

ACIAR VIETNAM 2016



FAST FACTS

1993 - 2016



23 YEARS



170 PROJECTS



AU\$ 96M



90 TRAINED
IN AUSTRALIA

2016 - 2017



18 PROJECTS



\$5M



22 IN AUSTRALIA



CORE TEAM VIETNAM

General Manager Country Program
Peter Horne

RPM Fisheries
Chris Barlow

RPM Forestry
Tony Bartlett

RPM Agribusiness
Rodd Dyer

RPM Soil Management &
Crop Nutrition
Robert Edis

RPM Animal Health
Mike Nunn

RPM Agricultural
Development Policy
Ejaz Qureshi

RPM Livestock Production
Systems
Werner Stür

Vietnam office
Country Manager Nguyen Thi Thanh An

CURRENT PROJECTS

FIS/2010/042: Sea cucumber
Paul Southgate, Nguyen D Quang Duy

FIS/2010/100: Oysters
Wayne O'Connor, Phan Thi Van

FIS/2012/101: Giant Grouper
Abigail Elizur, Nguyen Huu Ninh

FST/2012/091: Forest Pest control
Simon Lawson, Pham Quang Thu

FST/2014/064: Eucalyptus Silviculture
Daniel Mendham, Tran Lam Dong

FST/2014/068: Acacia diseases
Caroline Mohammed, Vo Dai Hai

AGB/2012/059: NW Vegetables
Suzie Newman/Dale Yi, Phan Thuy Hien

AGB/2012/060: Temp Fruits
Oleg Nicetic, Nguyen Quoc Hung

AGB/2012/078: Casava
Rob Cramb, Pham Thi Sen

ADP/2014/047: Forestry plantation Policy
Rod Keenan, Vo Dai Hai

LPS/2010/047: PigRisk
Fred Unger, Nguyen Viet Hung

LPS/2012/062: SCC Beef cattle
Laurie Bonney, Nguyen Xuan Ba

SMCN/2010/083, FIS/2010/095: Rice-Shrimp
Jes Sammut, Nguyen Van Sang

SMCN/2012/069: SCC Soil & Water
Richard Bell, Hoang Minh Tam

FST/2010/034: AFLi 1
Nguyen La, (Delia C. Catacutan, ICRAF)

AGB/2015/015: Regional Mango
Robin E Roberts

AGB/2009/053: CS Vegies 1
Gordon Rogers, Pham Thi Sen

ADP/2011/039: Climate Change
Christopher Findlay, Dang Kim Khoi



FUTURE PROJECTS

FIS/2016/122: Sea cucumber 2

Paul Southgate, Nguyen Dinh Quang Duy

FIS/2016/126: Pearl oyster

Paul Southgate, Nguyen Huu Ninh

FST/2016/152: AFLi 2

Nguyen La, (Delia C. Catacutan, ICRAF)

AGB/2016/159 (SRA): Beef trade model

Dominic Smith

AGB/2014/035: CS Vegie 2

Gordon Rogers, Pham Thi Sen

AGB/2016/207 (SRA): Cassava Mosaic Virus

Jonathan Newby

AGB/2012/061: Tropical Fruits

Robin E Roberts, Nguyen Duy Duc

AGB/2016/225 (SRA): TRANSIT

Chris Chilcott

AGB/2016/196: Beef trade

Dominic Smith, Nguyen Do Anh Tuan

SMCN/2016/263 (SRA): Upland crops

TBA

AGB/2016/163: Whole-of-chain financing

Russel Toth, Nguyen Do Anh Tuan

AH/2016/133 (SRA): Dairy cattle

David McNeill, Nguyen Xuan Trach

SMCN/2014/049: Maize 2

Mike Bell, Tran Minh Tien

LPS/2016/016 (SRA): Pig - Maize

Isabelle Baltenweek

ADP/2016/140: Market & Food safety

Liz Petersen, Nguyen Do Anh Tuan

LPS/2016/270 (SRA): Goat production and marketing

TBA

LPS/2015/037: NW Cattle 2

Stephen Ives, Vu Chi Cuong

LPS/2016/143: Safe Pork

Fred Unger, (Nguyen Viet Hung)

LPS/2016/275: Pig - Maize

Isabelle Baltenweek, (Nguyen Viet Hung)



