

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

PACE-NET PLUS



PACIFIC-EUROPE NETWORK FOR SCIENCE, TECHNOLOGY AND INNOVATION

Think tank 3

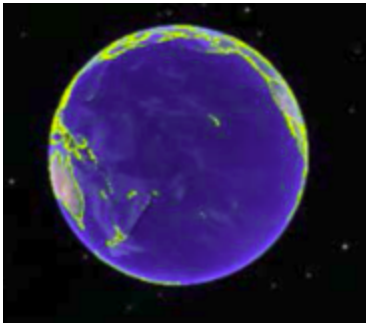
Presentation Outline

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

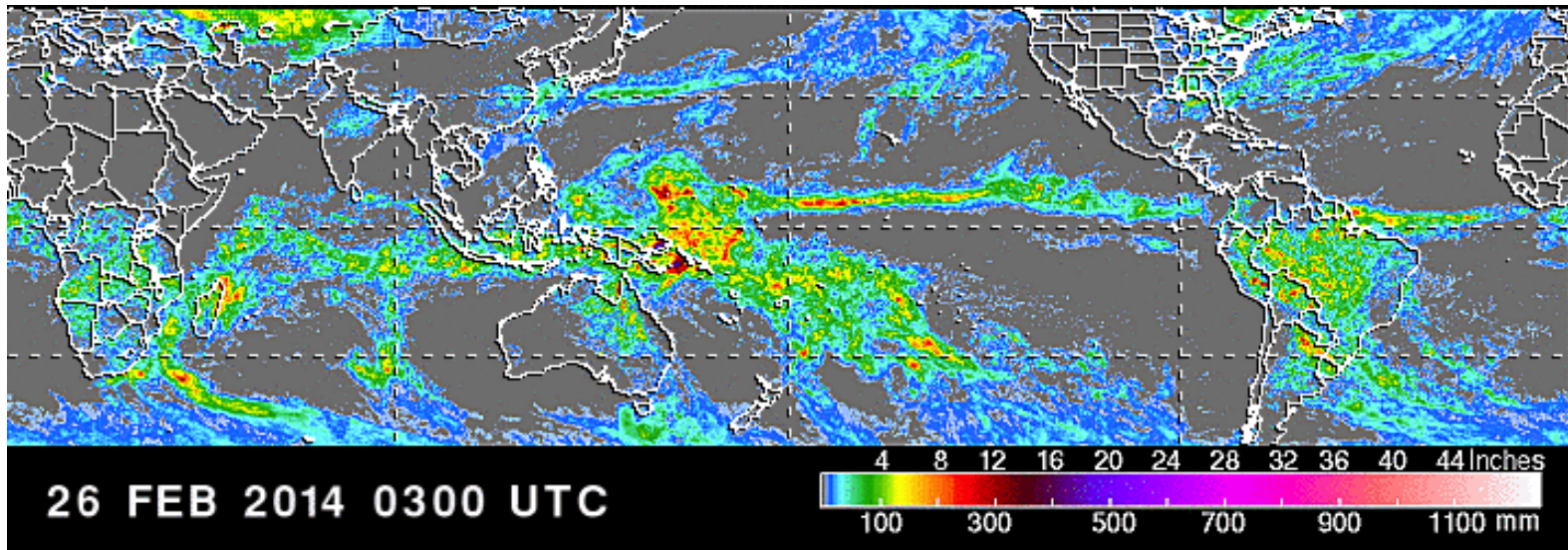
1. Thematic background and scope
2. Think tank vision and objectives
3. Priority areas
4. Recommendations to policy-makers (EU/Pacific)
5. Proposed actions/initiatives



