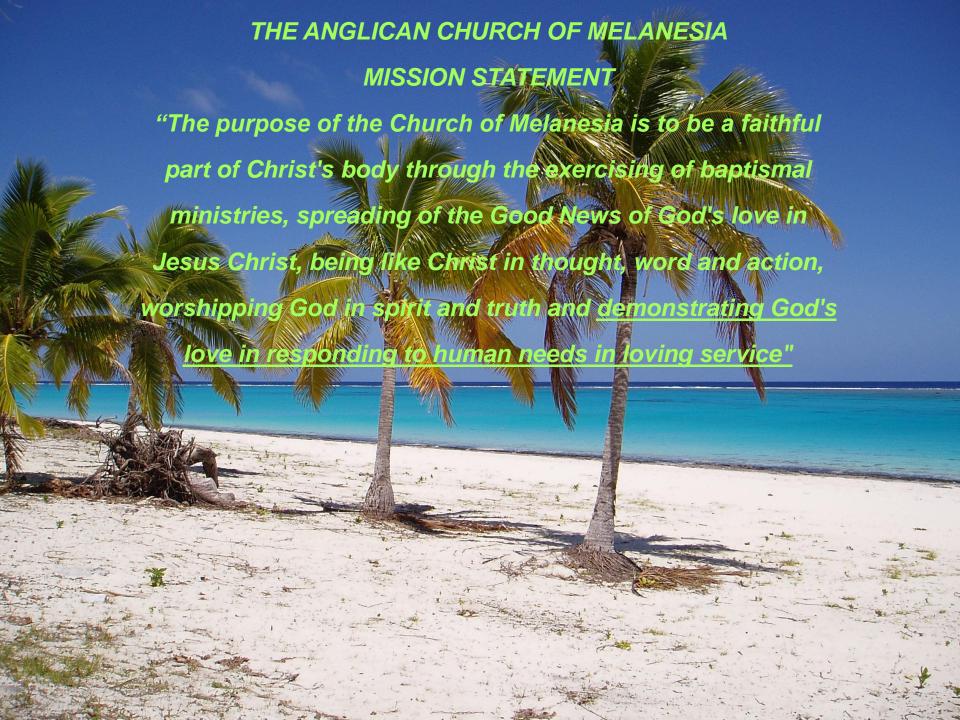


Presentation from the Anglican Church of Melanesia(ACOM)
to the Anglican Alliance Pacific
Conference, Solomon Islands
5-11 September 2011.



