

Highland Sustainable Development using Royal Project System and Next Step to National and International Sustainable Development



Key Points

1. Sustainable Highland Development using Royal Project System
2. 12-Year Royal Project Model towards the Thai Highland Development
3. Next Step to the National and International Sustainable Development



The Royal Project

The King's Philosophy: Sustainable Highland Development Model

Communities have been strengthened.
Natural Resources have been conserved and restored.

Agricultural Extension Programme

Community Capacity Building

Natural Resources Conservation and Restoration

Basic Infrastructure Development



ถ่ายทอดความรู้



Vocational supports



Participatory



Community Plan



Vertiver grass



Community forest



Groundwater



Water storage



Market



Post-harvest management



Capacity building



Farmers' Institute



Water source restoration



Check dams



Water storage



Water storage



Ecological farming practices



Non-vocational training



Local wisdoms



Good governance workshops



Soil fertility improvement



Forest conservation



Roads



Roads



Food Safety Standards



Livestock



Hygiene



Culture/rituals



Soil and water conservation



Biodiversity



Market management



Water storage

Sufficient Economy Philosophy/ Geographical development/Knowledge and information/
Community participatory/Integrated working between multi-organisations

Royal Project Model: the Prototype of the Thai Highland Development

“When the Royal Project has been successful in piloting highland development, His Majesty King Rama IX told Mr. Anand Panyarachun (Former Prime Minister) in 1992, that the Government should establish an organization to extend the Royal Project work to other highland areas.”

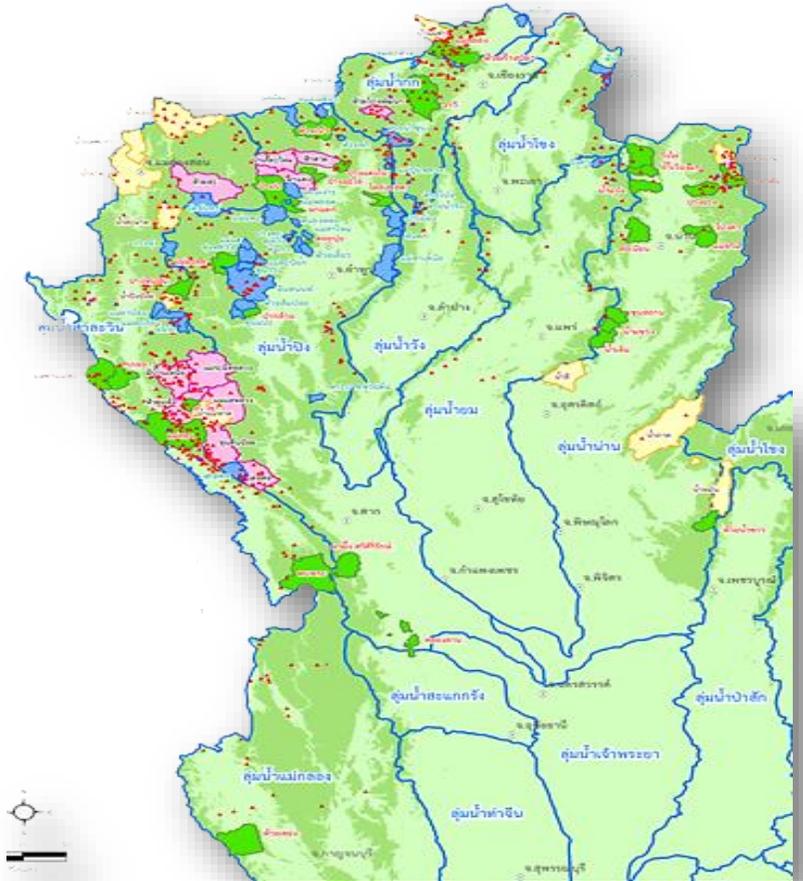
HSH Prince Bhisatej Rajani’s speech given on 7 March 1996 in the Royal Project Foundation Board meeting



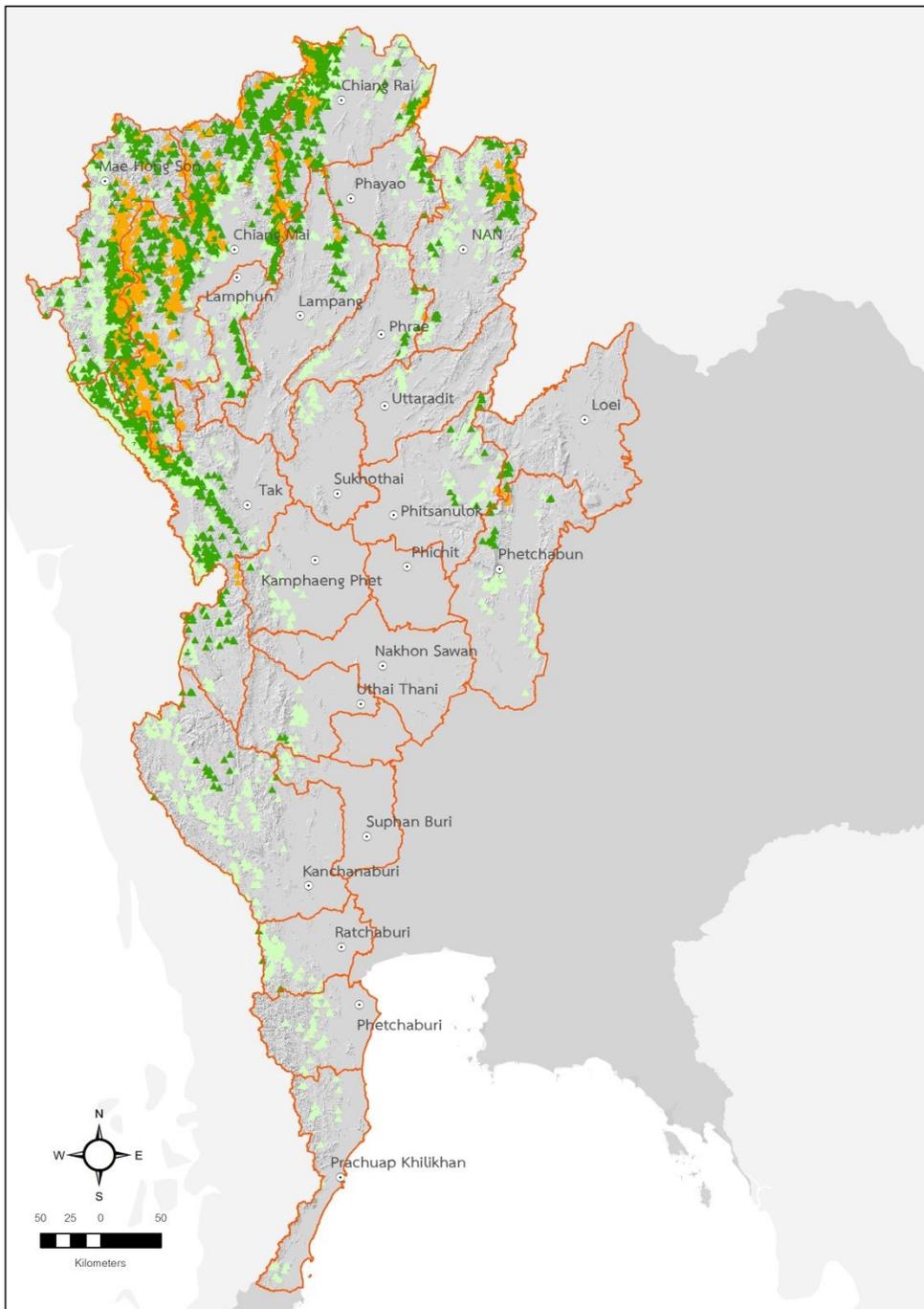
1992



2005

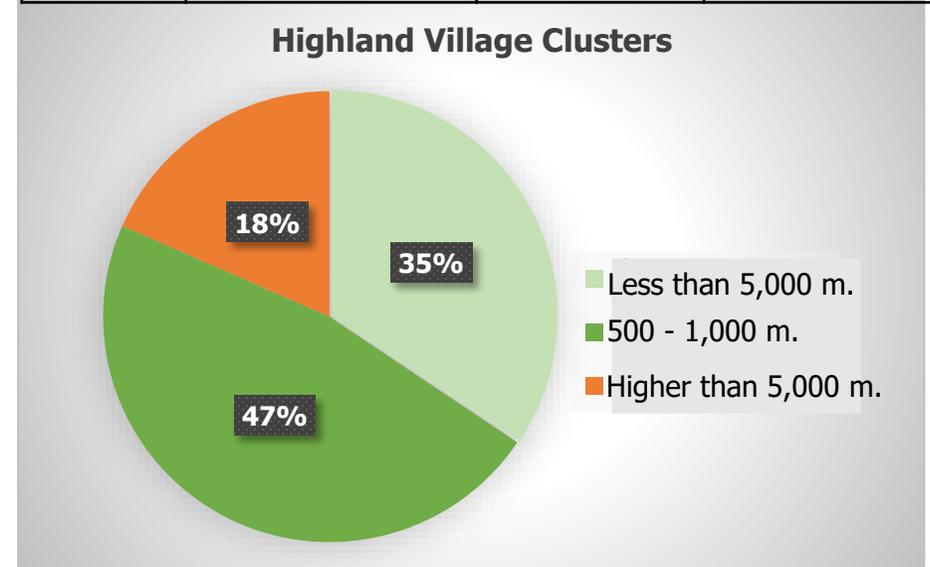


Thai Highland Village Clusters



AREA	Altitude (msl.)	Highland Village Clusters	Percent
	Less than 500 meters	1,447	35.00
	500-1,000 meters	1,985	47.00
	more than 1,000 meters	774	18.00
	Total	4,206	

Highland Village Clusters



Problem Changes in the Thai Highlands



Illicit opium crops



Poverty

1969

Estimated highland population:
275,000 people



Degradation of natural resources



Shifting cultivation and non-sustained agricultural practices



Poverty / Inequality

2005

Estimated highland population: **800,000 people**

Royal Project Model: the Prototype of the Thai Highland Development



Alternative development for illicit crops substitution and watershed forest rehabilitation

Altitude of higher than 1,000 m. a.s.l.
(744 clusters)

Alternative development for poverty and inequality reduction and natural resources and environment conservation

Altitude of 1,000 m. a.s.l.
(4,202 clusters)

Royal Project Model: the Prototype of the Thai Highland Development

- Community Development
- Geographical development
- Knowledge development
- Agricultural extension



- Research for Alternative Crops
- Temperate climate fruit trees
- Cash crops

"...to encourage and support the hill tribe people for a better living, being able to cultivate and receive gains. Despite living in rural areas, they can have knowledge to achieve self-sustainability."

