Adding values to agriculture:
A vision & roadmap for sustainable development in the Lao Uplands

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Background

This document summarizes the main results of the Lao Uplands Initiative, a knowledge capitalization process that took place over a six-month period under the umbrella of the Ministry of Agriculture and Forestry of the Lao PDR. As the Lao Uplands are under high pressure for change, competing visions for development of the Lao Uplands prevail.

The overarching question the Lao Uplands Initiative addressed was therefore:

**Are the Lao Uplands on the right path… towards a sustainable development?**

A consortium of projects and institutions engaged in the Lao Uplands Initiative to (i) reflect on recent transformations and their impacts on upland populations, (ii) take stock of main lessons from past and ongoing interventions, (iii) review policy options for a green growth, and (iv) develop a road map towards Sustainable Development Goals. This process and its outputs are summarized in this document.
Development challenges in the Lao Uplands

1.1. Changing uplands – changing vulnerabilities

Over the past decade the Lao People’s Democratic Republic (Lao PDR) has experienced a rapid economic growth with average Gross Domestic Product (GDP) growth reaching 7.8% per year thanks to intensive use of the country’s natural resources through mining, forestry, and hydroelectric power (illustration). Today, Foreign Direct Investments (FDI) on hydropower and mining represent 1/3 of Lao economic growth whereas agriculture counts for only 15%. These large scale investments are essentially made in the upland areas, which make up about 75% of the national territory. More recently, regional integration of Lao PDR through China’s Belt and Road Initiative and the Regional Comprehensive Partnership ASEAN emerged as a key driver of change, with major infrastructure expansion (e.g. railway and highways) underway at the national and regional levels.

Agriculture dominates household economies and livelihoods in the Lao uplands, although prevailing levels of labor productivity are low. Between 2000 and 2014, agricultural growth averaged only 3.4 percent per year mainly driven by an expansion in land under cultivation rather than through productivity improvements. Indeed, most upland farming households are engaged in subsistence cultivation, with less than 30 percent of farm households reporting to produce primarily for sale in 2011. While more than 1 million ha have been given over to agricultural land concessions such alternative model of agricultural development has not noticeably contributed to sector growth or improved employment or productivity. The ‘turning land to capital’ policy implemented since 2007 was expected to boost agricultural productivity thanks to modern, so-called scientific, agricultural techniques that would be brought in by investors in charge of developing the land allocated under concession. But in most cases, the expected jump in productivity did not eventuate despite land use intensification. In many cases, the high use of chemical inputs and mechanical tillage led instead to land degradation, soil and water pollution, and threats to human health (e.g. banana, sugarcane, rubber plantations). Furthermore, the commodities produced have been exported to neighboring countries as raw agricultural products leaving very little added value to the local economy and increasing the dependence of upland farmers towards external markets.

The benefits of these changes for local populations have been relatively limited as uplands livelihoods are predominantly agrarian and largely disconnected from these externally-driven development trends. However, many upland communities were impacted by the ‘turning land into capital’ model of development as they have been displaced or excluded from their traditional lands to make space for large projects and economic concessions. In general, the economic growth has not been inclusive and disparities have increased over time especially between upland and lowland areas (NIER, 2017).

Although the country has achieved a national surplus in rice production, nearly half of Lao children under five years of age are chronically malnourished (stunted or height-for-age). The incidence of stunting is particularly high in uplands communities. Little progress has been observed over the past decade as 44% of children under the age of five are affected today by insufficient access to diverse foods as compared to 48% in the early 2000s. Upland areas still lag behind in terms of physical connectivity, access to water for domestic consumption and sanitation, and access to social services, education and economic opportunities. Despite good results of poverty reduction policies vs absolute poverty falling from 34% to 23% between 2003 and 2013, the upland population remains vulnerable to frequent shocks in the absence of effective risk mitigation measures (WFP, 2015).

Vulnerability refers to the degree to which a system is unable to cope with, or adapt to, the negative effects of external shocks. Upland communities have long been exposed to climate disasters including damaging storms and droughts and have developed adaptive strategies over the centuries. But today, climate change is adding to the vulnerability by changing weather patterns, resulting in more frequent and severe events. Gradual integration to the market economy adds new risks related to market failures, unfair farming contracts, and price fluctuations undermining the capacity of upland communities to manage the risks of natural disasters and build more resilient livelihoods. Crop pests (including recent locust outbreaks) and livestock diseases are recognized by farming households as the most threatening hazards to their traditional livelihoods. However, these threats often are the symptoms of entrenched environmental changes related to land degradation, biodiversity loss, etc. that undermine agricultural productivity, increase risks and weaken farming-based livelihoods.

