Community Mapping and QGIS.

A climate and disaster Risk mapping toolkit for local communities

Who we are

University of the South Pacific, European Union Global Climate Change Alliance (USP EUGCCA)

Global Climate Change Alliance (GCCA)

Strengthen dialogue and cooperation on CC between the EU and Pacific Island Countries.

Pacific component of the Intra ACP project implemented by USP through PACE-SD.

Initially a four year, 8m € project

Project extension with an extra 1.9 m € ending in Aug 2017
Where we work.

What we do

**Capacity building**
- Formal and non-formal training
- Scholarships

**Community Engagement**
- Focus on priorities identified by National Adaptation of Program of Action.
- Sectors selected based on existing stress on communities.
- CC and DRM awareness, adaptation planning & implementation.

**Applied Research**
- Analysis of observations and models.
- Assessment of disaster risk and vulnerability.
- Formulation of appropriate adaptation strategies, practices and tools.
Participatory GIS (PGIS)

What is community mapping?
Communities

- Are the ones living in isolated harsh environments.

- Without external assistance they often do NOT understand, know how to cope and adapt to changing climate, how to deal with the risks and vulnerabilities.
Pilot Project (3 days in 3 different sites)
QUANTUM GIS

- Free
- User-friendly
- No need for internet connection

Pilot Project
An outcome of pilot project
The package...

The Manual

Getting to know Windows
Copying files from USB to computer
Installing VLC
Installing Apache Open Office
Installing QGIS 2.6.0
Getting started with Windows
Getting started with OpenOffice 4
Getting started with QGIS
Introduction to spatial data
How to read a map
Creating a map
Creating a map
Creating an ecosystem map
What are disasters?
Data collection
Organizing and editing data
Organizing and saving data into a spreadsheet
Editing and saving data on QGIS
Creating a Disaster Risk Map
Risk and disease incidence Map
Downloading and installing Google Earth and QGIS
Georeferencing a Google Earth image
Survey sheet
Training to know...

... and how to effectively use the collected data
<table>
<thead>
<tr>
<th>Pilot tools</th>
<th>Trial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduct training for regional staff</td>
<td>Finalize tool-kit content</td>
</tr>
<tr>
<td>Publish and Share tool-kit</td>
<td>Online course</td>
</tr>
<tr>
<td>Train government officials, NGOs etc</td>
<td>Train communities and use in Secondary schools</td>
</tr>
<tr>
<td>Translate into different languages</td>
<td>Create and APP</td>
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</tbody>
</table>

Trial 1

Welcome to Community Mapping and QGIS

Mapping involves collecting, organizing, editing, storing, and using data to create thematic maps. Maps are a great way to visualize what is in an area. With this toolkit, communities will have a direct involvement in their own adaptation to climate-related issues.

There are 7 parts in this training:

- **Part 1 - Chapter 1 & 5**
- **Part 2 - Chapter 6 & 7**
- **Part 3 - Chapter 8 & 9**
- **Part 4 - Chapter 10 & 11**
- **Part 5 - Chapter 14 & 15**
- **Part 6 - Chapter 17 & 18**
- **Part 7 - Chapter 19 & 20**

Conclusions & Final Evaluation

The final copy of this toolkit will consist of a hard-copy of the tutorial guide which has been broken up into PDF files for this training and a flash drive with all the software, video tutorials and images. All the software and images that are part of the toolkit have been loaded on to this Moodle shell so you will not be copying files from a USB drive as indicated in the instructions. Each part consists of the instructions for each chapter in a PDF file, video tutorials and images (if any).

This Moodle page will be your area to go over the toolkit in detail.
First Training

Number of participants' Age groups

Age vs gender

<table>
<thead>
<tr>
<th>Age groups</th>
<th>Number of female</th>
<th>Number of male</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-24</td>
<td>2</td>
<td>1</td>
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<tr>
<td>25-34</td>
<td>5</td>
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<tr>
<td>45-54</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>55-64</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
Participant's computer literacy

Number of participants' operating system used by participants'

Participant's familiarity with software

Level of difficulty
Evaluation of tool-kit

Participants’ evaluation of the tool-kit

Objectives achieved?
Objectives achieved?

- Time – trial & feedback for participants’.
- Installation of software.
- Familiarity of participants’ with laptops and tool-kit prior to implementation.
- Commitment
Licensing

Creative Commons

Attribution Share Alike
Introduction to GIS online course

- Current research topic “An analysis of the response to the Community Mapping & QGIS, climate and disaster risk mapping tool-kit.”
- **Objectives:**
  - Determine the effectiveness of the Community mapping tool-kit in different community environments.
  - Analyze the technical, cultural and social factors that affect the use of the tool-kit in different community settings.
  - Analyze the role of the tool-kit as a technology that influences the way the community thinks of their village spatially in terms of climate change adaptation and resilience and capacity building.
  - 3 selected sites in Fiji (coastal, inland and island environment).
  - Criteria for site selection: Geography, vulnerability, social and technical.
MALO ‘AUPITO!!

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