CURRENT PROGRAM

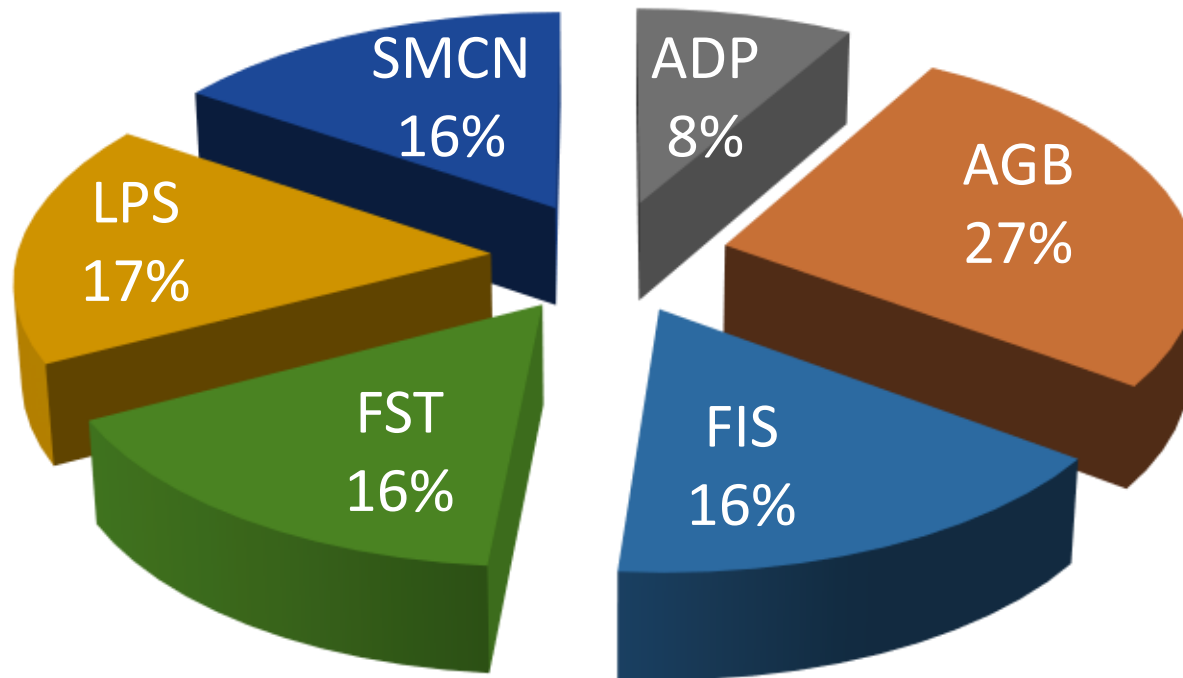
COUNTRY PRIORITIES	optimisation of resource management for profitable and sustainable agriculture production in south-central coastal Vietnam
	poverty reduction through market engagement for smallholder farmers in north-western highlands
	development of high-value aquaculture industries
	technical and policy support for higher-value plantation forestry products
	advice on climate-related impact and adaption policy for future agriculture

In process of consultations with Vietnamese partners to refresh the priority list for 2017-2027.

Emerging concerns from Vietnam: food safety, climate change, value adding agriculture.



BUDGET ALLOCATION 2015-16



IMPACTS

ECONOMIC GROWTH

WOMEN'S EMPOWERMENT

PRIVATE SECTOR LINKAGE

INNOVATION

ENVIRONMENTAL PROTECTION



GENDER STRATEGY



ACIAR
VIETNAM
STRATEGY



Mainstream gender into the research process for all ACIAR investments.



Increase the number of agriculture research for development projects that foreground gender research questions and issues.



Encourage more female scholars to apply for its fellowship schemes.



AGRIBUSINESS PROGRAM

32 PROJECTS

8 YEARS

\$10.8M



ACIAR research in Forestry, Fisheries and Livestock Programs also have strong agribusiness components, with numerous established and productive partnerships with local private sector firms.



Market development and innovation in value chains, and adoption of more sustainable, market-based farming and agroforestry systems on sloping lands are demonstrating opportunities to increase incomes and reduce poverty.



Policy research to support agribusiness in transport and logistics, value chain financing, food security, food safety, and market integration are a recent focus of ACIAR's program.

Eighty six project farmers from four villages in Moc Chau have now supplied 1240 tonnes of accredited safe vegetables with a value well over AU\$1 million to retailers in Hanoi, in a new industry that benefits all sectors of the value chain.

Farmers can earn 300 million VND (\$A18,000) per ha from accredited safe vegetables, which is 150% more than conventional vegetable cropping, and 14 times more than the 20 million VND (\$1260) per ha they can expect from growing maize or rice.

