

# PACE-NET Plus Bremen Conference and Think Tanks

September 9-11, 2014 | Bremen (Germany)

## Enhancing community resilience: managing environment, water and wastes under a changing climate



### Think tank 3

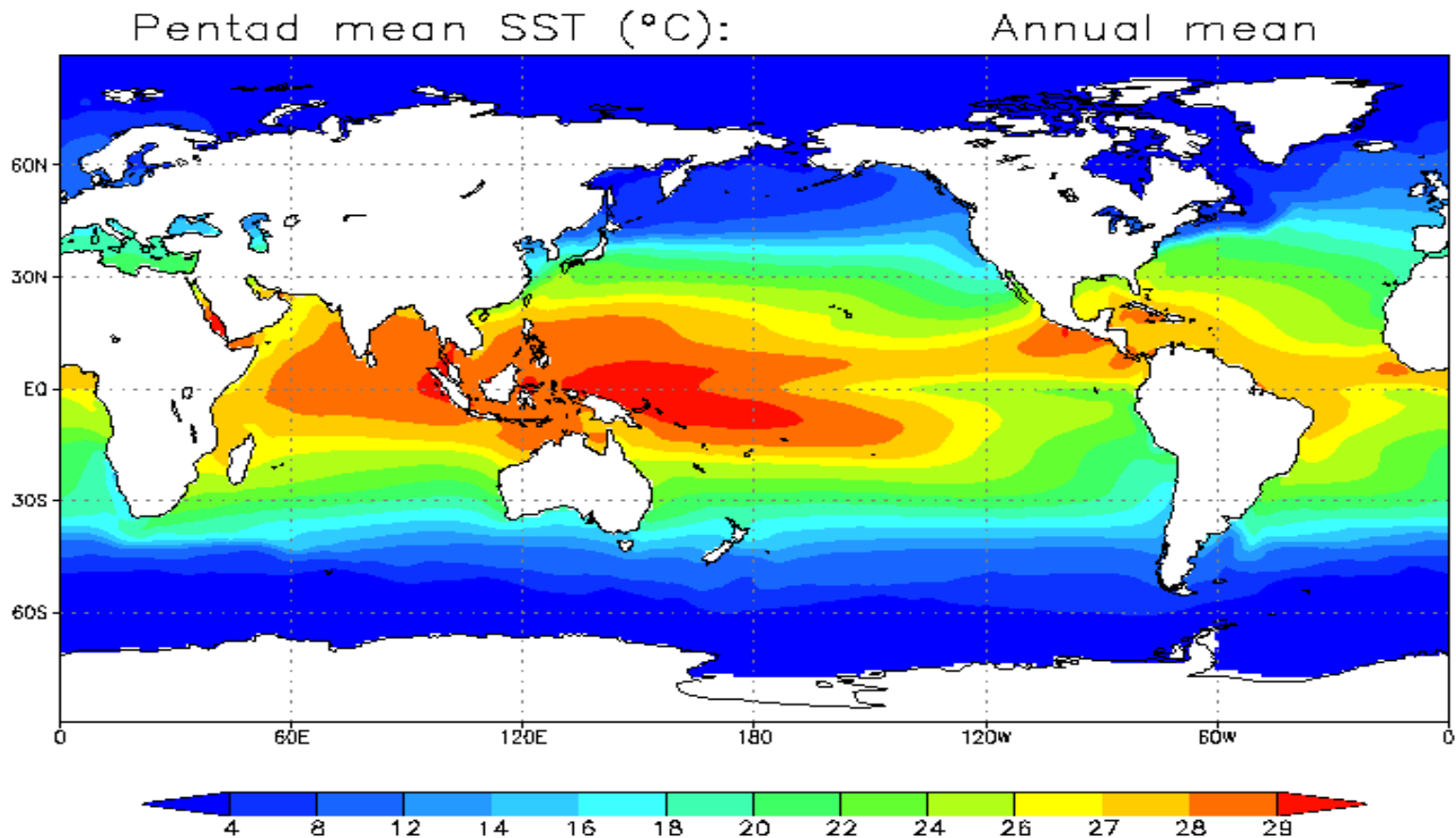
# Presentation Plan

## Think Tank 3: **Enhancing community resilience: managing environment, water and wastes under a changing climate**

1. Thematic scope background
2. Think tank vision and objectives
3. Priority areas
4. Recommendations to policy-makers (EU/Pacific)
5. Proposed actions/initiatives

