CLIMATE CHANGE IMPACTS & ADAPTATION PLANNING – MANILA, 27-28 JANUARY 2015

ASSESSMENT OF RISKS, HAZARDS & VULNERABILITIES OF CLIMATE CHANGE IMPACTS

SAMOA

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Outline

- Objective of presentation
- Brief introduction on Samoa
- Samoa's responses to Climate Change
- Challenges that we face
PRESENTATION OBJECTIVE

- To provide an insight on some of the work that Samoa is doing to assess the impacts of Climate Change
About Samoa

- **Total population** 200,000
- **Land area** = close to 3000 sq km
- **Coastal areas heavily populated**
- **1st** Pacific island state to gain independence in 1962
- **Apia** (capital) - located on the second largest island ‘Upolu’
- Rely heavily on tourism and exports (agriculture, fisheries and forestry products)
- Islands are volcanic in origin
CONSEQUENCES OF CC IMPACTS
SAMOA’S RESPONSES TO CLIMATE CHANGE

Strategy for the Development of Samoa 2012-2016 (SDS)

- Key Outcome 13: Environment Sustainability
- Key Outcome 14: Climate & Disaster Resilience
SAMOA: NATIONAL PLANNING RESPONSE

Strategy for Development of Samoa 12-16

National Budget

MINISTRIES (MOF, MNRE, MWTI, LTA, MWCSD, MOH, SPA, STA, MCIL, MPMC, MFAT, MJC, SWA, EPC, etc)

SECTORS (WATER & SANITATION, TRANSPORT & INFRASTRUCTURE, ENERGY, EDUCATION, ENVIRONMENT)

PROJECT BASED

PROGRAMME BASED

COMMUNITIES
1. DEVELOPMENT CONSENT ASSESSMENT – uses;
   - Coastal Infrastructure Management Plans
     (describes hazards in all villages)
   - Environmental Impact Assessment (undertaken by developers)
   - Look at existing Regulations, Policies, Guidelines
   - Notify the public for their comments
   - Referral Process/Assessment (feedback from key Agencies)
   - Existing topographical maps / google maps

2. OTHER NEW AND PROPOSED TOOLS / RESOURCES FOR ASSESSMENTS
   - Participatory 3D Model (new tool used for community assessments)
   - LiDAR (new tool currently being procured)
   - Review of the National Building Code of Samoa 1992 (proposed)
   - Hazard Review of Samoa 2015 (new info)
   - Mt Vaea Hazard study (new project)
   - NAPA projects (ongoing)
   - Crops Suitability Maps, Water Bore holes underground monitoring systems, GIS rainfall, temperature maps overlay, health maps that identify health hotspots
EXAMPLE OF A TOOL FOR ASSESSMENT: P3D Models with Communities in Samoa
FORESTRY SECTOR
TOURISM SECTOR
WATER SECTOR
KEY CHALLENGES

• Human Capacity to assess Climate Change – not enough assessors despite the many implementers

• Should there be one body to assess and monitor CC impacts?

• Is there a need to Establish a Legally binding CC legislation?

• Hard decisions to be made soon – a clear setback from all coastal areas / assets to be moved further inland etc

• Provide more scientific analysis for all areas
What are the other countries doing that we can learn from?
- What new assessment tools / methods are there for Climate Change?
- What new studies ought to be undertaken?