

## Objective

To mitigate climate change associated risks to food security and livelihoods for vulnerable smallholder farming communities in Western Pacific countries - PNG, Solomon Islands and Vanuatu.

**Specifically** to improve the food production capacity of smallholder farming communities in areas where precipitation deficits and/or excesses and soil salinity problems are becoming significant threats to agricultural production and productivity.

## Target Beneficiaries

About 100 smallholder farmers per site at 11 sites: 500 households in PNG, 300 households in Solomon Islands and 300 households in Vanuatu. Eventually a total of 2.4 million smallholder crop-livestock mixed farmers in PNG, Solomon Islands & Vanuatu will benefit from the project.



### **Applicant:**

**National Agricultural Research Institute , PNG**



### **Partners:**

- ◆ Ministry of Agriculture and Livestock, Solomon Islands
- ◆ Department of Agriculture and Rural Development, Vanuatu
- ◆ University of Natural Resources and Applied Life Sciences, Vienna, Austria



### **Associates:**

#### **In Papua New Guinea**

- ◆ Department of Agriculture and Livestock (DAL)
- ◆ National Weather Service
- ◆ World Vision Pacific Development Group

#### **In Solomon Islands:**

- ◆ Solomon Islands Meteorological Service
- ◆ Kastom Gaden Association of Solomon Islands
- ◆ World Vision Pacific Development Group
- ◆ Ministry of Mines and Energy – Water Resources Management Division

#### **In Vanuatu:**

- ◆ Vanuatu Meteorological Service
- ◆ Department of Geology, Mines and Water Resources of Vanuatu
- ◆ Vanuatu Agricultural Research and Technical Centre (VARTC)

## CONTACT DETAILS

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## AGRICULTURAL TECHNOLOGIES TO MITIGATE CLIMATE CHANGE RISKS TO FOOD SECURITY IN SMALLHOLDER FARMING COMMUNITIES IN WESTERN PACIFIC COUNTRIES

*The National Agricultural Research Institute (NARI) of PNG in partnership with the Ministry of Agriculture and Livestock (MAL), Solomon Islands, the Department of Agriculture and Rural Development (DARD) of Vanuatu, and the University of Natural Resources and Applied Life Sciences (BOKU), Austria*

**EU Funded Action in Support of Smallholder Agriculture for Climate Change Adaptation**

## Target constraints

### Climate change imposed risks:

- ◆ Extremes scarcity of rainfall (drought)
- ◆ Excessive soil moisture (floods, water logging)
- ◆ Worsening soil and water salinity (from sea water inundation of agricultural land)

## Focus of research (ARD)

- ◆ Participatory needs identification
- ◆ Generation and validation of suitable technologies
- ◆ Dissemination of technologies, monitoring and evaluation
- ◆ Information sharing and networking between research, extension and farmers

## Resources available

### Research grant:

European Union: Euro 2.93 million  
NARI contribution: Euro 730 thousand

### R&D capacity and experience of:

- ◆ Four partnering institutions in PNG, Solomon Islands, Vanuatu and Austria
- ◆ Nine associate organizations in three countries
- ◆ Existing development networks

### Implementation period:

Five years from 15 February 2011

## Location of Project Sites



### Major activities:

- ◆ Rural surveys, participatory site appraisals
- ◆ Develop and pilot strategies for water management/conservation.
- ◆ Screen, evaluate and test sweet potato and other stress tolerant crops; identify improved seed supply mechanisms.
- ◆ Assess potential for diversifying livestock assets and demonstrate improved approaches.
- ◆ Promote internet discussion forums on R&D; establish multi-stakeholder forums.

### Expected key results:

- ◆ Target communities identified, needs-assessed and actively engaged.
- ◆ Innovative water management & conservation strategies/systems piloted.
- ◆ Sweet potato varieties piloted and delivered.
- ◆ Livestock and fish production diversification options piloted and delivered.
- ◆ Linkages and information sharing mechanisms established and/or strengthened between researchers, extension service providers and smallholders.