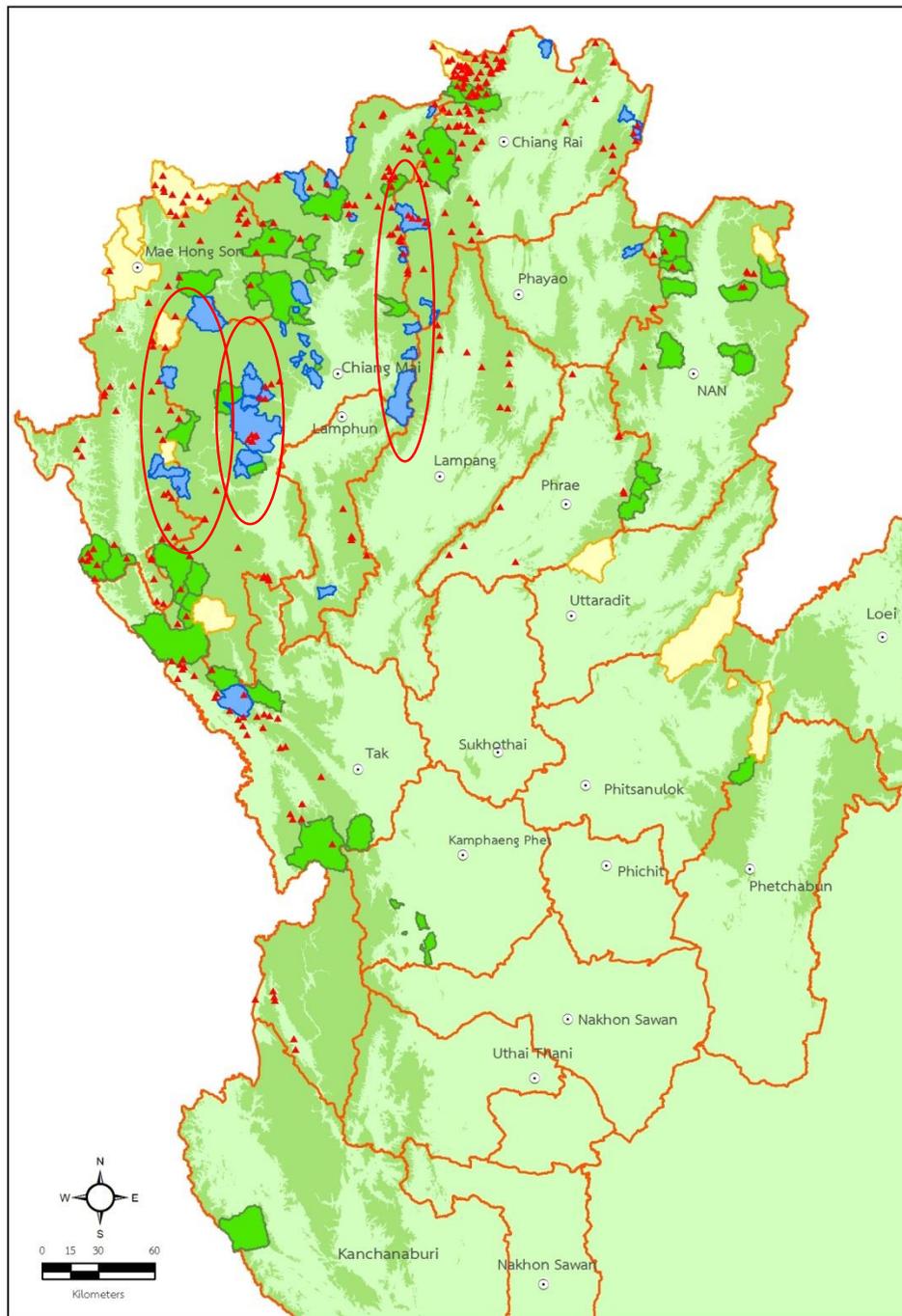
His Majesty King Bhumibol Adulyadej's Royal Speech
Given on 10 January 1974 at Faculty of Agriculture, Chiang Mai university



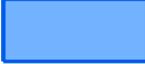
- Marketing
- Competitiveness
- Food Safety Standard



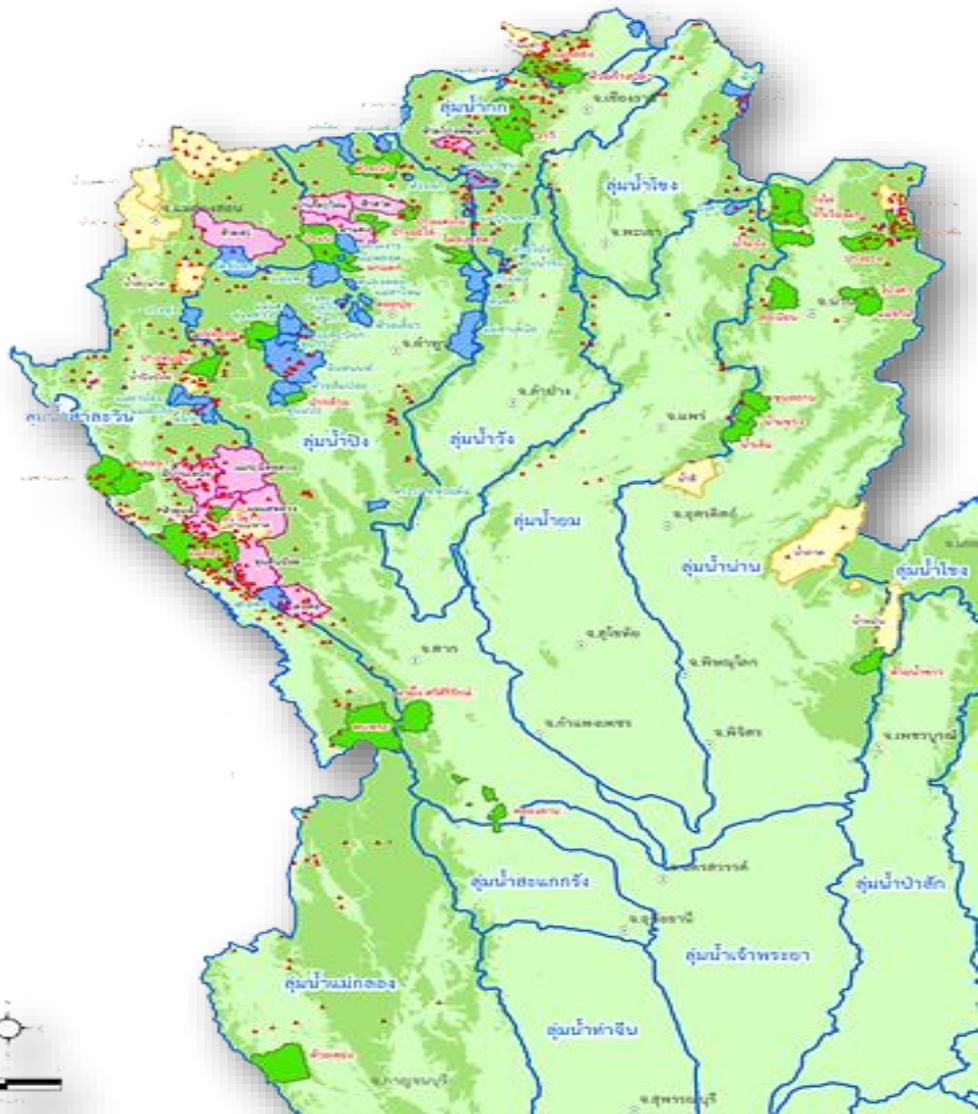
The Extension of the Royal Project Success to Solve the Problems in the Thai Highlands



Legend

-  500 Meters Above Mean Sea Level
Highland Area
-  Province Boundary
-  Royal Project Foundation
-  Highland Development Project
Using Royal Project System
-  Watershed Conservation Project, an initiative
of Her Majesty the Queen
-  Knowledge Transfer and Capacity Building
Program for Highland Communities
-  Province

Sustainable Highland Development Operational Areas Using the Royal Project System



