PACE-NET Plus Platform
of bi-regional policy dialogue
Brussels, 23-24 June 2015

# PAC/EU cooperation status & Agric-aquaculture, food security Think Tank

PACE-NET PLUS
PACIFIC-EUROPE NETWORK FOR SCIENCE, TECHNOLOGY AND INNOVATION

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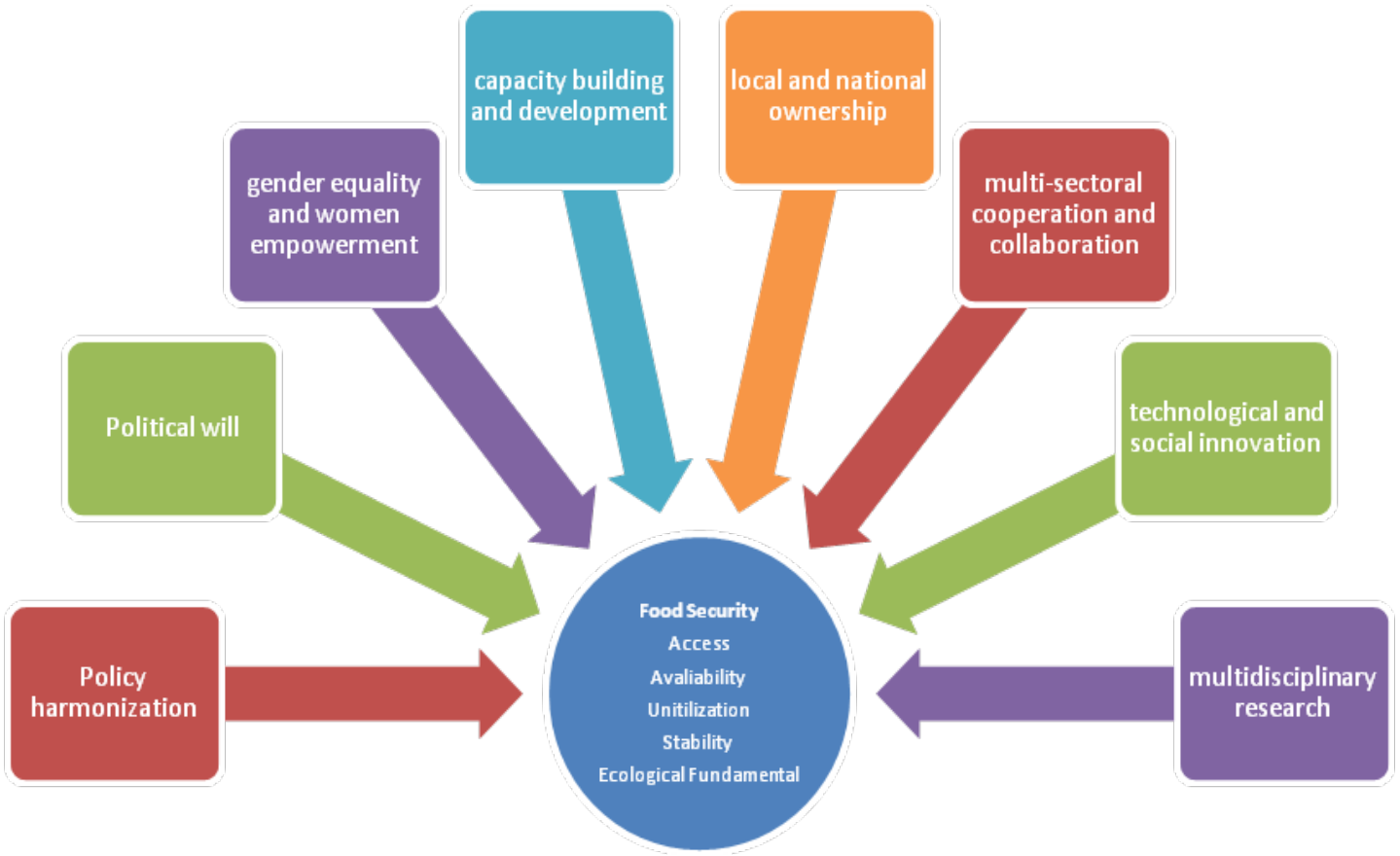
CTA

# Overview

- Food and Nutrition Security (FNS)
- PAC-EU FNS  Research Cooperation
- Think Thank Outcomes
- Innovation Niches

PACE-Net Plus is a project funded by the European Commission to reinforce EU-Pacific cooperation on Science, Technology & Innovation, and to promote the development of mutually beneficial partnerships. Grant agreement n° 609490.

