

EU-GIZ ACSE

ADAPTING TO CLIMATE CHANGE AND SUSTAINABLE ENERGY

The EU-GIZ ACSE Programme is assisting fourteen Pacific Island countries and Timor Leste to adapt to climate change and to improve access to sustainable energy.



PACIFIC ISLANDS
FORUM SECRETARIAT





Northern Water Project Phase II



Lead Agency ; MFEM
Implementing Agency, OPM-Climate Change
Supporting Agency; Pa Enua Island Government
Amount €400.000

Current Situations

- The islands in the Northern group are low atolls
- The people critically dependent on rainwater for their day to day living.
- Rainwater is collected from the roofs of;
 - most community buildings
 - residential houses
 - purpose-built rainwater collection roofs or locally known as “Fare Vai” or “Wale Wai” constructed by Govt in the 1950s.
- Rainwater is mainly used for potable (drinking) purposes.

What Is GLZ Doing?

- Assist Government of the Cook Islands in the following;
 1. Increased capacity for rainwater harvesting and storage
 2. Enhanced resilience to natural disasters and climate change (including drought proofing
 3. Improved awareness within communities to the need for reduced water use and wastage; including effective management and maintenance of water supply assets on the islands

Northern Water Project Phase II

1. Increased capacity for rainwater harvesting and storage.....Activities include

- Repairing the existing damaged community water tanks and catchment buildings accompanied by the installation of guttering systems to feed the repaired tanks
- Works Scope based on;
 - For Water Buildings
 - Existing Structure Designs
 - For Water tanks
 - Recommended Repair Options

Northern Water Project Phase II

2. Enhanced resilience to natural disasters and climate change (including drought proofing).....Activities includes;

- **Improve water governance and management systems**
- **Having the community water tanks and building operating efficiently in catching and storing rainwater.**

Northern Water Project Phase II

- **Improved awareness within communities to the need for reduced water use and wastage; including effective management and maintenance of water supply assets on the islands ...Activities include**
- **Implementation of a community water awareness program including;**
 - **the promotion of community knowledge and understanding of water and supply system,**
 - **wise water use and conservation**
 - **implementing safety practices to minimise problems arising from water contamination.**