Quick facts

• 2/3 of the total area of Lao PDR is mountainous with poor infrastructure and socio-economic development is heavily dependent on agriculture.

• 1/4 of the total population in Lao PDR lives in mountainous areas and is exposed to new vulnerabilities related to climate change and market uncertainties.

• 1/3 of the population in upland areas is still below the poverty line and face malnutrition and marginalization.
1.2. Re-connecting upland areas to economic growth

The 8th National Socio-Economic Development Plan (NSEDP 2016-2020) aims at re-connecting upland communities with overall economic growth (WB, 2017). This objective is particularly challenging as rough terrain and remoteness are disadvantaging upland communities compared to communities in the lowlands, i.e. poor access to public services and markets. These constraints add to the country’s development constraints in general, i.e. low population density limiting the available labor force, purchasing power and consequently the size of the domestic market, a landlocked geographic situation that limits integration and competition in international markets, low opportunities for remunerative employment, alternatives in manufacturing or services sectors. The prospect of graduation from the Least Developed Countries (LDC) list may result in even more pressure on the Government as donor aid programs will be impacted by this change in official development status with an expected decrease in foreign aid. In this case, the Government would need to find other sources of revenue to replace the income lost from the Official Development Assistance (ODA) and the decline in the privileged trade treatment granted to Laos which would impact the manufacturing and export sectors. In addition, the Government policy of reducing the number of civil servants in an attempt to balance the national budget will have an impact on its capacity to implement the planned reforms in the coming years.

The proposed shift from a resource-based model of upland development to non-resource sector growth requires managing the natural resource base more sustainably. Green growth is defined as a path of economic growth that uses natural resources in a sustainable manner. It promotes inclusive development and innovation. The Lao National Green Growth Strategy has been put forward as a key instrument of a smooth transition in development models with a focus on agro-processing, tourism, and small and medium enterprises (SMEs) to achieve the SDGs. However, competing visions remain on how to implement green growth, namely (i) the strengthening of education and vocational training to build rural people’s capacity in order to ensure their skills for work in urban areas.

In the context of the Lao uplands, smallholder agriculture appears as the most promising option towards food security, sovereignty and safety. However, it has not given yet its full potential as productivity and profitability are constrained by a number of structural problems such as low availability of high-quality seeds, limited access to irrigation, to finance, to market and insecure land tenure. The reach and effectiveness of farm advisory services is limited. Collective action is also limited because there are very few farmers’ organizations providing technical or commercial services to farmers. Agricultural value chains are highly fragmented with large numbers of small intermediaries. There have been limited advances in increasing the quantity of output because of limited direct sourcing by agribusinesses from farmers, inadequate postharvest management, underinvestment in value chains and public market infrastructure, and inadequacies in the 'soft' infrastructure for food quality (i.e., product standards, raw material traceability systems, consumer food safety awareness, etc.). A long and complex transformation is ongoing, away from the former subsistence-based agriculture relying on shifting cultivation and extensive husbandry of roaming animals towards a new smallholder-based agricultural model. Competing visions exist on how this emerging model should look but expectations are high. The development community calls for a climate-smart, nutrition-sensitive and gender-inclusive model of Lao uplands agriculture.

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Quick facts

- Doing more with less. Less ODA support after LDC graduation, combined with the reduction of civil servant numbers will require a reorganization of intervention mechanisms.
- Competing visions remain for green growth in the uplands, with alternative development pathways, i.e. niche vs industrial agriculture, non-farm jobs in mountain areas and rural-urban migration.
- Smallholder agriculture can ensure food security, sovereignty and safety in response to the increasing domestic (and tourist) demand for ‘clean and green products’ that is currently supplied by neighboring countries.
2. The Lao Uplands Initiative

2.1. Objectives & methods

The future model of agricultural development based on (i) productive climate-resilient farming systems; (ii) diverse, nutrient-balanced, and safe food consumption patterns; and (iii) improved rural income through commercialization combined with women’s empowerment, may appear out of reach when analyzing the current status of upland agriculture. However, since the last Lao uplands conference on Poverty Reduction and Shifting Cultivation Stabilization in the Uplands of Lao PDR, more than a decade ago, which proposed a number of practical options in the form of a source book (Improving Livelihoods in the Uplands of the Lao PDR - 2005), many projects have been conducted by the Government with the support of Development Partners, with some of them prefiguring or contributing to the future model of upland agriculture. In addition, from 2011 to 2015, the Northern Uplands Development Program (NUDP) supported a long series of consultations that involved a large range of uplands’ stakeholders and led to the Lao Uplands Development Strategy and Program, officially endorsed by the Ministry of Agriculture and Forestry in 2016. In 2018, a consortium of projects and institutions organized the Lao Uplands Initiative to (i) reflect on recent transformations and their impacts on upland populations, (ii) take stock of main lessons from past and on-going interventions, (iii) review policy options for a green growth, and (iv) develop a road map towards achieving the Sustainable Development Goals.