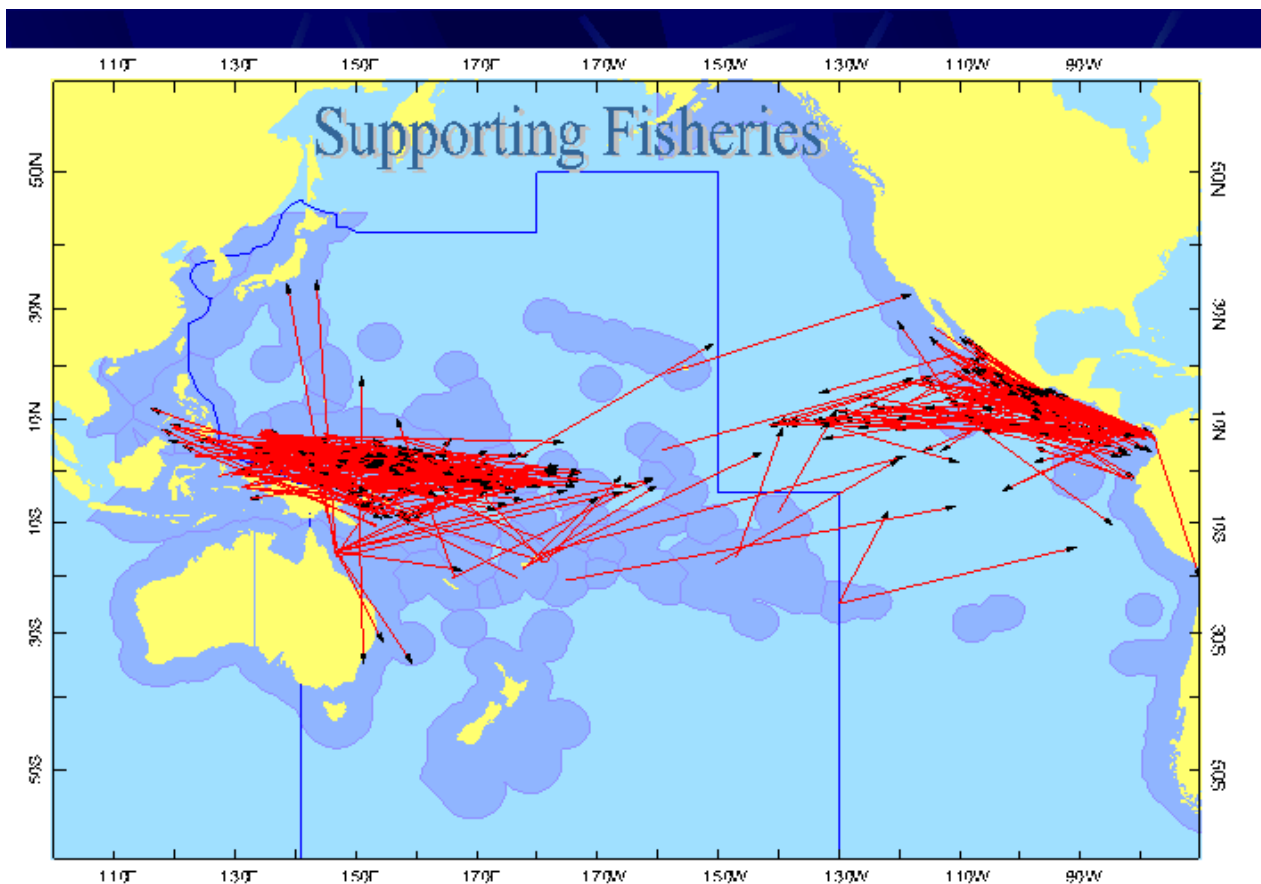


# 1. Climate change in the Pacific Ocean





# 1. Climate change in the Pacific Ocean



## 2. Characteristics of Pacific islands

- Competition for scarce resources (e.g. water, land, fish)
  - Small islands, large oceans, extreme remoteness
  - Fragile and diverse environments and cultures
  - Extreme climate events
  - High climate variability
  - Variable population densities
  - Polluted land and coastal waters
  - Large waste loads
- need to be able to **prepare communities** for, and **enhance their capacity to bounce back** from, extreme events and other risks



**Island waste disposal site, Kiribati**  
Photo: Faainu Latu, NUS

# 3. Think tank thematic scope

- Exploration of:
  - **knowledge** necessary to develop **human and ecological community resilience**
  - **policies** and **practices** required for mitigation of impacts and adaptation to changing climates
- Specific areas of resilience management interest:
  - **Environment and environmental change**
  - **Water**
  - **Waste**



## 4. Vision and Objectives

- **Priority on sustainable development the Pacific way**

There is a need to:

- effectively address water and food security (cross-cutting links to health, waste, energy, biodiversity)
- improve management of resources and governance
- maintain and develop Pacific livelihoods
- promote the importance of the Pacific to the EU and global community (Policy makers / scientists / innovators /others)



