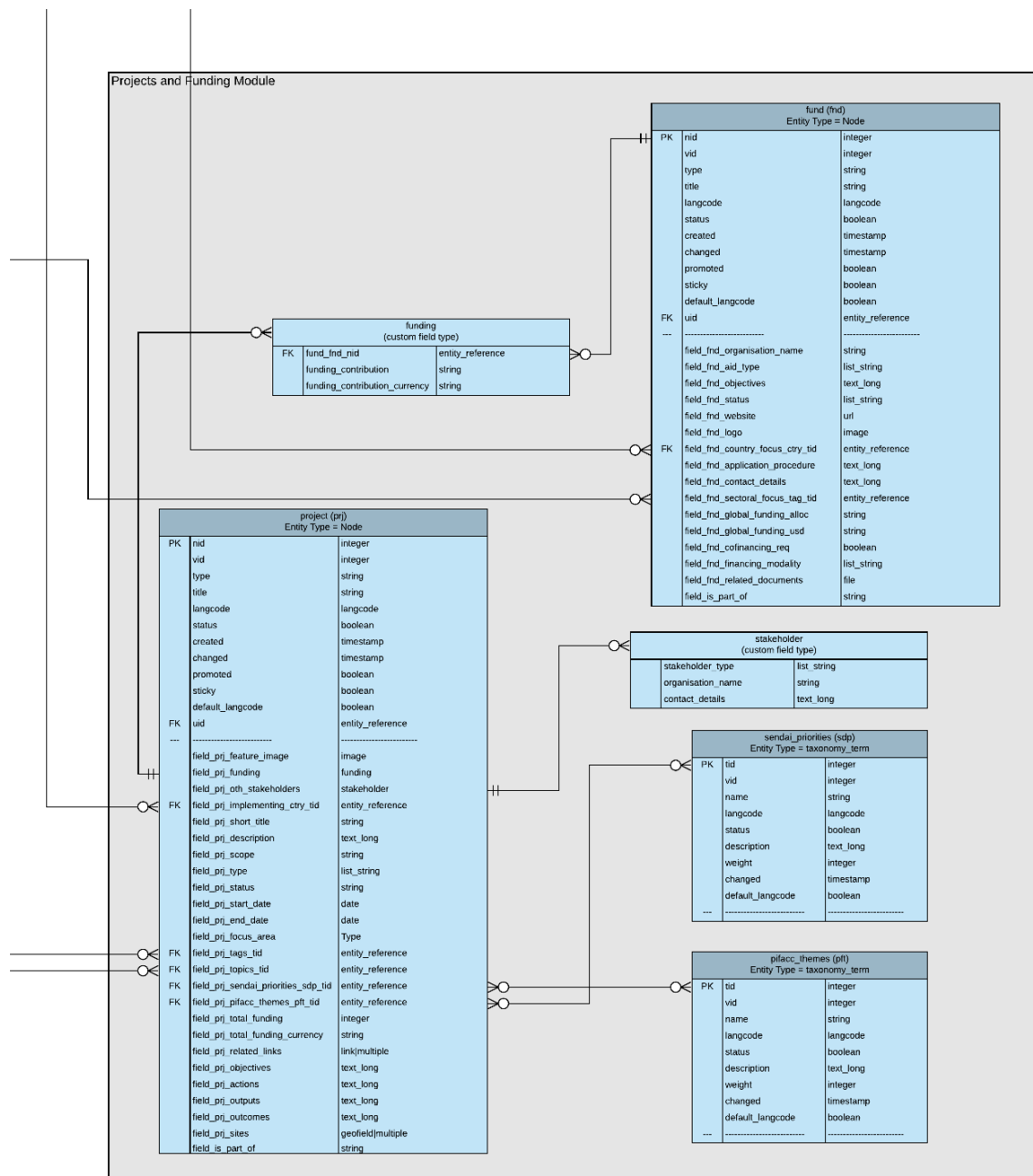
C = Create, R = Read, U = Update, D = Delete

## Architecture Development Task: Implement a project and funding database feature.

This feature can be added as a common element within SPREP-EKAN installations, although it might not be actively used within all data portals. Therefore any prominent (e.g. homepage) listings of these content types should be hidden if empty or stale. It should provide the following functionality.

### Key Requirements

- Content creators should be able to load project information into the portal. Following EKAN's group-based access control, general group members should not be able to edit project details belonging to a different group, but site managers should be able to edit all.
- Project information should capture at least title, description text and media (images / video), start/end date, countries the project relates to (or regional), the name of the funding donor, the total funding amount (+ currency) and an official project website URL.
- Project content should allow for categorisation using EKAN's topics (fixed categories) and tags (free-text categories). This will allow for sub-sets to be listed on dashboards such as climate change specific landing page dashboards.
- Featured project items should be listed on the homepage along with a link to browse the full projects database.



## Access Control

	Anonymous	Group Member	Content Creator	Site Manager
Project	R	C(within own group),R,U(within own group),D(within own	CRUD	CRUD

		group)		
Fund	R	C(within own group),R,U(within own group), D(within own group)		
Sendai Priority	R	R	R	CRUD
PIFACC Theme	R	R	R	CRUD

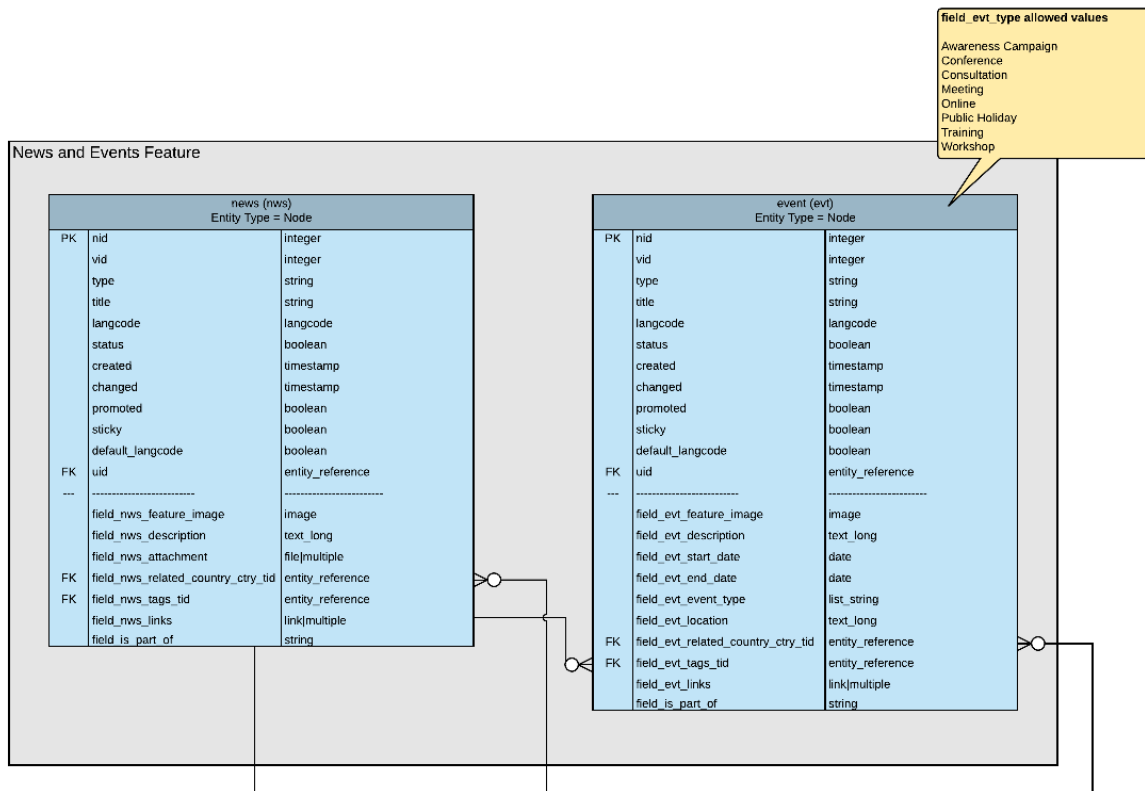
C = Create, R = Read, U = Update, D = Delete

## Architecture Development Task: Implement a news and events feature

This feature can be added as a common element within SPREP-EKAN installations, although it might not be actively used within all data portals. Therefore any prominent (e.g. homepage) listings of these content types should be hidden if empty or stale. It should provide the following functionality.

### Key Requirements

- Content creators should be able to create news and event content. Following EKAN's group-based access control, content creators should not be able to edit news or events belonging to a different group, but site managers should be able to edit all.
- News items should allow for a title, description text and media (images / video). The date published should be visible.
- News and event content should allow for categorisation using EKAN's topics (fixed categories) and tags (free-text categories). This will allow for sub-sets to be listed on dashboards such as climate change specific landing page dashboards.
- The latest news items should be listed on the homepage along with a link to browse the full news archive.
- Event items should allow for a title, start/end dates, description text and media (images / video).
- The next upcoming events should be listed on the homepage along with a link to browse the full events archive.
- Stale content should be avoided on the homepage. The homepage should list only upcoming events within the next 60 days and news content published within the last 60 days. If no news/events are then listed then the entire homepage block should not be shown.
- It is preferable for the display of events to be listed rather than shown in a calendar view, so that sufficient detail can be shown at a suitable size and for ease of accessible navigation using screen readers.



## Access Control

	Anonymous	Group Member	Content Creator	Site Manager
News item	R	C(within own group),R,U(within own group), D(within own group)	CRUD	CRUD
Event	R	C(within own group),R,U(within own group), D(within own group)	CRUD	CRUD

C = Create, R = Read, U = Update, D = Delete

## Architecture Development Task: Implement a country profile feature

This feature should be implemented as a module that can be optionally enabled on sites using the EKAN distribution, most probably just the Regional Pacific Climate Change Portal. It should provide the following functionality.

### Key Requirements

- Allow site managers to publish information about individual countries, such as general summary narrative around climate change adaptation and mitigation activities, challenges, policies etc.
- On the country profile pages, automatically display related content such as news, events and projects relating to the same country.

