Pacific EU ST&I Cooperation & Innovation Niches

in Food Security, Sustainable Agriculture, Marine and Maritime Research and Bioeconomy



Presented by
Judith Ann Francis
Romain Leyh

(WP2)



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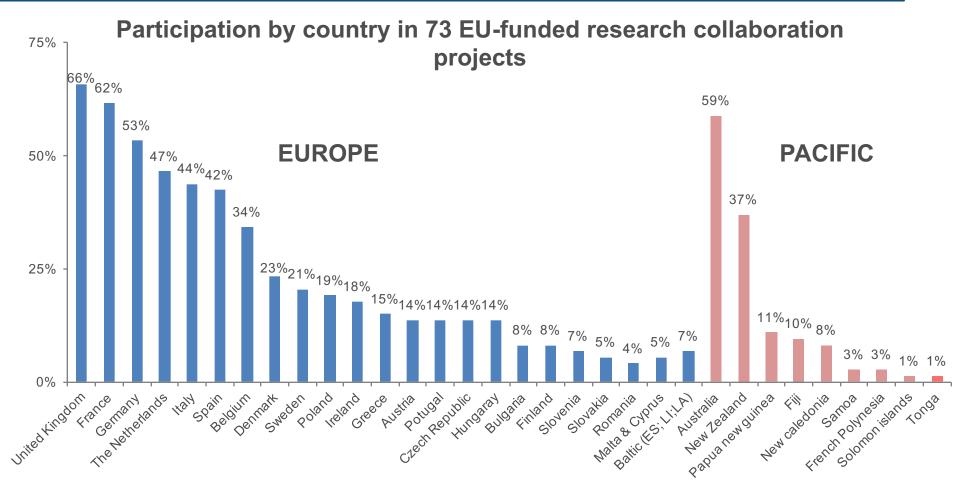
Overview

- Introduction
- State of the art PAC-EU Research Cooperation
- Innovation Niches for Future Collaboration





PAC-EU Research cooperation









PAC-EU Research Cooperation



- 94% of budget dedicated to projects with Australia and/or New Zealand as sole Pacific partners
- Low or uneven representation of PICTs; only 3 countries overwhelingly present:
 PNG, Fiji and New Caledonia due to possibly insufficient local capacity
- PAC-PAC research cooperation is higher than PAC-EU cooperation
- Discrepancy between research outputs and economic and sustainable development priorities.







PAC-EU Development Cooperation: EDF Funding



- No systematic monitoring of the outcomes
- Little relationship between EU research (FP) and development (EDF) funded-projects.
- Decreasing EDF budget allocated to the field of food security, sustainable agriculture, marine and maritime research and the bioeconomy

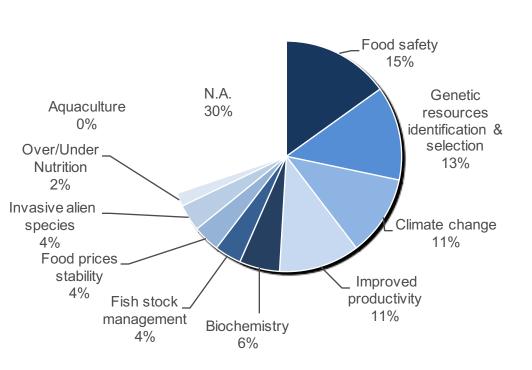






Innovation Niches- 53 completed FP PAC-EU Projects

Distribution



- 1. Food safety
- 2. Genetic resources
- 3. Climate change
- 4. Improved productivity
- 5. Biochemistry
- N.b. Zero collaboration on Aquaculture







Innovation niches: Bremen Think Tank

Innovation niches	Example	
Fish stock management	Remote sending tracking;	
Aquaculture	Tuna breeding/ hatchery	
Genetic resources identification and selection	improved varieties from indigenous stock; preservation of genetic diversity	
Invasive alien species	ICT monitoring, DNA barcoding	
Bioenergy	Increasing oil content in oil seed	
Over/Under Nutrition	Nutrient dense local foods	
Food safety	Mycotoxin	
Food prices stability	Energy efficient transport system	
Improved productivity	Integrated agricultural production systems	
Climate change	Root nutrient uptake improvement	







Validation of Innovation Niches: Stakeholder survey

Innovation Niches	score scientists & policy makers	score farmers
Climate change	4,4	4,5
Improved productivity	4,3	4,5
Over/Under Nutrition	4,5	4,3
Food prices stability	4,3	4,3
Genetic resources identification and selection	4,3	4,3
Invasive alien species	4,0	4,3
Food safety	4,3	4,2
Aquaculture	4,2	4,2
Biochemistry	3,9	4,1
Fish stock management	4,2	3,9



Limitations for Innovation Niches

- Inadequate Funding and investments to support ST&I activity in PAC
 - N.b Willingnessof private sector and farmers in the PICT to partner with scientists and technical experts and support research, value addition and business development
- Little collaboration between scientists and other groups of stakeholders in STI
 - 23% of farmers has been involved in research during the last 3 years
 - 75% want to get involve in research in their area
- Limited local scientific and technical capacity, to compete in research partnership, to reach the expectation of business development







Drivers for innovation

- Strengthen collaboration within and across research /scientific community and with farmers and the business community
- Creation of an enabling environment including national and Pacific regional STI policy and IPR framework to facilitate knowledge generation, transfer and optimization; bearing in mind that there is need to adapt the Western IPR model to the Pacific socio-economic and cultural context
- Make **funding** available for research and innovation explore innovative funding mechanisms (e.g. seed funding) and develop research infrastructure





Seed funding presentations

- Pacific Food Matters: Converging Traditional Knowledge Solutions with Ecological Science for Climate Resilient Local and Global Food Security. (J Hutchings, NZCER)
- The Role of Geospatial Information for Assessing Environmental Livelihood Security in the South Pacific. (E Bruce, UoS)
- Pilot inventory of traditional knowledge of ciguatera fish poisoning and its treatment (J Lako, USP)
- Indigenous food crops to address community well-being, food security and climate change (S. Wossa, Univ. of Goroka)





PACE-NET Plus Consortium





