





GIS Capacity Building in Pacific Island Countries: **The Q- BOOK Moodle**

On behalf of
 Federal Ministry
 for the Environment, Nature Conservation,
 Building and Nuclear Safety
 of the Federal Republic of Germany



Motivation

- High need to conserve and use marine resources sustainably
 - Support and guidance open source GISs
- Specific support in Pacific: Q-GIS tutorials, trainings, Customized solutions
- meet specific questions of regular GIS User




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Needs assessment Questionnaire



Needs assessment for a learning resource for Geographical Information Systems (GIS)

Your background and specific interest in GIS

Thank you for taking part in this survey, an effort collaborated between the regional MACBIO project and the SPC Geoscience Division.

In this questionnaire, we want to learn from the experiences, interests and needs of GIS practitioners to be able to design and provide suitable GIS service support resources.

Your participation will help to tailor the specific needs of GIS users in the Pacific.

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Outline



1. Sustainable Capacity Building in Pacific Island Countries (PICS)
2. Skill-Based and Narrative-Driven Training Models
3. GIS Community: Q-Book Moodle
4. GIS Community Video
5. Next steps and Discussion



Sustainable GIS Capacity Building

1. Support **open source software**: Help from ArcGIS to QGIS:
2. Linked to **existing efforts** in Pacific
3. **Pacific specific**: Identification
4. **Comprehensive**, but condensed:
5. **Portable version** possible: Includes downloading files of software and data
6. **Crowdsourced** by different agencies
7. **Moderated**, quality assurance
8. **Upgradeable** and Open-ended: Starting with basics continuing with advanced topics



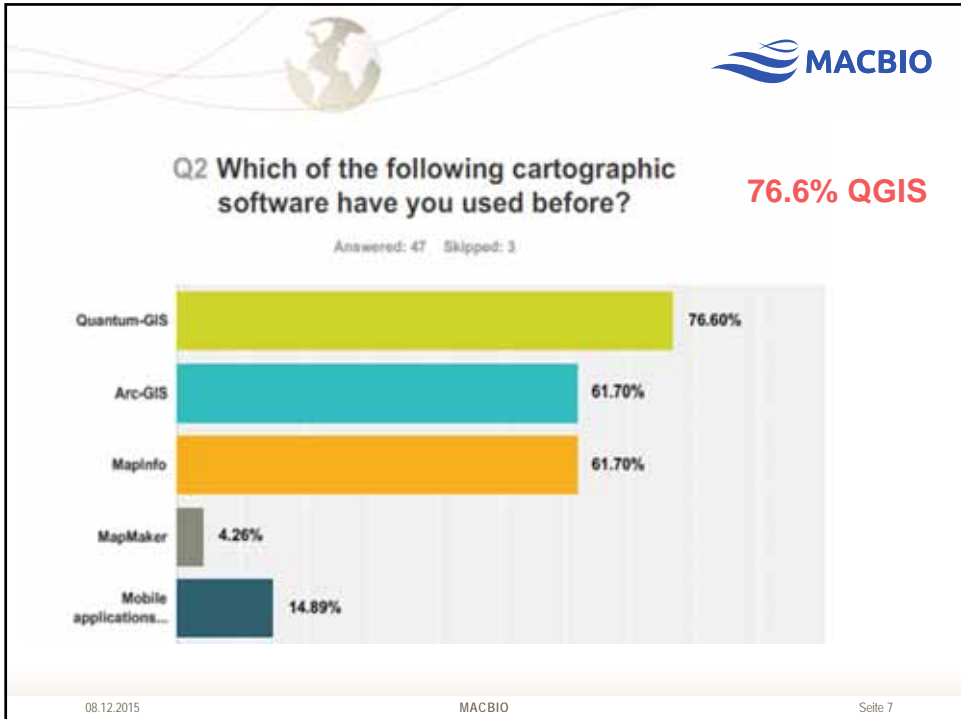
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1. Open source



- Why Q-GIS?
- Arc GIS and Q GIS dualism

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2. Linked to existing efforts: Geospatial Data Repository, Web-mapping

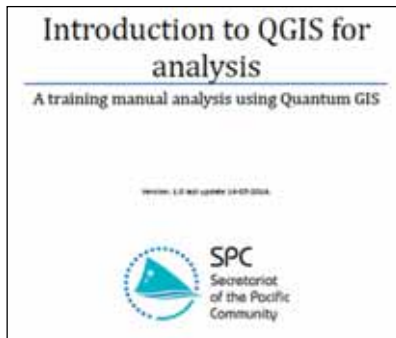
PacGeo
An Open Access Geospatial Data Repository for the Pacific
geophysical, geodetic, and marine sciences

PacSAFE
PacSAFE has initially been developed to enable hazard data and asset data, such as the Pacific Catastrophic Risk and Financing Initiative (PCRFIF) asset database, to be used to generate impact information to assist planning, preparedness and response activities for Pacific Island Countries. It is based on InaSAFE and QGIS.

