

## Measuring participation: Case studies on village land use planning in northern Lao PDR

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### A B S T R A C T

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In the early 1990s, the Lao government launched a nationwide Land Use Planning and Land Allocation programme in a bid to foster socio-economic development while protecting the environment. However, the programme has long been perceived as having negative impacts on rural livelihoods. A central criticism was that limited local participation results in unsustainable land use plans; consequently, the government introduced significant changes into the process to enhance participation. This paper examines the extent to which the evolution of Laos' village land use planning has resulted in increased local participation and improved livelihoods. Local participation was assessed quantitatively in six study villages, in combination with more qualitative surveys on planning practices and influences on livelihoods and land uses. The analysis reveals that local participation increased only slightly from early planning initiatives until pilot implementation of the revised programme, known as Participatory Land Use Planning. It also shows that (participation in) planning had very limited influence on local land use patterns. Drawing on these findings, the paper explores ways to better translate plans into concrete actions and to effect tangible change in local practices.

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### Introduction

"Can one really imagine that we can look ahead (not just a few years, but decades and longer) and successfully anticipate potential threats to the developmental process, and then collectively choose which futures we prefer, and then so engineer our societies as to realize the preferred visions?" (Meadowcroft, 1997: 183).

A primary objective of land use planning (LUP) is the establishment of sustainable development. As such, LUP has triggered debates on social and environmental values and on the need for participatory processes to address individual differences in these values (Hillier, 1999; Owens, 1994; Rydin, 1995). As the United Nations' Rio Declaration on Environment and Development illustrates, enhanced "public participation in decision-making" is widely considered a "fundamental prerequisite for the achievement of sustainable development" (UNCED, 1992: 23.2). Arguments in

favour of broader participation are generally both instrumental and value-based (Macnaghten & Jacobs, 1997; Meadowcroft, 2004). On the one hand, increased public involvement in decision-making is expected to generate important functional gains (e.g. "better" and more legitimate decisions, wider support and facilitated implementation). On the other hand, when associated with notions of equity and the right to self-determination, broader participation is viewed as improving opportunities for individuals to fulfil their basic needs and aspirations, hence leading to a more sustainable development process.

Given these intentions and expectations, the notion of planning for sustainable development raises important questions. Scholars such as Rydin (1995) and Meadowcroft (2004) point to a crucial need to consider ways to actually enhance participation. Indeed, as moving from positive intentions to the actual achievement of participation is not straightforward, appropriately designed mechanisms (involving, for example, information dissemination, empowerment, mediation and/or collaboration) are required to enhance public involvement in decision-making and plan implementation. Davies (2001) moves beyond the procedural aspects of participation to query the actual products of participation: Does enhanced public participation in planning necessarily produce greater social and environmental

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Fig. 1. Location of the research sites.

benefits? These are some of the key issues that this study examines empirically in regard to village LUP in Laos.

Eighty per cent of the population of Laos relies on agriculture for a living (GoL, 2006). The country is further characterised by high poverty levels<sup>1</sup> and remarkable ecological wealth (UNEP, 2001). LUP is therefore generally considered an important tool for overcoming the challenges of sustainable development in Laos (e.g. GoL, 1999, 2003, 2005). The government's recent National Adaptation Programme of Action to Climate Change, for instance, identifies land suitability zoning and LUP as key strategic priorities in order to "increase the capacities of farmers to adapt to changes in climate and associated natural hazards" (GoL, 2009: 65). Similarly, a central principle of the recently endorsed manual on Participatory Land Use Planning (PLUP) is that "land use zoning will ensure that land uses within the villages in a village cluster are appropriately delineated to provide for sustainable livelihoods for future populations" (MAF & NLMA, 2009: 9). By defining and zoning optimal

land uses and allocating land use rights to local populations, LUP is expected to achieve the aim of fostering socio-economic development while protecting the environment.

The government's Land Use Planning and Land Allocation (LUPLA) programme constitutes the leading initiative in achieving this aim. LUPLA was developed in the early 1990s; in 2005, it was implemented in 7130 villages – two-thirds of the villages officially recorded in the country (GoL, 2005). Although data after 2005 are not available, the situation in some of our study villages, presented in Section 2.1, indicates that implementation has continued. The programme has greatly evolved over time (see Section 2.1), but it still involves three main processes: delineation of village boundaries; zoning of the village land into different land use types (e.g. residential, agricultural and pastureland and five categories of forested land); and allocation of agricultural plots to individual households. These processes are intended to clarify land ownership, encourage investment in more intensive and market-oriented land uses, reduce the extent of shifting cultivation (believed to be a main cause of land degradation) and improve government revenues from land taxation (Evrard, 2004).