# Food & Nutrition Security (FNS)

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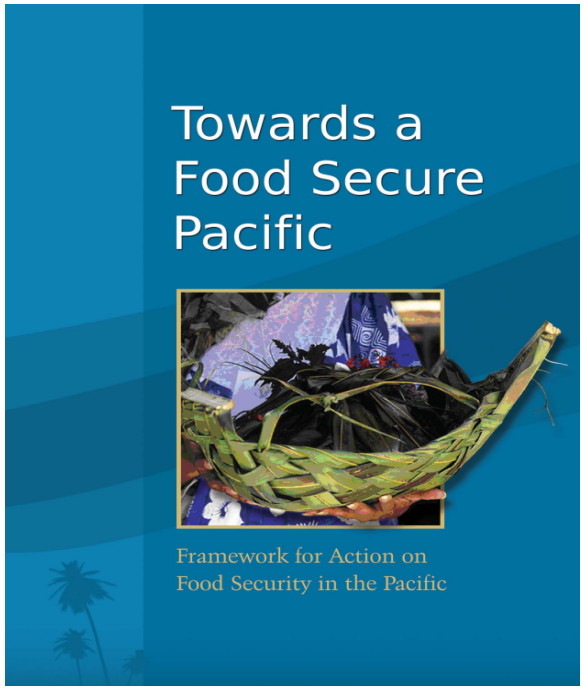
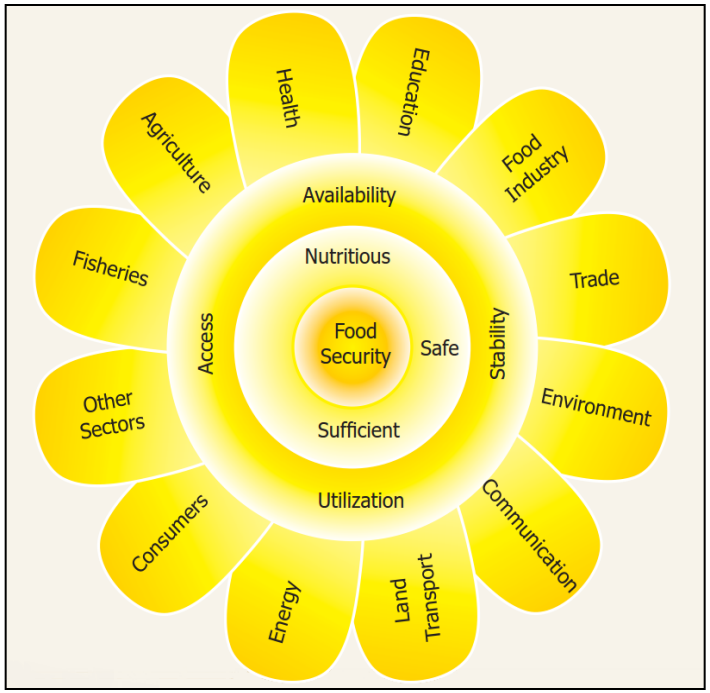
# FNS in the South Pacific




n.b. **43% of scientists interviewed (in CTA/PIURN, 2015 Fiji workshop) were not familiar with the Pacific Food Security Policy Framework**

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# FNS and Agricultural Innovation

- **An Agricultural Innovation System is *a network of actors or organisations, and individuals together with supporting institutions and policies in the agricultural and related sectors that bring existing or new products, processes, and forms of organisation into social and economic use. Policies and institutions (formal and informal) shape the way that these actors interact, generate, share and use knowledge as well as jointly learn*.***

