PACE-NET Plus Bremen Conference and Think Tanks

September 9-11, 2014 | Bremen (Germany)

Exploring the convergence of science and traditional knowledge in aqua- and agriculture for sustainable, healthy living in the 21st century



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Presentation Plan

Think Tank 2: Exploring the convergence of science and traditional knowledge in aqua- and agriculture for sustainable, healthy living

- Specific vulnerability of Pacific Islands
- Sources of strength and resilience
- 3. Think tank thematic scope
- 4. Think tank approach







1. Specific vulnerability of Pacific Islands

The Pacific Islands face particular vulnerability of aqua- and agriculture to climate change and variability due to location-specific challenges:

- Small sizes of islands, relatively small human population sizes coupled with limited renewable land-based natural resources: does not favour broad-based and diversified agricultural development
- Highly dispersed (geographical isolation) in the Pacific Ocean:
 challenges in air and sea transport, and associated economic activity
- Much of land mass is coastal and low-lying, exposed to climate extremes, including tropical cyclones, high sea tides and sea level rise
- Proximity to the Pacific Ring of Fire and associated threats of tsunami

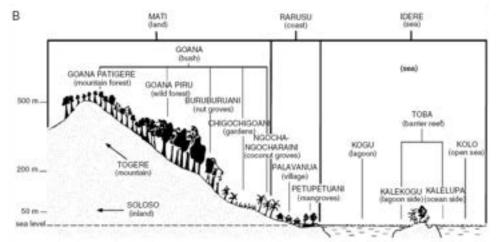


2. Sources of strength and resilience

 Pacific Island communities have over millennia developed a rich culture and knowledge base that enabled them to thrive physically and spiritually in environments characterized by finite resources and environmental

uncertainty





Hviding and Bayliss-Smith 2000





bloa.bishopmuseum.ord

3. Think tank thematic scope (1)

Thematic areas:

- Climate-resilient agricultural practices to support nutrition and human well-being:
 - Changing dietary patterns in the EU and Pacific, their drivers, and influences on nutrition
 - Trade-offs between improved production and resilience in terms of genetic diversity and responses to environmental variability
 - Advances in knowledge on agroforestry, bioagricultural diversity and pest management that support traditional agricultural practices in the Pacific





3. Think tank thematic scope (2)

Thematic areas:

- Linking island microclimate, water and soil management to improve agricultural practices and resilience:
 - State-of-the-art in microclimate assessment and modeling
 - Advances in integrated soil and water management
 - Ridge-to-reef governance
- Integrated multi-trophic aquaculture (IMTA):
 - Recent advances in tropical closed-circuit and IMT aquaculture
 - Quality-control and infrastructural requirements
 - Potential target species: culture requirements, nutritional value and acceptance





4. Think tank thematic scope (3)

- Cross-cutting issues among the three Think Tanks:
 - Climate-resilient pathways
 - Human wellbeing and nutrition
 - Innovation and innovative technologies







5. Think tank approach and objectives

- Use your collective knowledge to identify needs and gaps in current research, policy, development, and innovation programs
 - Build on previous work (e.g. PACE-Net agriculture and aquaculture policy briefs, existing multi-lateral and national projects/programmes)
 - Concentrate on areas where EU-Pacific collaboration would be mutually beneficial
- Build understanding and potential collaborations in an open, creative, interactive and respectful environment
 - Try to identify priority areas and initiatives YOU would like to work on and could lead with support of others in the group









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Thank you from the project team