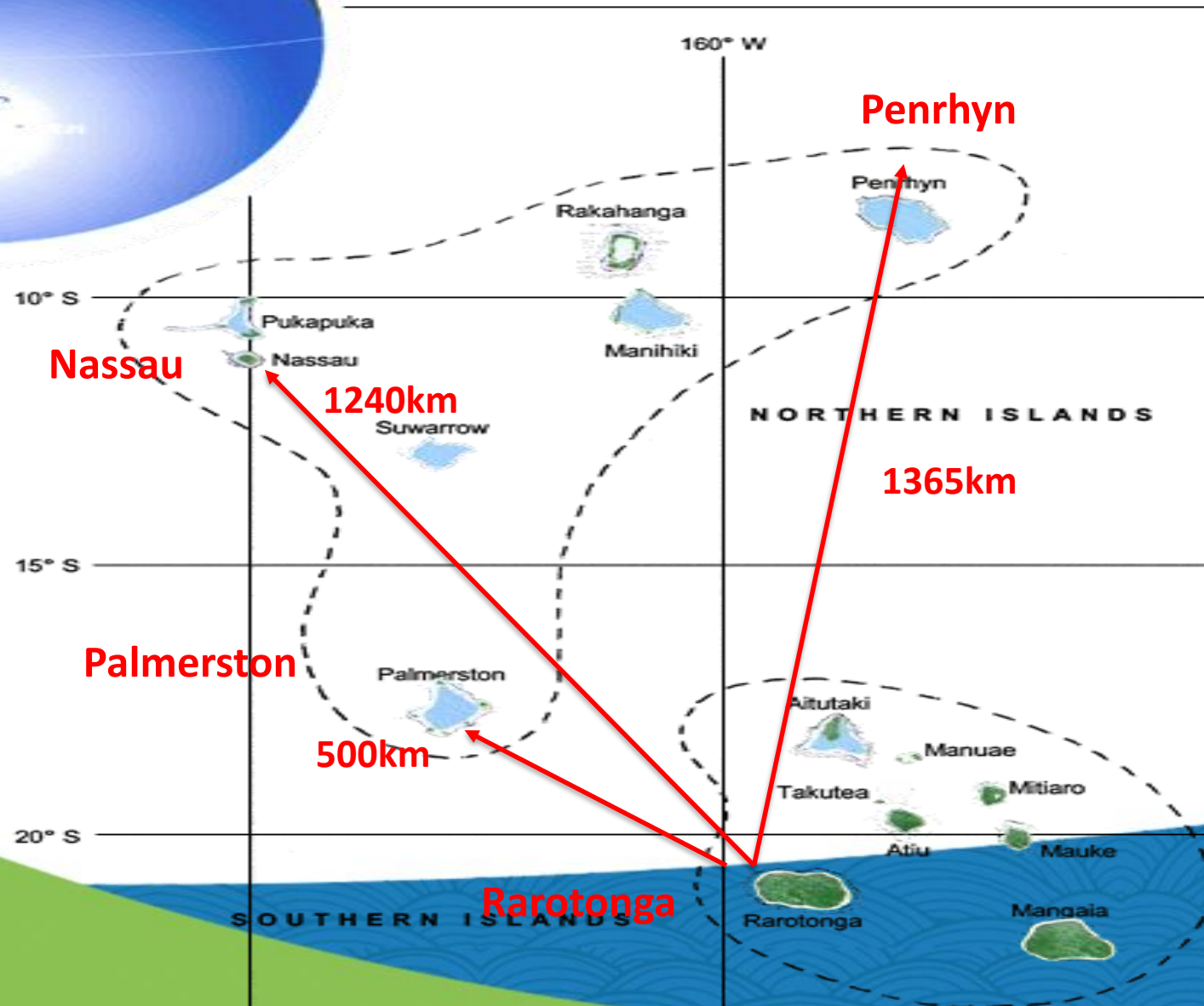


Northern Water Project Phase II

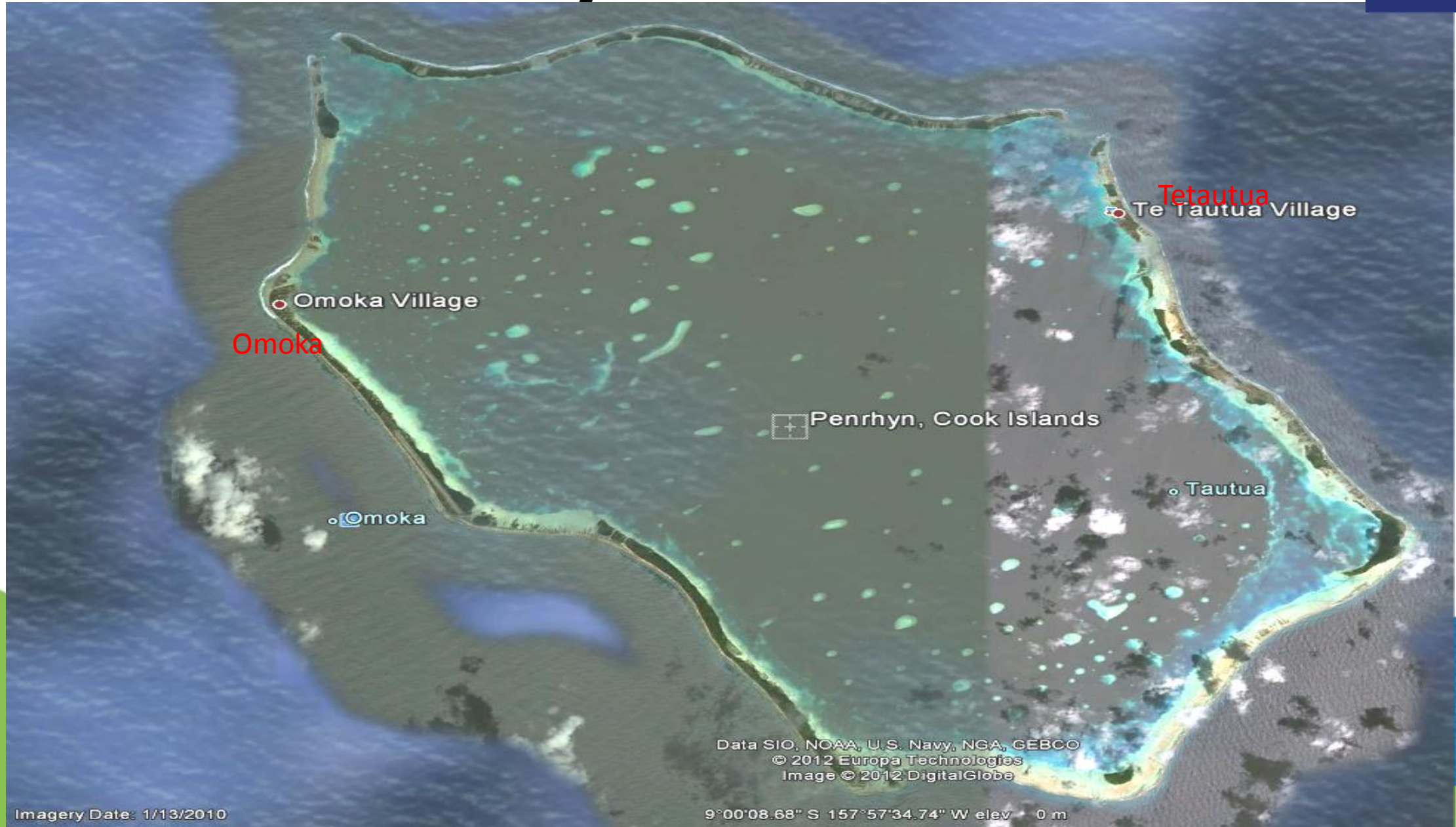
■ Project Coverage

- 3 isolated Islands and 4 Island Communities
- Penryhn island – Access air/sea - 1,365km Ra/Pye
 - Omoka Village
 - Tetautua Village
- Nassau Island –Access sea only - 1,240kmRa/Nas
- Palmerston Island – Access sea only – 500kmRa/Palm

The Cook Islands



1. Penrhyn Island



Penrhyn – Omoka Village

- 1 Water building
- 7 x 45,000l water tanks
- Community Training





Omoka Village



Penrhyn – Tetautua Village

- 1 Water building
- 2 x 45,000l water tanks
- Community Training



Building →



Image © 2018 DigitalGlobe
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Google Earth

2. Nassau Island

- 2 x 45,000l Water tanks
- Community training



Nassau Island



Palmerston Island

- 1x Water Building
- 3 x 45,000l water tanks
- Community training



Palmerston Island





Progress to Date

■ Project Components

- **Component I.** Program management system established and implemented.....Most activities Completed
- **Component II.** Islands rain water tanks, catchments and infrastructure repaired and made functional.....Some activities Completed
- **Component III.** Water supply management system and guideline established and implemented.....Most activities yet to be done

Component I – Most Activities Implemented



- Establish Project Administration and Management systems
 - Set up operation base
 - Recruit, confirm staff, ICC, PM and Outreach trainer
- Set up country project support group and conduct project stakeholder consultations;
 - Establish National PMC
 - Establish Local PMC
- Undertake Project Management Monitoring and Reporting
 - Confirm project delivery and Management structure.
 - Consider and approve water design criteria and water safety
 - Approve water management systems
 - Conduct project monitoring and reporting.....In Progress
 - Informing stakeholders of project progress
 - Information paper to Cabinet

Component II – Most Activities' implemented



- Conduct field consultation, survey and assessments of the community rain water tanks.
 - Travelled to the islands for community consultations and project assessment and completion of PDD
- Prepare technical design, drawings, specifications and required documentation of the proposed upgrade works
 - The technical design, drawings and specifications are contained in the project document
 - “Northern Islands Waters Project phase 2” This document is endorsed both by the Government of the Cook Islands and the Donor EU – GIZ ACSE programme.

Component II – Some activities implemented