# Climate Change A Challenge to the Anglican Church of Melanesia AND THE PACIFIC

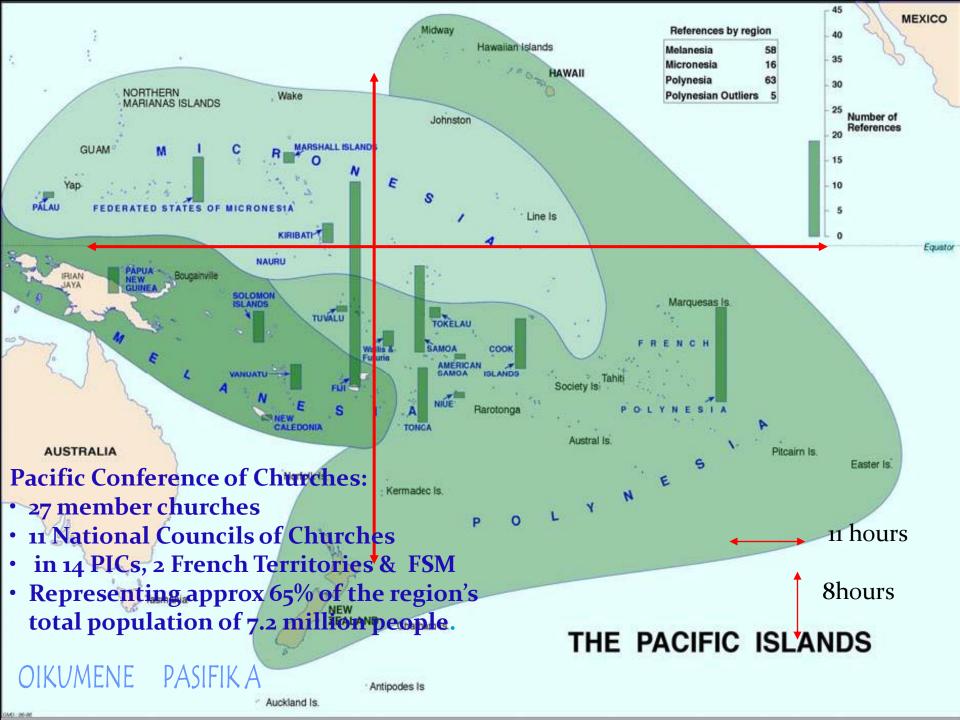
### Aim of presentation

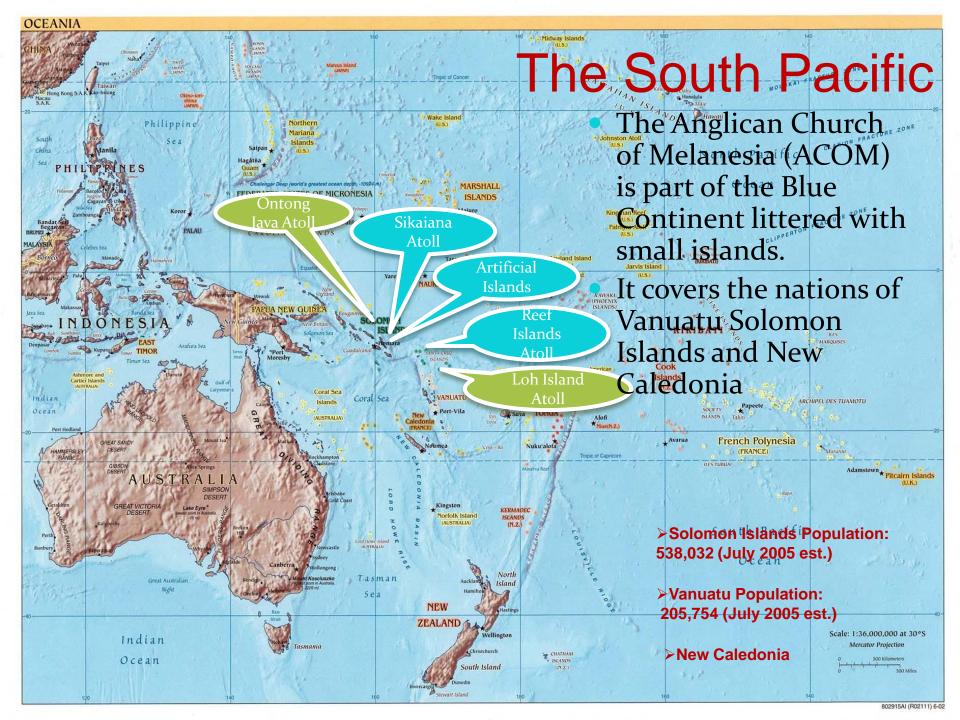
To share with you our work with regard to the phenomenon of climate change and its impacts upon atoll communities in the Anglican Church of Melanesia, and the Pacific Islands.

#### **Outline**

- Background
- ☐ Issues Affecting Atoll Communities
- Adapting to Climate Change Effects
- Ontong Java Atoll Food and Water Security Project
- Conclusion