In the context of Lao PDR, organizing a lively debate involving multiple stakeholder groups and power imbalances was very challenging using a conference format. Compromises had to be found between the short time policy makers could dedicate to such an event and the necessary logistics to get a large group of 250 persons to engage in meaningful discussions. Splitting the assembly into smaller groups would have prevented all participants from gaining access to the overall picture, which was only possible by attending all sessions. It was therefore decided that the overall Lao Uplands Initiative would be organized over a six-month period (November 2017 to May 2018), and would take the form of a series of workshops and consultation meetings, including the Lao Uplands Conference organized in Luang Prabang from 12 to 14 March 2018 (laouplands.org). This conference was organized around the ‘hot topics’ that emerged during the preparatory meetings, e.g. reducing poverty in the uplands, addressing livelihood options and looking at the big development picture. We had to look at the respective roles of the Government, development agencies and donors, as well as the private sector in collectively designing concrete development pathways towards SDGs. Learning from projects and past interventions and looking at the conditions for the generalization of success stories: costs (financial, human) and conditions (enabling environment), were ambitious objectives for such a short timeframe. It was particularly challenging to address cross-cutting issues with large multi-stakeholder groups with none of the participants feeling able to respond to crucial issues or to debate them publicly. We therefore decided to collect questions and comments during the successive events, using the Sli.Do App. on smartphones (www.sli.do). SliDo allowed participants to anonymously send questions and comments. It also provided an open arena to express their reactions to the presentations. However, direct responses could not be provided to all the participants’ concerns because of the limited time available. The many questions and comments were further discussed within smaller groups during the wrap-up meeting of the Conference and shared on social media (Facebook). They were incorporated into the learning briefs that are the main output of this knowledge capitalization process. The briefs capture the essence of the debates that took place along the successive steps/consultations and literature into clear and concise messages that can be shared with the general public.

Quick facts

• Key messages have been synthesized and discussed with participants during the six-month period of the Lao Uplands Initiative.
• The Lao Uplands Conference allowed participants to share the experiences of different uplands projects, with booths, videos, posters, and hands-on workshops.
• The main outputs of this knowledge capitalization process were then captured into learning briefs for further discussions with Government agencies and development partners.
Thematic workshops organized as part of the Lao Uplands Initiative

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<th>Date</th>
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<td>Soil carbon is what we need!</td>
<td>DALaM, CIRAD, EFICAS</td>
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<td>We are what we eat</td>
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<td>Feb 9, 2018</td>
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2.2. Adapting development models to changing policy contexts

The preparatory meetings for the conference showed that the drivers of change and their impacts on upland livelihoods have evolved over the past decade but that the development arena and intervention mechanisms through donor-led projects remained essentially the same. We pointed out three main dimensions to this issue: the problem-solution driven interventions, the role of empirical evidence in policy formulation, and the instruments of the modernization narrative.

Firstly, dealing with deeply entangled development issues, it is clear to all stakeholders that the problem driven or solution driven approaches to development that endeavor to find a solution to each problem identified cannot easily address complex, interconnected problems. For example, forest degradation issues have to be dealt not only by foresters but addressed through multiple dimensions at the landscape level; the market biases due to middlemen monopoly in their allocated villages or the many tax collectors along the value chain can only be solved if solutions are found to compensate income losses of district Government agencies (e.g. DAFO, DoIC) from the lost trade license fees. In most cases these problems cannot be solved by the people who created them. They are essentially cross-sectoral and require elaboration of theories of change or exploration of scenarios; a path finding purpose-driven approach based on a collectively negotiated societal model/goal reflecting shared values. What is required in terms of intervention mechanisms is quite different from the ubiquitous problem-solution approach; typical project logframes often constrain collective creativity.