In principle, LUPLA appears superior to similar land reforms in neighbouring countries (Poffenberger, 1999 in Fujita & Phanvilay,

<sup>1</sup> Laos, included on the UN's list of Least Developed Countries, ranked 94th out of 134 countries on the 2009 Human Poverty Index (UNDP, 2009).

2008; Vandergeest, 2003). Importantly, it represents a key step towards the formal recognition of customary rights to use land and natural resources. From a decentralisation perspective, it involves a significant transfer of responsibility, as community forest and agricultural land management, land distribution and conflict resolution become the mandates of village authorities. However, despite its ambitious goals and potential benefits in terms of local empowerment, LUPLA has long been criticised for having negative impacts on rural livelihoods. In particular, it has been portrayed as causing agricultural land pressure, decreased food security and increased poverty (e.g. Ducourtieux, Laffort, & Sacklokh, 2005; Evrard, 2004; Lestrelin & Giordano, 2007; SPC, 2000) as well as cultural trauma and uncontrolled migration (Evrard & Goudineau, 2004; Vandergeest, 2003).

The debate over LUPLA is largely about how limited local participation results in unsustainable land zoning, planning and allocation (e.g. Evrard, 2004; Fujita & Phanvilay, 2008; GTZ, 2004; Thongphanh, 2004). The arguments are summarised in a country-wide review of studies on LUPLA as follows:

“In most areas the LUP/LA activities were carried out as one rushed sequence of working steps limiting the time for participation and reflection. Villagers were mainly asked to participate in the initial steps of data collection, but not during the crucial subsequent steps of e.g. land use zoning or the drafting of village regulations. Very little attention was paid on the dissemination of information on LA [land allocation] to the villagers. Overall, the short implementation process is identified as a major constraint of LUP/LA, leading to inadequate resource management plans insensitive to customary resource use and management practices” (GTZ, 2004: 15).

With a more specific focus on gender, Rodenburg and Phengkhay (2000) also highlighted important disparities in individual participation to LUPLA. In ethnic minority areas, the participation of women appeared significantly hindered by lower education levels, limited knowledge of the Lao language (employed during discussions with planning officers) and the greater role traditionally attributed to men in public meetings.<sup>2</sup> As described by the two researchers, if women and other less advantaged groups (e.g. the poor and illiterate) do attend LUPLA meetings, quite often, they do not contribute to the discussion and hand all bargaining and decision-making power to the local elites. In case of abuse, this power imbalance may contribute to perpetuate or reinforce local inequalities in access to land.

Because of such criticism, significant changes have been made to the LUPLA process and its practical implementation during the past two decades. The first experiments with land reform in the early 1990s consisted of a simple agreement between village authorities and the national authority represented by the District Agriculture and Forestry Offices. Under the agreement, called Land and Forest Demarcation (*baeng din baeng pa*), village boundaries, land available for agrarian purposes and land for preservation or regeneration as forest were determined. The agreement was later renamed Land and Forest Allocation (*mop din mop pa*) to include allocation of agricultural plots to individual households. With support from Sida (Swedish International Development Cooperation Agency), two successive manuals were developed, putting strong emphasis on enhanced local participation and restructuring LUPLA into a 10-stage process involving participatory mapping, detailed field surveys, discussion of land management plans, village and individual agreements, participatory monitoring and evaluation (LSFP,

1997, 2001). Enduring concerns about limited local participation and integration across planning scales eventually led to LUPLA being redefined as Participatory Land Use Planning (PLUP). PLUP focuses on the village cluster; it is thus expected to facilitate coordination between planning initiatives and institutions operating at different scales. It also provides guidelines to ensure gender and ethnicity issues are acknowledged and to enhance local participation throughout the entire planning process (MAF & NLMA, 2009).