*G20, Tropical Agriculture Platform, 2015

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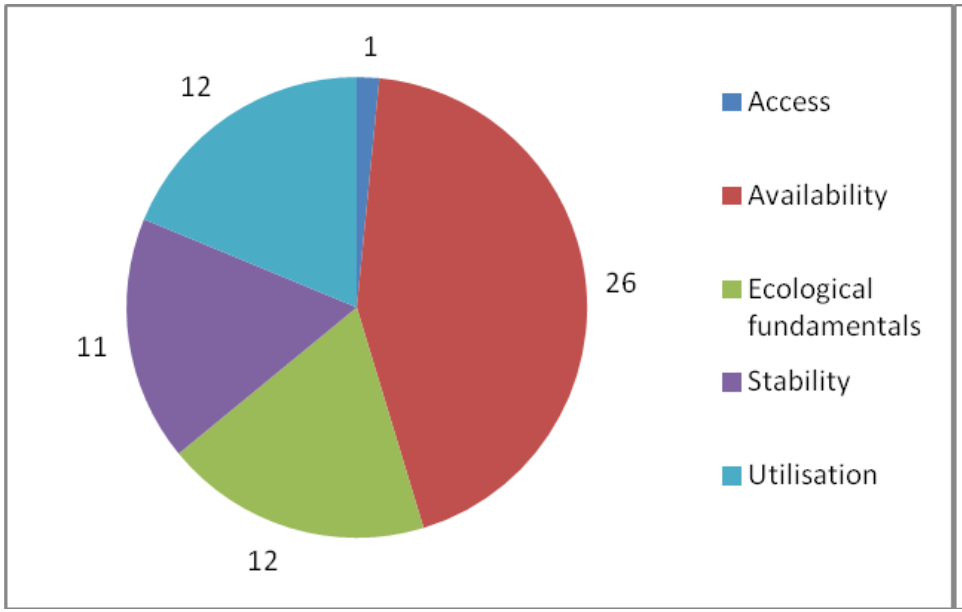
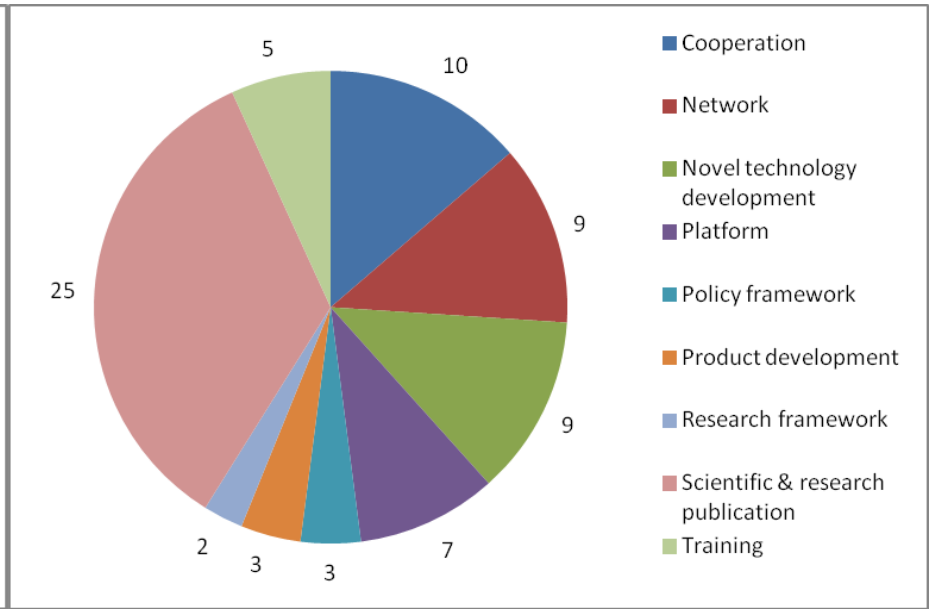
# PAC-EU FNS Research cooperation