Secondly, experts have been debating for long about the types of evidence that is actually used to feed policy processes in the context of the Lao uplands. Planners, academics, donors and NGOs engage in producing empirical evidence as a basis for sound policy design. Surveys are carried out, databases constructed, maps produced and interactive websites launched. However, policy making in Laos is mostly not data-driven. While official reports include plenty of facts and figures, these are often an expression of how things should be, rather than an accurate measure of how things really are. Official data tends to be biased by the strong pressure put on it by Government leaders on their agencies to achieve their plans. The reporting system is mostly organized around pointing to increases or decreases as compared to the objectives of the plans. The plans developed at village, district or province levels mostly ignore the systematic, transparent databases that exist but are often fragmented because they are project-driven. Also, policy makers know that projects sometimes oversell their results and to hide some weaknesses and failures in their evaluation reports, making it difficult for Government partners to distinguish between truth and hype and between insights and delusions. Consequently, the facts and figures in written reports from both Government departments and aid projects are unlikely to be the sole basis for making policy decisions (Bartlett, 2009). In addition to these, Government officials rely on direct observation through exposure to real life activities and project achievements. Field visits are able to create learning processes in which local innovations are observed and discussed, and decisions are made about scaling up. In the end, experience on the ground – success stories – are sought by policy makers, e.g. decree on conservation agriculture in 2005 after a visit to Brazil, decree on associations made about scaling up. In the end, experience on the ground – success stories – are sought by policy makers.

Thirdly, Government policy in Laos is supporting an upland development model based on the modernization narrative that typically involves commercial production, scientific technology and large-scale projects. This narrative is embedded in the 8th NSEDP and the Nov 2017 Congress resolution No13/GOV. Scientific techniques, with modern-industrial agriculture are seen as key instruments of development to increase agricultural productivity and help reach GDP targets. The country’s leaders as well as ordinary Government officials explain the causes of poverty by the dependence of upland people on nature, their ‘poor education’ and their ‘traditional methods’ of farming. In short, the mainstream development narrative sees progress in terms of a shift from the traditional (backward) to the modern (forward). Under this narrative rural development and poverty reduction come from the combined efforts of research, education and extension, supporting the design of adapted modern technology, followed by large-scale adoption of improved, highly productive, farming practices (MAF’s Agriculture Development Strategy to 2025 and Vision to 2030). Many projects have followed this model supported by ODA, and more recently through land concessions and private investments under the ‘turning land to capital policy’. With the prospect of graduation from LDC status, the financial instruments for reducing production costs and increasing productivity are now sought from the promotion of Small and Medium Enterprises (SME) and new tax and tariffs policies that are expected to provide new financial resources while easing business environments.
Quick facts

- Complex development problems require purpose-driven approaches instead of problem-solution driven interventions.

- Policy making in Laos is mostly not data-driven; empirical evidence is based on direct observation through exposure to real life activities and projects' achievements.

- Projects, supported by donors, government agencies or the private sector are instruments of the modernization narrative towards increased productivity.
3 A vision & roadmap for action towards sustainable development

3.1. Key lessons from the Lao Uplands Initiative

The main lessons from the Lao Uplands Initiative are described in the thematic learning briefs in this volume. They are organized according to three dimensions of changes: (i) a diagnosis of the current situation and exploration of future scenarios, (ii) a proposal for intervention mechanisms and agents of change, and (iii) recommendations to create an enabling environment towards achieving SDGs.

3.1.1. Participant explored some macro trends, especially how policy initiatives, land-based investments, and traditional agricultural systems interact in shaping uplands development pathways. Planners, development practitioners, academics and civil society organizations used scenario planning to better understand the critical uncertainties in the future trajectories of Lao Upland Development and identified different potential approaches to upland development based on lessons learnt from previous projects and within the framework of the MAF approved Upland Development Strategy. The collective process supported a dialogue around a societal model and associated values, before discussing how to achieve the model. Such an open, holistic, multi-sectoral perspective was expected to avoid the traditional problem-solution dialogic. The scenario building exercise showed that different groups of stakeholders tend to frame these uncertainties differently. On the one hand, academics and extension agents tend to organize future scenarios based on the technological progresses expected from the research and the capacity of academics while extensionists tend to educate the uplands populations towards higher adoption of improved technologies. Their scenarios still pertain to the technology transfer realm that has structured the policy frameworks and intervention mechanisms over the past decades. On the other hand, policy makers and development practitioners see gaps in policy implementation and land management as key elements of uncertainty that structure their multiple scenarios. Lastly, foreign participants framed their scenarios using market development and access to natural resources as the main uncertainties. This exercise revealed that different stakeholder groups are working along different developmental frameworks. While it may be challenging to reconcile them, it is extremely important to reach an agreement about the societal model that frame our interventions, otherwise we may only agree on the minimum common denominators that do not allow collectives to embrace common objectives.