- *AGB/2009/053 'Improved market engagement for counter-seasonal vegetable producers in North West Viet Nam' -*



Mrs Vui and her husband harvesting mustard in their garden. They have joined off-seasonal vegetable project for four years. Photo: ACIAR Vietnam.



Mr Son, a member of off-seasonal vegetable project since 2015. Last year, his family's net income from vegetable was 50 mil VND. Before project, his income from mono rice and maize had been 2,5 mil VND. Photo: ACIAR Vietnam.

STORIES OF AGB

WOMEN'S EMPOWERMENT



Australia's Minister for Foreign Affairs, Julie Bishop MP (r) visits a display of vegetables with Vietnam Women's Union President Hoa (in purple) in Hanoi, at the launch of project AGB/2012/059.
Photo: ACIAR Vietnam.

'ACIAR's policy views gender equity as central to its activities. ACIAR assesses gender equity issues during project design, implementation and impact assessment to bring sustained change to women and men by influencing policies and laws, increasing access to services and changing attitudes and beliefs about women's and men's roles in our agricultural research projects.'

The overall aim of project AGB/2012/059 *'Towards more profitable and sustainable vegetable farming systems in north-western Vietnam'* is to enhance the profitability and sustainability of smallholder vegetable farmers in north western Vietnam through improved market engagement and integrated resource and disease management practices.

The project particularly focuses on women and ethnic minorities engaged in horticultural value chains in Sa Pa and Bac Ha in Lao Cai province.

Farmers are the key beneficiaries from the value chain. Linking producers with retailers, AGB North West vegetable project, Off-season vegetable project, and Temperate fruit project have helped make North West agricultural products available in big markets like Hanoi, Quang Ninh, and many other local areas.



Safe and fresh products of Vegetable and Temperate fruits projects in Fivimart supermarket chains in Hanoi. Photo: ACIAR Vietnam.



FORESTRY PROGRAM

29 PROJECTS

22 YEARS

\$17.3M



The program has provided key technology inputs for advanced tree breeding and silviculture practices, aiming at successful plantation development of *acacia* and *eucalyptus*.



More recent projects are focusing on technical policy options for higher value products including quality timber for veneer and furniture from the plantation forest.

Field visit to an acacia nursery in Ba Vi district, Ha Noi. Photo: Project Clonal deployment for acacia.



ACIAR's forestry projects in Vietnam have provided good evidence of the potential economic benefits that come from trees in agricultural systems. It is estimated that 250,000 farmers have adopted *Acacia* woodlots into their farming systems and contributed to generate US\$4.3 billion from pulpwood exporting per year. - *ACIAR Annual Report 2013-14* -

STORIES OF FST

The 5-year project FST/2006/087 *'Optimising silvicultural management and productivity of high-quality acacia plantations, especially for sawlogs'* to support the significant improvement of *acacia* planting stock has just concluded last year in Vietnam.

The staged evaluation of over 5000 hybrid seedlings and 550 promising clones of broad genetic base has positioned the Vietnamese Academy of Forest Science to deliver large economic benefits to Vietnamese growers through the deployment of a new generation of fully tested hybrid clones.

These clones could be ready for commercial deployment by 2020, and early trials already show superior early growth to those commercial hybrids currently planted.

INNOVATION

WOMEN'S EMPOWERMENT



Dr Nghiem Quynh Chi (Vietnamese Academy of Forest Sciences) is the only female senior researcher and leader of the team. Through ACIAR research, she has successfully produced triploid acacias which is expected to have potential for increasing growth rate and some wood properties, as well as enhancing disease and environmental stress tolerance.

Photo: ACIAR Vietnam.

STORIES OF FST

'Information from ACIAR research helped us understand better about potentials of production areas and markets, so that we can have much clearer and practical business plans.' – said Mrs Tham from TAFOOD.

PRIVATE SECTOR LINKAGE



TAFOOD staff with Australian Embassy's delegation and local partners in a visit to ACIAR projects in North West Vietnam. Photo: ACIAR Vietnam.



Sontra fruit and TAFOOD's processed products. Photo: ACIAR Vietnam.

One of the four objectives of project FST/2010/034 *'Agroforestry for Livelihood of Smallholder Farmers in Northwest Vietnam'* is to *'enhance market access for, and opportunities to add value to, agroforestry products'*.

The project has develop processing techniques for *sontra* juice, tea bag and concentrated extract, and transferred research results to TAFOOD – an entrepreneur company working in the North West Vietnam.