Country Profile Module  
Only needed on regional climate change portal.

country_profile (ctp) Entity Type = Node		
PK	nid	integer
	vid	integer
	type	string
	title	string
	langcode	langcode
	status	boolean
	created	timestamp
	changed	timestamp
	promoted	boolean
	sticky	boolean
	default_langcode	boolean
FK	uid	entity_reference
---	-----	-----
FK	field_country_ctry_tid	entity_reference
	field_ctp_focal_points	text_long
	field_ctp_overview	text_long
	field_ctp_climate_information	text_long
	field_ctp_governance	text_long
	field_ctp_adaptation	text_long
	field_ctp_mitigation	text_long
	field_ctp_education	text_long
	field_ctp_key_national_policies	text_long
	field_ctp_partnerships	text_long
	field_ctp_ongoing_challenges	text_long
	field_ctp_references	text_long
	field_ctp_related_links	link multiple
	field_ctp_key_policy_documents	file multiple
	field_is_part_of	string

## Access Control

	Anonymous	Group Member	Content Creator	Site Manager
Country Profile	R	R	CRUD	CRUD

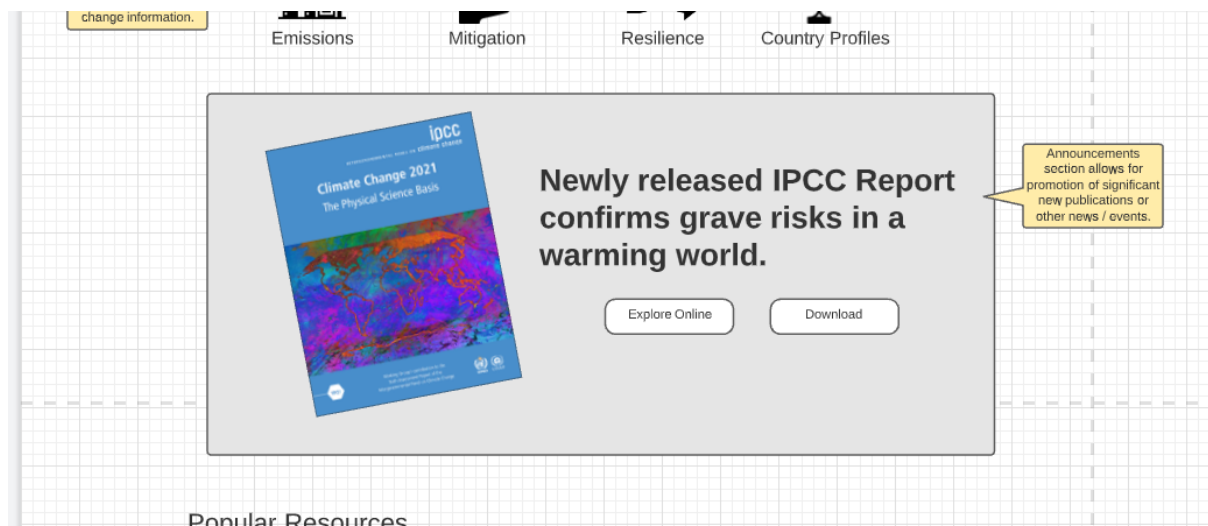
C = Create, R = Read, U = Update, D = Delete

## Architecture Development Task: Implement an announcement content type.

Announcements did exist as a content type within the legacy Pacific Climate Change Portal, however were under utilised so are not considered to require data migration.

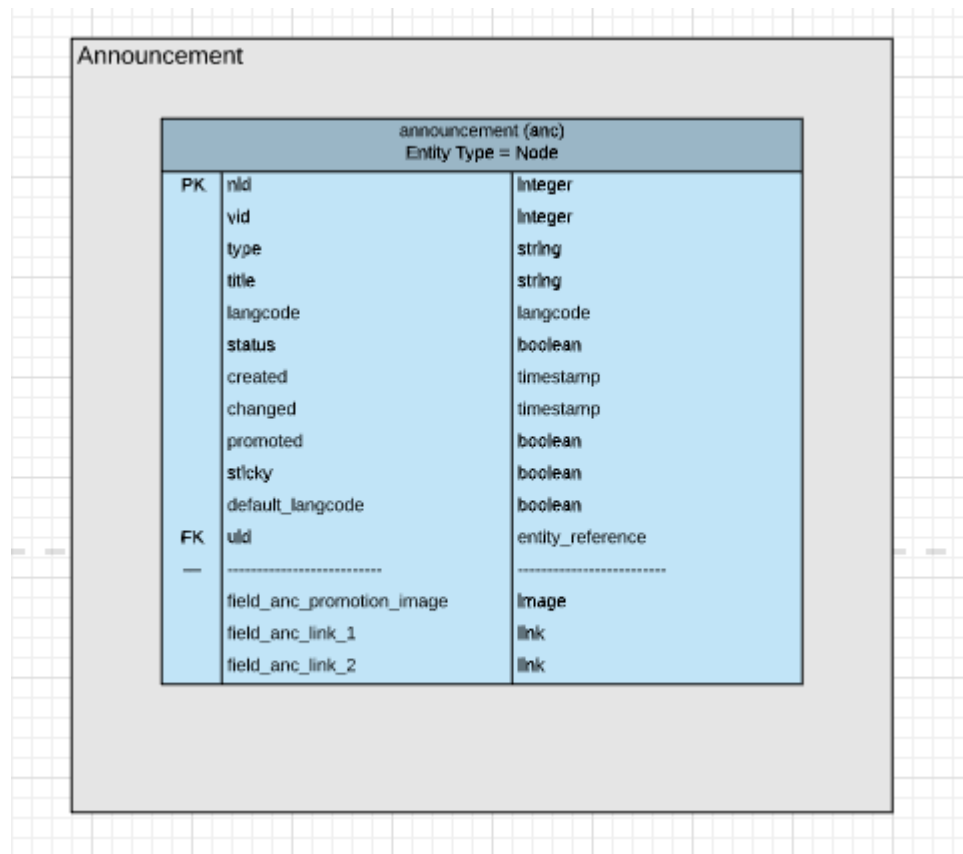
An announcements feature allows for one particular item to be highly promoted on the homepage in a generic way so that it can link to any other content or even to a third party website.

It should be expected that sites will not always have an announcement active, so the look and feel of the homepage needs to support suitable display both with and without an announcement.



### Key Requirements

- Allow content creators to publish a stand-out feature promotion on the homepage to promote particularly significant publications, news, events, projects, tools etc.



## Access Control

	Anonymous	Group Member	Content Creator	Site Manager
Announcement	R	R	CRUD	CRUD

C = Create, R = Read, U = Update, D = Delete

# Entity Relationships Diagram

Blue boxes identify additions to the existing EKAN schema. A full resolution version has been provided as an appendix.



# Data Migration Strategy

It is recommended that during an upgrade a data migration process should be performed to load legacy climate change portal data into a new EKAN based portal.

Such a migration task can be developed upon Drupal Core's migrate module, which allows for migration mappings to be defined in YAML format, and for additional transformation processing to be defined in the migrate flow where necessary.

During a migration the new Drupal 9 based EKAN installation will need access to the legacy database and filesystem.

A data mapping table has been attached as an appendix and forms the recommended rules for implementing the migration of existing climate change portal information to an EKAN based schema.

The data mapping table is based on a detailed field-level analysis of the Regional Pacific Climate Change Portal database, including the following considerations.

- How commonly a field has been used.
- When a new value was last populated into a field.
- How much effort is needed by users to populate a field.
- How much utility (e.g. for searching / filtering) can be gained by having a field value.

In many cases fields can be mapped to equivalent fields within EKAN. Particularly for news, events, projects and country profiles where EKAN does not have a pre-existing schema, the new schema is largely based on that of the climate change portals which helps to make migration simpler.

Where analysis found that fields have not been used, or have been under-utilised it is recommended that these values should not be migrated and that the fields should be omitted from the new data model in order to simplify the data schema and user experience when loading data.

Where the legacy schema had an excess of categorisation fields, many of these values are recommended to be migrated into the generic *tags* field. Thus the new interfaces can be simplified without those fields but existing data values can be maintained in some form to benefit searching.

EKAN categorisation relies largely on two fields.

- Topic - fixed term categorisation (currently eight high level topics).
- Tags - free text categorisation.

The climate change portals also use topic categorisation, however use a more complex hierarchy of approximately 175 categories. To simplify the process of loading content it is

recommended that a small number of high level topics is preserved, thus a topic term mapping document has also been provided so that the resources from the climate change portals can be allocated to topics within the Inform Data Portals.

A few additional topics for the Inform Data Portals are however also recommended.

- Atmosphere and Climate
- Biodiversity
- Built Environment
- Coastal and Marine
- Culture and heritage
- Inland Waters
- Land
- Nuclear Legacy
- **Natural Disasters <-- new topic**
- **Policy and Governance <-- new topic**
- **Education <-- new topic**

# Interface Wireframes

## Regional Portal Homepage

### Key Elements:

- Navigation categorised into few broad categories, which expand to a mega menu with room for more navigation items.
- Search form high on the page to lead users easily to search the database of resources and projects.
- Links to dashboards or stories on the key overarching themes around climate change. This makes it clear what the site is about and provides users with an easy entry into discovering the state of climate change activity in the Pacific region.
- Curated list of “Popular Resources” allowing the more significant resources, or those of relevance to the broadest audience, to be showcased. A curated list is preferred over simply the latest as it improves the likelihood of presenting to the user resources they will find useful.
- Counter of types of content, linking to pages listing those items. Provides users with a indication of how substantial the database of resources is and how much activity in the sector is occurring in the Pacific region.
- Related websites and support tools, as per existing regional portal, provides an opportunity to promote useful tools to those working in the sector.
- Featured news, events and projects are all listed together as “update” type content. If a site doesn’t use all three of these features then the block won’t look stale if there is content of the other types.
- Four columns drops down to two columns for mobile devices.

ABOUT LOGIN HELP SEARCH

**PCCP**  
PACIFIC CLIMATE CHANGE PORTAL

RESOURCE LIBRARY PROJECTS DATA NEWS

Search the Pacific Climate Change Portal

Or browse the climate change resource library

Clear terminology and imagery to make it clear to the user they have landed on the right site for climate change information

Emissions

Mitigation

Resilience

Country Profiles

Links to high level, updated summary information in the form of dashboards or stories

Announcements section allows for promotion of significant new publications or other news / events

**Newly released IPCC Report confirms grave risks in a warming world.**

Explore Online Download

**Popular Resources**

Pacific Islands Meteorological Strategy 2017-2026

Pacific Roadmap for Strengthened Climate Services 2017 - 2026

Climate Change Matters Newsletter, Issue 69, March-April 2021

RMI Green Climate Fund Handbook: Summary for National Stakeholders

A curated list of the most significant documents published on the portal

252 Projects

2,609 Resources

12 Dashboards

80 Funds

Each links to search results filtered by content type

**Related Websites & Support Tools**

Regional Technical Support Mechanism (RTSM)

Adaptation Project Tool (APT)

Climate Change Navigator (CCN)

Pacific Meteorological Data & Partnership

Featured external tools

**Featured Content**

PROJECT 10 July 2021  
Climate Information Services for Resilient Development Planning in Vanuatu (CIAS-VANUATU)  
View Project

EVENT 7 September 2021  
30th SPREP Meeting  
View Event

NEWS 10 July 2021  
Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report  
View News Item

PROJECT 10 July 2021  
CHREWS Pacific BDS Project  
View Project

Projects, even (upcoming only) and news are featured together. If content for one type is sparse the section doesn't need to look static. Can extend to 3 news if more feature items necessary

**SPREP** **USP** **giz** **Australian Aid** **Griffith**

**Latest Resources**

[COVID-19 Weekly Climate Bulletin](#), May 2022  
04 May 2022

[COVID-19 Weekly Climate Bulletin](#), April 2022  
07 Apr 2022

[User Guide for SPREP PCCP eLearning](#)  
09 Mar 2021

[Remove resources](#)

**Latest Projects**

[Expenditure Commitment and Operational Expenditure Commitment and Operational Climate Activities](#)  
Total Funding USD 194,345  
New Design Input for Programme on Climate Adaptation (2020-2024)  
Total Funding USD 1,252,433.81

[Climate and Ocean Support Programme in the Pacific Phase 2 \(COSPP-2\)](#)

**Dashboards / Stories**

[Emissions](#)

[Mitigation](#)

[Resilience](#)

[Country Profiles](#)