It should be noted that this rapid evolution of village LUP in response to criticism and reported deficiencies is quite remarkable. Where many might expect disregard – given the “authoritarian” quality often attributed to Laos’ current political regime (e.g. Jönsson, 2002; Stuart-Fox, 2005) – this evolution instead suggests considerable responsiveness on the part of policymakers. However, two key questions are in order, in line with the issues raised by scholars such as Rydin (1995), Davies (2001) and Meadowcroft (2004): (1) To what extent has the evolution of village LUP approaches resulted in increased local participation? (2) To what extent does (participation in) village LUP influence local livelihoods and land uses?

This paper addresses these questions through a series of case studies. Section 2 presents a brief description of the research sites and their representativeness with regard to village LUP in Laos. We then present the experimental approach that was developed to assess and compare participation in LUP. The discussion emphasises the need to adopt systematic measures to assess a project’s success more objectively. Section 3 presents the key empirical findings. In particular, it describes the observed evolution of local participation in village LUP and the impacts of LUPLA on livelihoods and land uses. In Section 4, the observed preliminary outcomes of PLUP are discussed and possible avenues are proposed to improve the process.

## Measuring participation (through non-participatory methods)

### Research sites

Six villages in Luang Prabang province,<sup>3</sup> Soptia, Phadeng, Paklao, Nambo, Phakhok and Phoukhong, were selected as research sites representative of different stages in the evolution of village LUP (Fig. 1). Soptia is characteristic of “early” LUPLA initiatives. LUP was undertaken in 1999 with limited funding, human resources and capacity; it was conducted within a few days and without field surveys. Land was zoned based on topographic maps but no land management plans were attached to the zones. Implementers then applied a simple “four-plots-per-household” rule for land allocation and the distribution of Temporary Land Use Certificates (TLUCs) to village households. The process undertaken in Phadeng and Paklao in 2006 was similar, except that the size of the four agricultural plots allocated to village households was calculated according to the available workforce in each household.

In contrast to these three villages, Nambo benefited from significant investment in local participation, with a 28-day process supported by considerable human and financial resources (the process was funded by Sida and involved numerous officials from the Agriculture and Forestry, Land Management and Agricultural Extension agencies). An improved version of LUPLA, carried out in 2008, involved complete zoning and mapping of the village land, definition of land management plans and delineation and registration of individual plots.

<sup>2</sup> More generally, the representation of women in government functions at the local level was only 1.5% in 1999 (UNDP, 2002).

<sup>3</sup> Luang Prabang was one of two provinces where LUPLA pilot projects were carried out in the early 1990s before the initiative was expanded to the whole country. Luang Prabang was thus selected to cover the whole range of LUP approaches since the initial testing phase.

**Table 1**  
Indicators employed for assessing individual participation levels.

	Derived from	Example	Score
Presence	Participation in different stages of LUP	Presence at <i>inception meeting, group discussions and field measurements</i>	1 + 2 + 1 = 4 (max. value = 12)
Voice	Forms of intervention during LUP meetings	<i>Direct critique</i> of boundary decisions	3 (max. value = 3)
Understanding	Perceived objectives of LUP	"LUP aims at <i>reducing poverty and stabilising shifting cultivation</i> "	1 + 2 = 3 (max. value = 4)
Overall participation	Sum of <i>presence, voice and understanding</i> scores		4 + 4 + 3 = 11 (max. value = 19)

Phakhok and Phoukhong villages were selected as pilot sites for PLUP testing in 2009. These villages have received support from research development projects,<sup>4</sup> with considerable human and financial resources deployed for enhanced local participation, more accurate data and data management, and enhanced integration of plans across scales. High-resolution satellite imagery, 3-D models, global positioning system (GPS) and geographic information systems (GIS) were used to support inter-village boundary negotiations. These technologies were combined with exhaustive geographic and socio-economic surveys to achieve complete zoning and mapping of the village land and definition of land management plans. Most of the planning stages have been completed in the two villages, with only individual and community land titling still to be conducted. As we conducted our fieldwork at the same time that PLUP was being implemented, selecting Phakhok and Phoukhong as research sites allowed us to observe the way participation was "operationalised" during the planning process. By contrast, the retrospective surveys in Soptia, Paklao, Phadeng and Nambo villages provided more historical perspectives on the evolution of LUPLA, local participation and its role in shaping development trajectories.