Agroforestry system produces positive outcomes in reducing soil erosion and improving smallholders' livelihood.

Initial analysis on soil erosion in the 'longan - fodder grass - maize' (AF1) trial has shown only a third of soil loss compared to monoculture maize. In the multi-strata system (CAFS), soil loss was 10 times less than in monoculture maize field. Zero soil loss was observed in CAFS in Son La province.

- *FST/2010/034 'Agroforestry for Livelihood of Smallholder Farmers in Northwest Vietnam' -*

A multi-strata system (CAFS): Teak+plum+ coffee+fodder grass+short-term crop in Co Noi Commune, Mai Son district, Son La province. Photo: ICRAF.



FISHERIES PROGRAM

32 PROJECTS

20 YEARS

\$16.7M



Projects have provided advanced technologies for hatchery and feed of high value species such as lobster, crab, baramundi, and cobia.



The more recent and future projects are focusing on the the species for higher incomes with low input cost and manageable by small farmers, such as oyster research in Hai Phong and Quang Ninh provinces or research on sea cucumber and pearl oyster farming in Khanh Hoa province.

ECONOMIC GROWTH

STORIES OF FIS



Since 2006, ACIAR has made a significant contribution to help establish & develop the oyster farming industry in Vietnam.

The program developed the technology to allow farmers to obtain oyster seeds using techniques readily adaptable to local farming conditions.

Farming now extends across 28 provinces with production estimated at 15,000 tonnes (valued AU\$17M) per annum.

-FIS/2010/100 'Enhancing bivalve production in northern Vietnam & Australia' -

Oyster rafts in Van Don district, Quang Ninh province. Photo: Project bivalve molluscs.

STORIES OF FIS

Oyster industry in North Vietnam has undergone remarkably rapid but sustainable growth with the industry having brought economic benefit and greater environmental security to the farmers and the northern sea.

Through breeding research the program is now improving the quality seed available to farmers, which is reducing the demand for imported stock to fuel industry growth and is consequently reducing biosecurity risks that are associated with these introductions.

Processing, handling and distribution systems are being upgraded, creating further socioeconomic opportunity.

- FIS/2010/100 'Enhancing bivalve production in northern Vietnam & Australia' -

ENVIRONMENTAL PROTECTION



Researcher Cao Truong Giang, ACIAR John Allwright Fellow at research station in Cat Ba district, Hai Phong province. Photo: Project bivalve molluscs.



LIVESTOCK & ANIMAL HEALTH PROGRAM

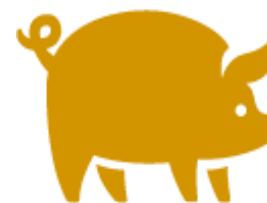
32 PROJECTS

20 YEARS

\$14.6M



In the early years, research was on avian influenza, pig breeding, feeding, and health, and cattle nutrition.



The more recent and future projects are focusing on value chains and food safety for pig production, beef and dairy cattle production and health.

STORIES OF LPS

Project *'Reducing disease risks and improving food safety in smallholder pig value chains in Vietnam (PigRisk)'*, 2012-2017, assessed the impact of pork-borne diseases on human health, obtained evidence on contamination along the value chain and evaluated risk-based approaches to managing disease risks.

Having identified risk areas, the project is identifying potential interventions appropriate for managing risks in smallholder value chains supplying informal and emerging formal markets.

The information generated by the project has helped researchers to contribute significantly in policy analysis, building capacity in food safety research, developing risk assessment guidelines, communicating and disseminating information on food safety nationally and internationally.

Key PigRISK researchers are actively involved in the National Task Force on Risk Assessment formed by the World Bank to develop major food safety initiatives for Vietnam, and the Food Safety Working Group (FSWG) convened under the auspices of the Vietnamese Deputy Prime Minister.

INNOVATION



Piglets in a smallholder farm. Piglets face the greatest disease exposure risk and experience the greatest mortality compared to other age classes of stock.

Photo: Tran Thi Ngan – Hanoi School of Public Health.



PigRISK researcher, Dang Xuan Sinh, samples a pork carcass during pilot trials.

The stainless steel grid was custom built to keep carcass off the floor and reduce contamination. Photo: Fred Unger – ILRI.



SOIL MANAGEMENT & CROP NUTRITION PROGRAM

28 PROJECTS

22 YEARS

\$17.88M



Water research comes under the objective of optimising resource management for profitable and sustainable agricultural production in the ACIAR Vietnam program.



Current research is providing a better understanding of capacity and quality of ground water for agriculture and management options in South Central Coast region.