[Pacific Resilience Dashboard](#)

[Pacific Mitigation Dashboard](#)

[Pacific Adaptation Dashboard](#)

**Latest News**

[Pacific Resilience Community to develop on emerging technology and innovation with two-day virtual session](#)  
17-Aug-2022

[Newly released IPCC Report confirms grave risks in a warming world](#)  
11-Aug-2022

[Understanding Climate Change, what it is, and what we can do about it](#)  
10-Aug-2022

[More News](#)

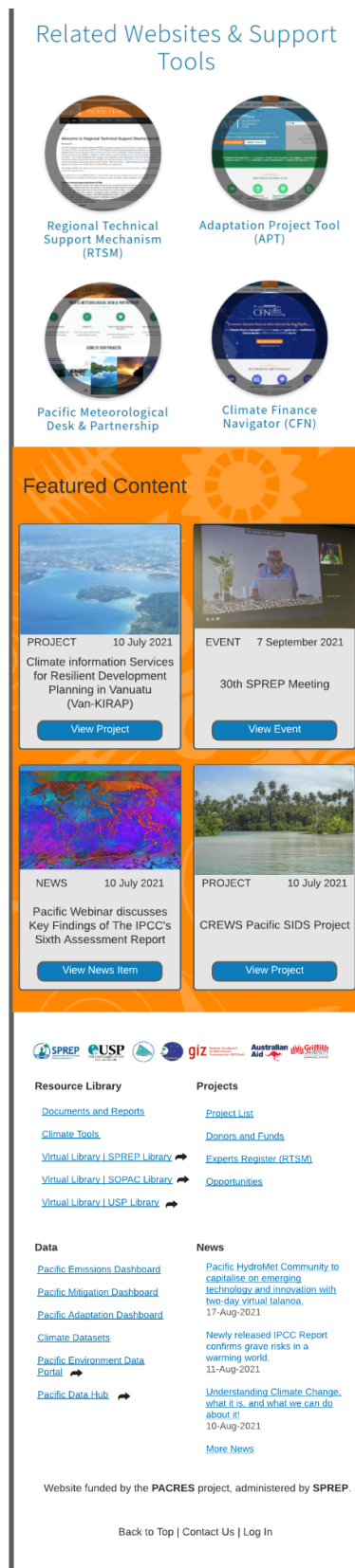
List latest content in the footer to help trigger search engines to index new content quickly

Website funded by the PACRES project, administered by SPREP.

Back to Top | Contact Us | Log In



## Megamenu navigation

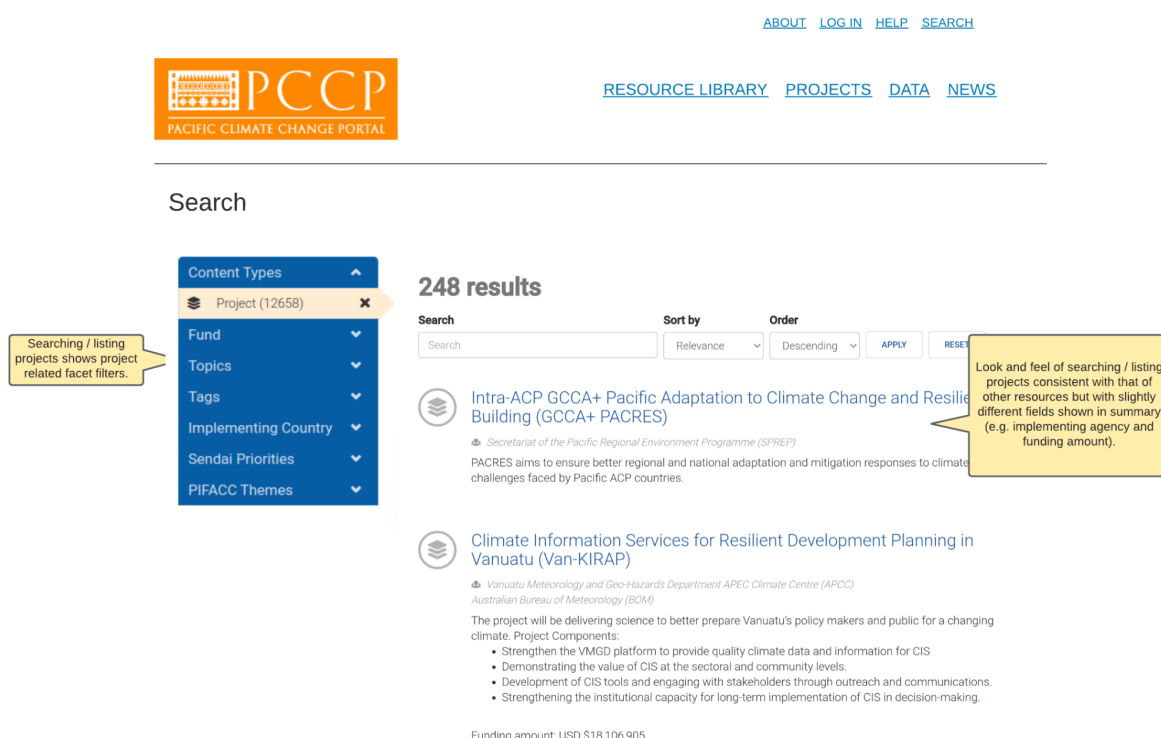


Mobile device 2-column layout

## Project browse / search

### Key Elements:

- Common structure to searching most types of content to keep user experience and application complexity simple.
- Faceted search with facet filters for fund, sendai priorities, pifacc themes, implementing country, tags and topics.



## News and events page

The most recent news items and any next upcoming events are to be listed within the *Featured Content* section of the homepage. It is expected that this and social media referrals will drive most visits to news and event content rather than the news and events page itself. Thus, navigation to this page is not heavily promoted.

### Key Elements:


- Combines news and events into one page because content of these types may be too sparse to populate a page each.
- Presented with images to be more visually appealing.
- Historical events are not listed, but the full archive of news items can be explored.



## News and Events

If you have an event or story relating to climate change in the Pacific that you would like to promote, please contact [billyct@sprep.org](mailto:billyct@sprep.org).


### Upcoming Events



EVENT 7 September 2021

30th SPREP Meeting


[View Event](#)



EVENT 7 September 2021

30th SPREP Meeting

[View Event](#)



EVENT 7 September 2021

30th SPREP Meeting

[View Event](#)

Events listed with the next upcoming item first.

Grid layout collapses to two columns for mobile devices.

News listed with the latest published item first.

Grid layout collapses to two columns for mobile devices.

### News



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



NEWS 10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)

[Load More](#)

Loads the next 8 news items onto the current page.


## Resources listing

### Key Elements:

- Browsing the resource library will use EKAN's faceted search interface pre-filtered by 'Resource Collection' (previously called 'Dataset' within EKAN / Inform).

- Searching with a filter on 'Resource Collection' will show any content structured within EKAN's underlying dataset+resource entities. This includes items previously categorised as documents and tools within the PCCP.
- Where resources have associated coveragepage visualisations, these can be shown within the search results.

[ABOUT](#) [LOG IN](#) [HELP](#) [SEARCH](#)



[RESOURCE LIBRARY](#) [PROJECTS](#) [DATA](#) [NEWS](#)

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### Search

Content Types

Resource Collection x

Resource Type

Report (663)

Article (435)

Educational Resource (325)

Brochure / Factsheet (322)

Policy / Plan / Strategy (307)

Presentation (175)

Book (173)

Tags

Format

Publisher

License

## 12658 results


**Sort by**  

Relevance ▾

**Order**  

Desc ▾

Resource type categorisation maintained from existing PCCP. Different icons needed.




#### Pacific Islands Meteorological Strategy 2017-2026

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...

[pdf](#)




#### Pacific Roadmap for Strengthened Climate Services 2017 - 2026

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...

[pdf](#)



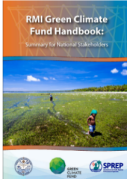
#### Climate Change Matters Newsletter, Issue 69. March-April 2021.

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...

[pdf](#)



#### RMI Green Climate Fund Handbook: Summary for National Stakeholders

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...

[pdf](#)

Where resources have a cover, show with the search results.

Faceted search display consistent with Inform data portals (EKAN), although slightly different facets.

## Viewing a resource collection

### Key Elements:

- The layout of the page when viewing a resource collection or individual resource will be based on the default EKAN dataset/resource views. A resource collection can hold multiple individual resources.
- EKAN's visualisation plugins can be used to incorporate browser-embedded viewing of PDF files, charts and coveragepage visualisations.

EIGHTY OPTIONS

26/59

[www.eightyoptions.com.au](http://www.eightyoptions.com.au)

[Home](#) / Pacific Climate Finance

01 JULY 2015

## Pacific Climate Finance

Resource and metadata view layout consistent with Inform data portals (EKAN).



SPREP Climate Change Resilience  
(CCR)

### License

Public

[OPEN DATA](#)

### Other Access

The information on this page  
(the dataset metadata) is also  
available in these formats.

[JSON](#) [RDF](#)

via the [DKAN API](#)

Atmosphere and Climate

End of Internship presentation on Pacific Climate Finance. Section are: climate finance challenges, overview of climate finance in the Pacific, and next steps.



### Pacific Climate Finance presentation

End of SPREP internship presentation, July 2015. Sections: climate finance...

[DOWNLOAD](#)

[climate](#) [climate change finance](#) [climate change](#) [climate change adaptation](#)

Field	Value
Publisher	SPREP Climate Change Resilience (CCR)
Modified	2019-09-23
Release Date	2015-07-01
Identifier	c276190e-624b-4968-8773-fc8a5ab2bb27
Spatial / Geographical Coverage Location	Pacific
License	Public
Author	Marguerite Harden
Contact Name	Espen Ronneberg
Contact Email	<a href="mailto:espenr@sprep.org">espenr@sprep.org</a>

Website funded by the **PACRES** project, administered by **SPREP**.

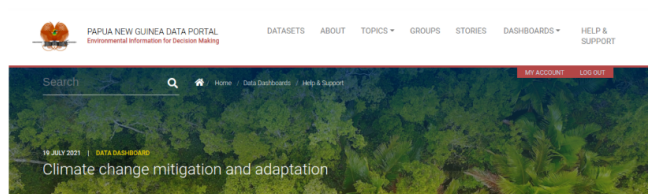
[Back to Top](#) | [Contact Us](#) | [Log In](#)

## Climate focussed landing page

Where a member chooses to merge a national climate change portal into an existing Inform data portal, they may wish to implement a climate focussed landing page separate to the main website homepage. This can be achieved using an EKAN Dashboard.

### Key Elements:

- The climate change landing page should clearly convey its purpose, being central point of reference for climate change resources relating to that country.
- Provide users with accessible, curated information conveying the state of climate change activity.
- Dynamically list resources related to climate change based on categorisation criteria.



Clear terminology and imagery to make it clear to the user they have landed on the right site for climate change information.



Emissions



Mitigation



Resilience



Country Profiles

Links to high level, curated summary information in the form of dashboards or stories.

Featured climate related news item, or intro text.



