PACE-NET Plus Bremen Conference and Think Tanks

September 9-11, 2014 | Bremen (Germany)

Marrying traditional knowledge and decision support tools for crop resilience in Pacific Island Countries



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- Our Realities and Challenges "If you could smell what the Rock is Cooking!!"
- Opportunities Think outside the Rocks and rocks

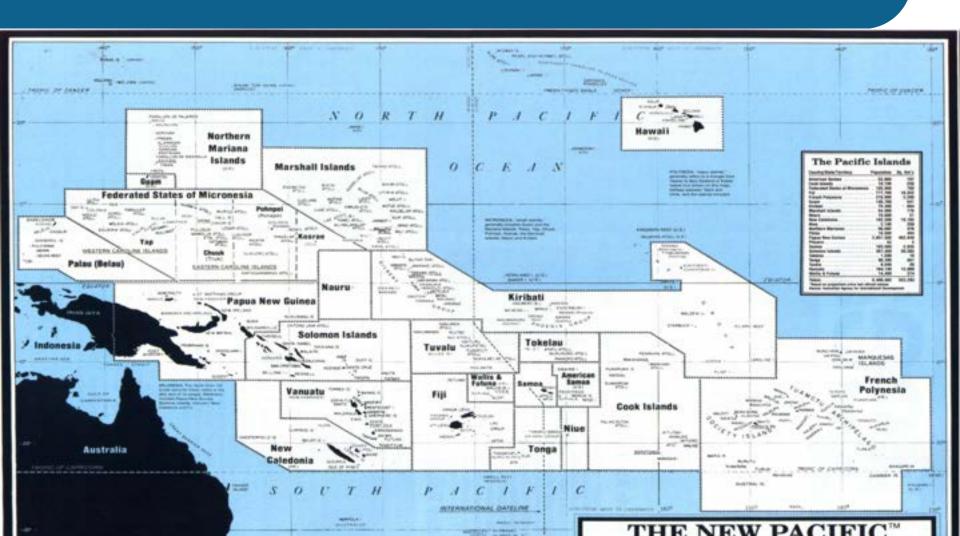




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Pacific Islands Context – The Rocks



Background Information (PICTs)

- All developing countries
- Total Land Area (Islands) 553,959 km² (PNG 80%)
- Ocean (LOS) 20 million km²
- Total Population Still counting
- High exposure to environmental, socio-economic heats
- Geo-political challenges
- Territories (French and English)
- 3 sub-regional (Melanesia, Polynesia, Micronesia)
- National, Regional, International interests







Climate change (one of the many rocks)

- Temperature is increasing (0.1-1°C since 1910)
- Rainfall no clear trend (but 70% rainfed)
- Sea level rise (0.6 2mm/yr since 1950) But level not even
- Extreme events increase in occurrence, intensity, frequency and variable distribution

- Reduction of crop growth (yield) (TK and CSM)
- Change in land use, cropping systems (TK and CSM)
- Seasonal shift (miscalculations)
- Food insecurity and loss of livelihoods (rural and urban)
- Always in a mode of recovery





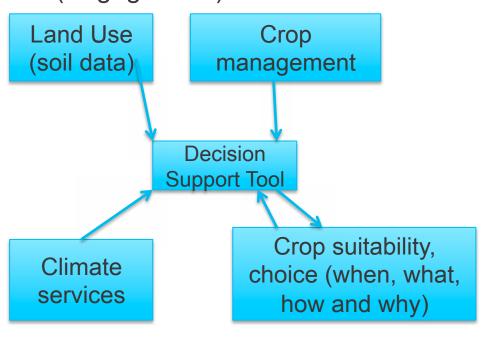




The Opportunities – Think outside the rocks

- Solution focused approach
- Identify and use the various tools – Traditional knowledge, modern science, financial mechanisms, human capacities
- Taro Leaf Blight story marrying TK and Modern Scientific Tools
- Proposed tool –Decision Support Tool

 App for decision making (Engagement)









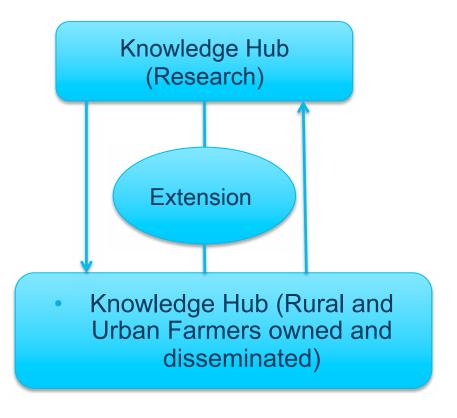
Research Prioritization

- Spearhead approach pool resources, share responsibilities, respond or proactive, avoid duplications (sharing of lessons learnt and best practices, durable partnerships, trans-disciplinary)
- Bush fire approach involvement of strategic groups, training of researchers, resourcing and drivers, sustainability
- How could the information from research reach implementing partners/stakeholders?





EU Knowledge Centres – lessons learnt











Research gaps

- Impact analysis of community food security projects (how various food security projects at the community or national level affect the livelihood of people, are they effective, efficient, sustainable or not?
- Understanding change in Land Use patterns and practices (all systems) of food production
- Domestication of wild crops/trees/ferns, animals that are more resilience for food security
- Validation, Calibration and Development of Crop models to assess impacts of Climate change and extreme events on food crops and maximize crop management options for adaptations
- The need to link vulnerability assessments to effective implementation (cost benefit analysis, opportunity costs)
- What is the real cost of food security? Fueling food security. Cost of access, availability, stability, utilization and health and safety.
- Are the Food Security interventions addressing the specific needs of PICs priorities or the one who "knows how to ask" gets rewarded/recognized? - national priorities (NAPA, Development Strategies etc)
- Assessment of National Food Security Policies (inc. legislations)









Final words

- Rocks and rocks existed more than 3000 years ago and they still are
- We need holistic smart approaches to act on rocks (Engagement, Marriage, Honeymoon, Children) Effective, Efficient, Sustainability
- Now is the best time to ACT
- "Challenges made men and women, men and women made nations"





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Project partners