64 Users

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2. Linked to existing efforts:
Face to face training, Toolkits



2. Linked to existing efforts:
GIS Community



3. Pacific related



4. Comprehensive, but condensed



- Communication among different organizations
- Combines existing resources in capacity building
- Avoid duplication, overlap, repetition



5. Upgradable and open ended



- Focus on “core” aspects of GIS
- Set opportunities for continual self-development
- Open ended

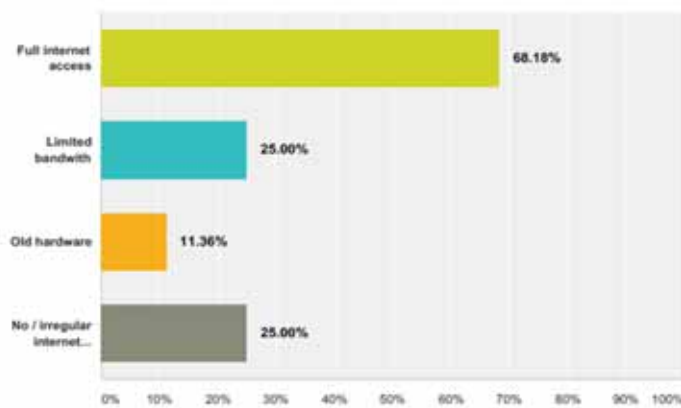


6. Portable version, that works offline



Q9 What technical requirements do you have using the resource?

Answered: 44 Skipped: 8



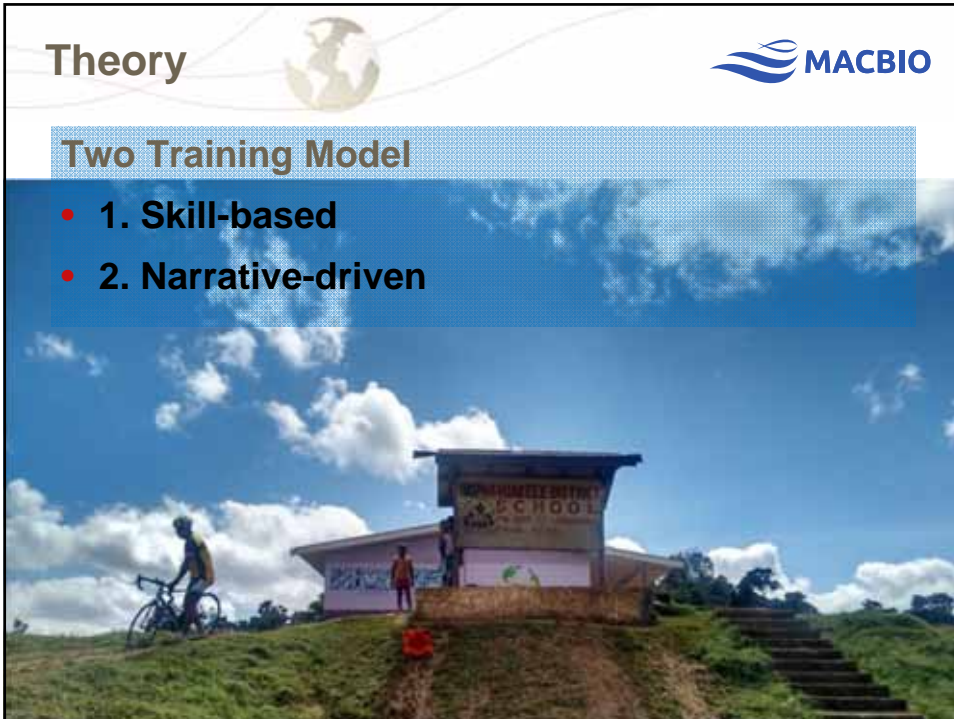
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Theory

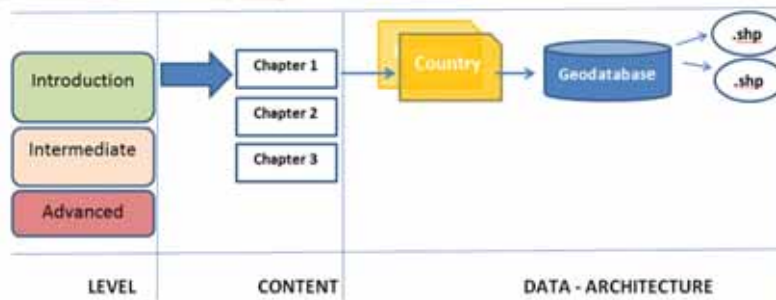


Two Training Model


- 1. Skill-based
- 2. Narrative-driven



1. Skill based Training Model



- In line with skill level and GIS tools
- Country specific (*Fiji, Kiribati, Salomon Islands, Tonga and Vanuatu*)
- Possible certification (under discussion)