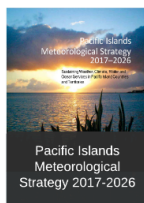
**Climate Change and Development Authority (CCDA) is a new government entity that is now undergoing transition from the former Office of Climate Change and Development (OCCD).**  
July 2021

CCDA coordinates the Climate Change efforts of the Government of Papua New Guinea, a continuation of basically where the former OCCD left off. It is the coordinating entity for all climate change related policies and actions in the country. Additionally, it is the designated National Authority under the United Nations Framework Convention on Climate Change (UNFCCC). The office is currently undergoing a transitional phase which requires a major re-structure, in a coordinated and structured manner, complying with its own Climate Change Management Act (CCMA) 2015.

[Read More](#)



## Popular Climate Change Resources



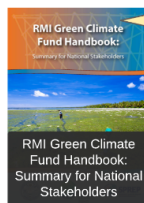
Pacific Islands Meteorological Strategy 2017-2026



Pacific Roadmap for Strengthened Climate Services 2017 - 2026



Climate Change Matters Newsletter, Issue 69, March-April 2021.



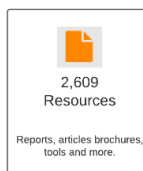
RMI Green Climate Fund Handbook: Summary for National Stakeholders

A curated list of the more significant resources published on the portal that relate to climate change.



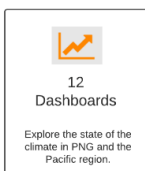
25 Projects

Current and past projects that focus on climate change activities.



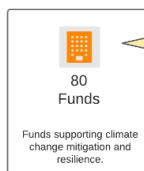
2,609 Resources

Reports, articles brochures, tools and more.



12 Dashboards

Explore the state of the climate in PNG and the Pacific region.



80 Funds

Funds supporting climate change mitigation and resilience.

Each links to search results filtered by content type AND climate change.

## Project Updates



PROJECT 10 July 2021  
Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

[View Project](#)



PROJECT 10 July 2021  
CREWS Pacific SIDS Project

[View Project](#)



PROJECT 10 July 2021  
Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

[View Project](#)



PROJECT 10 July 2021  
CREWS Pacific SIDS Project

[View Project](#)

Latest four updated projects relating to climate change.



Logos on Inform portal may need update if climate change portal is merged.

# Accessibility (i.e. WCAG compliance) guidelines and testing plan

Accessibility is the term which refers to the accessibility of any software system to people without or with physical disability or impairments. Such impairments include the following:

- Visual Impairments – Color blindness, low vision, complete or partial blindness etc
- Hearing Disabilities - Hyperacusis, Deafness etc
- Learning Disabilities – Dyslexia
- Cognitive Impairments – Autism or any kind of head injury
- Deftness, paralysis, cerebral palsy etc

Web Content Accessibility Guidelines (WCAG) 2.1 defines how to make Web content more accessible to people with disabilities. Accessibility involves a wide range of disabilities, including visual, auditory, physical, speech, cognitive, language, learning, and neurological disabilities. Although these guidelines cover a wide range of issues, they are not able to address the needs of people with all types, degrees, and combinations of disability. These guidelines also make Web content more usable by older individuals with changing abilities due to aging and often improve usability for users in general.

## Why create accessible content?

Creating accessible content is not hard once you know how; and it actually can be less work.

Accessible content is easier for everyone. A clean, simple and logically structured document helps everyone scan and read to get the information they need more easily.

Good accessibility is more to do with structure than appearance.

People come to web pages to get information as quickly and easily as possible. They are less consciously concerned with the look of the content, than being able to skim through it to find what they want.

Thinking about users' motivations and needs is the key to developing good content. Accessibility is more than a technical requirement. Understanding the principles and empathising with people, are the best techniques to use for creating good content.

## How do the accessibility guidelines help?

In some jurisdictions (e.g. Australia's Disability Discrimination Act - 1992) it is considered discrimination to not cater for the needs of people with disabilities, which is particularly important for Government services.

The web content accessibility guidelines are a set of standards to help web site developers and authors cater for the needs of all users without having to test everything they do with every kind of user.

## Abilities needed to use the web

- Being able to sense the content
- Navigating and interpreting the content
- Being able to control the content

## Some challenges people have

Most people see pictures, video and read effortlessly. For others there are many factors that can inhibit their abilities. Anyone can have their abilities temporarily affected by injuries or other circumstances. Faulty equipment is common and can also affect how you connect, see and interact with a web site.

- Visual impairment comes in many degrees and is not just about blindness and screen readers, so the text size and spacing around it need to be clear and consistent. Network interruptions and faulty screens can affect anyone.
  - Alternative ('Alt') text on images lets people who can't see an image understand what it means.
- People who use screen-readers navigate quite differently within pages compared to visual users.
  - They list and jump between headings, down into subheadings –so the heading structure of a document needs to be meaningful.
  - It is common for them to view a list of all links on a page – so each link's text needs to describe what content someone will get by following it.
  - The page is converted to a linear flow of content, so tables are rarely accessible and should really only be used for tables of data. This also applies for calendar view for events, a list of events is more accessible than an entire month's calendar.

- There are numerous kinds of cognitive impairment that can affect people, from intoxication or migraines to dyslexia, ADHD and brain injuries. Some people in these categories can be negatively affected by too much tonal contrast in the site text.
- People who can't hear clearly deserve to be able to understand the content of video or audio if it is more than decorative.
- Many people have difficulty precisely controlling mice and other input devices. Being able to navigate the site using only a keyboard is important.
- Some users (and some search engine spiders) can only read text content, while others rely on having text content converted into other mediums like braille readers or speech synthesis.

## Being inclusive

- Catering for the accessibility-outliers when creating content will usually end up creating good content for those in-between too.
- Ensure all media is described (or transcribed)
- Ensure attached documents are also accessible, or provide them as web pages too.
- Ensure that users can change the text size of the page and that the web page layout still works under those conditions.
- Avoid tables unless you are showing a table of data.
- Use appropriate language, considering where the audience might not be reading their native language or may have different literacy levels.
- Content should be separate from the style in which it is presented. The main message should be clear without relying on layouts, colours or visual formatting which aren't necessarily available to all users.
- Think about what sort of devices the audience will be using and cater to that.
- Ensure that websites work not only on common browsers, but also standard and low-end hardware. This is particularly relevant where using modern javascript libraries with heavy client-side processing.
- Ensure that websites are not bandwidth heavy, so that users on slower internet connections can still access the content, a particular concern in the Pacific region that has varying levels of bandwidth.

## How do accessibility checking tools help?

Automated tools are an important part of the process and can highlight many things that may have been overlooked by even the most careful developers and content editors.

- WAVE web accessibility checking tool (browser extension)
- Tota11y (<https://khan.github.io/tota11y/>)
- W3C Markup validation service (<http://validator.w3.org/>)
- WebAIM contrast checker (<https://webaim.org/resources/contrastchecker/>)
- Google lighthouse (<https://developers.google.com/web/tools/lighthouse>)

## How do accessibility checking tools hurt?

Automated tools can never assure good accessibility in a meaningful way because they cannot understand the content, or whether how it is formatted matches the author's intention.

Automated tools can never know:

- Is the writing style clear and targeted to the reading abilities of the audience.
- If the heading structure reflects the intended structure of the document.
- Whether alternative text for an image describes the important parts of its content well.
- Whether visible link text accurately reflects what benefit there is for a user to click it.

And they are not very good at:

- Checking colour contrast between content and background, as it is hard to know what is behind what at all screen sizes from the code alone.

## Recommended Accessibility Improvements for the PCCP

- Implement a navigation menu that can be traversed without a mouse.
- Hide / remove empty page sections (e.g. Upcoming events)
- Ensure all hyperlinks are described for screen readers. E.g. links with the text 'Read More' lack context for screen readers, which can be addressed by adding aria-label values.
- Ensure pages maintain a logical heading structure that screen readers can use as a table of contents for the page. e.g. include only one h1 tag on the page, and any subheading of an h2 tag should be a h3 tag.
- Keep the homepage clean with a focus on thematic areas, announcements, resources, and featured content. Not text heavy but visually attention grabbing.
- Reduce the number of top level menu items by having fewer high level categories and a hierarchy.
- Resource search page and Project search page can display facets and filters to improve results.
- Events should be a linear display rather than a traditional month-view calendar page which is challenging to navigate and challenging to present on small screens.
- Restrict full-html access in WYSIWYG editors and provide few formatting options to keep markup simple and presentation consistent.
- Ensure WYSIWYG editors make alt-text on images mandatory.
- Style hyperlinks in a way that it is visually intuitive that they are links.
- Ensure sufficient contrast is maintained between text and background on all page elements.

## Testing for accessibility

- Being able to navigate the content using keyboard only is a great start, and usually assistive technologies will be workable if that is adequate.
  - Take the #nomouse challenge
- Does the site work in Windows high-contrast mode? (or Chrome browser High Contrast add-on)
- Does the site work at large font sizes?
- Does the site work on small screens and touch devices?
- Can you use the site in a screenreader software? (NVDA is free for Windows, Mac has Voiceover)
- Does the site pass automated markup validation? e.g. W3C Markup validation service.
- Does the site pass automated contrast checking? e.g. WebAIM Contrast checker.
- Does the site work on all modern browsers? Browserstack service can help with cross browser testing.

## More reading

- Is the content Perceivable, Operable, Understandable and Robust? See <https://www.w3.org/WAI/WCAG21/Understanding/intro#understanding-the-four-principles-of-accessibility>.

## Other development recommendations

### Theme structure

Existing Inform-EKAN portal implementations share common parent themes as per the following hierarchy.

- Radix (Contrib theme. Responsive, includes bootstrap)
  - Ekan\_theme (Provided by EKAN distribution)
    - Inform\_base (common parent to all inform portals)
      - Inform\_regional
      - Inform\_png
      - Inform\_cookislands
      - Etc

Any new portals that wish to follow the general look and feel of the Inform portals should implement a theme that inherits from Inform\_base.

Any new portals that wish to implement a more independent look and feel (e.g. PCCP) should implement a theme that inherits from Ekan\_theme.

These recommendations should allow sufficient customisations to be made while also benefiting from many common layout and styling rules, thus reducing development and maintenance effort compared to implementing a whole new theme from scratch.

## Handling site-specific features / customisations

SPREP is already responsible for maintaining 15+ EKAN based data portals.

Obviously, maintenance effort can be reduced wherever these sites can be configured in a consistent way. This maintenance effort should be considered wherever implementing new EKAN based portals.

Currently, exported configuration is consistent across all portals and site-specific customisations are configured only in the settings.local.php file.

## Careful selection of Drupal contrib modules

As cyber security threats and attacks have increased, the amount of maintenance effort required to keep a Drupal site up to date with security patches has also magnified.

Sites with large numbers of contrib modules are likely to require security updates more often and a larger codebase may have a larger security risk.

- Avoid using unsupported contrib modules.
- Avoid using contrib modules if the amount of custom code needed to implement the necessary feature is significantly less than that of the contrib module. E.g. where you only need a small part of the contrib module functionality.
- Use composer to manage contrib modules and dependencies.

## Coding standards

To help other developers, use sufficient comments within custom code and ensure that all custom code follows the Drupal coding standards. Checks for this can be incorporated into automated test coverage.

Follow a consistent theme structure to existing EKAN themes, including using scss for stylesheets. The SMACCS guidelines provide a good basis for structuring layouts and styles.