#### Experimental approach

As Burton (2004, 2009) pointed out, a very large majority of studies assessing participation adopt a loose qualitative approach and rely mainly on participatory methods and practice stories to gain insights into public involvement in and influence on decision-making. In determining participation levels, studies usually assess the perceptions and beliefs of a (generally limited) number of key actors regarding their contribution to, ownership of, and satisfaction relative to a particular policy process (e.g. Burns, Heywood, Taylor, Wilde, & Wilson, 2004). Although this approach is not without interest (e.g. for contextualising participation and exploring the diverging perceptions of stakeholders), it provides relatively limited scope for a comparative analysis across research sites, because the assessed participation levels depend greatly on the subjectivities of individuals – whose selection also depends on the subjectivity of the researcher(s) (Sandker et al., 2010). It is thus uncertain that such an approach can produce a consistent picture of participation levels across different locations.

In the present study, a simple quantitative approach was developed, involving almost exclusively the subjectivity of the researcher(s). Four key indicators were derived from questionnaire surveys (Table 1) of a random sample of 15–30 individuals in each study village.<sup>5</sup> The first of these indicators, called *presence*, accounts

for the physical attendance of individuals in different activities that constitute the village LUP process. Activities were attributed different values (Table 2) on the basis of (our perception of) their potential to bring about participation. This allowed us to derive scores valuing the level of presence of individuals during the LUP process. The second indicator, referred to as *voice*, relates to the types of verbal interventions made by individuals during LUP meetings and group discussions; that is, a simple request for clarification is attributed a value of 1, a demand for modification of the plan has a value of 2 and a direct critique has a value of 3. This scoring system enabled us to assess individuals' contributions to discussions about village LUP. The third indicator measured individuals' level of *understanding* of the objectives of village LUP. We asked interviewees to offer two main objectives of village LUP; understanding levels were then derived on the basis of the correspondence between perceived and official objectives – a value of 2 for key objectives explicitly mentioned in village LUP manuals (e.g. "to limit deforestation", "to clarify land tenure") and 1 for more implicit or secondary objectives ("to reduce poverty", "to promote tree plantations"). Finally, an *overall participation level* for each individual was calculated by summing *presence, voice and understanding* scores (Table 1).

It is reasonable to expect that presence and intervention during planning activities and understanding of planning objectives will go hand in hand. Indeed, statistically significant correlations were found between the three variables *presence, voice and understanding* (Table 3). More instructively, although also predictable, a statistically significant correlation was found between the *overall participation level* of individuals and their position in the (local) social hierarchy; that is, the higher an individual's social position,<sup>6</sup> the greater his/her participation in the planning process (Table 4). Based on this finding and reflecting questions raised by researchers on the participation of non-elite groups to LUPLA (see Section 1), two secondary indicators were developed. *Grassroots participation* was assessed by calculating the mean *overall participation level* of regular citizens – i.e. individuals not engaged in government or administrative functions.<sup>7</sup> In order to get further information on the way participation to LUP is distributed (i.e. concentrated among few individuals or equally shared among the villagers), *participation balance* was calculated as the relative standard deviation (RSD) of the *overall participation level* of individuals in each study village. *Presence, voice, understanding, overall participation level, grassroots participation and participation balance* thus comprised the six

<sup>4</sup> The Agrobiodiversity Initiative in Phakhok and the Upland Research and Capacity Development Project in Phoukhong.

<sup>5</sup> Thirty individuals each in Soptia, Paklao, Nambo and Phoukhong, 27 in Phakhok (three of the 30 initially sampled left the village before the end of the fieldwork period), and 15 in Phadeng (the original Phadeng community scattered after the village was resettled during the fieldwork period).

<sup>6</sup> Social position was ranked according to the status of the household head in the following order: regular citizen; member of official mass organisation and/or local militia; head of village unit, teacher, police officer or local party secretary; village chief.

<sup>7</sup> Using a similar method to measure the participation of women could have provided further information. Unfortunately, the questionnaire surveys conducted within the framework of this study did not account for gender differentiation.

**Table 2**

Values attributed to the activities that comprise the overall village LUP process.

Activity	Value
Inception meeting	1
Mapping	3
Field measurements	1
Group discussions	2
Planning	4
Closing ceremony	1

quantitative dimensions through which this study examined local participation in village LUP.