3 Vulnerabilities and adaptation to change

Mountainous regions and their inhabitants have long been associated with certain stereotypes such as their low capacity to adapt to climate change because of poor socioeconomic development. Within this logic, upland people are perceived as the most vulnerable. But empirical evidences suggest that the vulnerability of local communities is rooted in complex dynamics that call for investigations beyond stereotypes of high vulnerability. The relation between poverty, risk and vulnerability has not been properly investigated nor taken on board in designing Government policies. Many Government officials still understand vulnerability as being caused by geographical location rather than socio-economic factors. For example, communities are considered at risk from flooding because they live along river banks. So far, the main options for dealing with these problems were either to remove the risk (e.g. river bank stabilization), or move the community (e.g. resettlement). Again, these problem-solution perspectives tend to hide the multiple, complex dimensions of poverty. They will gradually become irrelevant as new vulnerabilities emerge from the economic trends presented above that come on top of already existing hazards, such as unusual weather events, floods, and pest or disease outbreaks that are also influenced by the changing environment, including climate change. Early warning systems based on Information and Communications Technology (ICT) tools have been tested in Laos and found to hold the potential of significantly reducing a wide range of vulnerabilities by providing relevant information. However, the lack of support from mid-level Government staff due to unclear data policies has prevented further deployment of the ICT tools.
Landscape approaches to agroecology

To compete and meet the demands of international and domestic markets for high-quality products, Lao PDR's agriculture needs to position itself as green and clean. Traditional farming systems have featured very limited use of synthetic fertilizers and agrochemicals, while ‘imported’ intensive mono-cropping systems have tended to involve excessive use of such inputs, resulting in water and soil pollution, as well as consumer food safety concerns. Lao PDR continues to have the potential to effectively compete in the production of high-quality food while improving upland livelihoods by extending effective agroecological practices, such as the System of Rice Intensification (SRI), Integrated Pest Management (IPM), conservation agriculture, agroforestry or integrated organic farming. Many success stories attest to the multiple benefits of agroecological practices to preserve livelihood systems and ecosystem services beyond simple agricultural production. Agroecology should therefore become a key instrument of green agriculture and green growth. However, its generalization is constrained by the complexity of low farmer productivity and lack of enthusiasm, combined with nature-based interactions that need to be developed and maintained to launch the system as compared to the simple use of external inputs in the case of intensive mono-cropping. Agroecology should be conceived and promoted at the landscape level, and not at the field or farm level such as in alternative approaches such as a GAP. However, this requires a combination of local institutional leadership, incentives for farmers, and dramatic (high value and productive) results. For example, roaming animals can be a major constraint to the adoption of agroecological practices for sustainable crop intensification through improved fallow, cover crops or residue management. Reorganizing crop-livestock interactions at the landscape level is challenging because it requires behavior change and must overcome the lack of family labor, but necessary for maintaining or improving the performance and resilience of upland farming systems.

Learning processes and green extension

Learning and behavior change are essential for uplands populations to adapt to their changing environment. Learning processes need to be location specific, responsive to local needs, multi-stakeholder and iterative. This calls for major changes in extension approaches that would turn extension agents from expert lecturers to facilitators in adaptive learning approaches. This in turn requires a change in educational curricula at the vocational and university level. The objective would be not so much to educate but to motivate, to ‘develop capacity’ of ordinary people to gain greater control over their lives. Upland farmers have the potential of becoming development actors rather than passive beneficiaries. The animated narrative contrasts with the vulnerability narrative, which sees people as negatively affected by forces beyond their control. Green Extension involves a basket of methods (Farmer Fields Schools, Participatory Land Use Planning, Farmer to Farmer Learning, Participatory Action Research, etc.) that are used to promote various types of content (agroecology practices, cooperatives, small and medium enterprises, etc.). Based on the experience of past and on-going projects, however, it is possible to identify a set of five guiding principles for green extension, namely: (i) participatory agroecosystem analysis, (ii) community planning, (iii) action-research, (iv) farmer to farmer learning, and (v) organizational development that includes leadership provided by public officials. These principles are common to different approaches whatever their specific names used by different projects: community-based NRM, integrated landscape management, or Green Extension. The capacity to implement Green Extension already exists as projects have helped create this capacity, although projects are also a hindrance to mainstreaming. Activities are fragmented, often small scale, with no critical mass and weak local ownership. Threats are often lack of agricultural development which need greater consideration, including revisiting the program-based approach, involving farmer organizations and networks, and possibly the private sector.

