The Impact of Training

The trainee, trainer and their countries

A focus on Laos (Lao PDR)







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Les agriculteurs d'abord

المزارعين أولا

- A motto that I display at the beginning of training programs to highlight that:
- Farmers are central to the development process
- Emphasises the importance of trainees engaging with the farmer
- Provides a focus for designing the program's curriculum, and trailing activities

Continuity — An Essential Ingredient

- Broad-based capacity building to improve productivity is a long-term exercise > 20 years
- Long-term commitment by the lead trainers
- Farmer ownership and input is essential for success

Crawford Training Activities

Mentoring at all levels – a continuous activity

Workshops In-Country or In-Australia

Master Classes

Individual training in Australia

Long-term broad-based capacity-building

Crawford Program in Lao PDR Long-term Broad-based Capacity Building Crop Disease Diagnostics and IDM

With support from:

 Mentors and trainers in Australia, New Zealand, Italy, Netherlands, Vietnam

- Australian Volunteers for International Development
 - An Australian Government Initiative

ACIAR

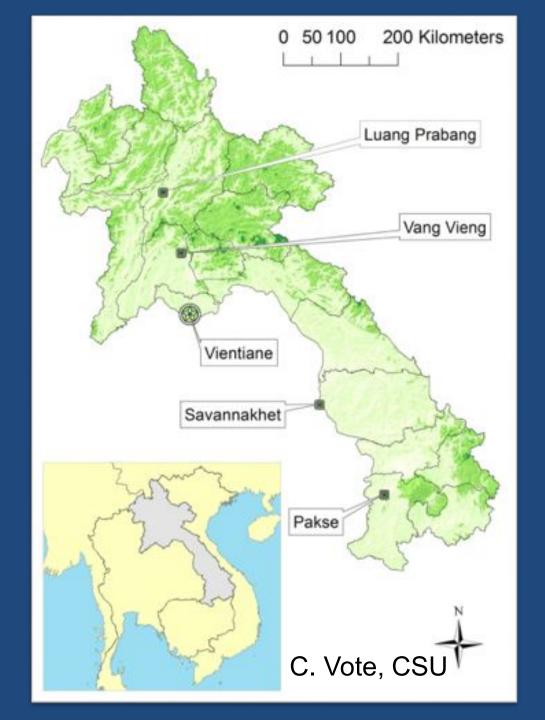
Crawford Program in Lao PDR Long-term Broad-based Capacity Building Crop Disease Diagnostics and IDM

- With support from:
- NGO's: Helvetas, GAPE, Sai-Nyai Eco-School
- Companies: BIOMIN (Australia), Agrichem, Ironbark Citrus, Macadamia Plantations
- Australian Embassy Development Assistance Program (DAP)
- American Phytopathological Society (OIP Global Experience Program)

Lao PDR

Landlocked

Population
~ 6 M
Most in rural areas



Capacity Building in the Lao PDR

Crop Disease Diagnostics and Integrated Disease

Management (IDM)

2009 - continuing

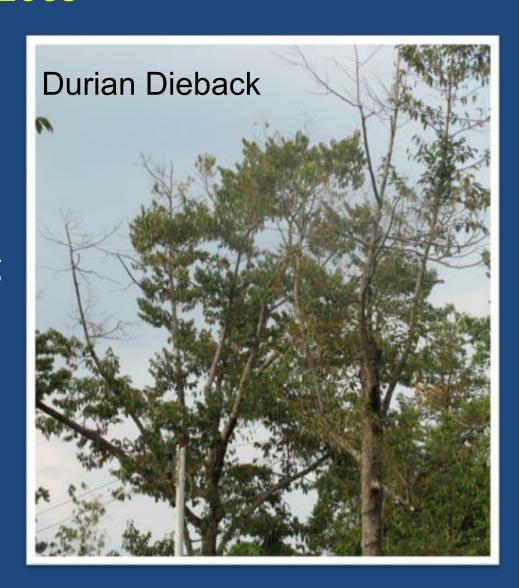
 This program was initiated by an Australian AYAD volunteer, Dr Jillian Walsh, at the Plant Protection Centre (PPC) in Vientiane