## BACKGROUND



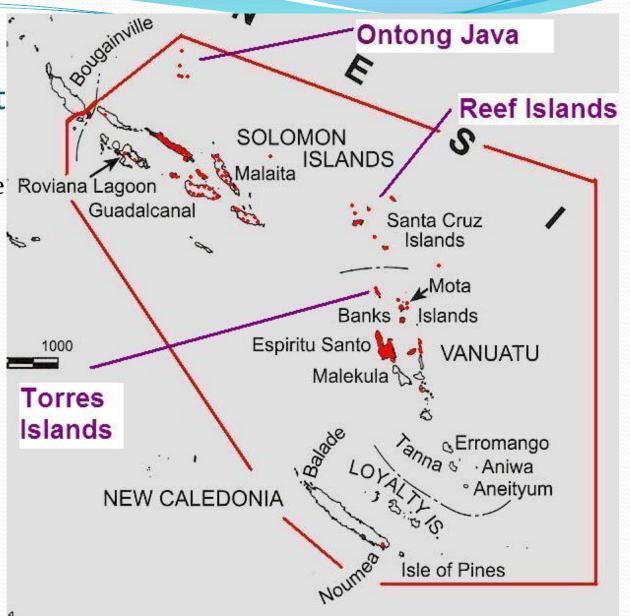


## Areas of Immediate Impact

Main Anglican areas are Roviana Lagoon shown in red.

Ontong Java, the Torres Islands, and the Reef Islands are the most immediately affected area, but other parts of the Solomon Islands and

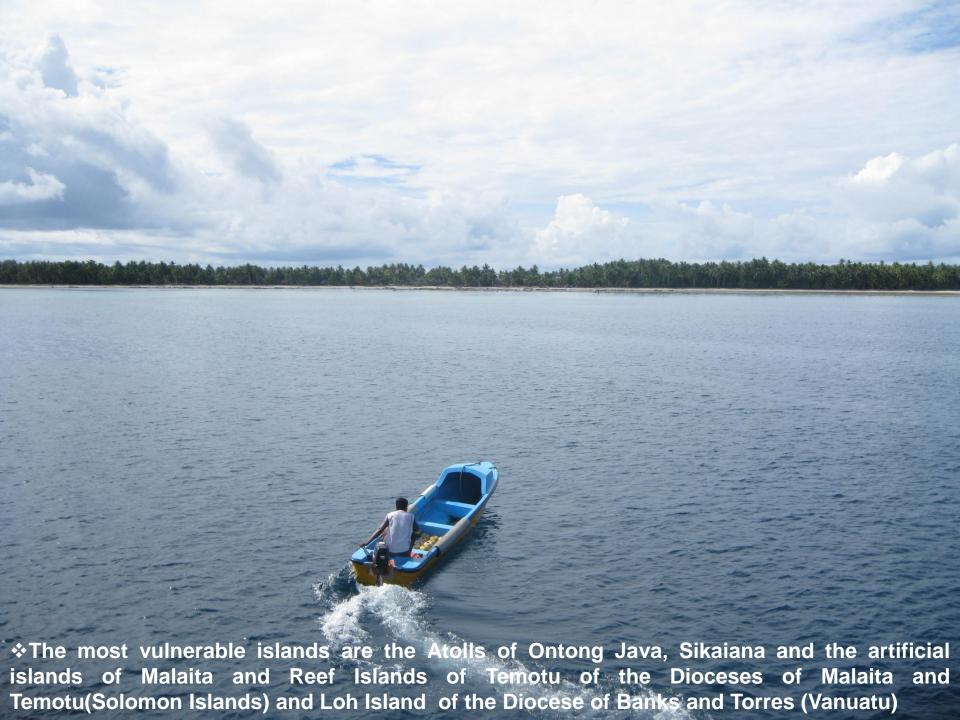
Vanuatu are also threatened.





❖The Church's growing concern for the environmental issues makes it part of its mission towards God's people and Creation





## Exponential effects

- "We are basically looking now at a future climate that's beyond anything we've considered seriously in climate model simulations," Christopher Field, founding director of the Carnegie Institution's Department of Global Ecology at Stanford University, said at the annual meeting of the American Association for the Advancement of Science (Feb 15<sup>th</sup> 2009).
- "Unexpectedly large amounts of carbon dioxide are being released into the atmosphere as the result of "feedback loops" that are speeding up natural processes".