1. Thai highlands cover 67.22 mill. rai in 20 provinces, 4,148 villages, 950,000 people



2. The Royal Project covers 6 provinces in 468 villages

3. Highland Development Using Royal Project System by HRDI operates 3 projects in 18 provinces, 1,530 villages



Poverty Reduction

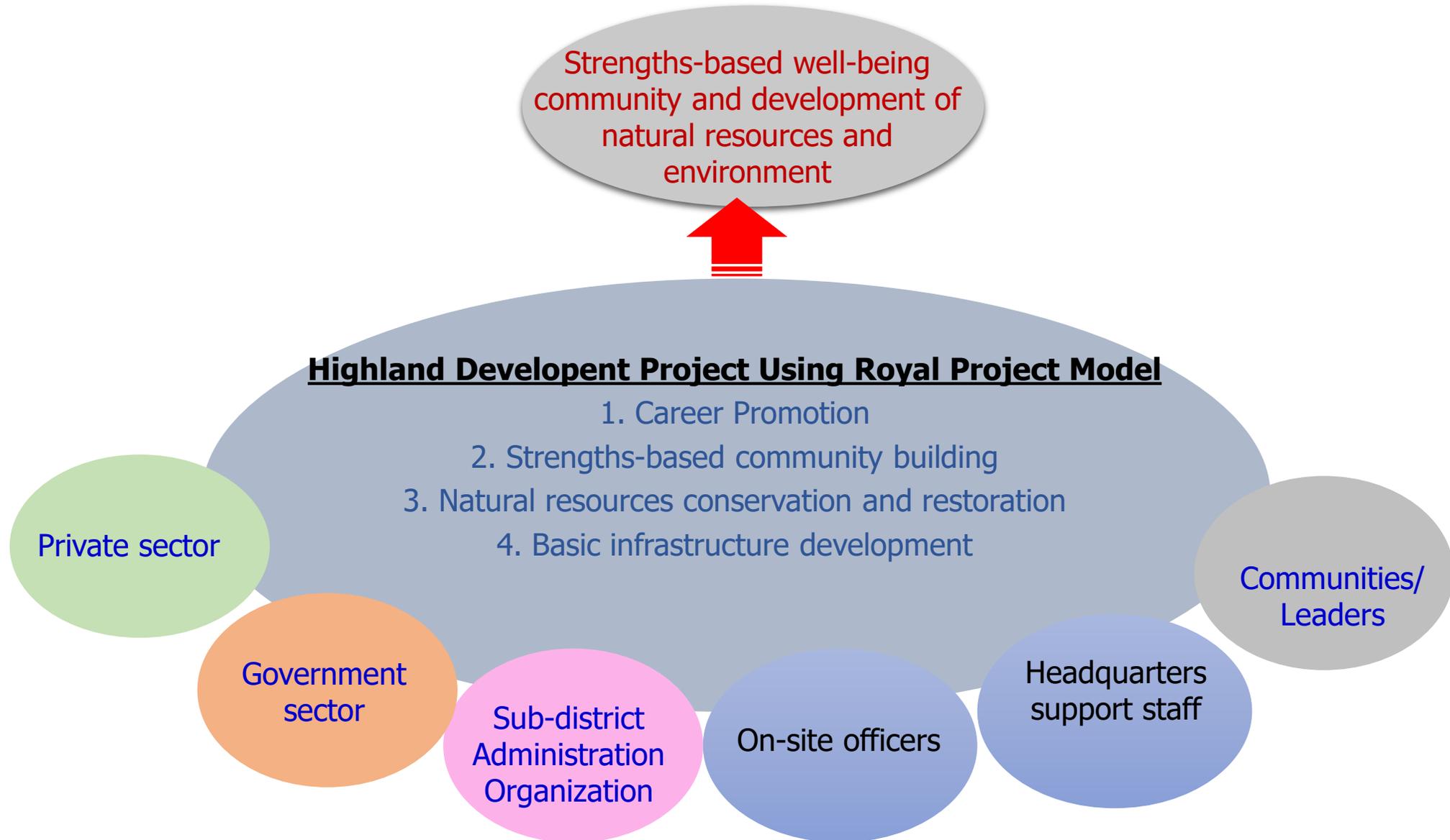


Environmentally-friendly Career Promotion



Natural Resources and Environment Conservation

Highland Development Project Using Royal Project Model



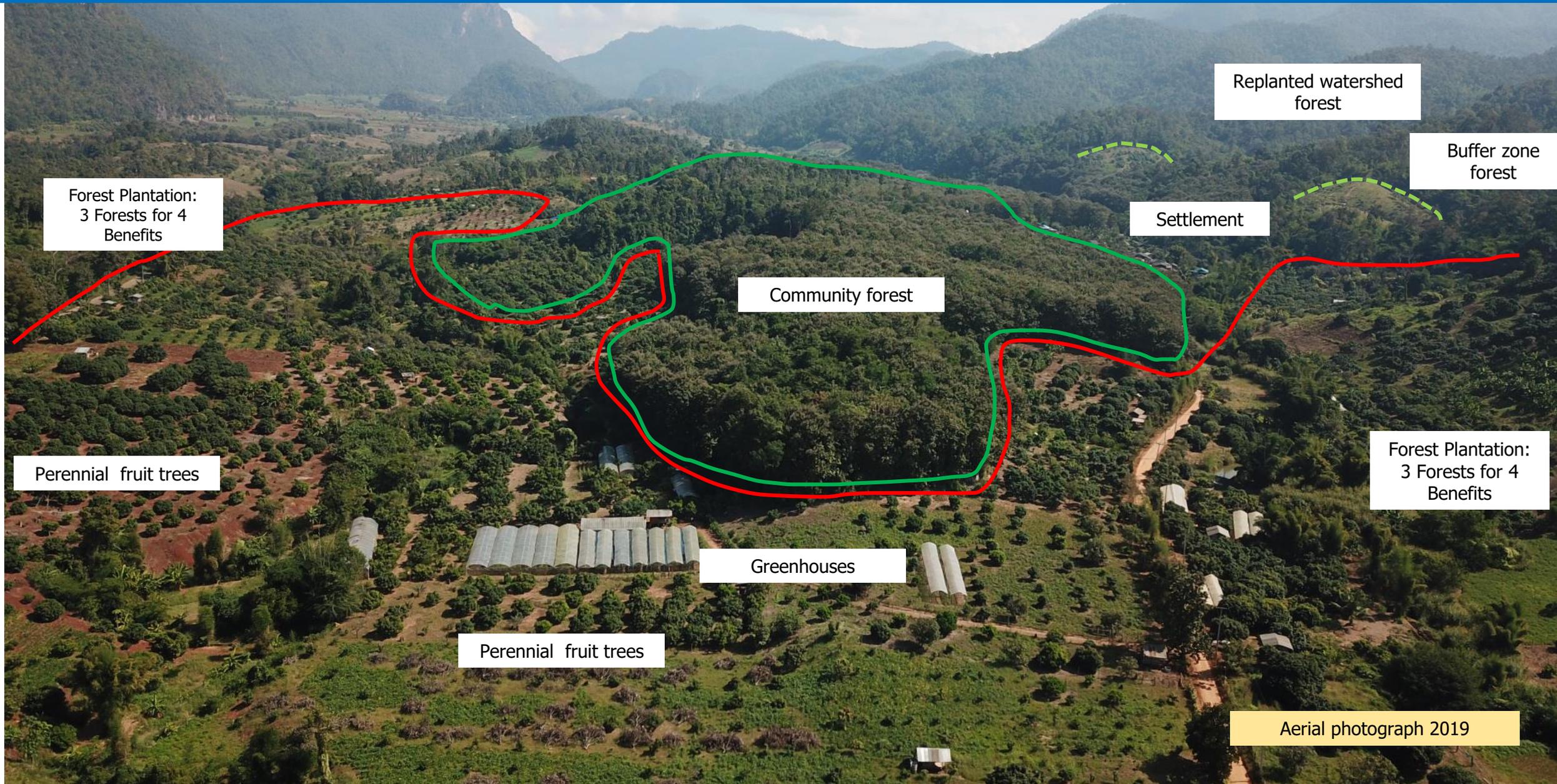
The Problems on the Highlands

1. Remote and rural, no access to transport services
2. Lack of employment opportunities and market limitation
3. Degradation of natural resources: soil, water, forest from unsustainable farming
4. Inadequate public health, education and social-welfare services
5. Lack of basic infrastructure required for living and career opportunities



Development Results

Pang Dang Nai Highland Development Project Using Royal Project System



Replanted watershed forest

Buffer zone forest

Forest Plantation:
3 Forests for 4
Benefits

Settlement

Community forest

Perennial fruit trees

Forest Plantation:
3 Forests for 4
Benefits

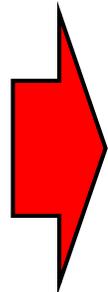
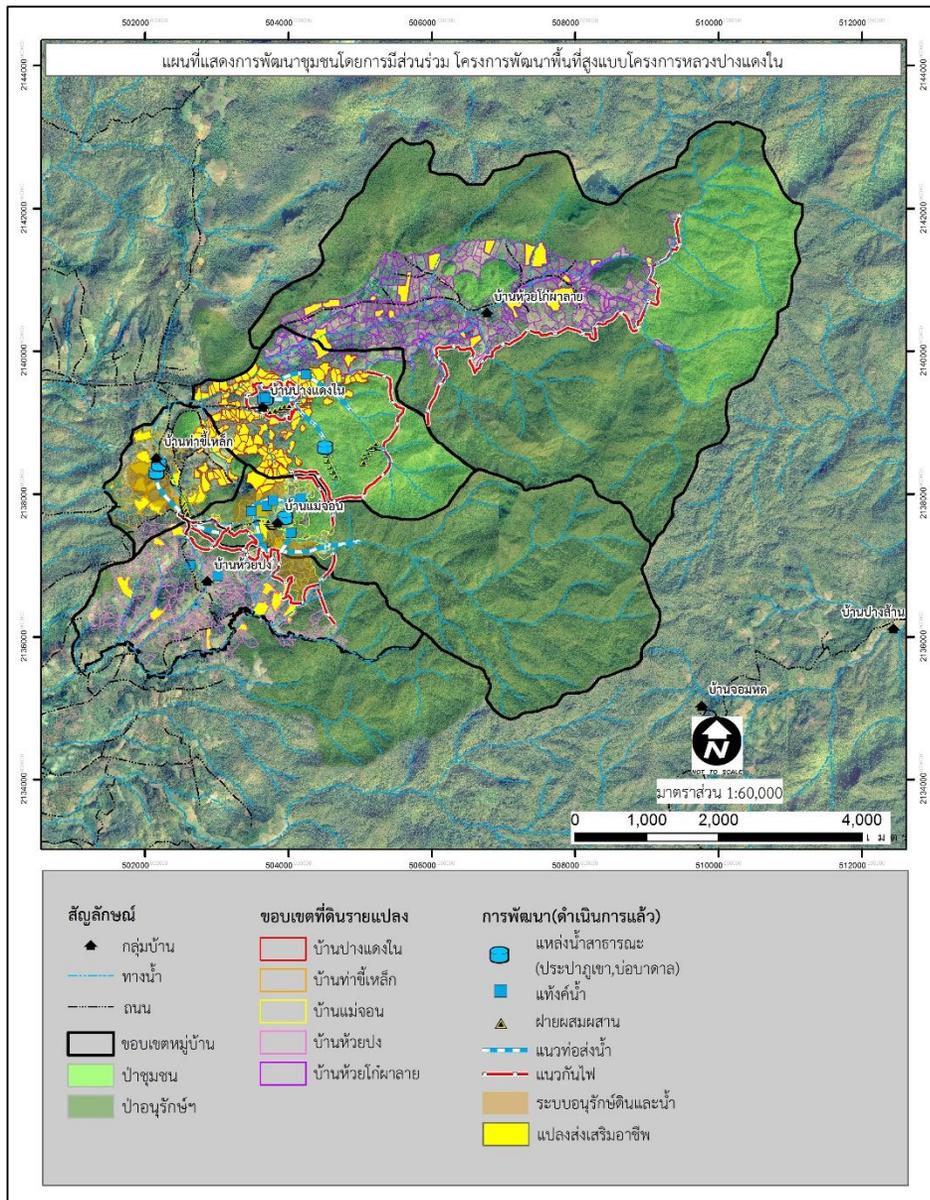
Greenhouses

Perennial fruit trees

Aerial photograph 2019

Development Results: Balanced Development

(Pang Dang Nai Highland Development Project Using Royal Project System)



Infrastructure Development



Irrigation System



Electricity/Groundwater



Soil and Water Conservation

Agricultural Extension



Agricultural System



Grapes



Greenhouse vegetables/
Perennial Fruit Trees

Farmer's Institute and Marketing



Post-harvest Management



Co-operative Groups



Self-sustained Communities

Natural Resources Conservation and Restoration



Maize-soybean
Intercropping



Firebreaks

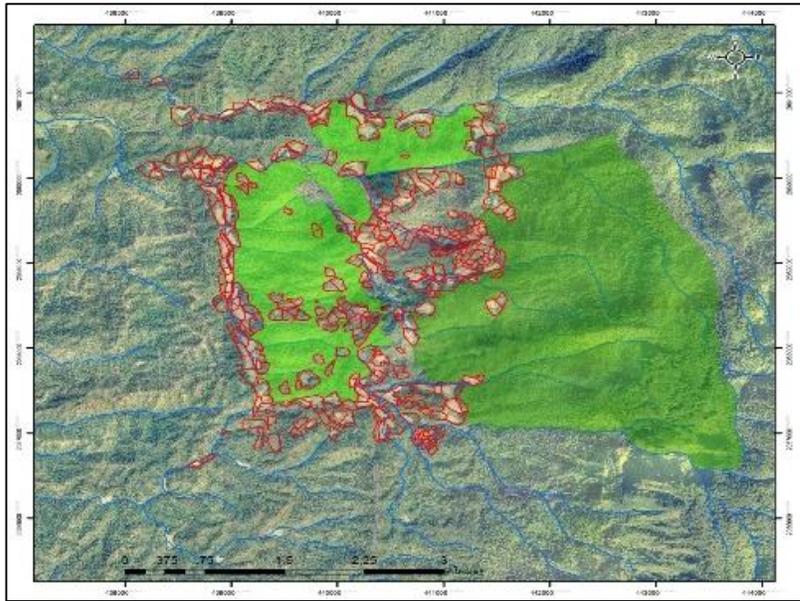


Community
Forest



Check Dams

Development Results: Self-Sustained Communities Self-Driven Natural Resources Conservation and Restoration



