

# Improving maize-based farming systems on sloping lands in Vietnam and Lao PDR



## Key details

### Location

Lao PDR, Vietnam

### Duration

**Start** Feb 2017

**End** Aug 2023

### Budget

AUD 2,047,363

### Commissioned organisation

The University of Queensland

### Partners

Centre international pour la recherche agronomique pour le développement; Department of Agricultural Land Management; International Center for Tropical Agriculture; Northern Mountainous Agriculture and Forestry Science Institute; Queensland Dept of Agriculture & Fisheries; Soil and Fertilizer Research Institute; The University of Queensland

### Project Leader

Professor Michael Bell

### ACIAR Research Program Manager

Dr James Quilty

### Program

Soil and Land Management

### Project code

SMCN/2014/049

## Overview

**This project aims to promote the adoption of improved and diversified maize-based farming systems that reduce soil degradation and improve smallholder livelihoods and economic viability on sloping lands in the northern mountains of Vietnam and Laos.**

Smallholder maize cultivation in the northern uplands of Vietnam and Laos is expanding onto sloping lands, a practice characterised by high rates of run-off, soil erosion and nutrient loss that quickly lead to declining soil fertility and maize yields. Many areas become completely unproductive in less than 10 years.

This project aimed to evaluate the development of value chains for maize and complementary crops, forages and livestock to support more diverse and sustainable maize-based farming systems; integrate

complementary crops or forages/livestock into more diverse farming systems that can maintain profitability with lower levels of erosion and loss of soil fertility; and develop outreach models and advice for local government policy to support the adoption of more diversified maize-based farming systems on the sloping lands of Vietnam and Laos.

## Project outcomes

- Identification, adaptation and adoption of diversified and more sustainable farming systems that can maintain or improve profitability.
- Greater capacity developed across the two countries in three key domains:
  - Capacity of researchers in various fields, including agronomy, value chains and market linkages, practice change, systems thinking and approaches, English language, improved research methodologies and team work.
  - Capacity of stakeholders in the private and public sector, including staff of DARDs and PAFOs, government extension personnel and private sector value chain actors, to become agents of change.
  - Capacity of researchers in both Vietnam and Laos to share information regionally and participate in cross-border studies.



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