## ISSUES



## 2. Depletion of Coastal Zone and Marine Ecosystems a coastline being damaged



2004 - 2008



Photos by Dr Fei Tevi (PCC)





2004 - 2008











## 4. Eroded Human Settlements

Houses collapsing on Ontong Java as water levels rise causing sea erosion

# CAUSES

## **CAUSES**

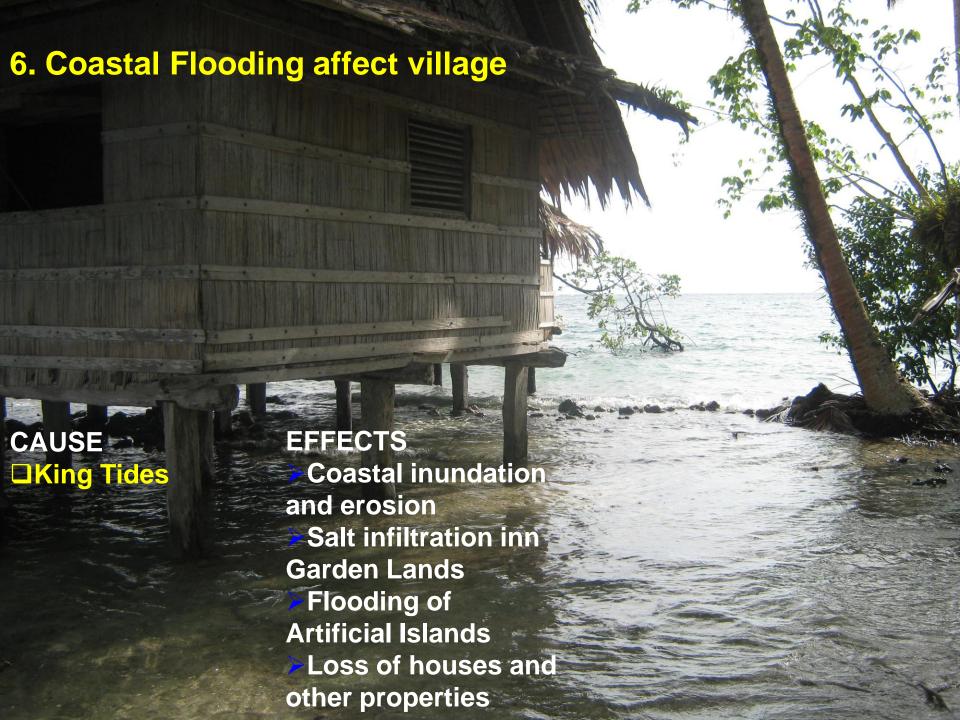
sea level rise and intense storm surges affect two Ontong java communities.

### **EFFECTS**

- Parts of villages eroded away
- People finding space for building houses
- ➤ People favour *relocation*



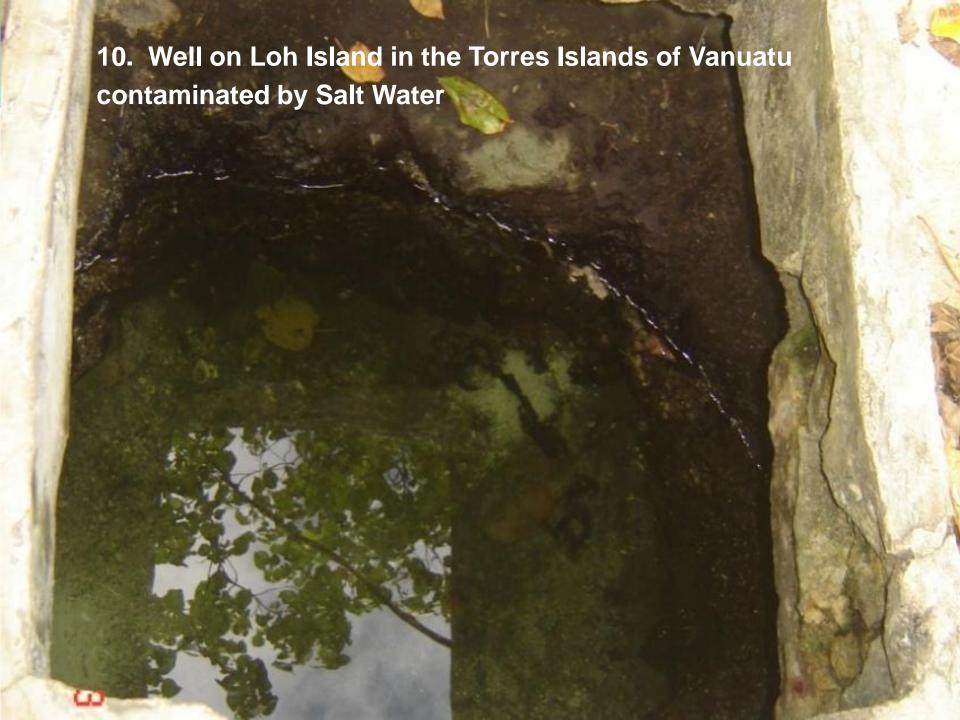
**❖Several reports such as The Ontong Java High Swells Assessment Report(2008), The Solomon Islands NAPA Report (2008), ACOM Food Security Report (2010), The Vulnerability and Adaptation Assessment (2011), and other report of earlier periods, have all implicated the adverse effects of the impacts of climate change** 