- Carry out the construction works and commissioning of the upgraded facilities.
 - Prepare the necessary Tender and Contract documents;
 - Call for material and service tender
 - Assessment of tender bids
 - Issue construction material supply contracts.
 - Payment of contract components

Component III....Yet to be implemented



- Establish Water Management Institution and Systems
- Output Implement Water management system on the islands.
- Conduct education and awareness of Communities on water management, conservation and safety system
 - Training material prepared..... In Progress
 - Conduct community water conservations and management training on all islands to build whole of island capacities to manage their water supplies effectively.



Challenges Faced

- **Transportation of materials to site**
 - Shipping schedules Haphazard – Realities of Pa Enua isolation
- **Travelling arrangement and logistics for the Construction crew**
 - Unscheduled Air and Shipping services
 - Always unsure of travelling dates



Next Step... Component I. Currently in progress

- **Establish Local Island PMCs.....during implementation comp. III**
- **Continue the following;**
 - **Undertake Project Management**
 - **Undertake Monitoring and Reporting**
 - **GIZ**
 - **Steering Committee**
 - **Media**



Next Step... Component II.. Currently in progress

- **Arrange shipment of supplies to the respective island including arrangement for safe keeping and storage**
- **Mobilisation of construction team to the islands – Mid May**
 - **Lead Agencies from Raro; ICI and OPM**
 - **Local IG Staff – from the IGs**
 - **Travel to the project site**
 - **Constructions of water infrastructure**
- **Monitoring and reporting the activities progress**
- **Conduct construction audit reviews – mid and final review.**
- **Organise Project handover.**

Next Step – Component III – For delivery on the islands



- **Establish Water Management Institution and Systems on the island**
 - establishment of an on-island committee to mobilise behavioural changed in the management of water resources thru meeting and establishment of policies
- **Implement Water management system on the islands.**
 - Committee to establish and implement policies and systems designed to operate, maintain and sustain effective water supply systems.
- **Conduct education and awareness of Communities on water management, conservation and safety system**
 - Conduct community capacity building activities of water conservations and management to build whole of island capacities to manage their water supplies effectively.

Thank you



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