## Test coverage

Writing automated test coverage is a great way to improve software stability and avoid bug regression.

However, it is generally not feasible to write automated test coverage for every single software feature.

Implement automated functional test coverage for at least:

- Access control rules.
- The most common content loading tasks.

## Documentation

To assist with new staff onboarding processes, the following software documentation should be maintained:

Baseline documentation detailing the business rules around how key software features \*should\* work, updated when changes are made.

- Details on how to setup local development environments.
- Details on how hosting infrastructure is configured and how to deploy new sites.
- Details on integration (e.g. harvest synchronisation) rules and configuration.

## Appendix 1: High Resolution ER Diagram



## Appendix 2: Data Migration Field Mapping

Drupal 7 PCCP Data Fields (Source)			Transformation Action / Notes		Drupal 9 PCCP Data Fields (Target)		
Entity Type	Bundle	Field Name			Entity Type	Bundle	Field Name
Node	announcement		DELETE - under utilised	-			
	announcement	field_the_description	DELETE - under utilised	-			
	announcement	field_file	DELETE - under utilised	-			
	announcement	field_related_links_entity	DELETE - under utilised	-			
	page						
	page	title		node	page		title
	page	body		node	page		body
	contact		Move away from re-use of contact entities. Store contact details as a custom field on projects				
	contact	field_first_name	Migrate to combined contact text field on project stakeholder.	node		project	prj_oth_stakeholders.contact_details
	contact	field_last_name	Migrate to combined contact text field on project stakeholder.	node		project	prj_oth_stakeholders.contact_details

	contact	field_title_prefix	Migrate to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_email	Migrate to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_city	Migrate to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_department	Migrate to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_phone	Migrate to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_gender	DELETE - under utilised		-		
	contact	field_other_information	DELETE - unused		-		
	contact	field_organisation_entity	Migrate organisation label to combined contact text field on project stakeholder.		node	project	prj_oth_stakeholders.contact_details
	contact	field_related_links_entity	DELETE - under utilised		-		
	contact	field_position	Migrate to property of custom		node	project	prj_oth_stakeholders.contact_details

			contact field type.				
	contact	field_image_file	DELETE - under utilised		-		
	contact	field_contact_type	DELETE - low value		-		
	contact	field_country_text	Migrate to property of custom contact field type.		node	project	prj_oth_stakeholders.contact_details
	contact	field_voip	DELETE - unused		-		
	contact	field_mobile_phone			node	project	prj_oth_stakeholders.contact_details
	contact	field_related_projects_entity	Reverse relationship		node	project	prj_oth_stakeholders
	contact	field_related_organisation	DELETE - only used 4 times and 2 times it duplicates field_organisation_entity		-		
	contact	field_related_content_entity	DELETE - unused		-		
	contact	field_tags	DELETE - under utilised		-		
	country						
	country	title			taxonomy_term	country	country name
	country	field_iso_code			taxonomy_term	country	country_iso_code
	country	field_population	DELETE - unused		-		
	country	field_languages	DELETE - unused		-		
	country	field_flag_image			taxonomy_term	country	country_flag_image
	country	field_map_image	Only usage is no longer published - DELETE.		-		

	country	field_country_focal_points			node	country_profile	ctp_focal_points
	country	field_country_overview			node	country_profile	ctp_overview
	country	field_country_climate_information			node	country_profile	ctp_climate_information
	country	field_country_governance			node	country_profile	ctp_governance
	country	field_country_national_priorities			node	country_profile	ctp_national_priorities
	country	field_country_adaptation			node	country_profile	ctp_adaptation
	country	field_country_mitigation			node	country_profile	ctp_mitigation
	country	field_country_education			node	country_profile	ctp_education
	country	field_country_key_national_policies			node	country_profile	ctp_key_national_policies
	country	field_country_partnerships			node	country_profile	ctp_partnerships
	country	field_country_ongoing_challenges			node	country_profile	ctp_ongoing_challenges
	country	field_country_references			node	country_profile	ctp_references
	country	field_key_policy_documents	Move to file field directly on node rather than entity_reference.		node	country_profile	ctp_key_policy_documents
	country	field_related_projects_entity	Reverse relationship.		node	project	prj_implementing_countries

	country	field_related_documents_entity	Reverse relationship.		dataset	dataset	spatial_geographical_cover
	country	field_related_links_entity	Move into link field directly on node rather than entity_reference.		node	country_profile	country_related_links
	country	field_related_content_entity	DELETE - unused		-		
	country	field_related_events	DELETE - underutilised		-		
	country	field_related_news	DELETE - unused		-		
	document						
	document	title			dataset	dataset	title
	document	field_the_description	Change field to field_description		dataset	dataset	body
	document	field_publication_year	Merge with field_publication_month_year where available.		dataset	dataset	release_date
	document	field_author			dataset	dataset	author
	document	field_corporate_author	Merge with field_author		dataset	dataset	author
	document	field_publisher			dataset	dataset	publisher
	document	field_language			dataset	dataset	language
	document	field_resource_type			resource	resource	resource_type
	document	field_focus_areas	Create new term on migration if term with same name doesn't already exist.		dataset	dataset	tags

	document	field_topics	All topics to be migrated as tags. See topic term mapping for population of topics.		dataset	dataset	topics, tags
	document	field_tags			dataset	dataset	tags
	document	field_country			dataset	dataset	spatial_geographical_cover
	document	field_related_corporations	Merge with body description beneath 'Attribution' subheading.		dataset	dataset	body
	document	field_related_name_s_	Merge with body description beneath 'Attribution' subheading.		dataset	dataset	body
	document	field_related_links_entity	Move into field_links directly on node rather than entity_reference.		dataset	dataset	body
	document	field_related_projects_entity			dataset	dataset	related_project
	document	field_document_files			resource	resource	upload
	document	field_document_link			resource	resource	link_remote_file
	document	field_cover_image			resource	resource	Cover image visualisation
	document	field_rights_statement			dataset	dataset	rights
	document	field_attribution_statement	Merge with body description beneath 'Attribution' subheading.		dataset	dataset	body

	document	field_variant_title	DELETE - under utilised		-		
	document	field_edition			dataset	dataset	additional_info
	document	field_isbn			dataset	dataset	additional_info
	document	field_issn			dataset	dataset	additional_info
	document	field_series	DELETE - under utilised		-		
	document	field_physical_description	Note: all values in PCCP appear to be number of pages.		dataset	dataset	additional_info
	document	field_general_note	Merge with body description		dataset	dataset	body
	document	field_bibliography_note	DELETE - under utilised		-		
	document	field_place_of_publication			dataset	dataset	additional_info
	document	field_publication_day_month	Merge with field_publication_year where available.		dataset	dataset	release_date
	document	field_event	DELETE - unused		-		
	document	field_cataloging_source	DELETE - under utilised		-		
	document	field_source_of_acquisition	DELETE - unused		-		
	document	field_verified_pccp	Unsure of purpose. Possibly DELETE (?)		-		
	document	field_educational_resource_type			dataset	dataset	additional_info
	document	field_utilised_in			dataset	dataset	additional_info
	document	field_climate_change_topic			dataset	dataset	tags

	document	field_drm_topic			dataset	dataset	tags
	document	field_subject_st rand	Migrate to field_tags		dataset	dataset	tags
	document	field_tvet_traini ng_area_focus	Migrate to field_tags		dataset	dataset	tags
	document	field_regional_f ocus			dataset	dataset	spatial_geogra phical_cover
	document	field_financed_ supported_by	Merge with body description beneath 'Finance Supported By' subheading.		dataset	dataset	body
	document	field_joomla_id	DELETE - no longer needed?		-		
	document	field_joomla_hit s	DELETE - no longer needed?		-		
	donor						
	donor	title			node	fund	title
	donor	field_related_or ganisation			node	fund	fnd_organisatio n
	donor	field_aid_type			node	fund	fnd_aid_type
	donor	field_objectives			node	fund	fnd_objectives
	donor	field_fund_statu s			node	fund	fnd_status
	donor	field_website			node	fund	fnd_website
	donor	field_logo			node	fund	fnd_logo
	donor	field_country_fo cus			node	fund	fnd_country_fo cus
	donor	field_applicatio n_procedure			node	fund	fnd_application _procedure
	donor	field_contact_d etails			node	fund	fnd_contact_de tails
	donor	field_pccp_sect oral_focus			node	fund	fnd_pccp_sect oral_focus
	donor	field_related_pr ojects_entity	Reverse relationship		node	project	prj_fund.fund

	donor	field_global_funding_allocation			node	fund	fnd_global_funding_alloc
	donor	field_global_funding_usd			node	fund	fnd_global_funding_usd
	donor	field_cofinancing			node	fund	fnd_cofinancing_req
	donor	field_financing_modality	Change to text_list rather than term_reference		node	fund	fnd_financing_modality
	donor	field_related_funds	DELETE - under utilised.	-			
	donor	field_country	DELETE - low value.	-			
	donor	field_related_documents_entity	Migrate to file field directly on fund node.		node	fund	fnd_related_documents
	event						
	event	title			node	event	title
	event	field_start_date			node	event	evt_start_date
	event	field_end_date			node	event	evt_end_date
	event	field_event_type			node	event	evt_type
	event	field_the_description			node	event	evt_description
	event	field_location_text	Merge location_text_, event_location and venue into single field.		node	event	evt_location
	event	field_event_location	Merge location_text_, event_location and venue into single field.		node	event	evt_location
	event	field_tags			node	event	evt_tags
	event	field_venue	Merge location_text_, event_location and venue		node	event	evt_location

			into single field.				
	event	field_organisation_entity	DELETE - under utilised.		-		
	event	field_country			node	event	evt_related_country
	event	field_related_documents_entity	DELETE - under utilised.		-		
	event	field_related_links_entity	Move into link field directly on node rather than entity_reference.		node	event	evt_links
	event	field_related_project	DELETE - unused		-		
	fund		DELETE - entity unused		-		
		body	DELETE - entity unused		-		
	node_gallery		DELETE - (1 entity exists, which was used for a homepage slideshow but is now deprecated)		-		
		body	DELETE - (1 entity exists, which was used for a homepage slideshow but is now deprecated)		-		
		field_related_documents_entity	DELETE - (1 entity exists, which was used for a homepage slideshow but is now deprecated)		-		

		field_related_projects_entity	DELETE - (1 entity exists, which was used for a homepage slideshow but is now deprecated)	-			
		field_country	DELETE - unused	-			
		field_organisation_entity	DELETE - (1 entity exists, which was used for a homepage slideshow but is now deprecated)	-			
		field_related_news	DELETE - unused	-			
	node_gallery_item		DELETE - previously used for homepage gallery but now deprecated.	-			
		node_gallery_media	DELETE - previously used for homepage gallery but now deprecated.	-			
		node_gallery_ref_1	DELETE - unused	-			
	image		DELETE - feature no longer used	-			
		field_file	DELETE - feature no longer used	-			
		field_the_description	DELETE - feature no longer used	-			

