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

Sufficient Economy Philosophy/Geographical development/Knowledge and information/
Community participatory/Integrated working between multi-organisations
“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
Thai Highland Village Clusters

<table>
<thead>
<tr>
<th>AREA</th>
<th>Altitude (msl.)</th>
<th>Highland Village Clusters</th>
<th>Percent</th>
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</thead>
<tbody>
<tr>
<td>Less than 500 meters</td>
<td>1,447</td>
<td></td>
<td>35.00</td>
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<tr>
<td>500-1,000 meters</td>
<td>1,985</td>
<td></td>
<td>47.00</td>
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<tr>
<td>more than 1,000 meters</td>
<td>774</td>
<td></td>
<td>18.00</td>
</tr>
<tr>
<td>Total</td>
<td>4,206</td>
<td></td>
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</tr>
</tbody>
</table>

Less than 5,000 m.
- Less than 500 meters: 35%
- 500 - 1,000 m.: 47%
- More than 1,000 m.: 18%

Higher than 5,000 m.
Problem Changes in the Thai Highlands

1969
Estimated highland population: 275,000 people

Poverty
Illicit opium crops

2005
Estimated highland population: 800,000 people

Degradation of natural resources
Shifting cultivation and non-sustained agricultural practices

Poverty / Inequality
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)
Community Development
- Geographical development
- Knowledge development
- Agricultural extension

“...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.”

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

Marketing
- Competitiveness
- Food Safety Standard

His Majesty King Bhumibol Adulyadej’s Royal Speech
Given on 10 January 1974 at Faculty of Agriculture, Chiang Mai university
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**
1. Thai highlands cover 67.22 million 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

1. Career Promotion
2. Strengths-based community building
3. Natural resources conservation and restoration
4. Basic infrastructure development

Strengths-based well-being community and development of natural resources and environment

Private sector
Government sector
Sub-district Administration Organization
On-site officers
Headquarters support staff
Communities/Leaders
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

Forest Plantation: 3 Forests for 4 Benefits

Perennial fruit trees
Greenhouses
Community forest
Settlement
Replanted watershed forest
Buffer zone forest

Aerial photograph 2019

Perennial fruit trees

Forest Plantation: 3 Forests for 4 Benefits

Benefits
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
- Greenhouse vegetables/Perennial Fruit Trees
- Grapes

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

- **Field crops/ Maize**: 93 rai
- **Economic Forests** (mango, longan, wood): 1,075 rai
- **Rice**: 269 rai
- **Arable land**: 1,924 rai
  - 2013: Maize 1,064 rai
  - 2018: Maize crops decreased almost 100%
  - More diverse crops
  - Recovery of forest areas
- **Watershed Forests**: 3,009 rai
- **Conserved Forest**: 13,662 rai
- **Reforestation Areas**: 487 rai

Mae Sai Na Lao Village: 18,995.16 rai
Environmentally-Friendly Agriculture: From Maize to Perennial Fruit Trees
Mae Jarim Highland Development Project Using Royal Project System, Nan Province
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
- Vegetables and Fruit in Greenhouses
- Coffee
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)

Environmentally-friendly farming

Hotspots (January - April 2019)

Natural resources conservation and restoration

Map Legend
- District
- Project Area
  - ≤ 500 m a.s.l.
  - ≥ 500 m a.s.l.
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

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

Community Plan
Highland Sustainable Development Using Royal Project System

2. Development based on database

Water Analysis
Soil Analysis

Data management - results from analysis of water and soil - unassessed data

Soil fertility analysis for chemical use reduction

Passed
Poor
Good
Not passed
Excellent

Water Analysis
Soil Analysis

Passed
Poor
Good
Passed
Good
Passed

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
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 Development Project**
- Production and marketing analysis, plan and promotion for farmers’ groups / technology transfer / production quality standard improvement

**Specialists**
- Production and marketing analysis, plan and promotion for farmers’ groups / technology transfer / production quality standard improvement

**Farmer**
- Define career opportunities
- Make plans for production and marketing
- Establish and develop farmers’ groups
- Good Agricultural Practices: GAP (production and post-harvest management)

**Farmers groups**
- Good Agricultural Practices: GAP (production and post-harvest management)

**Marketing**
- Demand survey
- Local marketing development
- Production and marketing plan
- Farmers’ groups management improvement

**Local markets**
- Local merchants
- Contract farming
- Royal Project market

**Farmers groups**
- Good Agricultural Practices: GAP (production and post-harvest management)
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

Highland Research and Development Institute

Operational sites

Community leaders

Community
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
Farmer Leader Development

Environmentally-friendly agriculture and natural resources and environment conservation

1. Mr. Vichian Siriyot, land area: 10 rai
2. Mrs. Suree Sriburin, land area: 10 rai
3. Mr. Pornpipat Wonglek, land area: 20 rai

Map Legend:
- Land Map
- Stream
- Road
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

Well-being Communities
1. Environmentally-friendly career with sufficient income
2. Natural resources and environment conservation
3. Strengths-based communities
4. Access to basic infrastructure

Sustainable Development

Integration and Participation

Community
Institution
Organizations

Principle Thinking
Analyse, Plan, Develop

Sufficiency Economy Philosophy
- Reasonableness
- Moderation
- Self-immunity
- Knowledge
- Ethics

Reasonableness
Moderation
Self-immunity
Knowledge
Ethics
Highland Sustainable Development Using Royal Project System: Step to International Alternative Development

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

Building Development-Oriented Rural Enterprises Project

• Support local agricultural business and training
• Land Use Planning and Management
• Research for Development
• Post-Harvest Process and Quality Management
• Coffee Post-Harvest Process and Transformation
• Organic & Specialty Coffee Marketing
• 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
• 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
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