Although the approach reduces possibilities for variations due to individual subjectivities and provides consistent baseline data for comparative analysis, important limitations must be acknowledged. In particular, the values attributed to the different planning activities and individual interventions may be subject to debate. More generally, by focussing on a few quantitative indicators, the approach misses key qualitative elements of the specific socio-political circumstances of participation, e.g. the “micro-physics of power” (Jessop, 2007) that underlie the interactions between planners and local populations. Just as importantly, the quantitative approach does not enable the assessment of the actual influence of participation on the “products” of planning (Davies, 2001).

To address these shortcomings, significant qualitative elements derived from field surveys were included in the data analysis. In addition to direct observation of various meetings and field activities during PLUP implementation in Phakhok and Phoukhong, the research team conducted systematic semi-structured interviews with key informants, both villagers and planners, to gain insights into stakeholders’ expectations and daily experiences during the planning process. Similar semi-structured interviews were conducted with district authorities and villagers of Soptia, Paklao, Phadeng and Nambo designed to gather practice stories on past LUPLA implementation, related issues and outcomes. Participatory mapping was used with the village authorities of Phakhok, Soptia and Nambo as complementary information to represent spatially the impact of land use policies. Secondary data were also gathered from various projects operating in the study sites.

## Empirical results

### Local participation in village LUP

The evolution of village LUP procedures and practices during the past decade – from early LUPLA, as implemented in Soptia in 1999, to pilot implementation of PLUP in Phakhok and Phoukhong in 2009 – has been accompanied by a slight increase in local participation, as illustrated by Fig. 2. With the new planning procedures introduced by PLUP, the mean overall participation level actually doubled.<sup>8</sup> However, although local understanding of the objectives of village LUP has improved, villagers’ presence at the various planning stages remains low, especially at the crucial stages of zoning and planning village land uses (Fig. 3). Local claims and concerns remain largely unvoiced and, notwithstanding a slight increase, the overall participation of the non-elite remains critically low. Indeed, PLUP, as applied in Phakhok and Phoukhong, did not succeed in fostering more balanced participation than the improved 10-stage LUPLA procedure employed in Nambo in 2008.

<sup>8</sup> That is, from 2.7, 3.1 and 3.8 in Paklao, Phadeng and Soptia, respectively, to 4.7 in Nambo, 5.5 in Phoukhong and 6.8 in Phakhok.

**Table 3**

Correlation coefficient matrix (Pearson): presence, voice and understanding indicators ( $n = 162$ ).

	Presence	Voice	Understanding
Presence	1	<u>0.213<sup>a</sup></u>	<u>0.304</u>
Voice	<u>0.213</u>	1	<u>0.371</u>
Understanding	<u>0.304</u>	<u>0.371</u>	1

<sup>a</sup> Underlined values represent significant correlations (at the 0.01 level).

The latter was characterised not only by considerable human and financial resources but also by a negotiation process regarding participation. For instance, an influential local actor – a retired employee of the Provincial Agriculture and Forestry Office – was able to negotiate the village boundaries with district and provincial authorities, resulting in an uncommon representation of the village land, stretching across two districts (Fig. 4).

Implementers’ limited experience and technical capacity led to confusion during on-the-ground implementation of PLUP. In Phakhok, for instance, implementers did not consider the half-day of GPS training sufficient to proceed to boundary mapping. Furthermore, although exhaustive socio-economic surveys were conducted, there was little use of the collected data as a basis for discussions on land zoning and management. In Phoukhong, implementers acknowledged that, although the “socio-economic survey” and “mapping” teams worked in parallel, they did not interact much during the process. Nevertheless, they defended their position, arguing that they had conscientiously met all the requirements of the PLUP manual. If the socio-economic data had indeed been compiled and summarised before zoning, then efforts at integration were limited to the presentation of a series of socio-economic posters during the land zoning discussions.