		field_related_content	DELETE - feature no longer used		-		
		field_related_to_pics	DELETE - feature no longer used		-		
		field_image_tags	DELETE - feature no longer used		-		
	image_gallery		DELETE - feature no longer used		-		
		field_gallery_images	DELETE - feature no longer used		-		
	link		Data migrated with referencing entities.		-		
	link	title			-		
	link	field_url			-		
	link	field_description			-		
	link	field_related_content_entity	Almost all instances reference a project. Reverse relationship and move to field_links on project entity.		-		
	news						
	news	title			node	news	title
	news	field_text			node	news	nws_description
	news	field_archived			node	news	status
	news	field_expiry_date	DELETE - feature not used.		-		
	news	field_file_description	DELETE - unused		-		
	news	field_file_s_			node	news	nws_attachment

	news	field_tags			node	news	nws_tags
	news	field_country			node	news	nws_related_country
	news	field_related_links_entity	Move into links field directly on node rather than entity_reference.		node	news	nws_links
	news	field_related_projects_entity	DELETE - under utilised		-		
	news	field_related_documents_entity	DELETE - under utilised		-		
	news	field_hits	DELETE - Use external analytics service.		-		
	organisation						
	organisation	title	Migrate with projects and funds based on those relationships.		node	project, fund	prj_oth_stakeholders.organisation_name, fnd_organisation_name
	organisation	field_acronym	DELETE - low value.		-		
	organisation	field_the_description	DELETE - low value.		-		
	organisation	field_image	DELETE - low value.		-		
	organisation	field_organisation_type	DELETE - low value.		-		
	organisation	field_partner_category	DELETE - low value.		-		
	organisation	field_donor_type	DELETE - low value.		-		
	organisation	field_related_funds	Reverse relationship		node	fund	fnd_organisation_name
	organisation	field_related_links_entity	DELETE - low value.		-		
	organisation	field_tags	DELETE - low value.		-		
	organisation	field_country	DELETE - low value.		-		

	organisation	field_related_projects_entity	Reverse relationship		node	project	prj_oth_stakeholders.organisation_name
	organisation	field_related_documents_entity	DELETE - unused		-		
	organisation	field_related_news	DELETE - unused		-		
	organisation	field_related_events	DELETE - under utilised		-		
	product						
	product	title			node	project	title
	product	field_short_title			node	project	prj_short_title
	product	field_the_description			node	project	prj_description
	product	field_project_scope	Change to text_list field directly on node rather than term reference.		node	project	prj_scope
	product	field_project_type			node	project	prj_type
	product	field_project_status	Change to text_list field directly on node rather than term reference.		node	project	prj_status
	product	field_start_date			node	project	prj_start_date
	product	field_end_date			node	project	prj_end_date
	product	field_duration	DELETE - low value if data also has start/end dates.		-		
	product	field_focus_area			node	project	prj_focus_area
	product	field_topics	All topics to be migrated as tags. See topic term mapping for population of topics		node	project	prj_topics, prj_tags

	product	field_tags			node	project	prj_tags
	product	field_sendai_framework_drr_prior			node	project	prj_sendai_priorities
	product	field_pifacc_the_mes			node	project	prj_pifacc_the_mes
	product	field_implementing_agency	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_implementing_agency_contact	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_organisation_entity	DELETE - under utilised		-		
	product	field_contact_s_	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_development_partner	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_project_contact	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_project_donor_fc	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_donor_contacts	Move to custom stakeholder field		node	project	prj_stakeholder
	product	field_project_total_funding			node	project	prj_total_funding
	product	field_amount_donor_currency	Existing values suggest there has been confusion whether this should hold		node	project	prj_total_funding_currency

			the amount in the donors currency, or the currency that project_total_funding is specified in.				
	product	field_implementing_countries			node	project	prj_implementing_countries
	product	field_related_documents_entity	Reverse relationship		dataset	dataset	related_project
	product	field_related_projects_entity	DELETE - under utilised		-		
	product	field_related_links_entity	Move into links field directly on node rather than entity_reference.		node	project	prj_related_links
	product	field_national_framework	DELETE - unused		-		
	product	field_objectives			node	project	prj_objectives
	product	field_actions			node	project	prj_actions
	product	field_activities			node	project	prj_activites
	product	field_outputs			node	project	prj_outputs
	product	field_project_outcomes			node	project	prj_outcomes
	product	field_project_comments	DELETE - under utilised				
	product	field_verified_pccp	DELETE - no longer needed ?				
	product	field_old_drupal_id	DELETE - no longer needed ?		-		
	product	field_imported_project	DELETE - no longer needed ?				
	product	field_project_sites_3			node	project	prj_sites_geo
	sub_site		DELETE - under utilised		-		

		field_banner	DELETE - under utilised		-		
		field_elements	DELETE - under utilised		-		
	sub_site_elements		DELETE - under utilised		-		
		field_element_type	DELETE - under utilised		-		
		field_contents	DELETE - under utilised		-		
		field_file_element	DELETE - under utilised		-		
	tools						
	tools	title			dataset	dataset title	
	tools	field_the_description			dataset	dataset body	
	tools	field_tool_url	Change to field directly on node rather than entity_reference.		resource	resource link_remote_file	
	tools	field_tool_type			dataset	dataset tags	
	tools	field_topics	All topics to be migrated as tags, see topic term mapping for population of topics.		dataset	dataset topics, tags	
	tools	field_approach	DELETE - unused		-		
	tools	field_tags			dataset	dataset tags	
taxonomy_term							
	document_resource_types						

	document_re source_types	name			taxonomy_term	resource_type	name
	sendai_frame work_drr_pri orities						
	sendai_frame work_drr_pri orities	name			taxonomy_term	sendai _priorit ies	name
	pifacc_theme s						
	pifacc_theme s	name			taxonomy_term	pifacc _them es	name
user							
	user						
	user	username			user	user	username
	user	email			user	user	email
	user	password			user	user	password
	user	roles			user	user	See role mapping
	PCCP Roles	authenticated user			authenticated user		
		SPREP Administrator			Site Manager		
		SPREP Editor			Member of SPREP Group		
		National Editor			Case by case membership of group for entity the user represents.		
		Regional Editor			Case by case membership of group for entity		

				the user represents.		
	CCPS Roles	authenticated user		authenticated user		
		Content Administrator		Site Manager		
		Project Contributor	(separate role for managing projects not recommended for simplicity)	Case by case membership of group for entity the user represents.		

## Appendix 3: Data Migration Topic Mapping

CCP Topic	CCP Sub-Topic	->	Inform Portal Topic	
* All			Atmosphere and Climate	
Agriculture, Forestry and Fishing				
	Agriculture		Land	
	Aquaculture		Inland Waters, Coastal and Marine	
	Crops		Land	
	Deforestation		Land	
	Fisheries		Coastal and Marine	
	Food Security		Land	
	Foetry		Land	
	Livestock		Land	
	Pests		Biodiversity	
	REDD / REDD +		Land	
Culture and Traditional Knowledge	*		Culture and Heritage	
Disaster Risk Management			Natural Disasters	* New topic to add to the inform portals.
Economics and Finance			Policy and Governance	* New topic to add to the inform portals.
Education and Training	*		Education	* New topic to add to the inform

				portals.
Employment	*		Policy and Governance	* New topic to add to the inform portals.
Energy	*		Built Environment	
Government, law and administration	*		Policy and Governance	* New topic to add to the inform portals.
Health	*		Culture and Heritage	
Human Settlements	*		Culture and Heritage	
Industry	*		Build Environment	
Information Technology and Information Management	*		Policy and Governance	* New topic to add to the inform portals.
Meteorology and Weather			Atmosphere and Climate	
Natural Resources and the Environment				
	Air quality		Atmosphere and Climate	
	Biodiversity		Biodiversity	
	Coastal zone		Coastal and Marine	
	Conservation		Biodiversity	
	Ecology and ecosystems		Biodiversity	
	Habitat restoration		Biodiversity	
	Inland waters		Inland Waters	
	Landforms and cartography		Land	
	Oceans		Coastal and Marine	
	Reefs		Coastal and Marine	

	Soils		Land	
	Vegetation		Land	
	Wildlife		Biodiversity	
Population and Demographics	*		Culture and Heritage	
Security and Conflict	*		Policy and Governance	* New topic to add to the inform portals.
Social Development	*		Culture and Heritage	
Technology	*		Policy and Governance	* New topic to add to the inform portals.
Water				
	Water quality		Inland Waters	
	Water rights		Policy and Governance	* New topic to add to the inform portals.
	Water security		Built Environment	
	Water storage		Built Environment	
	Water supply		Built Environment	
	Water treatment		Built Environment	

## Appendix 4: High Resolution Wireframe Mockups



Broad categories, expands mega menu.

Search the Pacific Climate Change Portal



[Or browse the climate change resource library](#)

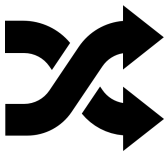
Clear terminology and imagery to make it clear to the user they have landed on the right site for climate change information.



Emissions



Mitigation



Resilience



Country Profiles

Links to high level, curated summary information in the form of dashboards or stories.



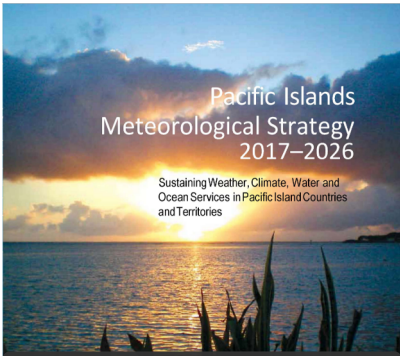
## Newly released IPCC Report confirms grave risks in a warming world.

[Explore Online](#)

[Download](#)

Announcements section allows for promotion of significant new publications or other news / events.

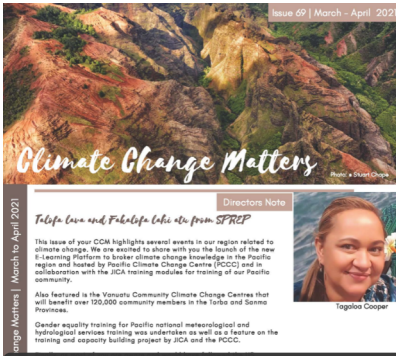
## Popular Resources



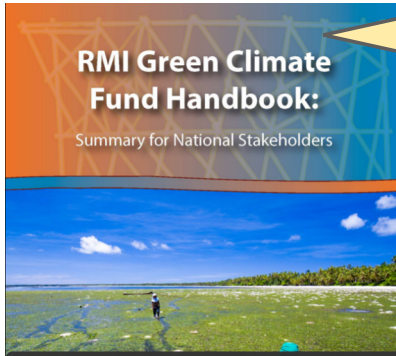
Pacific Islands Meteorological Strategy 2017-2026

Pacific Roadmap for Strengthened Climate Services 2017 – 2026

Pacific Roadmap for Strengthened Climate Services 2017 - 2026



Climate Change Matters Newsletter. Issue 69. March-April 2021.



RMI Green Climate Fund Handbook: Summary for National Stakeholders

A curated list of the more significant documents published on the portal.



252 Projects

Current and past projects that focus on climate change activities in the Pacific.



2,609 Resources

Reports, articles brochures, tools and more.



12 Dashboards

Explore the state of the climate in the Pacific region.



80 Funds

Funds supporting climate change mitigation and resilience.

Each links to search results filtered by content type.