STORIES OF SMCN

In the South Central Coast, the infertile sandy soils are very prone to drought. Use of irrigation scheduling and application strategies demonstrated substantial improvements in water use efficiency, and led to marked increases in the yield and quality of mango and peanuts in Binh Dinh province.

This technology is being adopted as best management for mango by the provincial government agricultural extension agency: better scheduling and drip irrigation increased the yield of mango by approximately 26–32%, water saving increased by 86–90% and net profit by 42%.

- *SMCN/2012/069 'Integrated water, soil and nutrient management for sustainable farming systems in South Central Coastal Vietnam and Australia'* -

INNOVATION



*Field visit to water saving irrigation for mango in South Central Coast.
Photo: Project Integrated water, soil and nutrient management.*



AGRICULTURAL DEVELOPMENT POLICY PROGRAM

10 PROJECTS

10 YEARS

\$2.4M



Food Security

Food Safety



Climate Change Adaption

Higher Value Plantation Forest





PICTURES FROM PROJECTS



Scientists assessing farmers responses to climate change in Mekong Delta region. Photo: Project Climate Change policy



PICTURES FROM PROJECTS



*Visit farm trial of vegetable project in Lao Cai Province.
Photo: Project North West vegetable.*



*Scientists visit rice-shrimp field trial in Ca Mau Province.
Photo: Project rice-shrimp.*



*Rice-shrimp field trial in Ca Mau Province.
Photo: Project rice-shrimp.*



PICTURES FROM PROJECTS



Technologies for giant grouper. Photo: Project Giant Grouper.



Smallholder pig producer with indigenous pig breed from PigRISK project sites. Photo: ILRI.



PICTURES FROM PROJECTS



*Research undertaken by Dr Thu (left) from VAFS has found that *Beauveria bassiana* (a bacterial endophyte that can be inoculated into the seed) reduces infection by *Leptocybe* from 75% infected to 6.7% infected in seedlings. Photo: Project Mekong eucalypt gall wasp biocontrol.*



Field visit to water saving irrigation for peanuts in South Central Coast. Photo: Project Integrated water, soil and nutrient management.



VIDEOS IN 2016

Chef Luke Nguyen cooking with Mrs Minh, farmer in North West vegie project in Bac Ha Lao Cai by DFAT	https://goo.gl/VkArFC
Story of Agroforestry Project AFLi FST/2010/034 by VTC10 TV channel and the project team	https://goo.gl/10ZOgj https://goo.gl/3w4AUn
North West Vegetable project by ACIAR & Crawford Fund	https://goo.gl/fH9KIW
Master classes in Vietnam by ACIAR & Crawford Fund	https://goo.gl/uMYfWQ
'Dr Nghiem Quynh Chi – a woman researcher' by ACIAR & Crawford Fund	https://goo.gl/aI5EcB
Interviews with Dr Rodd Dyer on VTC10 TV channel about safe vegetables and fruits in North West and ACIAR agribusiness program in Vietnam	https://goo.gl/DKJfKX https://goo.gl/po7azE
Stories of women leadership by DFAT, interviews ACIAR's farmers and business	https://goo.gl/MKaJsG



KEY DATES IN 2017

DATE	EVENT
17 – 18 Jan	Annual meeting project Forest Plantation Policy ADP/2014/047
28 – 30 Jan	Vietnamese <i>Tet</i> (Lunar New Year) Holiday
30 Jan	ACIAR Photography Competition closure
12 – 15 Feb	Midterm review project Beef cattle in South Central Coast
13 – 23 Feb	Innovation Xchange visit
16 – 17 Feb	Fisheries program meeting in Brisbane
Feb	Launch of project AFLi 2 FST/2016/152
Mar	Launch of project Maize 2 SMCN/2014/049
7 Mar	Final round of Country Consultations for ACIAR Vietnam strategy 2017 - 2027



KEY DATES IN 2017

DATE	EVENT
Apr	Launch of project North West Beef cattle LPS/2015/037
May	Launch of project Vegetables AGB/2014/035
15 – 19 May	Country offices meeting
31 May	Deadline for submission of John Allwright Fellowship applications in 2017
7 – 11 Jun	Mountain Research Symposium, Industry Forum and Market
Second half 2017	Launch of project Pearl Oyster FIS/2016/126 Launch of project Market & Food Safety ADP/2016/140 Launch of project Safe pork LPS/2016/143 Launch of project Beef & Cattle trade AGB/2016/196 Launch of project Tropical fruit AGB/2012/061