Enabling environments for uplands development

Bringing agroecology to the market

The rallying point of agroecology approaches is the need to improve the sustainability of agriculture by focusing on its various dimensions (e.g. institutional, agronomic, environmental, social, economic, and ethical) and at various scales (e.g. the plot, the field, the landscape and the whole food system). Agroecology is thus not only about transforming agricultural practices, it is also about transforming the relationship between agriculture and the society. As a result, it also focuses on social values, such as trustworthiness, health, food sovereignty, youth development and improved livelihoods for upland communities (Loconto et al., 2017). This led us to explore the new links established between farmers for whom economic benefits appear as a key driver of the adoption of innovative practices such as agroecology (Castella and Kibler, 2015) and consumers, who act as crucial drivers in these new initiatives. In this sense, agroecology represents an alternative economic model whereby producers and consumers jointly define the quality of products by taking into account other innovative components such as farmers’ employment, food sovereignty, and biodiversity. Indeed, agricultural products are not the only goods being valued in this process: cultural traditions, ideas, visions and knowledge are also being exchanged. Ultimately, it is the very nature of markets that is at stake, with a possibility to shift to what some call ‘mindful markets’ (Van Willenswaard et al., 2015), i.e. markets that maximize the market benefits while increasing the market awareness of whole food systems. This means taking into account healthy food self-reliance for farmers, farmers’ families and rural landscapes, in short, bringing the market to agroecology beyond finding outlets for agroecological products. To reach this ambitious objective, specific partnerships need to be developed with social enterprises (e.g. ADP Saffron) sharing common values. Risks should be buffered for innovators who engage in uncertain ventures through using self-supporting (ITC tools (e.g. market information systems), or tailor-made risk insurance schemes. Lastly, it is of utmost importance that the local community is profit from food system approaches, meaning (i) acknowledging that consumers have leverage, (ii) promoting inclusiveness, and (iii) revealing the true value of food (Kousonsavath et al., 2018).
Quick facts

• Changing uplands are putting stress on the smallholder farmers who are the main labor force and actors of future green growth scenarios, external interventions should buffer negative impacts of on-going changes and buffer risks for innovators and entrepreneurs.

• Engineering transitions requires (i) innovative thinking, beyond current problem solving approaches, (ii) purpose-driven interventions according to a commonly agreed societal model and (iii) local ownership and empowerment of people to take control of their own activities.

• Enabling environments are essentials to put policies into action and avoid policy gaps. Creating environments conducive to sustainable development requires a ‘3-I reform’ of:
  o Institutions - relying on internal agents of change as highly capable individuals who are already there,
  o Indicators – working out indicators of success with people to better reflect the multiple values of green agriculture to drive the changes and to reach new levels of accountability, and
  o Incentives – beyond the concrete benefits provided by project-based activities to meaningfully engage in large-scale, multi-sectoral, purpose-driven actions.

3.2. A roadmap towards green agriculture in the Lao Uplands

Beyond the inputs and reactions of participants to the Lao Uplands Initiative that were turned into ‘key lessons’ as presented above, the core group of organizers did reflect on key messages that would help transforming good intentions into concrete actions and interventions. Sustainable Development Goals as applied at the global level provide a framework to analyze and compare the progress in different countries but is by no means a societal project that would mobilize all the active forces of the nation. SDG indicators are important as they link to the global system but a new development paradigm should rely on specific indicators of progress according to the intervention pathway collectively defined. This section introduces elements of a vision for the future of the Lao Uplands and a roadmap for action as they were discussed by participants in the Lao Uplands Initiative (laouplands.org).

3.2.1. Adding values to upland agriculture

Thinking and practicing agriculture differently is more than necessary, it is a question of survival of the Lao upland communities. Indeed, shifting cultivation systems are gradually disappearing with the increasing population density, the Government’s eradication policy, and integration to market economy of the uplands as a result of agricultural land, mining, and hydropower concessions that all restrict the land available for smallholder farming. On the other hand, intensive mono-cropping systems that were initially presented as a modern alternative to the former ones have shown their limits in term of land degradation, pollution and indebtedness of upland farmers. Other agricultural practices and development pathways have to be promoted as alternatives to these two approaches. The proposed practices are not new to any extent; they were already promoted in the upland development sourcebook published in 2005 and have been around a long time before. They are now grouped under the term ‘agroecology’ as they share common principles, e.g. recycling biomass within the farming system, maintaining multi-functional landscapes, relying on agrobiodiversity to control pests. However, large-scale adoption of these alternative practices, SRI, IPM, conservation agriculture, agroforestry, integrated organic farming, permaculture, etc., has always been confronted with a number of obstacles, especially poor recognition and rewards to their higher value and contribution to people’s wellbeing beyond purely economic productivity.