Content Example Q-GIS Tutorial

Introduction

1. Getting started
2. User Interface
3. Coordinate System/Projection
4. Viewing Spatial Data
5. Data Creation and Editing
6. Spatial Analysis
7. Creating Great Maps


Intermediate

1. Different data formats
2. Spreadsheets
3. Geo referencing
4. Working with a GPS receiver

Advanced

1. Plugin: Python
2. Forest Change Detection
3. Coconut Inventory
4. Calculating soil loss
5. Land resource simulation analysis

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The Pacific Q Book Moodle

Content are under active development

MAIN MENU

- Site news
- Navigation**
- Home
- Site news
- Started

NEEDS ASSESSMENT FOR A LEARNING RESOURCE FOR GEOGRAPHICAL INFORMATION SYSTEMS (GIS)



Thank you for being part in this survey, an effort coordinated between the regional QGIS project and the QGIS Education Division. In this questionnaire, we want to learn from the experiences, interests and needs of QGIS practitioners to be able to design and provide suitable QGIS service support resources. Your participation will help to tailor the specific needs of QGIS users in the Pacific.

<https://www.surveymonkey.com/r/WT22682>

Available courses

- QGIS Modules for Advanced Users
- QGIS Modules for Intermediate Users
- QGIS Modules for Beginners

Search courses

Site news

Regional QGIS Capacity Building for the Pacific

Regional QGIS Capacity Building Components for the Pacific Island Nations, consisting of Online QGIS, in-country demonstrations, and building on current and existing QGIS training materials across CRCP agencies and QGIS users and MacBIO.

Module: Open-Source Systems Learning Environment is an...

Read the rest of the topic (0 comments)

CALENDAR

November 2018

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

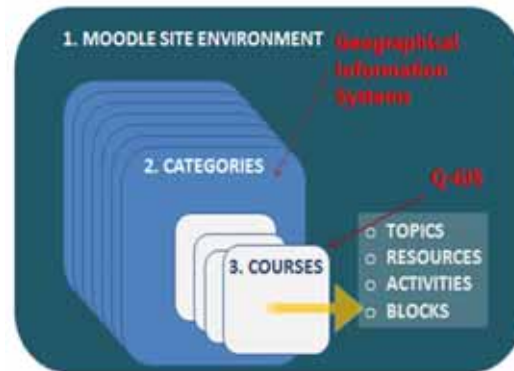
MOODLE @ www.pacqeo.org/edu

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“Transfer of learning”: Q- Book Moodle

- **Modular Object- Oriented Dynamic Learning Environment.**
- *To moodle* – process of enjoyable tinkering that can lead to growing knowledge, insight and creativity.
- Online learning Management System, designed to improve interaction between Teacher/Student.
- easy to use and get going
- Learning through collaboration
- People can modify/ change it
- Store, communicate, collaborate, evaluate



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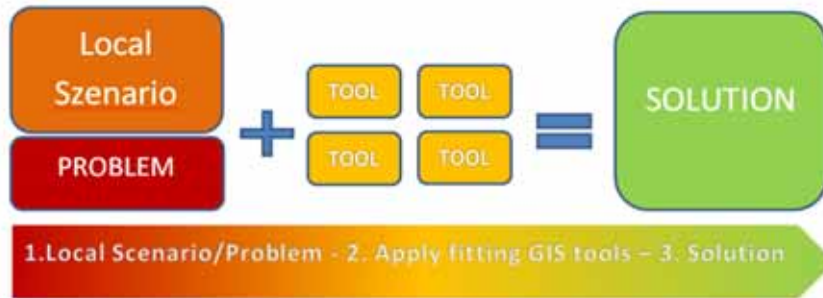
Fazit: Moodle

- **Communication** among different institutions, that provide capacity building and development expertise
 - Built on **existing resources in capacity building to avoid overlap & repetition**
- **Integration** with local GIS user groups
- Linkages across the local **GIS community**
- Enhance **GIS diffusion**: adopt and implement GIS
- *Users identification?*



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2. Narrative driven Training model



1. Users Background: Needs assessment
2. Identification with a realistic and local scenario

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GIS related Questions/Themes in the Pacific & related spatial datasets

- **We need your story!**
- Disaster Risk and hazard is connected with spatial information and human needs (Cyclone Pam)
- Forestry, Marine, Urban planning, Wind energy



Capacity building resume



- **enhance the GIS-communities to grow together**
- **develop the wider GIS community**
 - shared discussion portals,
 - linkage of common events,
 - solve problems specific to the region
- **address the wide range of needs**
- **provide a high level of assistance to individuals**
- **Start basic:** core aspects of GIS
- **enhance new skills and knowledge**
- **sustain the improvements: Follow-up and linkage to existing**



Vinaka!

Kam raba!

Tank iu!

Tank yiu tumas!

Malo!



Discussion



1. Enhance the GIS-communities to grow together.
Who is interested in capacity building collaboration?
2. Built on already existing capacities:
MOODLE Linkage? USP / PACE-SD?
3. Narrative driven training:
We need your GIS story!



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