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## 5. Priority Areas

**Waste, water,  
sanitation and  
water-borne  
diseases**

**Climate  
change  
adaptation  
and mitigation  
technologies  
and  
processes**

**Data  
observation  
and linked  
research**

**Sustainable  
development  
and enhancing  
community  
resilience**

**Education,  
training,  
capacity  
building and  
awareness  
raising**

**Governance  
processes:  
resource  
management  
and power  
distribution**





## 5. Policy recommendations

Noting the importance of:

- The Pacific ocean as a significant driver of global climate
- Recognising and maintaining biological and cultural diversity and value
- Securing community involvement in STI development (youth, traditional knowledge owners, etc.)
- Baseline data for decision-making and action, and its current lack thereof in the Pacific

## 5. Policy recommendations

We recommend:

- Pacific protocols for data management, access and sharing be developed, drawing on lessons of EU protocol implementation
- Project pre-financing and seed-funding to develop effective project partnerships be encouraged
- Better coordination of research and development activities within PICTs and the region
- Taking advantage of policy learning to fast-track policy development and resulting sustainable development outcomes

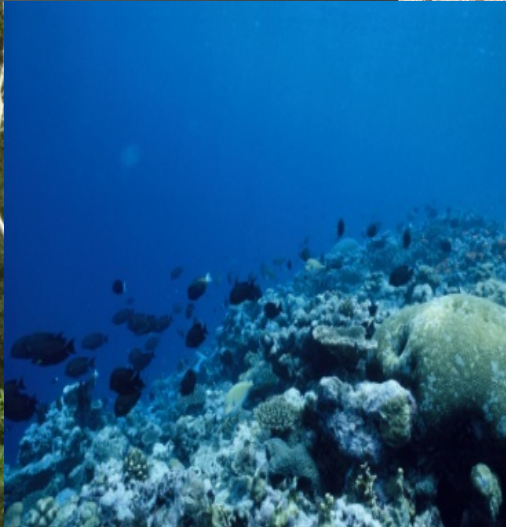
## 5. Policy recommendations

And we recommend:

- Pilot projects or experiments of processes and technologies to help develop effective wider policies and projects
- The Pacific approach to developing policy that maintains equity and community sharing is used
- Development of supporting policies for climate initiatives and technologies (e.g. REDD schemes, payments for ecosystem services)
- Increasing the visibility of Pacific importance for ST&I in Europe linked to global climate change, biodiversity and food security

## 5. Proposed actions and initiatives

- Seek to adhere to the following criteria:
  - Relevance to EU policies and strategic ST&I priorities (where aiming for Horizon2020)\*\*
  - Relevance to Pacific sustainable development agenda
  - Community partnerships approach (including in project design, implementation and evaluation)
  - Clear staged implementation to limit risks of project failure and check cultural and physical fit
  - Clear data access and sharing arrangements, including for traditional knowledge



## 5. Proposed actions and initiatives

- **Building cultural understanding for effective ST&I:** To prepare both EU and Pacific researchers and Pacific communities for cross-cultural engagement through short term placements
- **“My-village” game application:** an innovative platform and research opportunity for engaging youth in sustainable development issues
- **Sustainable management of resources under a changing climate:** community assessment of intangible ecosystem values in addition to economic valuation to inform decision making
- **Open academy of change:** piloting a participatory approach to community to cabinet change and innovation for intractable problems

## 5. Proposed actions and initiatives

- **Pathways to Island Energy and Food independence:** conversion of waste to valuable resources (e.g. energy, compost for food production)
- **UAV Based technology for the surveillance of EEZ of Pacific Island Countries:** using drones to patrol large ocean expanses, for example to monitor illegal fishing or waste dumping
- **Scenario development pathways to water security:** Pacific-wide cross-sectoral data gathering and projections of water use and availability
- **Climate Services provision:** Creation of a knowledge hub for climate adaptation and data use potential at the National level
- **Better understanding of the Pacific Ocean:** To provide robust data, baseline and modelling (long-range forecasting) to be able to support understanding of the impacts on Pacific and Global climate change

## Thank you from the project team



*Tenkyu tru (PNG)*

*Kia ora (Maori)*

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*Tankyou tu mas (Vanuatu)*

*Tubwa kor (Nauru)*

*Fa'afetai télé lave (Samoa)*

*Tubwa Kor (Nauru)*

*Ko'rabwa (Kiribati)*

*N'de me braweao (Paici-NC)*

*Malo 'aupito (Tonga)*

*Merci Beaucoup, ... ,*

*Thanks mate*