

PACE-NET Plus Bremen Conference and Think Tanks

September 9-11, 2014 | Bremen (Germany)

TT2: Exploring the convergence of science and traditional knowledge in aqua- and agriculture for sustainable, healthy living in the 21st century

PACE-NET PLUS



PACIFIC-EUROPE NETWORK FOR SCIENCE, TECHNOLOGY AND INNOVATION



Priority Groupings

- 1. Aquaculture
- 2. Climatic resilient agricultural practices & Linking island micro-climate (water and soil management)

Cross-cutting:

- 3. Tenure, Intellectual Property Rights, Convergence of traditional knowledge and western science
- 4. Context-responsive policies



Cluster 1: Aquaculture

Activity: Research Centre for Pacific Aquaculture (USP)

Important Elements:

- R&D, Community & Industrial Partnerships and Capacity building to effectively drive aquaculture development in the Pacific
- Focus on EU and Pacific post-graduate and post-doctoral positions to drive innovative research
- Work on aquaculture species for food security & cash crops to provide socio-economic outcomes



Rationale

- Innovation via:
 - Aquaculture Planning
 - Key species development: sea cucumber (beche-de-mer), tuna, integrated multi-trophic aquaculture, tilapia, algae and others
 - Value chain analysis
 - Examination of genetic resources available
 - Holistic approach – policy, planning, socio-economics, post-harvest and processing, aquatic health and biosecurity
 - Effects of climate change on future aquaculture development

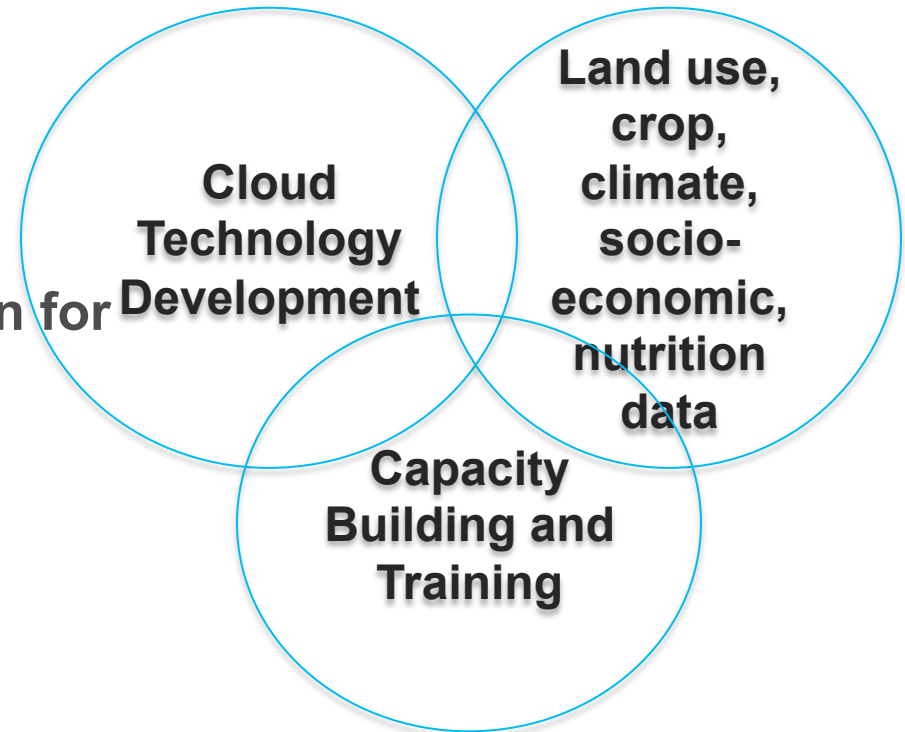
Cluster 2: Climate resilient technologies/practices

Activities:

- Decision support tool for crop management
 - Cloud-based information system
 - Impact of climate change on agricultural practices (e.g. crop underutilized for climate change adaptation)
-
- Use of waste for adaptive, productive agrosystems

PACE eLINK – Pacific Europe eLink Innovative Network Knowledge

- **What, when, where, why, how – cropping systems in changing climate**
- **Timely availability and accessibility of adaptive cropping systems information for stakeholders**
- **Crop suitability and decision support tool**
- **Existing USP Cloud System and Pacific initiatives**





Benefits

- **Europe**
 - Knowledge creation and dissemination
 - Markets
 - Employment
 - Sustainable Technologies
 - Environment friendliness
 - One Server could be hosted in Europe
 - Technology transfer
- **Pacific**
 - Agriculture Sector
 - Researchers
 - Health Sector
 - Policy development and auditing
 - Stable agriculture productivity for livelihood



Cluster 3: Convergence of traditional knowledge and western science, Tenure, Intellectual Property Rights

Activities:

- Collection and use of plant genetic resources (traditional vegetables)
- Ethno-botanical knowledge database
- Native organic food security

Cluster 4: Context-responsive policies

Activity:

- Indicators for measurement of success (context-specific, sensitive to traditional knowledge and western science)

Converging Traditional Knowledge and Science to develop terrestrial and marine organic foodstuff pathways for economic and social wellbeing

- Learning from EU organic experience (farmers, policy, markets)
- Build sustainable organic markets between EU and Pacific
- Support Pacific capacity building through PhD's and Post-doc
- Reinvigorate traditional trade routes – through waka/vaka voyaging
- Identify crops and species for organic production
- Methodologically innovative through indigenous methodologies and diverse communities driven approaches eg: Maori organics group
- Aligns to think tank priorities of: convergence of traditional knowledge & science (indigenous methodologies), resource tenure for Pacific peoples, dev't of frameworks to support Pacific cultural & intellectual property rights & context responsive policies

Consortium approach with EU and Pacific and Aotearoa/NZ partners

Seed funding to support development of full proposal 5yr project

Benefit: contribute to EU and Pacific organic food and nutrition security



High level messages from TT2

Converging traditional knowledge and science: – defaulted back to the dominance of science – on going challenge to hold holistic knowledge at the forefront – need innovative methodological approaches to drive this convergence



5. Key messages

Food
security is
critical

Prioritization
constantly needed

Challenge of using
meaning and
interpretation of
'value' – challenge of
transcultural language

Policy focus needs to
be explicit in outcomes
generated from TT2:
Science to policy and
science to people

Genuine
commitment
to EU-Pacific
cooperation

Converging traditional
knowledge and science:
ongoing challenge to hold
holistic knowledge at the
forefront – need innovative
methodological approaches



Project partners