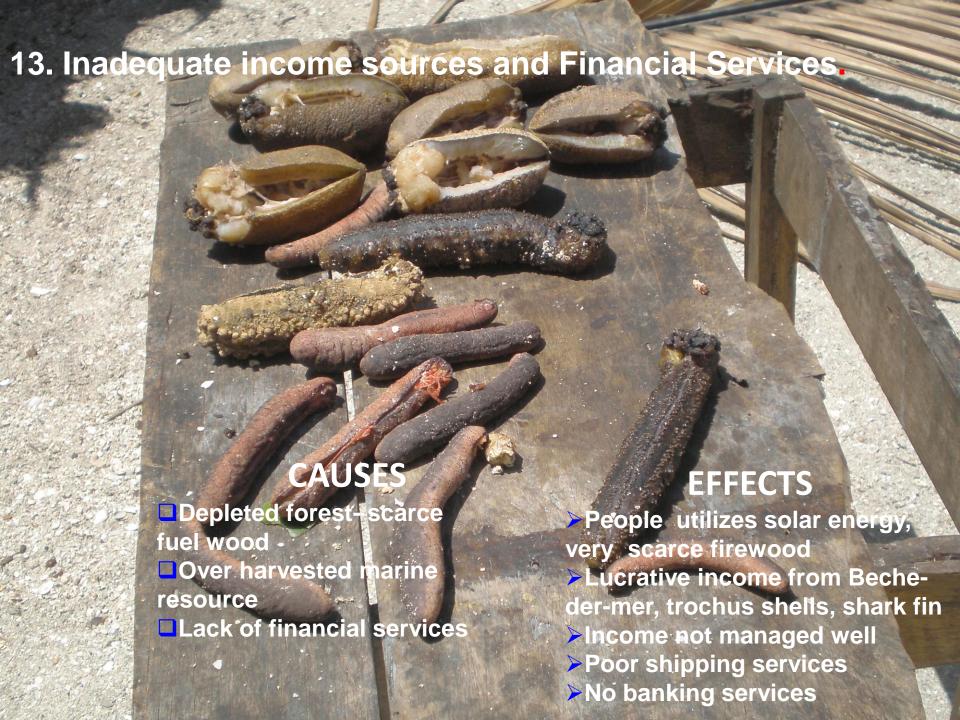








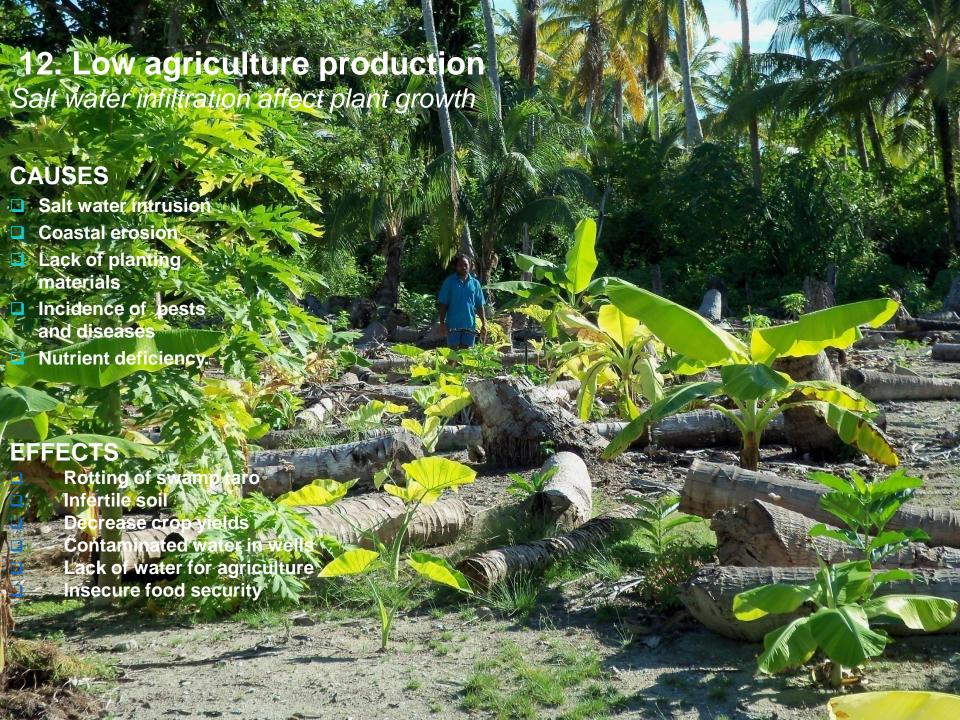




Health risks - such as an increase in vector and water borne diseases caused by warmer temperatures.

slide - Pcc





## **ADDRESSING FOOD SECURITY**

## FOOD SECURITY ASSESSMENT (2010)

### **Problem**

Core problem

**FOOD** 

**INSECURITY** 

**Effects** 

### **Solution**

Strategies

**Core Solution** 

**FOOD** 

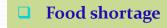
**SECURITY** 

Outcome

Salt water Intrusion and infertile soil

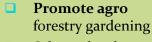
**Root Causes** 

- low
  agriculture
  production
- Inadequate income sources
- Difficult to save income
- Unreliable shipping/com munication
- High cost of food



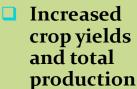
- Vulnerable to nutritional diseases
- Migrating
- Import food
- Immature harvesting of swamp taro crops
- Water wells contaminated with salt

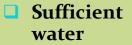
Hungry



- Select salt tolerant crops
- Develop
  appropriate
  gardening
  technologies
- Access to good source of planting materials
- Acquire literacy on finance and management
- Improve shipping and communication
- Reduced food costs
- Good source of fish
- Provide water catchment and storage















### **Lead Farmers**

Four Lead Farmers were recruited and trained on:

Effects of climate change

Effects of salt water intrusion

Salt resistant crops

Need to diversify crops

Need to improve water catchment and harvesting

Legume plants

**Green manuring** 

Composting and mulching

New appropriate technologies

Agro forestry

**Atoll Permaculture** 















#### **Crop Plantings and Progress**

- Currently plantings is carried out at Luaniua.
- 16 species of crops are identified and are being incorporated in the Atoll Permaculture design. Some are good salt tolerant while others need raised beds and heavy mulching. They include tree, root, fruit and vegetable crops.
- Several legume trees and vines are being tried:
- Lusina ( Lucaena leucocephala)-successful
- Gliricidia (Gliricidia sepium)- not good.
- Siratro- not good
- Centro (Centrosema pubescence) -not good