## FNS Pillars addressed




## FNS Outcomes




XXX joint PAC –EU FNS research cooperation projects funded by the EU

**EU Budgetary allocation 1994-2013 = 138.7m Euro (67% of total budget)**

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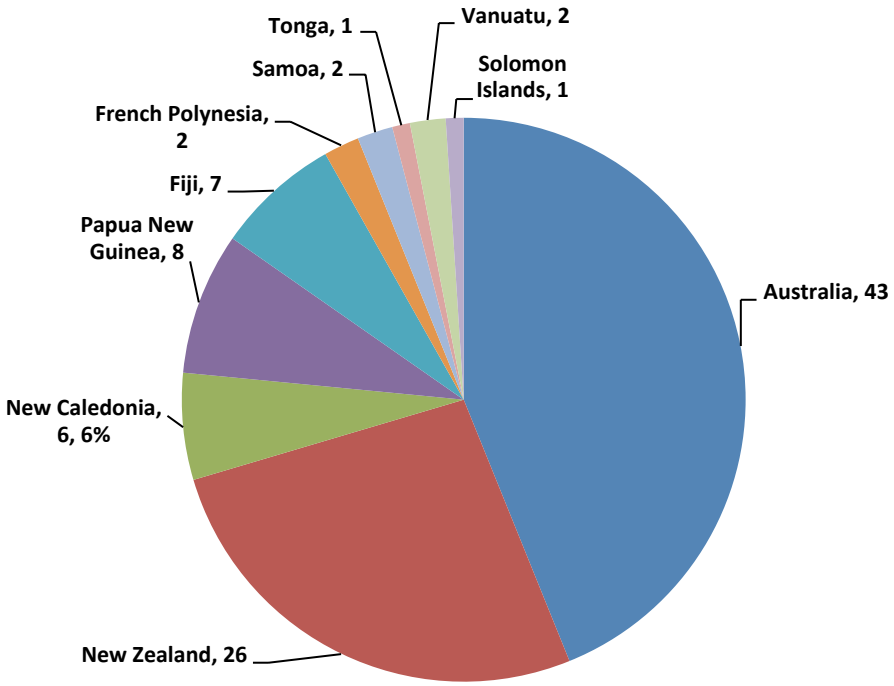
# PAC-EU FNS Research cooperation




| Country representation in joint EU funded Projects | | |
|---|---|---|
| Australia | 43 | 59 % |
| New Zealand | 26 | 37% |
| Papua New Guinea | 8 | 11% |
| Fiji | 7 | 10% |
| New Caledonia | 6 | 8% |
| French Polynesia | 2 | 3% |
| Samoa | 2 | 3% |
| Vanuatu | 2 | 3% |
| Tonga | 1 | 1% |
| Solomon Islands | 1 | 1% |

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# PAC-EU Research Cooperation: H 2020


**Towards Horizon 2020:**

- **Knowledge and Innovation**
- **Involvement of all stakeholders (research & education, industry, policy)**
- **Implement bottom-up priorities in ST&I Agenda**

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# Think Tank outcomes

- **Aquaculture**
  - Fish stock shortage
  - Challenging socio-economic context (education, market & geodata)
  - Profitable perspective for **Tuna and reef species**: to develop breeding and hatcheries and improved management practices
- **Climate Resilient Agricultural Practices**
  - Intensified **climatic pressure**
  - Development of **genetic resources** to produce adapted crops

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# Think Tank outcomes

- **Linking Island Microclimate, Water and Soil Management**
  - Good monitoring but misunderstanding of environnemental sciences (to tackle soil erosion for example)

- **Intellectual Property Rights (IPR)**
  - **Traditional** practices threatened (land rights, sharing genetic resources) by adoption of western models
  - **Cooperation issues** between partners
  - **IPR systems** must be **complementary** and do no harm

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# Think Tank outcomes

- **Joint Initiatives: Proposed Activities**
  - 8 proposed joint activities
  - Ex: Research Centre for Pacific Aquaculture:

  R&D, industrial / community partnerships and capacity building in tropical aquaculture to drive regional aquaculture development.

- **Policy Recommendations at a Glance**
  - Necessity of an enabling policy environment
  - Development of a common knowledge system
  - Monitoring FNS activities (agreed indicators & expert panel)

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# Innovation Niches driving Future FNS cooperation

- **Methodology / Approach**

  - Systematic review of existing **literature** including results generated in first phase of project

  - **Identification of innovation niches**

  - **Prioritization and validation** of innovation niches
    - Survey and interviews of stakeholders; scientists, industry actors including farmers & fisher folk, policymakers
    - Case studies

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# Innovation niches: Some examples

| Innovation niches | Example |
|---|---|
| Fish stock management | |
| Aquaculture | Tuna breeding |
| Genetic resources identification and selection | improved varieties from indigenous stock |
| Invasive alien species | ICT monitoring |
| Bioenergy | |
| 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 |

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# Innovation Niches : Preliminary results

- **Financing** is not adequate to support ST&I co-operation in PAC
- **PAC-PAC** research cooperation is higher than **PAC-EU cooperation - New Zealand, Australia, EU ranked in that order**
- Great interest **in multi-disciplinary research** to address challenge
- **IPR important** but research outputs **should not be copyrighted / patented in the Pacific context**
- **Priority innovation niches –** over/under-nutrition, fish stock management, aquaculture and food price stability, optimization of local genetic resources.

  **n.b.** Traditional knowledge / practices in controlling pest & disease, planning crop production, soil & genetic resource management provide opportunities**.**

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# PACE-NET Plus Consortium


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