## Related Websites & Support Tools



Regional Technical Support Mechanism (RTSM)



Adaptation Project Tool (APT)



Climate Finance Navigator (CFN)



Pacific Meteorological Desk & Partnership

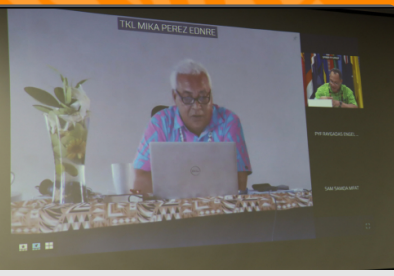
Featured external tools.

## Featured Content



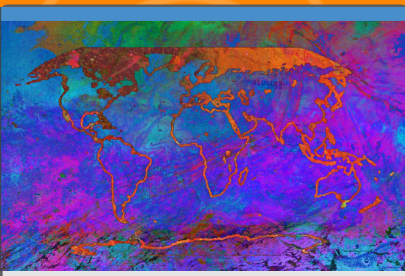
PROJECT 10 July 2021  
Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

[View Project](#)



EVENT 7 September 2021  
30th SPREP Meeting

[View Event](#)



NEWS 10 July 2021  
Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

[View News Item](#)



PROJECT 10 July 2021  
CREWS Pacific SIDS Project

[View Project](#)

Projects, events (upcoming only) and news all featured together. If content for one type is sparse the section doesn't need to look stale. Can extend to 8 items if more feature items necessary.



### Latest Resources

[COSPPac Monthly Climate Bulletin, May 2021](#)  
01-May-2021

[CosPPac Monthly Climate Bulletin, April 2021](#)  
02-Apr-2021

[User Guide for SPREP PCCC e-Learning](#)  
03-Mar-2021

[Browse resources](#)

### Latest Projects

[Engaging Communities and Government in Biodiversity Conservation and Climate Adaptation](#)  
Total Funding: USD 294,945

[New Zealand-Pacific Partnership on Ocean Acidification \(PPOA\)](#)  
Total Funding: Euro: 1,222,413.91

[Climate and Oceans Support Programme in the Pacific: Phase 2 \(COSPPac 2\)](#)

### Dashboards / Stories

[Emissions](#)

[Mitigation](#)

[Resilience](#)

[Country Profiles](#)

[Pacific Emissions Dashboard](#)

[Pacific Mitigation Dashboard](#)

[Pacific Adaptation Dashboard](#)

### Latest News

[Pacific HydroMet Community to capitalise on emerging technology and innovation with two-day virtual talanoa](#)  
17-Aug-2021

Newly released IPCC Report confirms grave risks in a warming world.  
11-Aug-2021

[Understanding Climate Change, what it is, and what we can do about it](#)  
10-Aug-2021

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List latest content in the footer to help trigger search engines to index new content quickly.



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Broad categories,  
expands mega menu.

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[Virtual Library | USP Library](#) ➡

Icon identifies links to  
external sites.

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[Experts Register \(RTSM\)](#)

[Opportunities](#)

## Data

[Pacific Emissions Dashboard](#)

[Pacific Mitigation Dashboard](#)

[Pacific Adaptation Dashboard](#)

[Climate Datasets](#)

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## News

[Pacific HydroMet Community to capitalise on emerging technology and innovation with two-day virtual talanoa.](#)

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Newly released IPCC Report confirms grave risks in a warming world.

11-Aug-2021

[Understanding Climate Change, what it is, and what we can do about it!](#)

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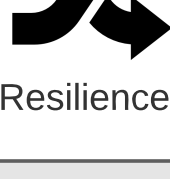
[Or browse the climate change resource library](#)



Emissions



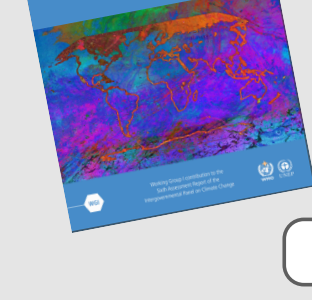
Mitigation



Resilience



Country Profiles

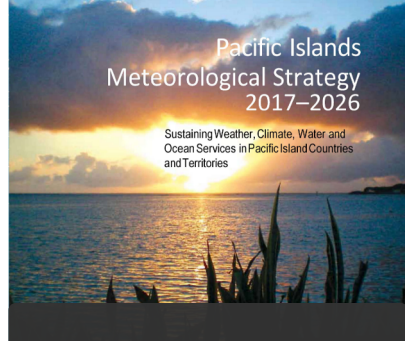


**Newly released IPCC Report confirms grave risks in a warming world.**

[Explore Online](#)

[Download](#)

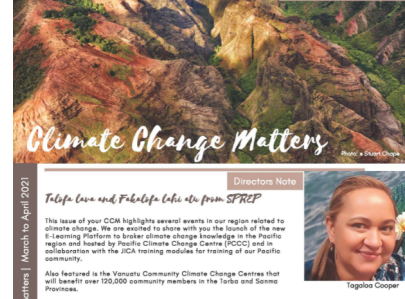
## Popular Resources



**Pacific Islands Meteorological Strategy 2017-2026**

**Pacific Roadmap for Strengthened Climate Services 2017 – 2026**

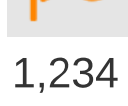
**Pacific Roadmap for Strengthened Climate Services 2017 - 2026**



**Climate Change Matters Newsletter. Issue 69. March-April 2021.**

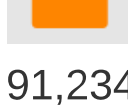


**RMI Green Climate Fund Handbook: Summary for National Stakeholders**



**1,234 Projects**

Current and past projects that focus on climate change activities in the Pacific.



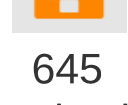
**91,234 Resources**

Reports, articles brochures, tools and more.



**12 Dashboards**

Explore the state of the climate in the Pacific region.



**645 Organisations**

Donors, funds and other organisations supporting climate change mitigation and resilience.

## Related Websites & Support Tools



**Regional Technical Support Mechanism (RTSM)**



**Adaptation Project Tool (APT)**



**Pacific Meteorological Desk & Partnership**



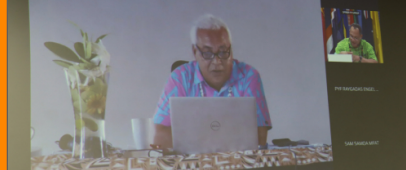
**Climate Finance Navigator (CFN)**

## Featured Content



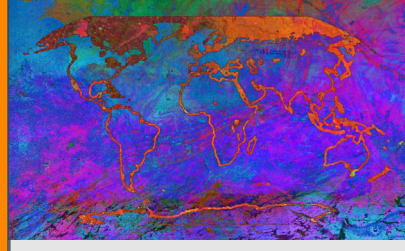
**PROJECT** 10 July 2021  
**Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)**

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**EVENT** 7 September 2021  
**30th SPREP Meeting**

[View Event](#)



**NEWS** 10 July 2021  
**Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report**

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**PROJECT** 10 July 2021  
**CREWS Pacific SIDS Project**

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[Experts Register \(RTSM\)](#)

[Opportunities](#)

### Data

[Pacific Emissions Dashboard](#)

[Pacific Mitigation Dashboard](#)

[Pacific Adaptation Dashboard](#)

[Climate Datasets](#)

[Pacific Environment Data Portal](#) ➔

[Pacific Data Hub](#) ➔

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[Pacific HydroMet Community to capitalise on emerging technology and innovation with two-day virtual talanoa.](#)  
17-Aug-2021

[Newly released IPCC Report confirms grave risks in a warming world.](#)  
11-Aug-2021

[Understanding Climate Change. what it is, and what we can do about it!](#)  
10-Aug-2021

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PACIFIC CLIMATE

Search the Pacific Climate

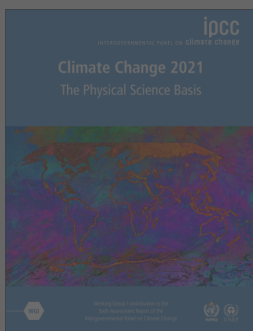
Or browse the climate



Emissions



Resilience



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[Virtual Library | USP Library](#) ➡

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Mobile menu has same contents as mega menu, plus Contact and Login.



# Search

Content Types

Resource Collection

Resource Type

Report (663)

Article (435)

Educational Resource (325)

Brochure / Factsheet (322)

Policy / Plan / Strategy (307)

Presentation (175)

Book (173)

Tags

Format

Publisher

License

Resource type categorisation maintained from existing PCCP. Different icons needed.

Where resources have a cover, show with the search results.

12658 results

Search

Search

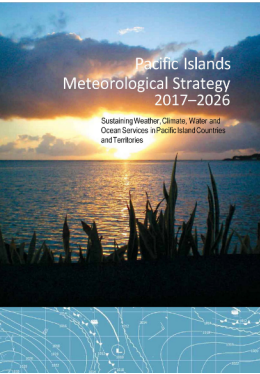
Relevance

Order

Desc

APPLY

Faceted search display consistent with Inform data portals (EKAN), although slightly different facets.

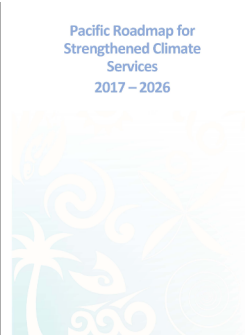


## Pacific Islands Meteorological Strategy 2017-2026

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

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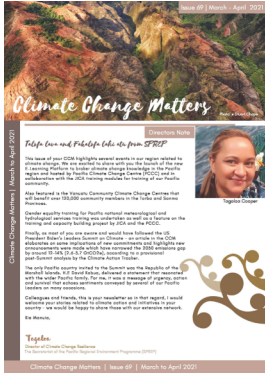


## Pacific Roadmap for Strengthened Climate Services 2017 - 2026

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

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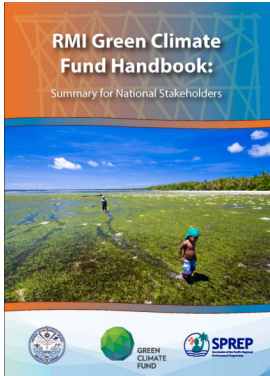


## Climate Change Matters Newsletter. Issue 69. March-April 2021.

Secretariat of the Pacific Regional Environment Programme

[Climate Change](#) [Culture and Heritage](#)

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...



## RMI Green Climate Fund Handbook: Summary for National Stakeholders

Secretariat of the Pacific Regional Environment Programme

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Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren...





Search

Content Types ^

Project (12658) x

Fund v

Topics v

Tags v

Implementing Country v

Sendai Priorities v

PIFACC Themes v

Searching / listing projects shows project related facet filters.

248 results

Search

Sort by

Order

Search

Relevance v

Descending v

APPLY

RESET

### Intra-ACP GCCA+ Pacific Adaptation to Climate Change and Resilient Building (GCCA+ PACRES)

*Secretariat of the Pacific Regional Environment Programme (SPREP)*

PACRES aims to ensure better regional and national adaptation and mitigation responses to climate change challenges faced by Pacific ACP countries.

Look and feel of searching / listing projects consistent with that of other resources but with slightly different fields shown in summary (e.g. implementing agency and funding amount).

### Climate Information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

*Vanuatu Meteorology and Geo-Hazards Department APEC Climate Centre (APCC)*  
*Australian Bureau of Meteorology (BOM)*

The project will be delivering science to better prepare Vanuatu's policy makers and public for a changing climate. Project Components:

- Strengthen the VMGD platform to provide quality climate data and information for CIS
- Demonstrating the value of CIS at the sectoral and community levels.
- Development of CIS tools and engaging with stakeholders through outreach and communications.
- Strengthening the institutional capacity for long-term implementation of CIS in decision-making.