Zoning: Forest and Farming Areas



Environmentally-Friendly Agriculture

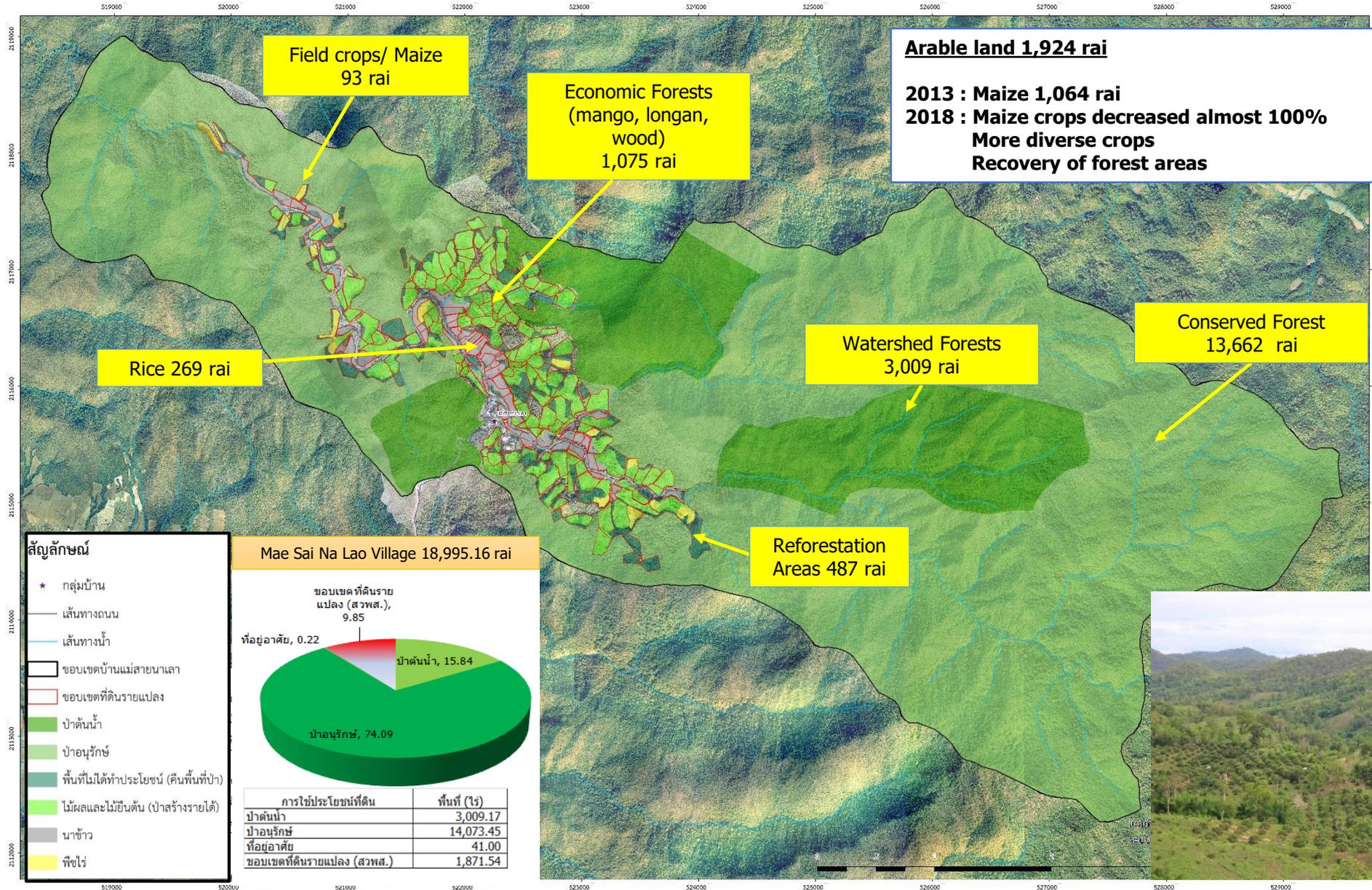


Natural Resources and Environment
Conservation and Restoration

Environmentally-Friendly Agriculture: From Maize to Perennial Fruit Trees

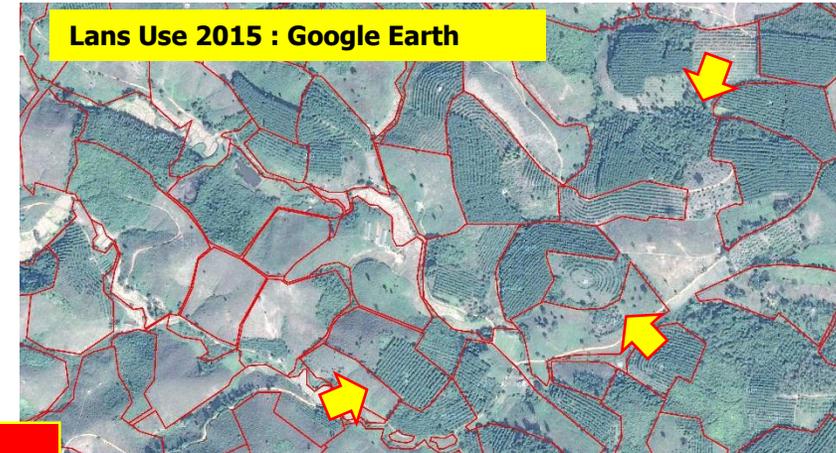
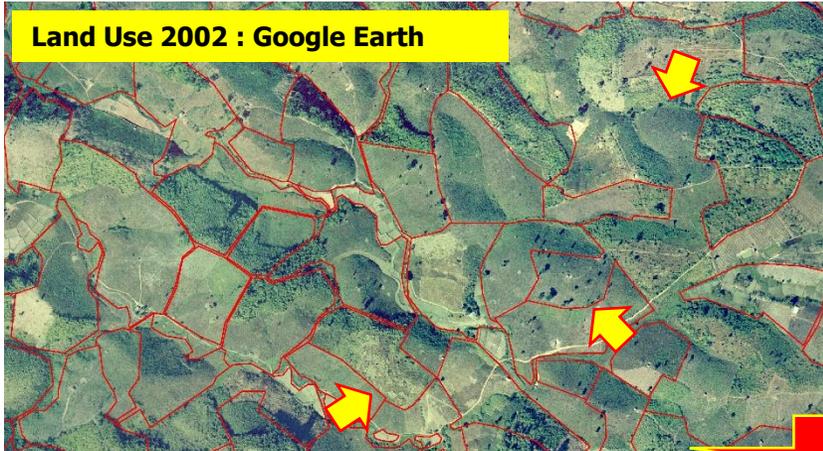
Lhongcord Highland Development Project Using Royal Project System, Chiang Mai Province

Lhongcord Highland Development Project using Royal Project System, Chiang Mai Province



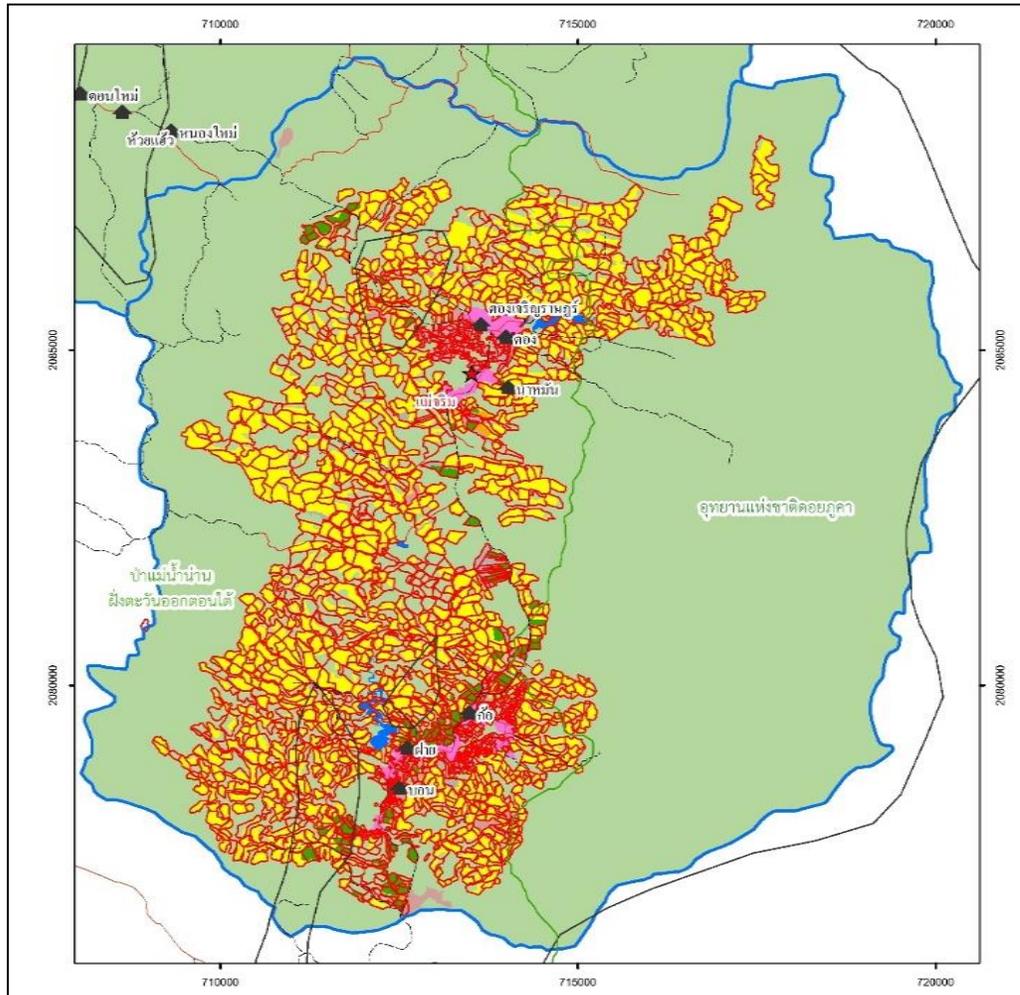
Environmentally-Friendly Agriculture: From Maize to Perennial Fruit Trees