Green agriculture, green growth, green extension… these ideas are not new either but they apply now to a modern context of ecological intensification. As core elements of green agriculture, which is the cornerstone of green growth, agroecology practices should be massively promoted as an instrument to maintain multifunctional landscapes and to make upland agriculture more attractive to the young generations. Green extension as presented above is one instrument of this intended transformation of upland agriculture. It entails five principles, namely: (i) participatory agroecosystem analysis, (ii) community planning, (iii) action-research, (iv) farmer to farmer learning, and (v) organizational development. However, these approaches can only be scaled-up if they are evaluated against the appropriate indicators.
3.2.2. Inside-out development process – co-designing the societal project and intervention pathway

Too often, changes are driven or influenced from the outside, such as foreign investments (e.g. mining, hydropower), global or regional policies (e.g. REDD+, ASEAN trade agreements) or donor priorities (e.g. local empowerment, good governance). Development processes from the inside-out, from Lao people for Lao people, was promoted by participants in the Initiative. The domestic market is narrow, so products and standards should be first designed according to the demand of the Lao market and later be expanded. Tourism is expanding because visitors want to discover the specificities of the Lao culture and agriculture. If Lao agriculture and livelihoods align on foreign standards then they will lose their attractiveness to the emerging tourist industry constituting a lost opportunity to contribute to green growth. This requires involving all sectors and levels of the Lao society in defining ultimate development goals and implementation pathways for the uplands. This may call for re-politicizing the development debate, which goes against the logic of the current project-led development process.

Based on a clear definition of green growth as an instrument to increase productivity, address poverty issues and economically empower farmers while ensuring sustainable agriculture, it should be possible to reorient development efforts away from the eradication of shifting cultivation, away from boom crops and raw commodity exports that contribute to the resource-based development model that degrade ecosystems and weaken livelihoods in the long term. An alternative development pathway should be imagined before the resources, including forest and soils, are further degraded. Increasing competitiveness should be associated with increasing quality and safety of agricultural products based on Lao standards. The food systems should be envisioned beyond traditional value chains with mutually recognized standards, regulations, inspection, certification, accreditation procedures and information sharing mechanisms. Accurate and transparent information systems, i.e. ICT, social media, e-commerce, may increase the efficiency of agricultural supply chains, shorten market channels, and increase interactions between producers and consumers.

The overall transition from resource to non-resource based development, i.e. avoiding dependency on non-renewable resources, requires higher education and skilled workers. Supporting the transition towards agroecology, buffering negative consequences of climatic and economic shocks on vulnerable upland populations when entering the market economy, require efficient Government officers teaming up with the private sector to lead green extension. They must be equipped with relevant knowledge to facilitate local negotiations and empower upland populations. Human resource development is a key element of the required change in learning processes. Education in its diverse forms,
Agricultural changes should be driven from the inside and less influenced from the outside to preserve the values of Lao society while engaging in the profound changes from a resource to a non-resource development model.

Increasing competitiveness could be associated with increasing quality and safety of agricultural products based on Lao standards through the generalization of a food system approach.

The envisioned transition towards agroecology requires massive investment into capacity development to engage the next generation of Lao upland farmers to seize emerging opportunities that are brought in by the revolution in communication technologies.

### Quick facts

- Agricultural changes should be driven from the inside and less influenced from the outside to preserve the values of Lao society while engaging in the profound changes from a resource to a non-resource development model.
- Increasing competitiveness could be associated with increasing quality and safety of agricultural products based on Lao standards through the generalization of a food system approach.
- The envisioned transition towards agroecology requires massive investment into capacity development to engage the next generation of Lao upland farmers to seize emerging opportunities that are brought in by the revolution in communication technologies.

#### 3.2.3. From projects to policies… with the private sector

Making the best out of emerging ITC-based opportunities requires designing new governance mechanisms that would combine old and new communication channels. How are we to combine top-down and bottom-up communication channels, mass-media and social-media networking, vertical with horizontal communication mechanisms? These new challenges call for new types of mechanism interventions, including innovative financing mechanisms. Indeed, the expected development processes cannot rely exclusively on the public sector. Firstly, because with LDC graduation ODA mechanisms will be deeply transformed; secondly, because Chinese investment mechanisms will force the reorganization of ODA and FDI governance; and thirdly because the development model based on projects is reaching its limits. Before the 2007 ‘turning land to capital’ policy, projects were almost the only instruments for development intervention. The whole development aid sector is organized around projects that are used to ‘render technical’ highly political issues (Li, 2015). Tania Li (2015) describes projects as ‘a time bound intervention with a fixed goal and budget, framed within a technical matrix which renders some problems amenable to intervention, while leaving others out of account’. Project create silo effect, compartments between Government services and sectors, instead of creating the expected synergies. After managing the flow of ODA for a few years most projects close without leaving a durable impact on their beneficiaries and limited perspectives for scaling-up (Li, 2015). There is an urgent need to favor cross sectoral approaches despite the constraints embedded into the governance system, bureaucracy and an administration inherited from several decades of project-led interventions.