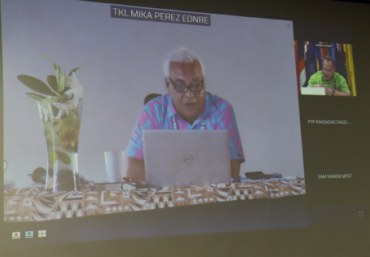
Funding amount: USD \$18,106,905



## News and Events

If you have an event or story relating to climate change in the Pacific that you would like to promote, please contact [billyct@sprep.org](mailto:billyct@sprep.org).

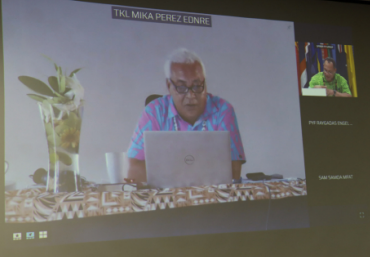
## Upcoming Events



EVENT7 September 2021

30th SPREP Meeting

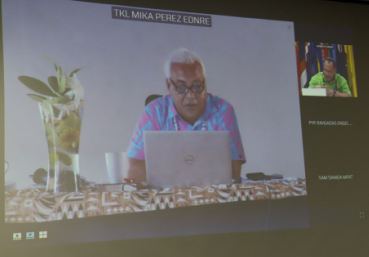
View Event



EVENT7 September 2021

30th SPREP Meeting

View Event



EVENT7 September 2021

30th SPREP Meeting

View Event

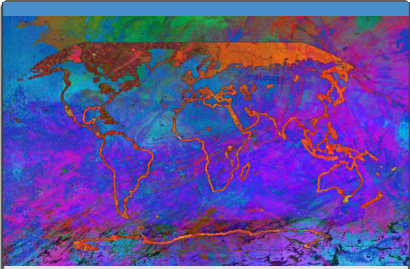
Events listed with the next upcoming item first.

Grid layout collapses to two columns for mobile devices.

News listed with the latest published item first.

Grid layout collapses to two columns for mobile devices.

## News



NEWS10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

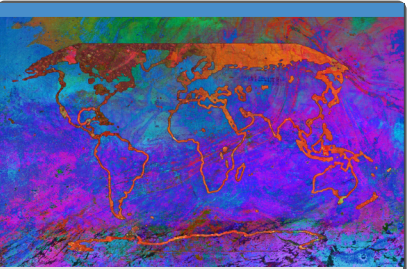
View News Item



NEWS10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

View News Item



NEWS10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

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NEWS10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

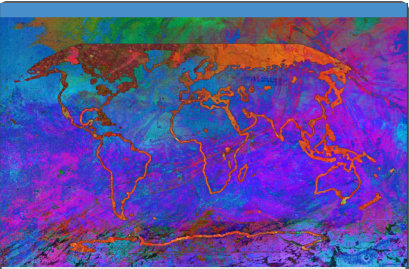
View News Item



NEWS10 July 2021

Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

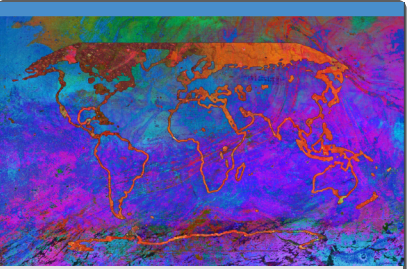
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Pacific Webinar discusses Key Findings of The IPCC's Sixth Assessment Report

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Load More

Loads the next 8 news items onto the current page.





[Home](#) / Pacific Climate Finance

01 JULY 2015

# Pacific Climate Finance

Resource and metadata view layout consistent with Inform data portals (EKAN).



SPREP Climate Change Resilience (CCR)

 Atmosphere and Climate

End of Internship presentation on Pacific Climate Finance. Section are: climate finance challenges, overview of climate finance in the Pacific, and next steps.



**Pacific Climate Finance presentation**  
End of SPREP internship presentation, July 2015. Sections: climate finance...

[DOWNLOAD](#)

- climate

climate change finance

climate change

climate change adaptation

Field	Value
Publisher	SPREP Climate Change Resilience (CCR)
Modified	2019-09-23
Release Date	2015-07-01
Identifier	c276190e-624b-4968-8773-fc8a5ab2bb27
Spatial / Geographical Coverage Location	Pacific
License	Public
Author	Marguerite Harden
Contact Name	Espen Ronneberg
Contact Email	<a href="mailto:espenr@sprep.org">espenr@sprep.org</a>

License

Public

[OPEN DATA](#)

Other Access

The information on this page (the dataset metadata) is also available in these formats.

 [JSON](#)  [RDF](#)

via the [DKAN API](#)



Search



Home / Data Dashboards / Help & Support

MY ACCOUNT

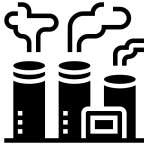
LOG OUT

19 JULY 2021 | DATA DASHBOARD

## Climate change mitigation and adaptation

Search for Pacific Change Resources

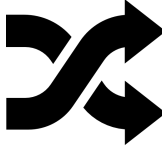
Clear terminology and imagery to make it clear to the user they have landed on the right site for climate change information.



Emissions



Mitigation



Resilience



Country Profiles

Links to high level, curated summary information in the form of dashboards or stories.

Featured climate related news item, or intro text.



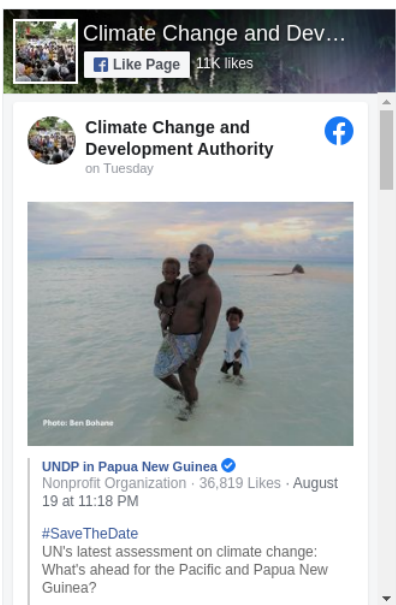
**Climate Change and Development Authority (CCDA) is a new government entity that is now undergoing transition from the former Office of Climate Change and Development (OCCD).**

July 2021

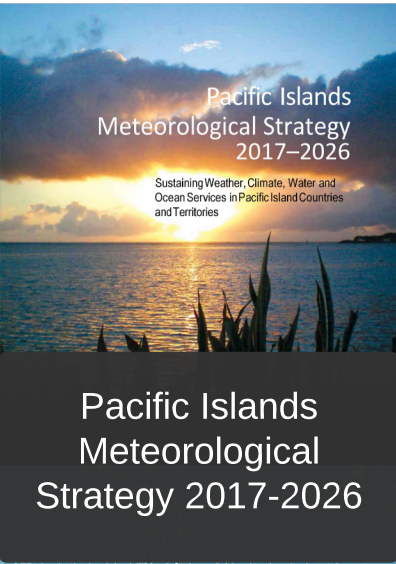
CCDA coordinates the Climate Change efforts of the Government of Papua New Guinea, a continuation of basically where the former OCCD left off. It is the coordinating entity for all climate change related policies and actions in the country. Additionally, it is the designated National Authority under the United Nations Framework Convention on Climate Change (UNFCCC). The office is currently undergoing a transitional phase which requires a major re-structure, in a coordinated and structured manner, complying with its own Climate Change Management Act (CCMA) 2015.

Read More

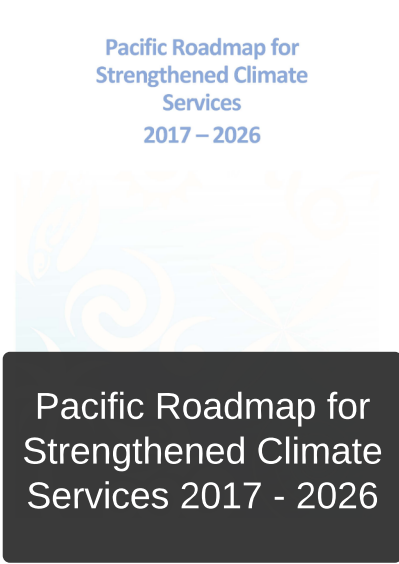
CCDA on Facebook



## Popular Climate Change Resources



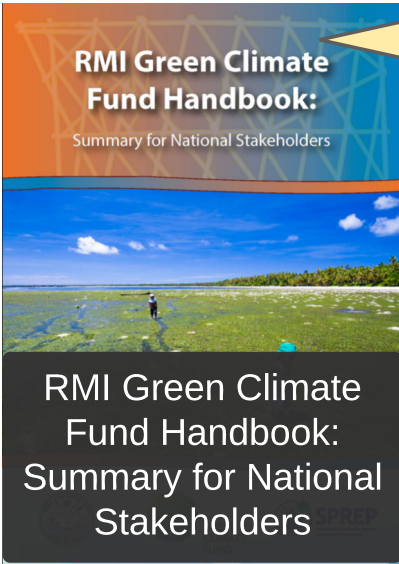
Pacific Islands  
Meteorological  
Strategy 2017-2026



Pacific Roadmap for  
Strengthened Climate  
Services 2017 - 2026



Climate Change  
Matters Newsletter.  
Issue 69. March-April  
2021.



RMI Green Climate  
Fund Handbook:  
Summary for National  
Stakeholders

A curated list of the more significant resources published on the portal that relate to climate change.



25  
Projects

Current and past projects that focus on climate change activities.



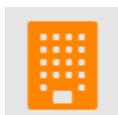
2,609  
Resources

Reports, articles brochures, tools and more.



12  
Dashboards

Explore the state of the climate in PNG and the Pacific region.



80  
Funds

Funds supporting climate change mitigation and resilience.

Each links to search results filtered by content type AND climate change.

## Project Updates



PROJECT 10 July 2021  
Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

View Project



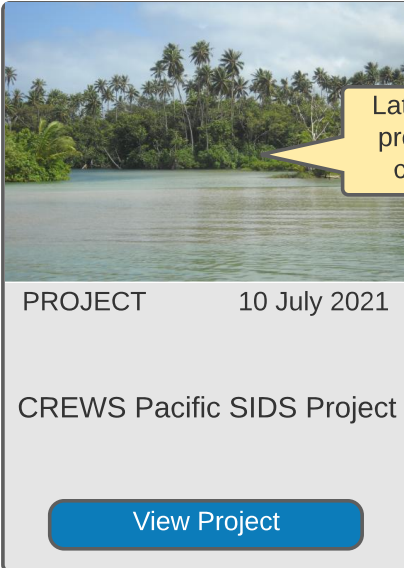
PROJECT 10 July 2021  
CREWS Pacific SIDS Project

View Project



PROJECT 10 July 2021  
Climate information Services for Resilient Development Planning in Vanuatu (Van-KIRAP)

View Project



PROJECT 10 July 2021  
CREWS Pacific SIDS Project

View Project

Latest four updated projects relating to climate change.



Logos on Inform portal may need update if climate change portal is merged.