Most of the villagers interviewed in Phakhok acknowledged that they could not comprehend the link between the (scarce) data presented during meetings and the mapping outcomes. Understanding was further undermined by language issues, as most women involved in the planning process did not speak Lao, the main language used during meetings. The research team observed that the land zoning stage also appeared poorly participatory, as zones were mapped principally by district technical employees supported by a couple of villagers (see Fig. 3). Furthermore, extension proposals made in relation to land management plans focused exclusively on intensive cropping techniques from Nepal, Vietnam and China, presented as alternatives to swidden agriculture. As accessibility is a key constraint for the area’s economic development, a demonstration focused on the analysis of actual market potential might have been more useful. A realistic explanation of these various limitations is that implementers, caught in the middle of multiple methodological and implementation challenges (e.g. use of modern technologies including GPS and GIS, adaptive learning methods proposed by scientists, and their own former framework of practices inherited from LUPLA), built on their

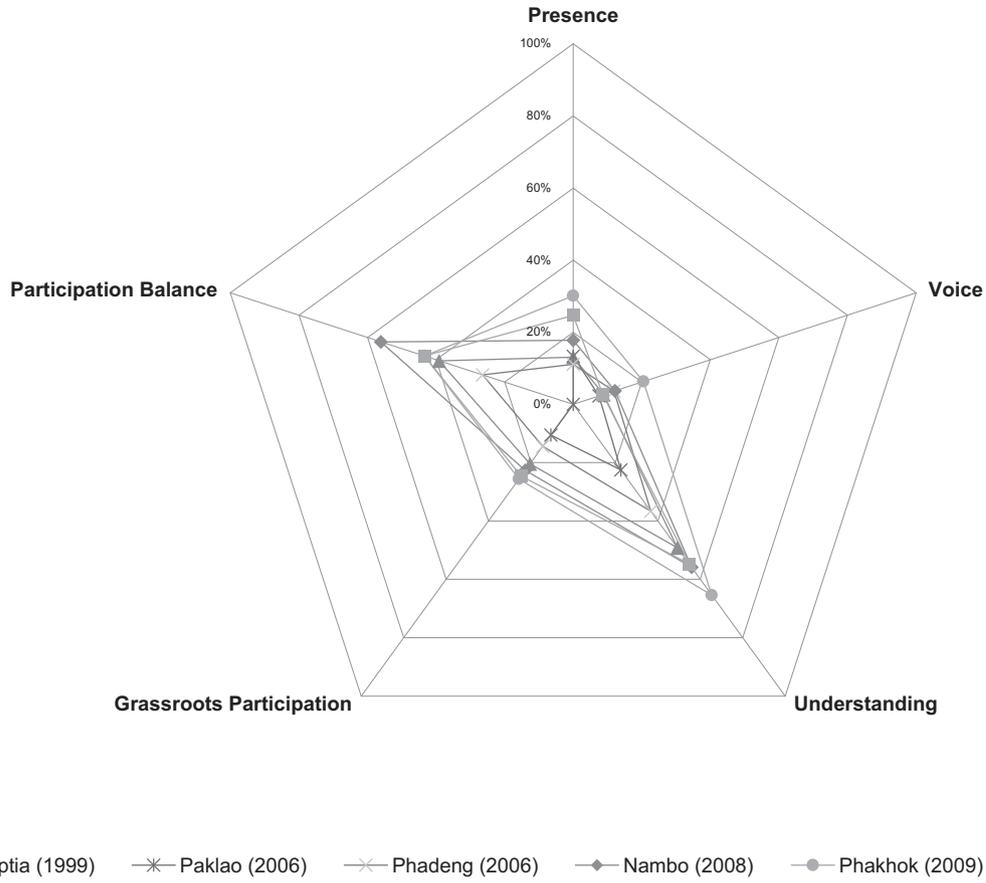
**Table 4**

Correlation coefficient matrix (Pearson): overall participation level, wealth and social position ( $n = 162$ ).