Mae Jarim Highland Development Project Using Royal Project System, Nan Province

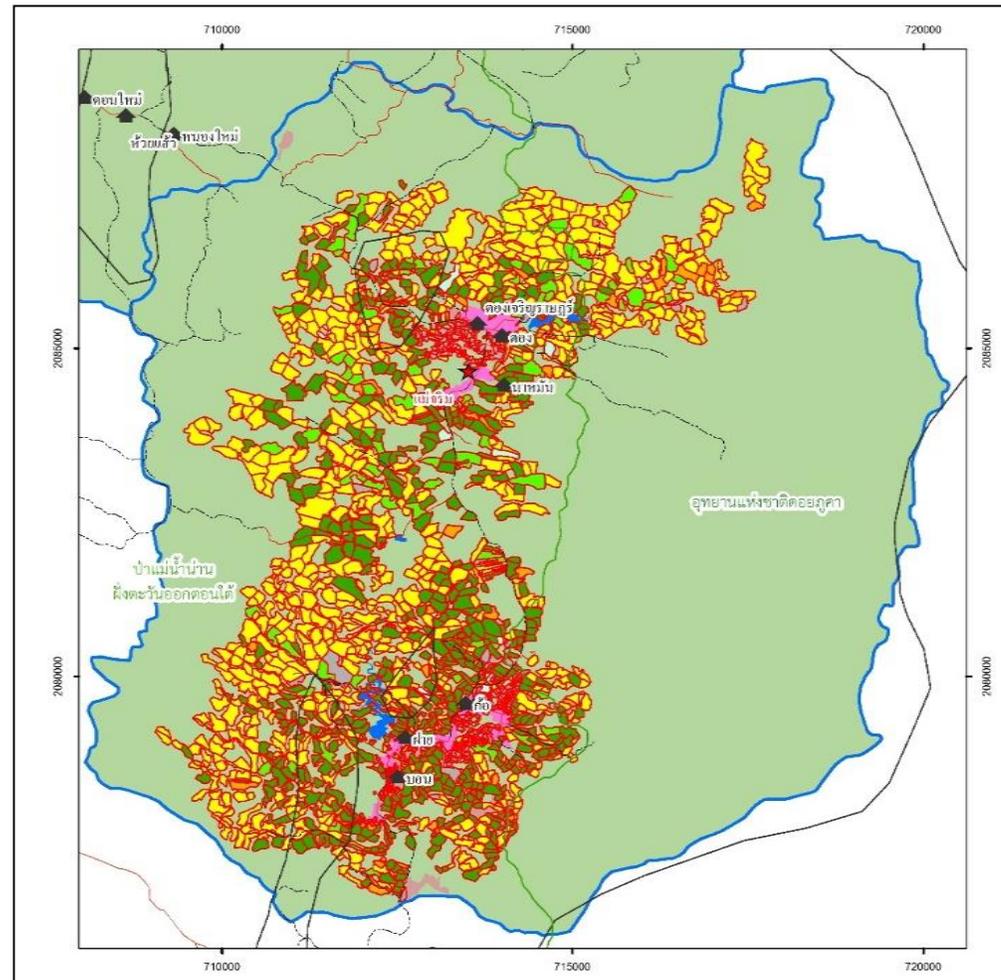


Environmentally-Friendly Agriculture: From Maize to Perennial Fruit Trees

Mae Jarim Highland Development Project Using Royal Project System, Nan Province



2012

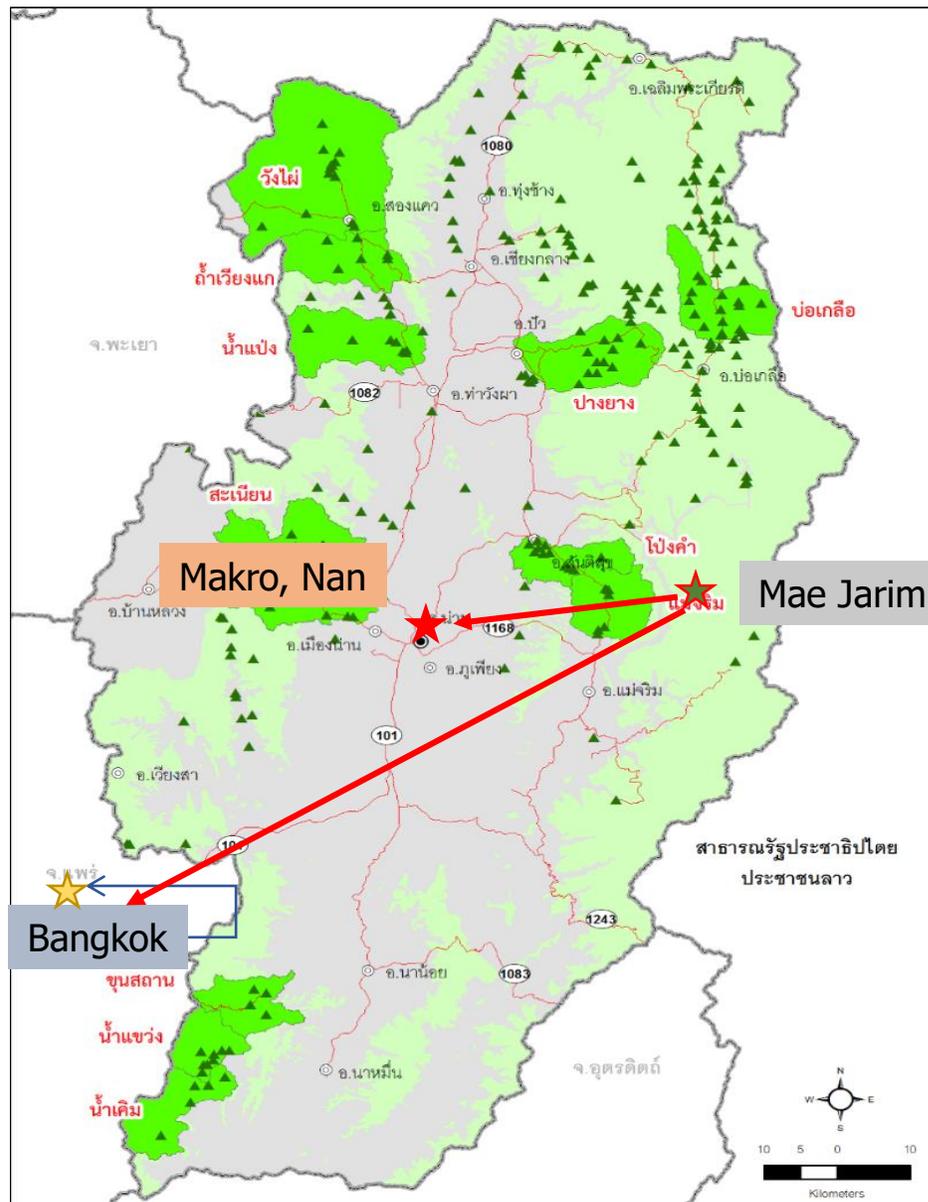


2016

- Forest
- Settlement
- Maize
- Perennial trees
- Rice
- Fruit trees
- Horticulture
- Agroforest

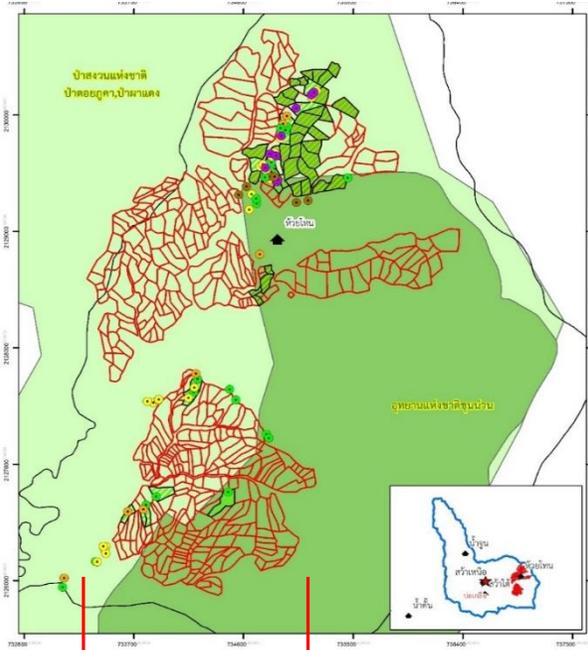
Development Results: Production Standard, Post Harvest Management and Marketing

(Mae Jarim Highland Development Projects Using Royal Project System, Nan Province)



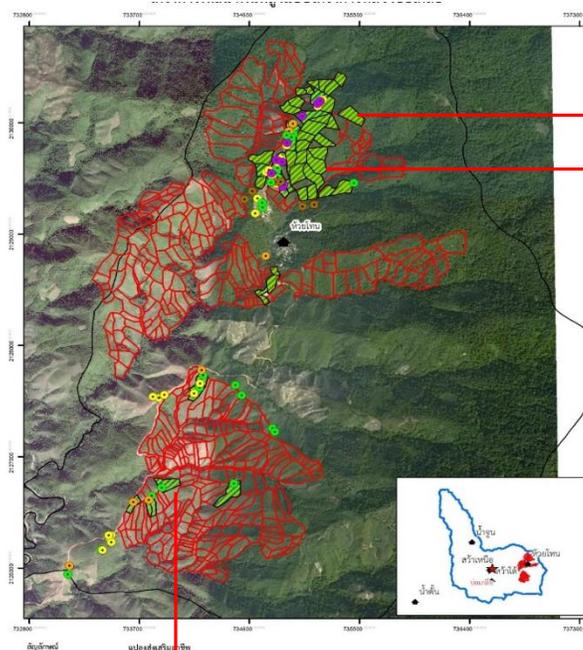
Development Results: Environmentally-Friendly Agriculture Replacing Field Crops

Bo Kluer Highland Development Project Using Royal Project System, Nan Province



National Park

National Preserved Forest



Terrace Paddy Field



Coffee



Vegetables and Fruit in Greenhouses

Development Results: Environmentally-friendly Agriculture



Shifting cultivation



Environmentally-friendly farming



Development Results: Career Opportunities and Living Conditions

Parents



Children



Grandchildren



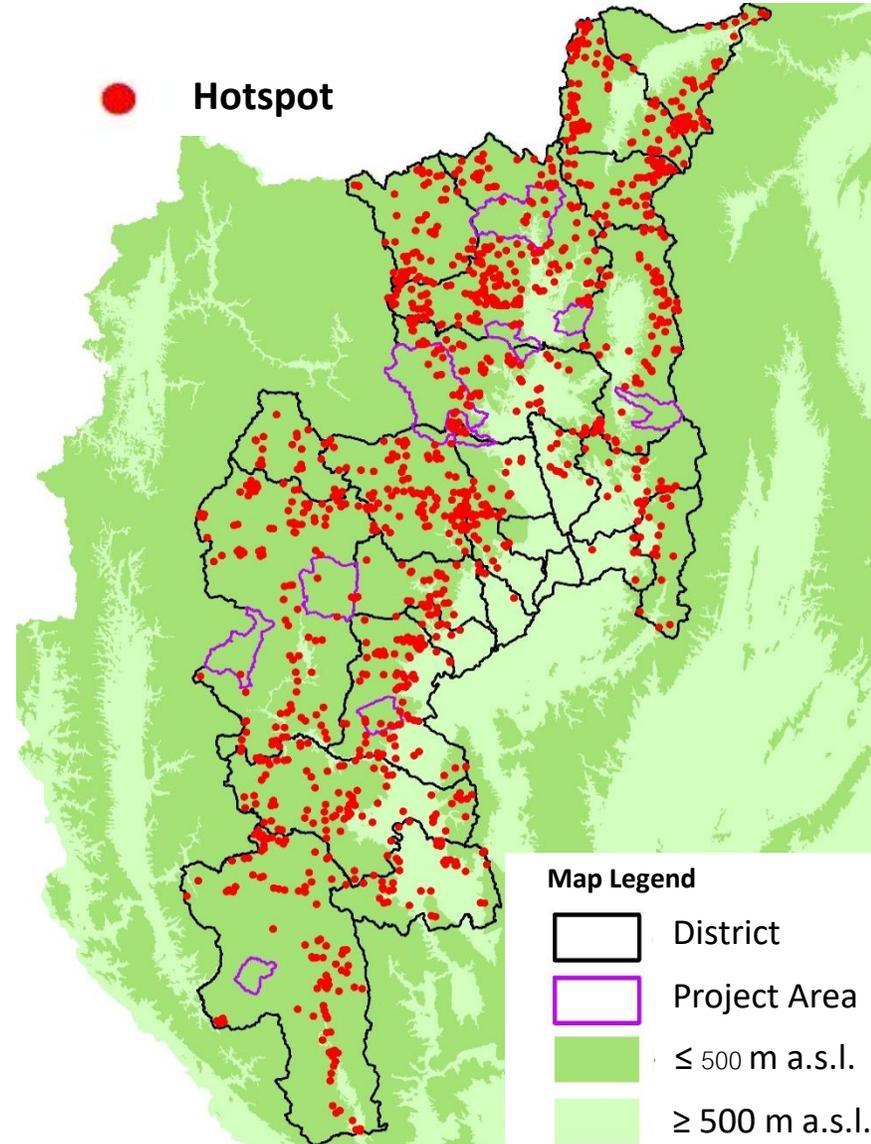
Previous Living

Sustainable Living

Development Results: Burning Reduction with the Environmentally-Friendly Farming (Highland Development Projects Using Royal Project System, 11 Areas in Chiang Mai)

Hotspots (January - April 2019)