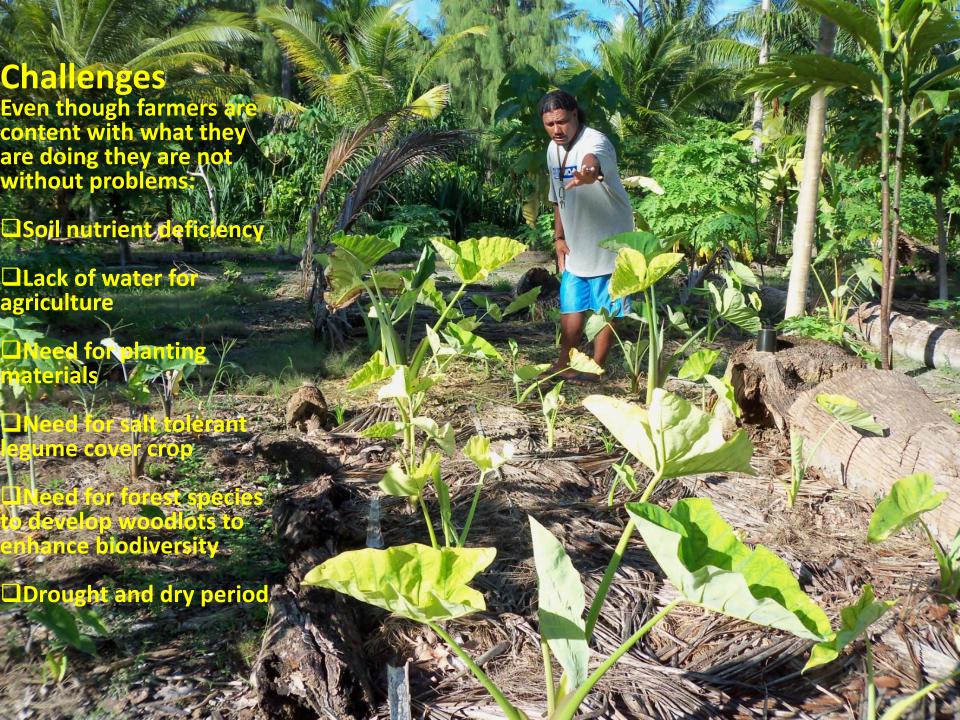






















- ❖Advocation and education on climate change variability and their impacts on the people, livelihood, and the environment.
- ❖Improve water harvesting by supplying water tanks for the communities to address water issue. Coordinated in manner like 3 families per 1000 gallon tank.
- ❖Build on the existing foundation set up by Anglican Church of Melanesia climate change Food and Water Security Project
- ❖Disaster risk reduction planning

❖Disaster response planning

❖Disaster relief supplies

## Short term strategies

- ❖Training of Communities on C B D R Reduction
- ➤C. B .D. R. R. Training
- ➤ Increasing Food Production

#### Medium Term strategies

- ❖Increase Food Production
- ➤ Develop new sustainable farming systems
- ➤ Use salt tolerant crops

- Capacity building for agriculture and economic development
- ➤ Agriculture training
- Financial literacy training

- ❖Start work on long term planning and implementation
- Education and Training
- → 'Satellite Farming Centres'
- **≻**Relocation

### Long Term strategies

**❖**CONTINUED DIALOGUE WITH OTHERS

- Planting trees especially mangroves to reclaim lost lands, prevent erosion, nourish the land.
- Use of approppriate technology e.g solar

# Policy Advocacy & Leadership. PCC STRATEGIES

- Resolutions of the 9<sup>th</sup> Assembly of the Pacific Conference of Churches
- Alignment with position with the Association of Small Island States (AOSIS)
- Alignment of position with the Pacific Islands Forum Action Plan on Climate Change (PIFACC)
- Appeal to Anglican Alliance to advocate on CC issues and impacts.

### Community Engagement (PCC RESOLUTIONS)

- Promotion of Green Churches....Diocese of Polynesia
- Action Plans on Climate Change of the various Churches (KPC, UCPNG....)
- Resettling communities (CCPNG, UCSI, PCV....)
- Addressing coastal erosion (MCF&R, EPM, FWCT, TNCC, UCSI, KPC, EKT, UCCMI...
- Cooperation with national gov'ts. (CICC, KPC, PCV etc...)
- Christian Conservation (MCF&R (Viwa)
- Replanting scheme for mangroves (KPC)
- Carbon footprint scheme (KPC)