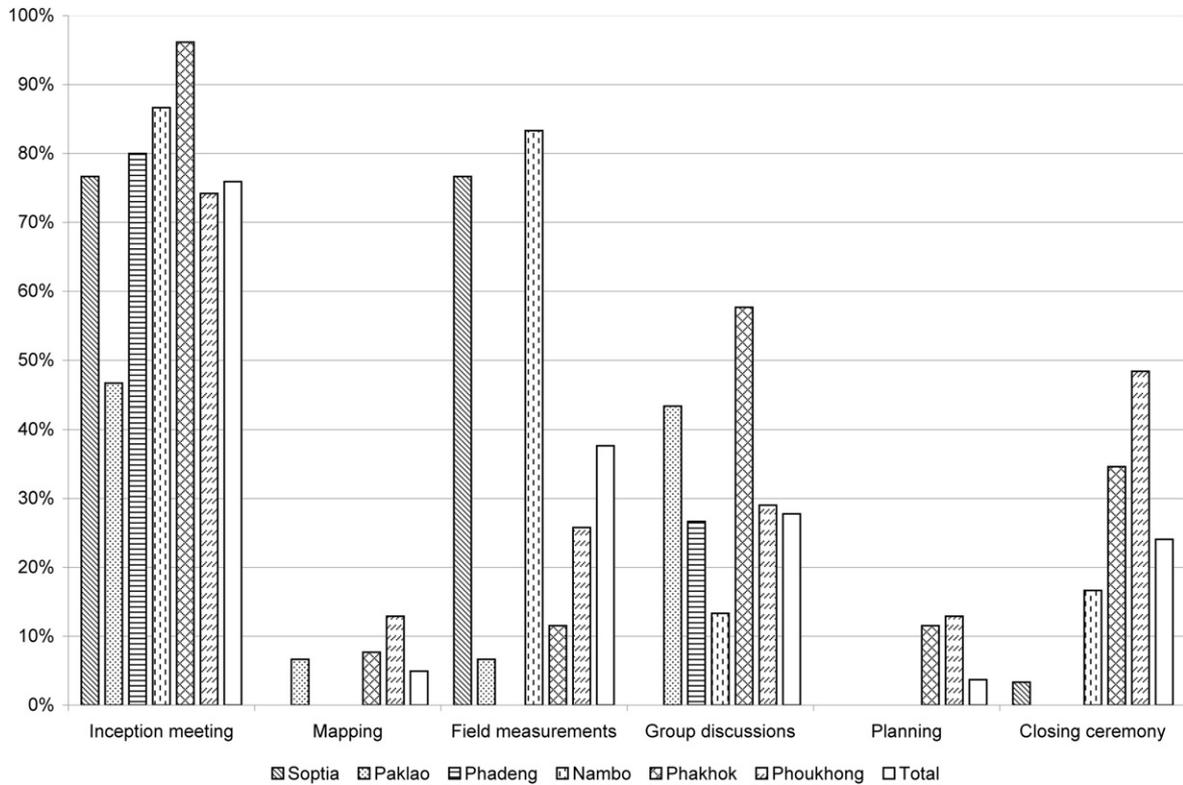
	Participation	Wealth	Social position <sup>a</sup>
Participation	1	0.098	<u>0.343<sup>b</sup></u>
Wealth	0.098	1	<u>0.251</u>
Social position	<u>0.343</u>	<u>0.251</u>	1

<sup>a</sup> Social position was ranked as follows: regular citizens (1) < members of official mass organisations and local militia (2) < heads of village unit, teachers, police officers, local party secretaries (3) < village chief and high-level party secretaries (4). The level of wealth of each village household was determined with the local authorities and ranked as follows: poor (1) < middle-class (2) < rich (3).

<sup>b</sup> Underlined values represent significant correlations (at the 0.01 level).



**Fig. 2.** Participation radar in the study villages. Values on the *presence*, *voice*, *understanding* and *grassroots participation* axes are village averages represented as a percentage of their maximum values (see “max. values” in Table 1). *Participation balance* values are represented as:  $(1 - \text{RSD of overall participation level}) \times 100$ .



**Fig. 3.** Presence at the different stages of village LUP (% of individuals).



## Discussion and conclusions

The experimental approach we developed to measure local participation provides valuable empirical evidence to answer our first research question. The results show that the evolution of village LUP in response to criticism and reported deficiencies has resulted in visible, yet fairly limited, enhancement of local participation. Non-elites remain largely excluded from the process and, in particular, from the crucial stages of zoning and planning village land uses. However, limited local participation in decision-making (not least in the study villages that provide substantial historical perspective on LUPLA) means our second research question – about how participation influences LUP outcomes – remains largely unanswered. Land use zoning is generally ignored and village LUP becomes merely a matter of delineating village boundaries and allocating land to village households. In turn, the impact of LUPLA on local access to land appears highly contingent upon existing configurations of power within villages. As a function of the bargaining power of each individual household, land allocation tends to freeze existing disparities in access to land resources. When resettlement interferes, which appears to be commonplace in the Laotian uplands (e.g. Baird & Shoemaker, 2007; Evrard & Goudineau, 2004), LUPLA can also contribute to considerable land speculation.