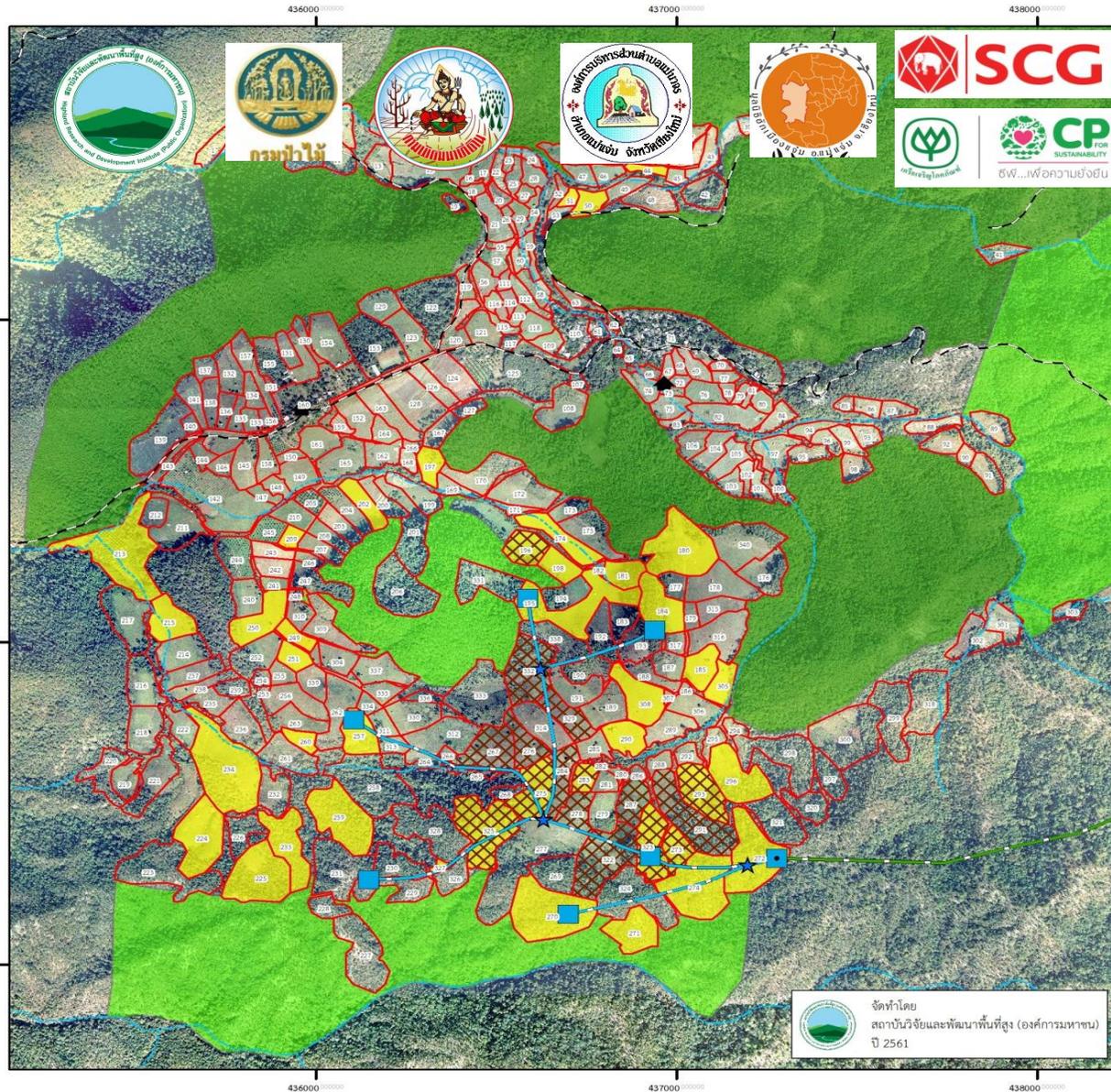
Environmentally-friendly farming



Natural resources conservation and restoration



Development Results: Strengths-Based Communities with Self-Driven Development



Highland Sustainable Development Using Royal Project System

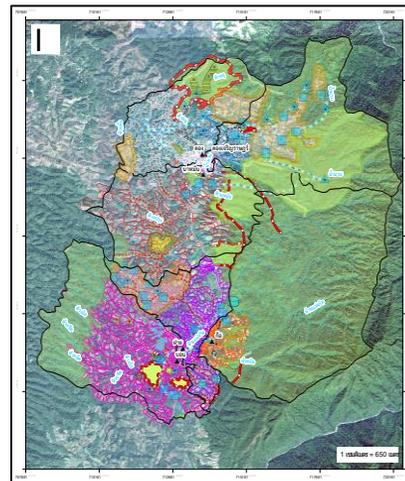
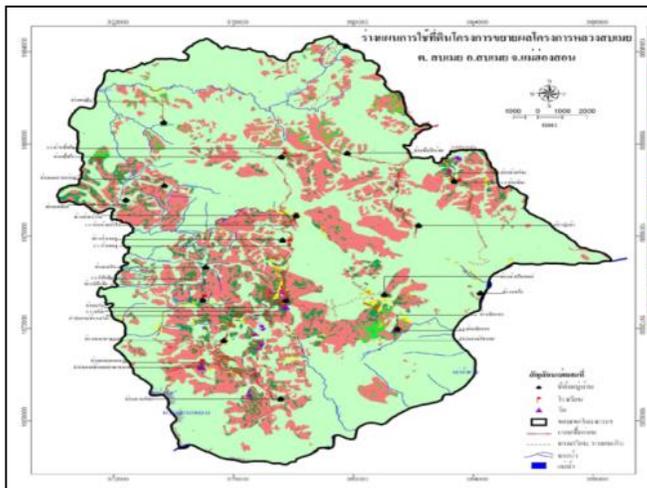
1. Development based on problems, needs and social geography of the communities

Community Plan

5-year Master Plan (2018-2022)
Highland Development Using Royal Project System

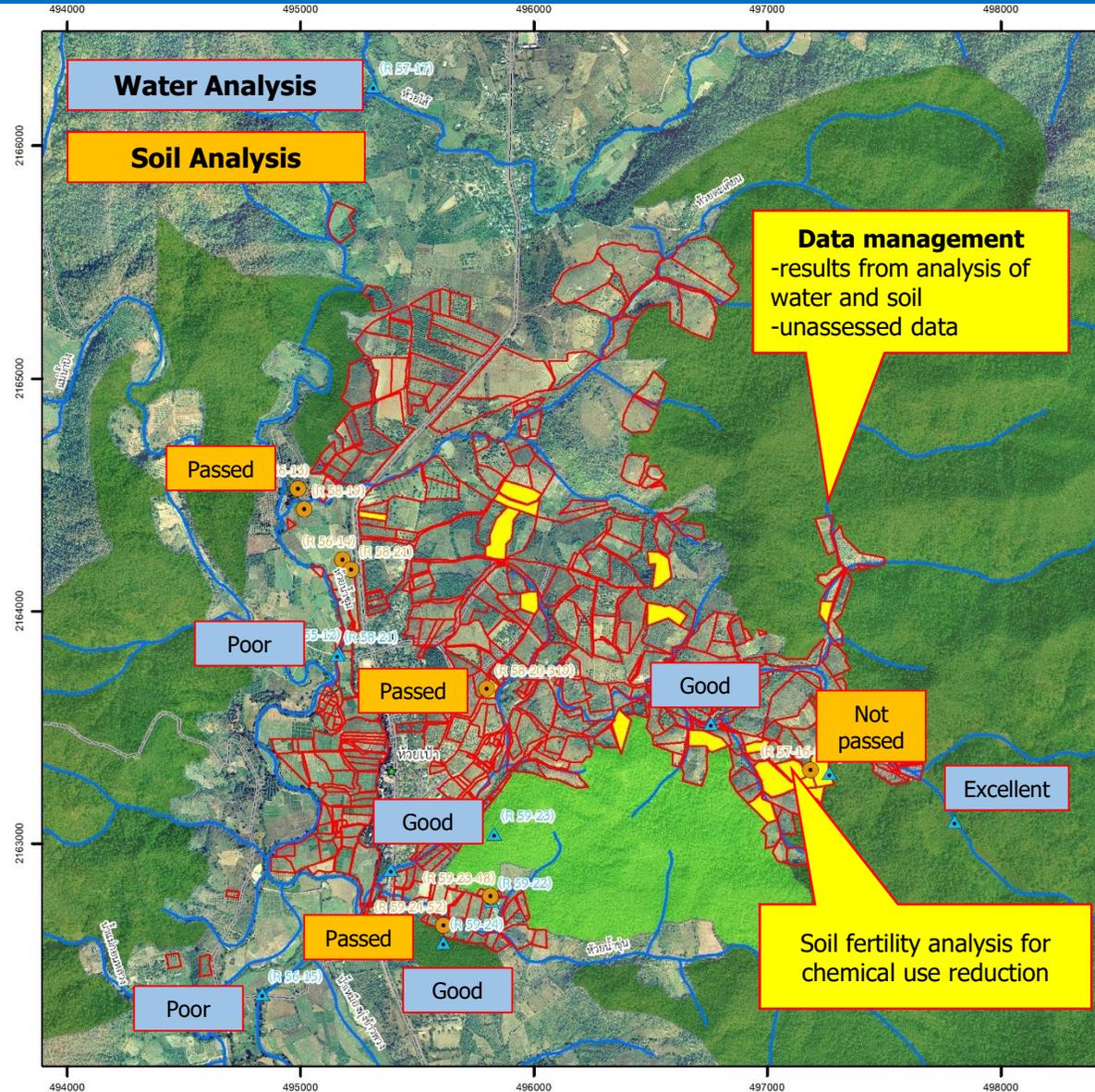
5-year Master Plan (2018-2022)
Highland Development Using Royal Project System:
Area-based and village plan

Annual Plan: Area-based plan
with integration practice
24 organisations



Highland Sustainable Development Using Royal Project System

2. Development based on database



Highland Sustainable Development Using Royal Project System

3. Development based on knowledge management

(Example) Khun Sathan Highland Development Project Using Royal Project System, Nan Province

Capsicum Growing in Greenhouse

Chemical use 11.12 L/rai/p.a.
Sale revenue 211,200 TBH/rai/p.a.



Grape Growing in Greenhouse

Chemical use 7.2 L/rai/p.a.
Sale revenue 779,154 TBH/rai/p.a.



Cabbage Growing in Greenhouse

Chemical use 22 L/rai/p.a.
Sale revenue 5,800 TBH/rai/p.a.



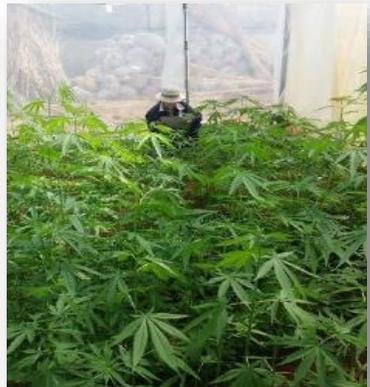
Knowledge.....Development Power.....The Key to Problem-Solving