### **Current model in crisis**

- CC effects highlight the inconsistencies of current economic models
  - Scarcity of resources and limited availability
  - Unabated consumerism and exploitation of natural resources
  - Hard driven competition for scarcity of resources and "sustained" growth
  - Individualistic outlook on life
- Looking for Science and technology solutions to maintain a lifestyle

# ADDED VALUE OF THE ANGLICAN CONTRIBUTION

- Focus on adaptation and mitigation efforts of Anglican community in the Pacific
  - COM communities in Solomon Islands, Vanuatu and New Caledonia
  - Diocese of Polynesia efforts in Samoa, Tonga and Fiji
- Support for resettlement dialogue process
- Support for Pacific churches disaster management concept.
  - Concept design: collaboration effort CWS USA & PCC
  - Potential wider reach
- Prophetic nature of the church to find a new way of life

# Towards a development & sustainable model....

- What type of economic and development model will enable us to be good stewards of God's creation??
  - McKibbon: earth economy
  - Sally McFague: ecological economics
  - Island of Hope: spirituality and the environment
    - Theology of vanua & the seas
    - Holistic approach to life and community
- Bishop Winston Halapua: Waves of God's Embrace: theomoana theology: quote p.94.

# OUR CALL TO THE ANGLICAN ALLIANCE

Let us embrace our

### **Mutual Vulnerability**

Let us embrace our

### Accountability to Each Other

Make real our commitment to

# the poor and the vulnerable of our communities

ADAPTED FROM PCC.

### Questions

#### Question 1

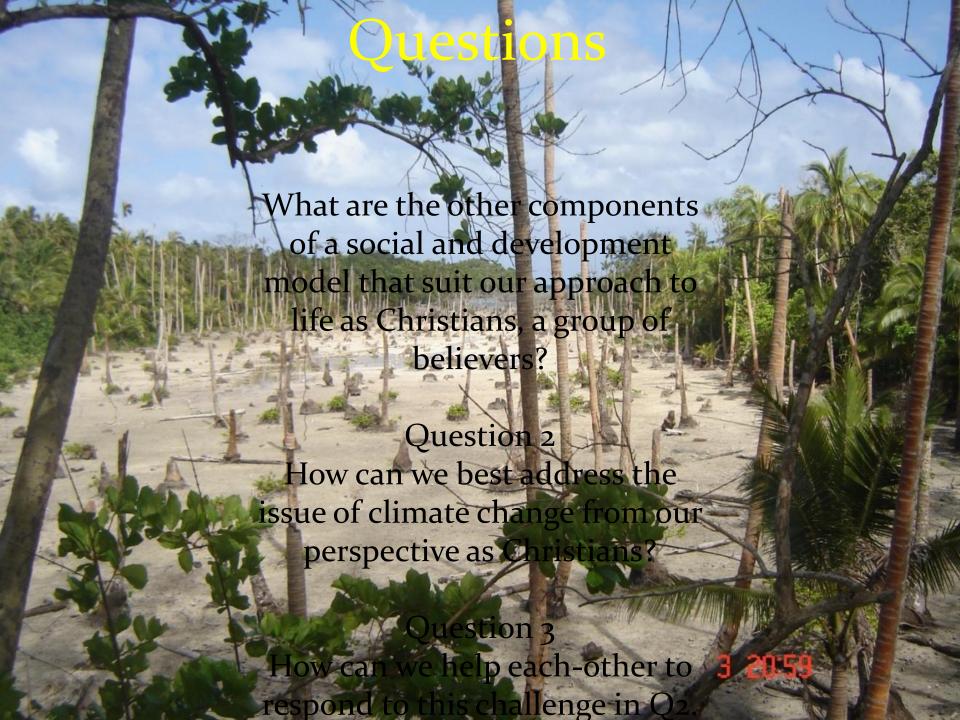
What are the other components of a social and development model that suit our approach to life as Christians, a group of believers?

#### Question 2

How can we best address the issue of climate change from our perspective as Christians?

Question 3

How can we help each-other to respond to this challenge in Q2.



### **ACKNOWLEDGEMENTS**

- Pacific Conference of Churches
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- Climate Change Committee ACOM

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REV JOHN COLERIDGE SOVAN