 The PPC plant pathology team had four graduates but with no prior training in plant pathology or laboratory practice



 First National Survey of Crop Diseases

- Training in survey procedure and sampling
- Training in laboratory procedures



Whiteleaf in Sugarcane

- First National Survey of Crop Diseases
- Training in survey procedure and sampling
- Training in laboratory procedures
- English training



 Second National Survey of Crop Diseases

- Sugarcane Survey Dr Rob Magarey (BSES)
- Farmer Workshops on IDM in Durian



 Second National Survey of Crop Diseases

 Sugarcane Survey Dr Rob Magarey (BSES)

 Farmer Workshops on IDM in Durian



'Guest House Laboratory'
On survey

 Second National Survey of Crop Diseases

 Sugarcane Workshop Dr Rob Magarey (BSES)

 Farmer Workshops on IDM in Durian



Second National Survey of Crop Diseases

Sugarcane Workshop Dr Rob Magarey (BSES)

Farmer Workshops on IDM in Durian



First Workshop on Durian Dieback





Farmer Workshop Injecting Durian with AgriFos 400





Madame Kaysone – key durian farmer

- Training activities shifted to Pakse in southern Lao PDR
 second diagnostic laboratory established
- VSO Volunteer, Susan Turner joined the program for 2012-13
- Susan obtained Embassy (DAP) and Helvetas support to construct two greenhouses
- AVID Volunteer Dr Kylie Ireland began in May 2013





Helvetas Training Greenhouse

- Dr Ireland commissioned main greenhouse facility for durian production, initiated regular disease surveys and laboratory diagnostics
- Intensive survey of vegetable diseases led by Dr Len Tesoriero, EMAI, August, 2013
- Citrus Survey in northern Lao PDR led by Dr Nerida Donovan, EMAI, and Dr Tahir Khurshad, Feb 2014





Embassy (DAP) Greenhouse

Potting Shed





Embassy (DAP) Greenhouse





Vegetable Disease Survey



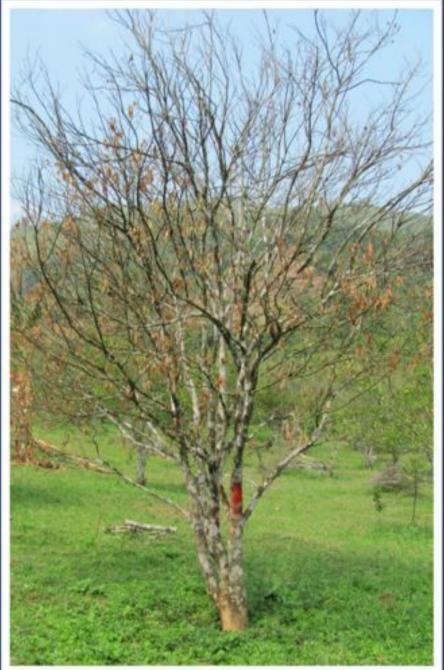
Citrus Survey - limes and mandarins - northern Lao PDR

Huanglongbing in Citrus

(Chinese: 黃龍病 – Yellow Dragon Disease)







Future Plans

Crop Health and Food Safety Network Champasak and Savannakhet Provinces 2014 -

Network established on 6 March

Two Australian volunteer entomologists start in May

Three more volunteer assignments under consideration

All current assignments are likely to be renewed

Impact – some examples

- Eight trainees now with basic laboratory diagnostic skills + field survey experience in over 50 crops
- Fifteen most serious diseases identified
- Putative checklist of over 75 diseases (SPS and Trade)
- IDM programs adapted to Lao
- Farmer Workshops initiated

Impact – some examples

- Key farmers identified
- Three diagnostic laboratories established
- Three greenhouses established
- Volunteer plant pathologist with considerable Lao and an excellent network
- For me opening new horizons and challenges and doing well by doing good with limited resources



Plating – Black (Purple) Maize