Green economic growth, public-private partnerships, responsible investments, support to agribusinesses and SMEs have been pushed forward by recent policy frameworks, including the 8th NSDP, MAF’s Agricultural Development Strategy to 2020 and Vision to 2030, and the Upland Development Program. However, the implementation mechanisms still rely on the project paradigm that, as mentioned before, is not conducive to policy implementation. Projects then become the very cause of the policy implementation gaps that they were supposed to mitigate. Partnering with the private sector imposes adaptation to the partner’s governance mode, including flexibility and reactivity, and not imposing the slow pace and cumbersome procedures of a bureaucracy that systematically erodes competitiveness. While there is a general agreement on the benefits of stimulating agribusinesses to shift from the currently poor processing and postharvest facilities to more modern and environmentally-friendly technologies to improve food value and reduce postharvest losses, the main challenge is to reduce the cost of doing business in the agriculture sector. These issues are interrelated and need appropriate public interventions that are beyond the scope of projects. For example, at present lending from commercial banks to agribusinesses is very limited, because most agro-enterprises are small and cannot afford market rates. However, these investments are crucial for the modernization of SMEs that often possess out-of-date equipment, resulting in high losses in both value and volume during processing and postharvest stages.

Projects are based on the premises that they can provide technologies and support for upland populations, although in fact what is needed is to create an enabling environment that will allow people to develop themselves, which most projects cannot achieve. From project-driven initiatives to people-enabling initiatives, innovative support mechanisms are required. Program-based assistance (PBA) should be revisited based on the lessons learnt from the Northern Uplands Development Program (NUDP, 2009-2017). Sufficient time should be allocated to the 3-I reform (institutions, indicators, incentives) before testing the PBA model again. In the meantime public and private sector efforts should be dedicated to vocational education and training to increase the knowledge and skills of all partners in future multi-sectoral development processes.
Quick facts

• The projects-based development model as generally practiced is reaching its limits and must be reformed as it is not able to synergize multi-sectoral interventions in rural development, nutrition enhancement, poverty reduction, etc.

• Innovative intervention mechanisms are required to create an enabling environment for agribusinesses and SMEs through partnering with the private sector.

• Public and private sector efforts should be dedicated to vocational education and training to increase knowledge and skills of all partners in future multi-sectoral development processes.
At the end of the day, the Lao Uplands Initiative (LUI) closes the learning loop of the Northern Uplands Development Program by drawing lessons about its own implementation and pointing to Lao Uplands Strategy implementation issues. The LUI was in itself an attempt to develop and implement a programmatic approach outside of a project framework. It was confronted with much skepticism concerning its ownership by the Government as it was not initially hosted by a particular department at MAF and was embracing a very large scope beyond any single department. Previous attempts to create project-led, open initiatives also ended up creating new entrenched projects that soon turned out to compete with other similar projects for resources and recognition instead of federating efforts from multiple existing projects. These initiatives are confronted with a lack of understanding of development partners, including Government officers, donor representatives and foreign advisors, of the overall intentions and implementation models as this would bring them out of the comfort zone of their traditional project intervention mode. Also, project proponents were very busy with the milestones and the deadlines of their own projects and could not dedicate sufficient time to collective reflections that were not initially included in their project logframe and for which they would be neither paid nor rewarded. This LUI experience clearly shows that collective mobilization beyond projects and across sectors necessary to meaningfully address the challenges described in this paper is difficult to achieve, and may be utopian. As long as they are not addressed, however, these thorny problems will remain.

References


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Three directions and nine big ideas towards sustainable upland development.

**Changing the development paradigm**
- From foreign-led to inside-out development process.
- From project to policy approach – Program Based Approaches need to be revisited.
- Harnessing the private sector: public-private partnership, responsible investments, private sector involvement in vocational education and training to increase labor skills.

**Changing assessment indicators**
- Revealing the true value of things (monetary & moral), embedding environmental costs into product prices.
- Sustainability indicators and quality standards designed from the inside and not dependent on external influences.
- Compromises need to be negotiated between multiple objectives, mix of options, as not everything is achievable, using scenario analysis.

**Changing intervention approaches**
- Investing in youth – networking, social media, horizontal communication; and better integration with traditional vertical communication channels.
- Multifunctional landscapes should be promoted through an integrated landscape approach to agroecology.
- Food system perspective in line with green agriculture.