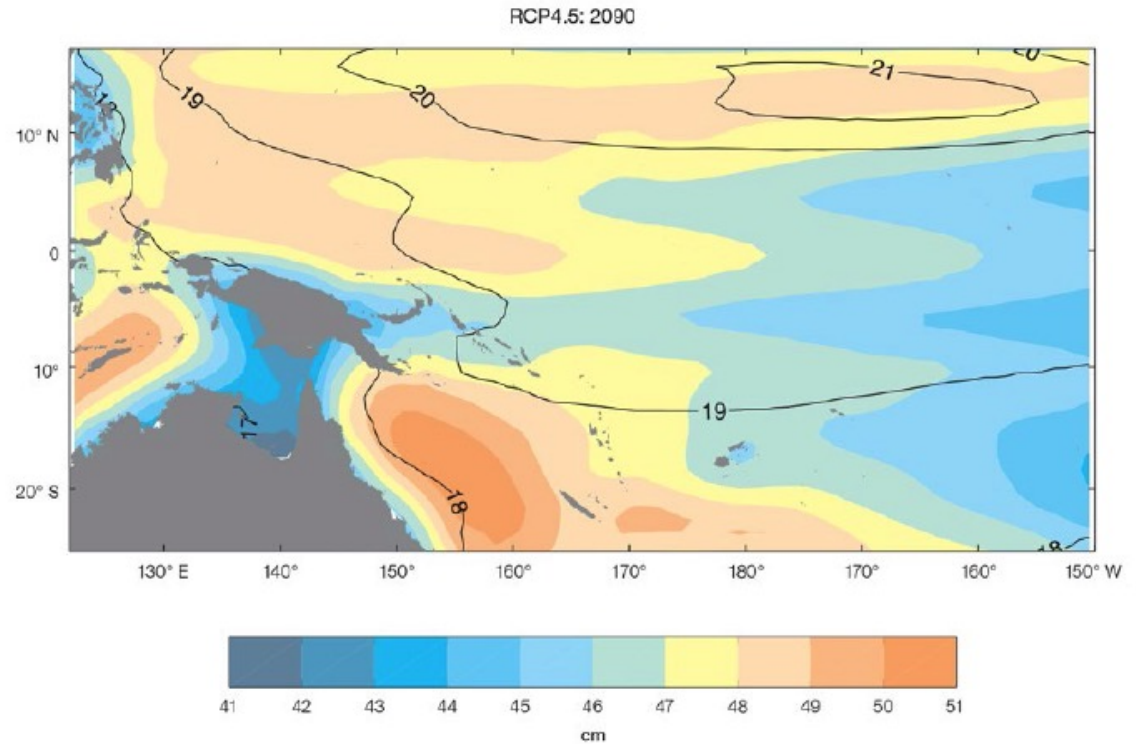
1. Climate and the Pacific



- Complex
- Diverse
- Globally Important



1. Climate change and Pacific



Projected Sea Level Rise 2090 (BoM & CSIRO 2014)

1. Pacific challenges

- **Climate change** and sea-level rise represent the gravest threat to the survival and viability of small island developing States.
- Small island developing States face numerous challenges with respect to **freshwater resources**, including pollution, the overexploitation of surface, ground and coastal waters, saline intrusion, drought and water scarcity
- Environmentally sound **waste management** is crucial for human health and environmental protection

Outcome UN General Assembly

Third International Conference on Small Island Developing States

Apia, Samoa 1-4 September 2014

1. Think tank thematic scope

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

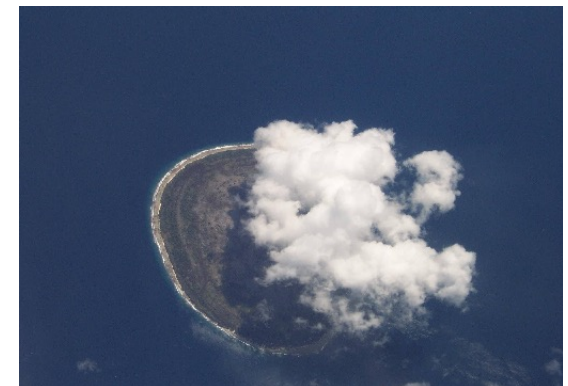


2. Vision and Objectives

- Sustainable development the Pacific way

Objectives to:

- address **water and food** security
(cross-cutting links to health, waste, energy, biodiversity)
- improve **management of resources and governance**
- **maintain and develop** Pacific livelihoods
- increase **effectiveness** of donor programmes
- promote the **importance of the Pacific** to the EU and global community



3. Priority Areas

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

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

**Data
acquisition
and linked
research**

**Sustainable
development
and enhancing
community
resilience**

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

**Governance
processes:
resource
management
and equity**

4. Policy recommendations

Noting the importance of:

- The Pacific ocean as a **major driver of global climate**
- Recognising and maintaining **biological and cultural diversity**
- Building **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

4. Policy recommendations

We recommend:

- Pacific protocols for **data management, access and sharing** be developed, drawing on lessons from EU
- 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 sustainable development outcomes

4. Policy recommendations

And we recommend:

- **Pilot projects** or experiments of processes and technologies to help develop effective wider policies and projects
- Use of the Pacific approach to developing policy that maintains **equity and community sharing**
- Development of **supporting policies** for climate initiatives and technologies (e.g. 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 ensure cultural and physical fit
 - Clear data access and sharing arrangements, including 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 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
- **Development pathways to water security:** Pacific-wide cross-sectoral data gathering and projections of water resources, use and availability
- **Climate Services provision:** Creation of a knowledge hub for climate adaptation, data use and projections at the National level
- **Better understanding of the Pacific Ocean:** To provide robust data, baseline and modelling (long-range forecasting) to support understanding of the impacts on Pacific and Global climate change

Thank you from the project team



Tenkyu tru (PNG)

Kia ora (Maori)

Vinaka Vaka Levu (Fiji)

Mauruuru (Tahiti)

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

Project partners