Multiple Alternative Careers

Delicate production with high returns

Knowledge.....Development Power.....The Key to Problem-Solving



Development based on Knowledge Management

(Example) Highland Development Projects Using Royal Project System

11 areas, 96 communities, Nan Province

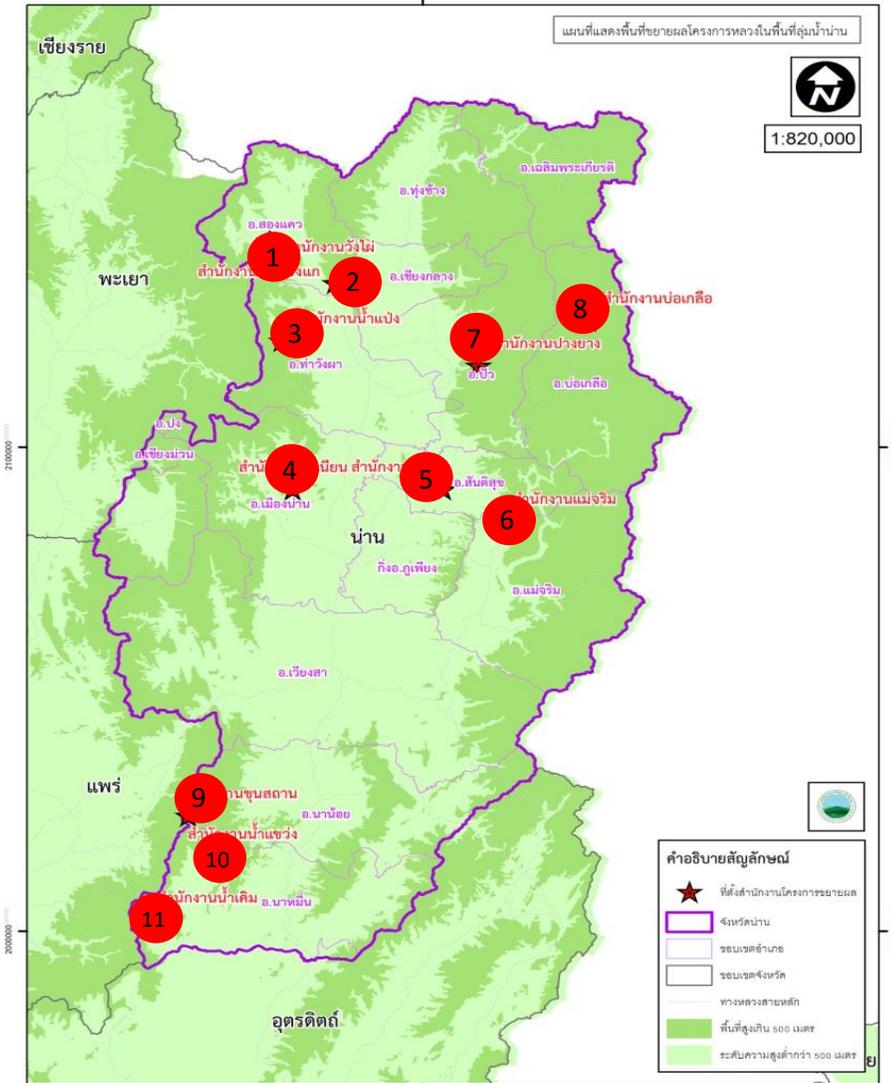
Problems



Research and Development



Well-being Communities Learning Centres



Highland Sustainable Development Using Royal Project System

4. Promotion of environmentally-friendly careers and marketing management



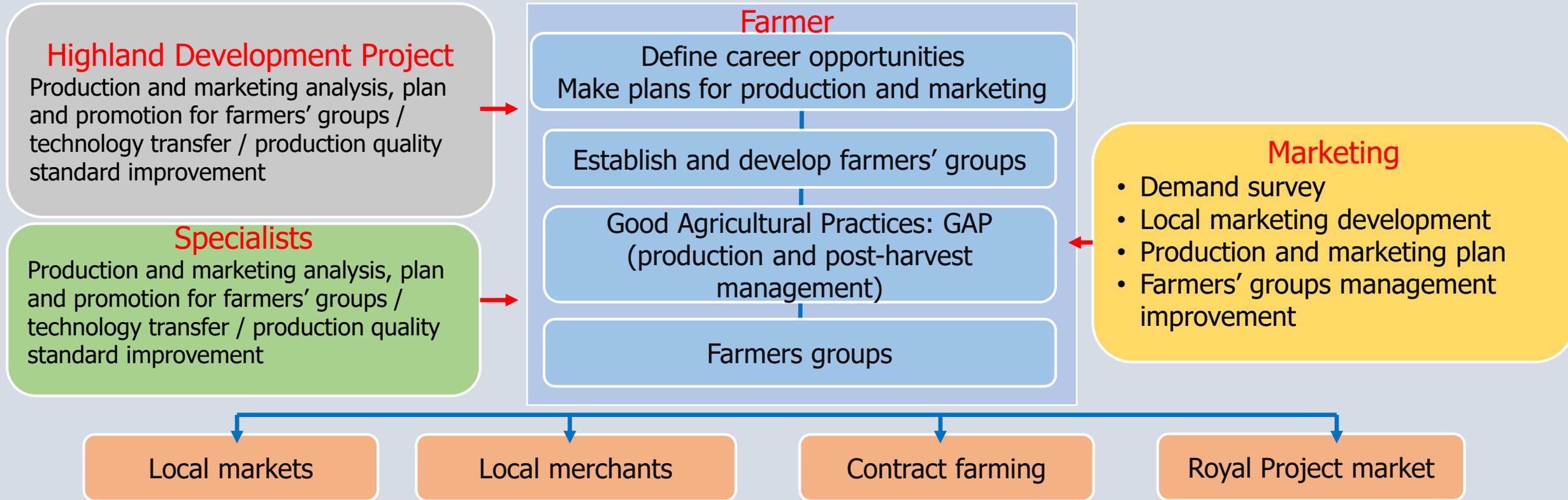
Food Safety Standards/ Post-harvest Management/ Sustainable Markets



Farmers' Market / Farmers' Institutions

Highland Sustainable Development Using Royal Project System

Operation Process



Highland Sustainable Development Using Royal Project System

5. Development of basic infrastructure for career opportunities and well-being



Highland Sustainable Development Using Royal Project System

6. Integration Practice and Community Participation



Multi-parties

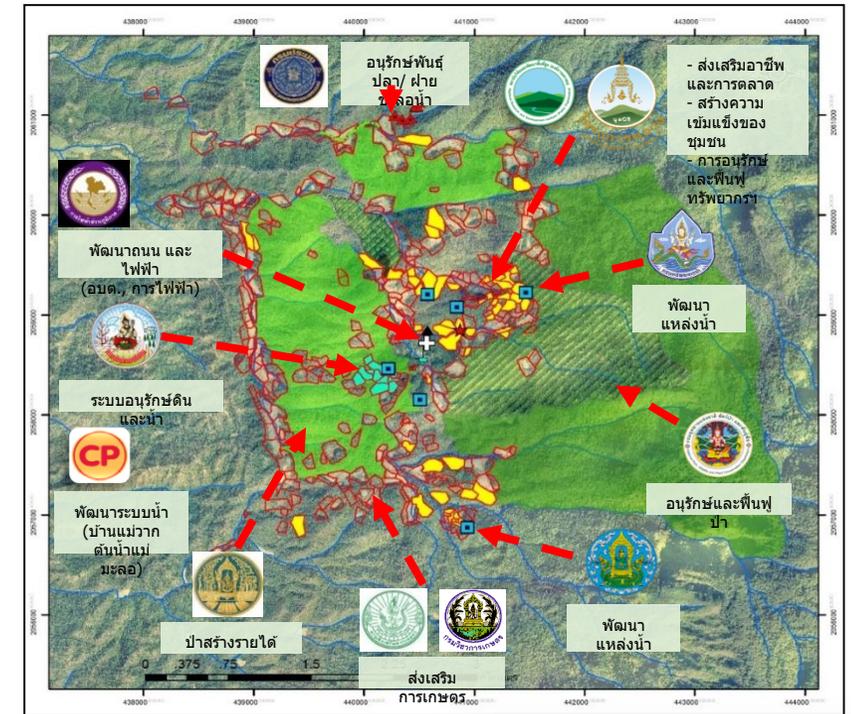


Officers



Operational sites

Highland Research and Development Institute

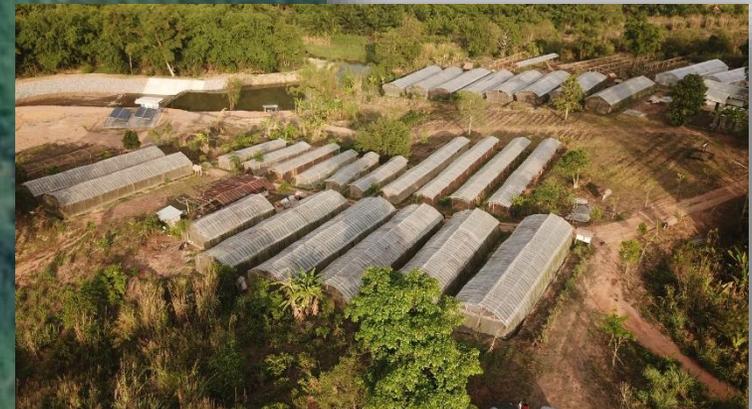


Community



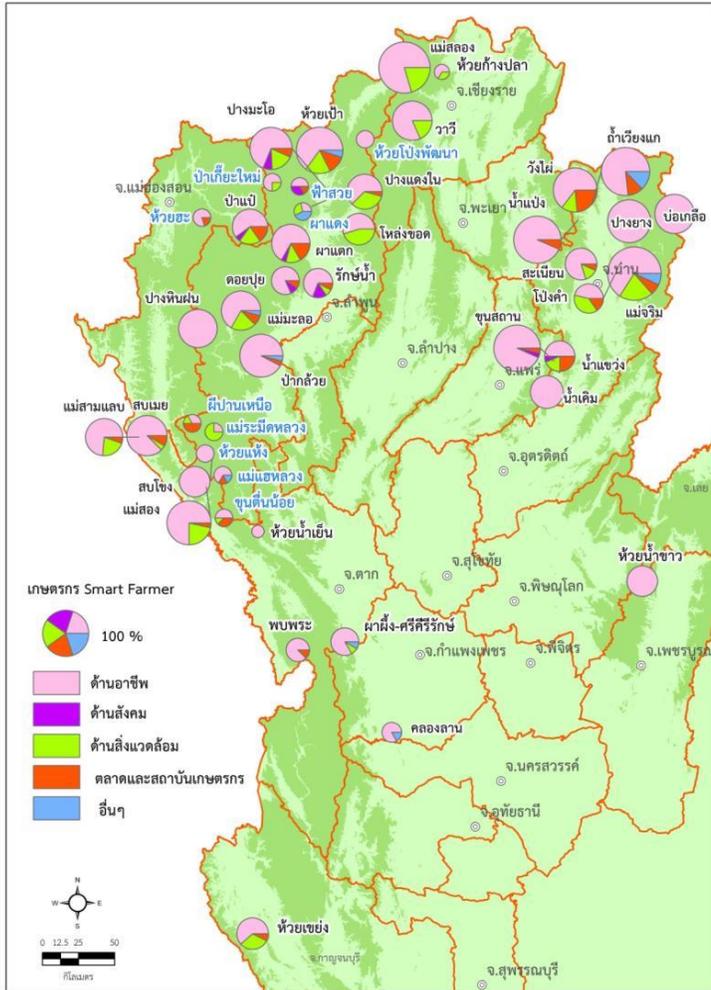
Community leaders

Development Results: Environmentally-Friendly Agriculture with Integration Practice (Huay Kayeng Highland Development Project Using Royal Project System, Kanchanaburi Province)



Highland Sustainable Development Using Royal Project System

7. Community Leader Capacity Building to Drive the Development



Uplifting the community development following the Sufficiency Economy Philosophy, using information and knowledge management

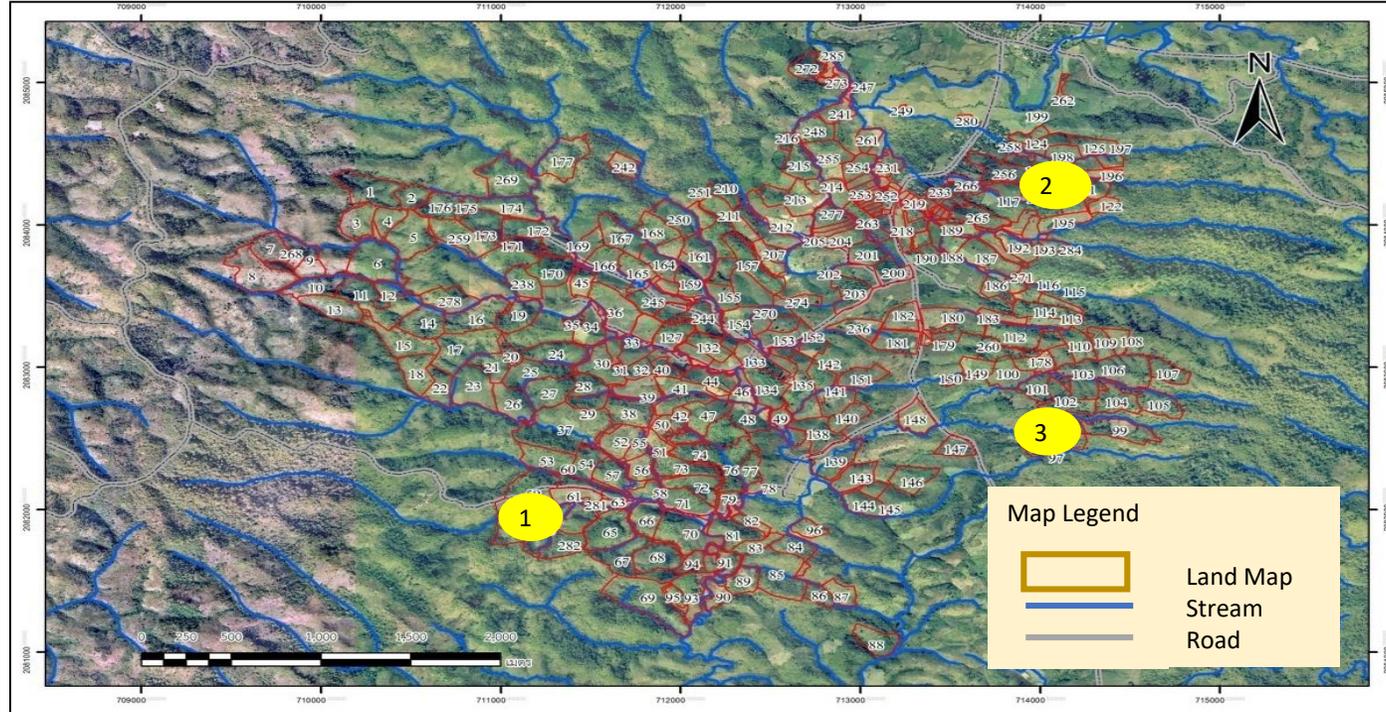
Highland Community Leaders

Farmer Leader Development

1 Mr. Vichian Siriyot
land area: 10 rai



Environmentally-friendly agriculture and natural resources and environment conservation



