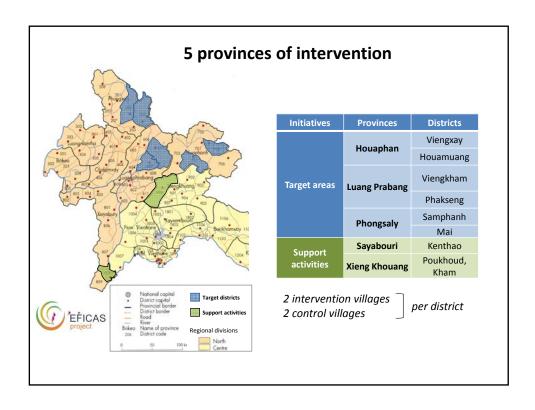


The project at a glance



- **4 years** (March 2014 March 2018)
- Co-funding between
 - EU (Global Climate Change Alliance GCCA)
 - AFD (Northern Upland Development Program)
 - CIRAD and MAF / DALaM
- Jointly implemented by DALaM and CIRAD
- Main objective: Supporting the agro-ecological transition in the mountainous areas of northern Laos
- Contribute to CANSEA and ALISEA networks





Background

An agrarian transition in northern Laos characterized by

- Rapid changes in agricultural production systems in line with:
 - an increased access to markets (coexistence of market-oriented and selfsubsistence agricultural systems)
 - an increased vulnerability of village communities to climatic and economic fluctuations.
- Significant impacts on:
 - natural resources: reduced forest cover, degradation of agricultural land
 - village communities: overall poverty reduction but increased inequality and indebtedness
- Low adoption of agro-ecological innovations promoted by research and extension institutions



Challenges faced

Development

- Make village communities of northern Laos more resilient to external shocks (climatic, economic)
- 2. Design and disseminate agricultural **production systems** that would be more **eco-friendly**
- Make agroecology visible on the map / show that agroecology can be applied on a large scale

Scientific

- How can farmers be more involved in the innovation process?
- 2. How (co-) assess the performance and impact of alternative production systems?
- 3. What intervention mechanisms to support the adoption and widespread dissemination of innovative practices?



Co-design and co-evaluation: the driving forces behind agroecological innovation

The expected results of EFICAS Project

- In NUDP target areas (3 provinces)
 - Engage village communities into eco-friendly and climate smart agricultural transitions that are visible at landscape level
 - Empower local stakeholders (e.g. VLMC members) to engage in adaptive planning and implementation of local development pathways
 - Strengthen GoL institutions in their capacity to implement landscape approaches to agroecology
- Outside NUDP area (support activities in Xkg and Saya)
 - Document agrarian transitions in areas long engage in permanent commercial agriculture
 - Understand the drivers of LU changes at landscape and household levels
 - ➤ Identify "the windows of opportunity" for CA and agroecological innovations



Some lessons from the initial stages of the project

 The adoption and dissemination of agro-ecological practices is subject to organizational constraints and / or individual development strategies e.g. Anticipate problems and negotiate solutions

Example 1. Animal free roaming

Animal free roaming is a major constraint to the adoption of agroecological practices, e.g. need to protect cover plants and crop residues in conservation agriculture.

The regulation of animal roaming and the creation of livestock areas are necessary.

The regulation of animal roaming and the creation of livestock areas are necessary conditions for the ecological intensification of cropping systems in sloping areas.



EFICAS

Example 2. Expansion of cultivated areas

The gain in productivity resulting from the adoption of technical innovations such as mechanization or the use of herbicides are generally reinvested into an expansion of cultivated areas, to the detriment of forests.

The land use plans that define the agricultural and forest areas of the villages must be negotiated upstream and respected by the farmers.

Some lessons from the initial stages of the project

Use territorial approach

- Any project concerned with the improvement of cropping systems should also focus on improving livestock systems, and on how forest resources are used and managed.
- A territorial approach is therefore an essential support for co-design because it integrates spatial dynamics and interactions / flows between all the components of the agrarian system.



Some lessons from the initial stages of the project

Involve all development stakeholders in the innovation process from the outset

- Agro-ecological transition is rarely the priority of village communities.
- Improved access to water, electricity, health, education and / or safer agricultural outlets are often perceived as more important and urgent by rural populations than agronomic and / or zootechnical problems.
- Whatever the project's R&D theme, the project must take account of local priorities and must play a facilitating role in finding appropriate solutions.
- This is a necessary condition for engaging village communities in planning dynamics that really make sense because they respond to perceived issues
 - The search for common intervention with other projects, for complementarities (agriculture, forestry, nutrition, transfer of scale etc.) are important elements of the long-term support of territorial projects





Project main achievements so far

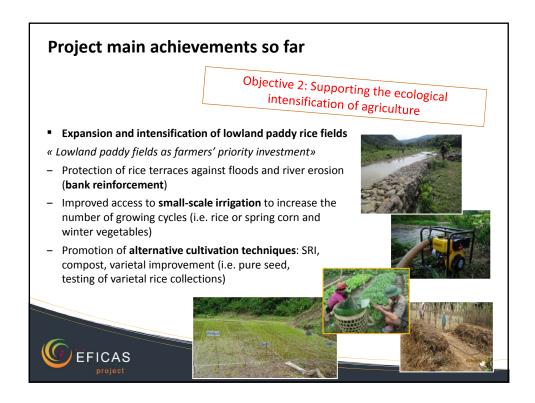
Objective 1: Increase the involvement of village communities in sustainable land management

- Participatory planning and management of village territories
 - Revision of Participatory Land Use Plans (PLUPs) or negotiation of first PLUPs,
 - Extension of these PLUPs into Community Agricultural Development Plans (CADPs), setting medium-term objectives and indicators of achievement (2017) and sharing of responsibilities between actors,
 - Annual review and adaptation of CADP plans
- Capacity Building for Village Land Management Committees (VLMC)
 - Empowerment of the members of the committee through the establishment of a budget and support for the monitoring and evaluation of field activities,
 - Exploration with VLMC members of scenarios aimed at reducing vulnerability to external shocks (e.g. climate change, price fluctuations)











Objective 2: Supporting the ecological intensification of agriculture

- Sustainable management of agricultural land
 - Protection of riparian forests through the promotion of cardamom-based agroforestry systems,
 - Facilitation of contractual commitments between private companies and farmer groups for coffee and soybean production,
 - Land security: Lowland paddy land registration to facilitate farmers' engagement into soil fertility sustainable management.