2 Mrs. Suree Sriburin
land area: 10 rai



3 Mr. Pornpipat Wonglek, land area: 20 rai



Highland Sustainable Development using Royal Project System

8. People-centric and Continued Development



Highland Sustainable Development Using Royal Project System

Following the Sufficiency Economy Philosophy



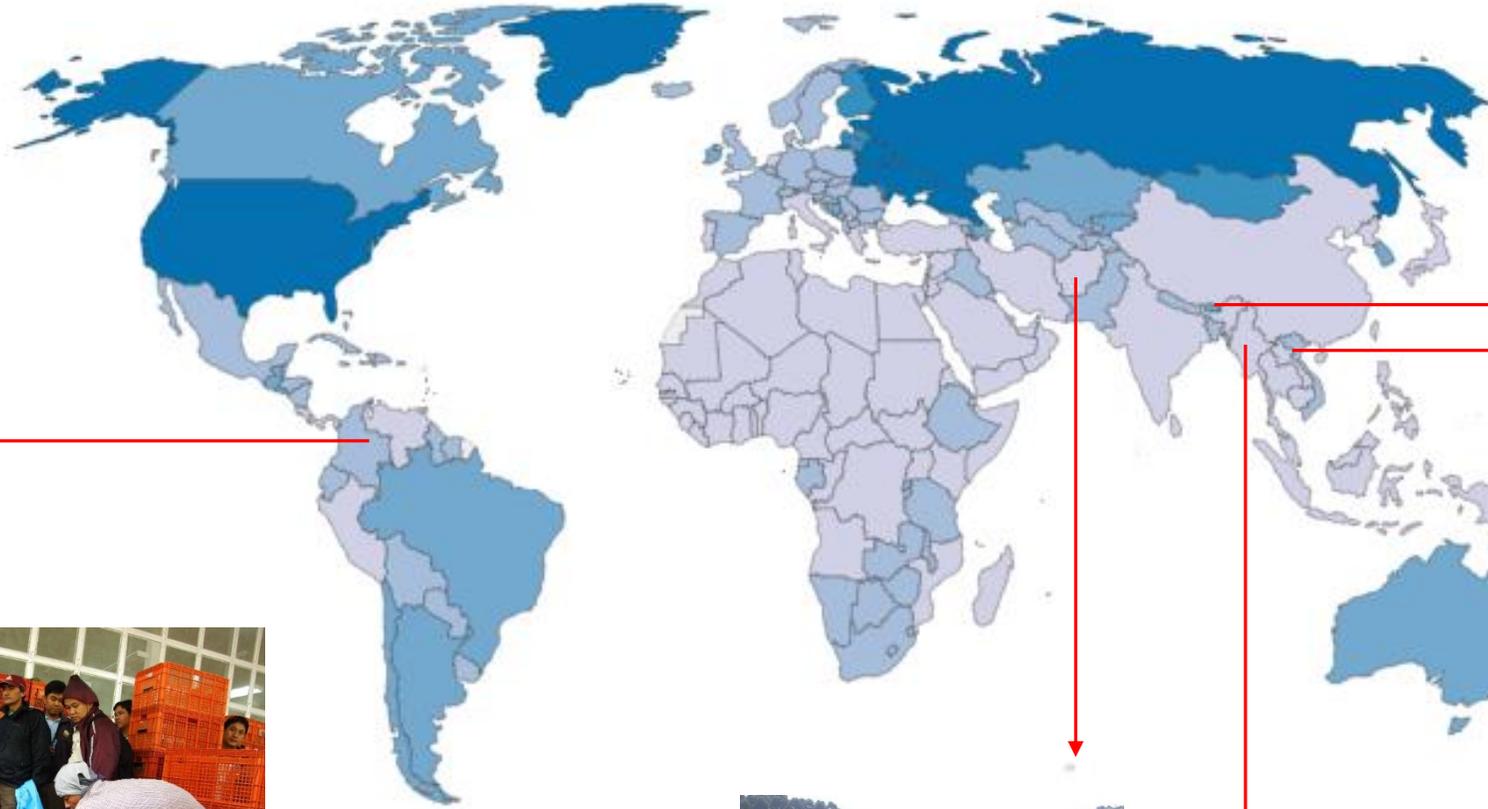
Sustainable Development



Principle Thinking
Analyse, Plan, Develop



International Cooperation



Colombia



Afghanistan



Bhutan



Lao PDR

Myanmar

Highland Sustainable Development Using Royal Project System: Step to International Alternative Development Thai –Lao Technical Cooperation (2009 – 2014)

The Royal Project Foundation and HRDI joined hands with Lao PDR and UNODC on technical cooperation project, encouraging alternative development to improve the quality standard of Lao people



Livelihood Development Programme
after eradication of opium poppy cultivation

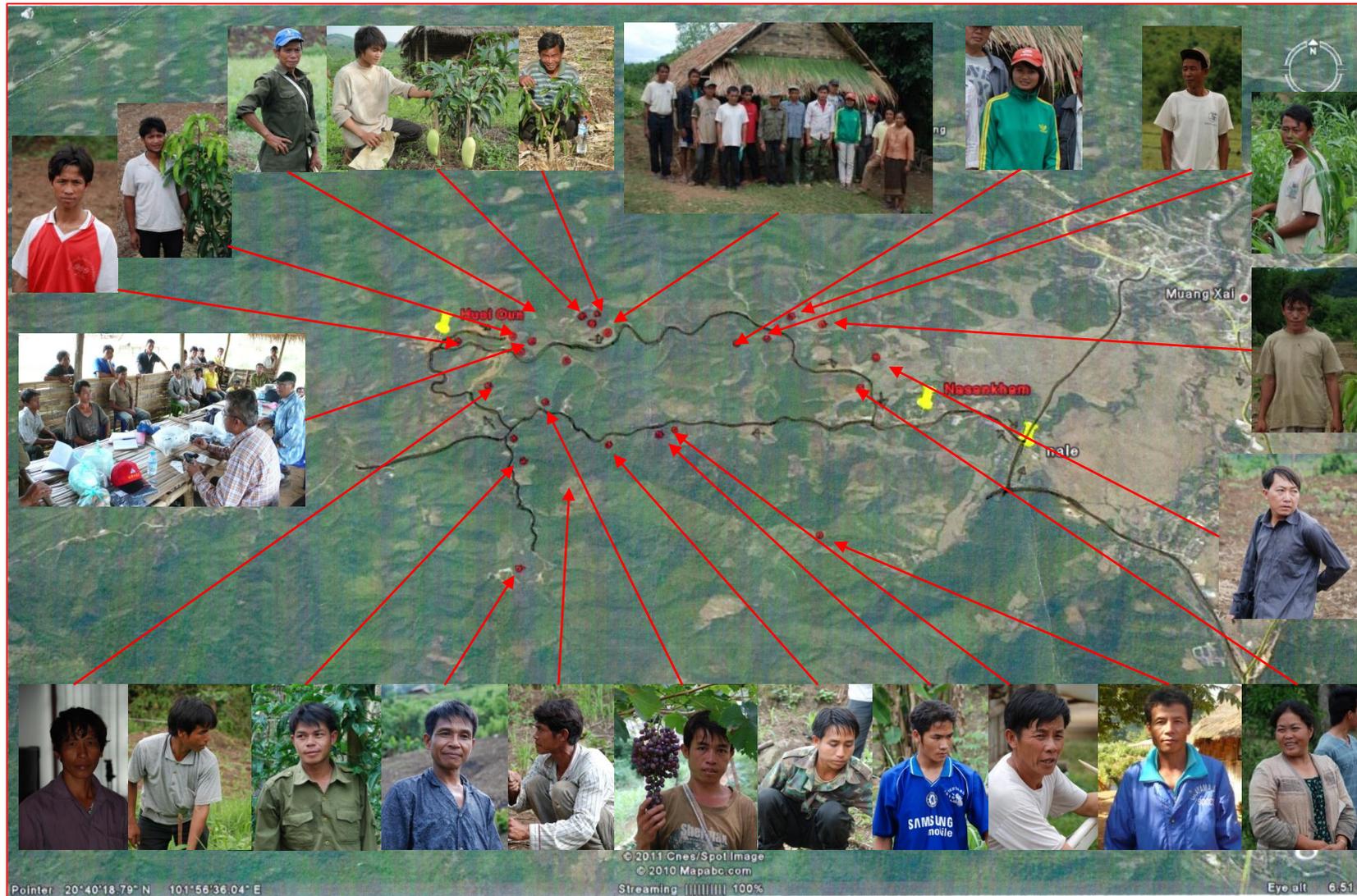
Poverty Reduction with Alternative Career Opportunities



Poverty

Lack of career opportunities after stop growing opium

Promotion of Alternative Development in 2 Pilot Villages



Achievement

- 2 pilot villages has been developed with alternative career opportunities and become learning centres
- Extension programme to over 20 villages in Oudomxai Province and other provinces.



Marketing Leads Production The Key to Development Success

Market survey for development plan
and support of alternative career opportunities



Career Development and Promotion

- Promote new varieties of fruit trees, greenhouse vegetable under safety standards with sustainable markets
- Increase of rice yield



Knowledge Transfer with Hands-on Training and Continuous Learning



Knowledge Transfer with Hands-on Training and Continuous Learning



Basic Infrastructure Development



Understand, access and develop...The Key to Success



Afghanistan

Building Development-Oriented Rural Enterprises Project

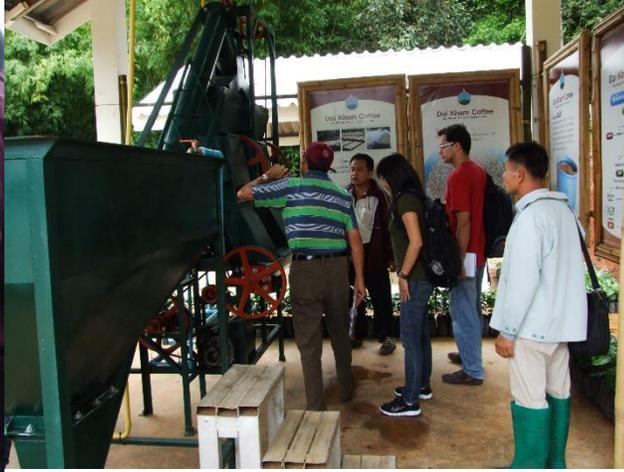
- Support local agricultural business and training



COLOMBIA



- Land Use Planning and Management
- Research for Development
- Post-Harvest Process and Quality Management



- Coffee Post-Harvest Process and Transformation
- Organic & Specialty Coffee Marketing

BHUTAN



- Basic landscaping and designing
- Cut-flower production and management on roses, orchids & chrysanthemum
- Orchid production and management
- Strawberry production and post-harvest technology
- Temperate ornamental fruit tree production and management
- Basic principles of flower arrangement techniques

BHUTAN

- Mushroom production and post-harvest technology
- Vegetable production techniques and post-harvest technology
- Compost, soil and land management technology
- Sub-tropical germplasm fruits & Nuts collection techniques
- Inland fisheries technology and management practices





ขอบคุณมากครับ