PLUP attempts to address these two latter issues, namely the incoherence between superimposed plans and the potential inequalities resulting from land allocation. In particular, a village cluster approach and the introduction of community land titling are expected to facilitate the integration of diverse planning interventions (including resettlements) and to limit the potential for land grabs by powerful actors. However, despite the ambitious principles of PLUP, observation in the study villages suggests the process remains entangled in confused on-the-ground implementation. With vague methodological guidelines and limited implementation capacity, PLUP appears to repeat the shortcomings observed with LUPLA in terms of limited and unbalanced participation. Without proper methodological training and technical support of implementing agencies, the risk remains that, as with previous land use planning approaches, the beneficial principles of PLUP will be lost during application in the field.

In many instances, professional land use planners and development experts neglect to engage directly with participation and its implications for social justice and socio-environmental outcomes; rather, they tend to adopt consensual and conflict-free positions. Hence, they approach sustainable development as a technical issue only (Rydin, 1995). As this study illustrates, the participatory label, heralded as a prerequisite to rural development and conservation projects in developing countries, does not by itself provide any guarantees. The concept is often instrumentalised to satisfy strategic objectives on donors' agendas without acknowledging existing gaps between intentions and reality (Ericson, 2006). To avoid being compromised by altruistic shortcuts, leading to a "Samaritan's dilemma" (Gibson, Andersson, Ostrom, & Shivakumar, 2005), projects must move beyond simplistic concepts such as "the larger (number of participants), the better" or "maximise rather than optimise". Projects advocating participation should integrate a monitoring approach. It is not sufficient that participation be declared as having been "granted"; rather, participation should become both a qualitative and a quantitative asset to reach a level of transparency comparable to other variables designed for statistical significance.

In this regard, the experimental approach for monitoring participation applied in this study can provide an alternative. As participation is the cornerstone of planning and development initiatives, it is essential that participation management is not relegated to a complacent assessment. In other words, assessing participation requires both a qualitative participatory approach and

systematic measurements less dependent upon individual subjectivities. Beyond monitoring of participation, however, appropriate means and support are crucial to avoid failure in LUP projects. As Valencia-Sandoval et al. (2010: 65) argue, a critical challenge for the LUP arena worldwide lies in the development and effective deployment of facilitation tools and "mechanisms to involve and engage local stakeholders". In that sense, the kind of monitoring tool presented in this paper should be articulated with broader methodological innovations both to provide feedback on actual participation and to allow for stronger, more informed engagement of stakeholders with negotiations addressing local and national socio-environmental objectives. As Yates, Stein, and Wyman (2010) argue, significant human and financial investments constitute key elements for bringing a sense of success and ownership to the actors involved in planning initiatives. Hence a country such as Laos – which is heavily dependent on foreign assistance – thus needs, in addition to properly developed monitoring and facilitation tools, enhanced human and investment capacity.

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## References

- Baird, I., & Shoemaker, B. (2007). Unsettling experiences: internal resettlement and international aid agencies in Laos. *Development and Change*, 38(5), 865–888.
- Burns, D., Heywood, F., Taylor, M., Wilde, P., & Wilson, M. (2004). *Making community participation meaningful: A handbook for development and assessment*. Bristol: The Policy Press.
- Burton, P. (2004). Power to the people? How to judge public participation. *Local Economy*, 19(3), 193–198.
- Burton, P. (2009). Conceptual, theoretical and practical issues in measuring the benefits of public participation. *Evaluation*, 15(3), 263–284.
- Davies, A. (2001). What silence knows – planning, public participation and environmental values. *Environmental Values*, 10, 77–102.
- Ducourtieux, O., Laffort, J.-R., & Sacklokham, S. (2005). Land policy and farming practices in Laos. *Development and Change*, 36(3), 499–526.
- Ericson, J. A. (2006). A participatory approach to conservation in the Calakmul biosphere reserve, Campeche, Mexico. *Landscape and Urban Planning*, 74, 242–266.
- Evrard, O. (2004). *La Mise en Oeuvre de la Réforme Foncière au Laos: Impacts Sociaux et Effets sur les Conditions de Vie en Milieu rural*. Rome: Food and Agriculture Organization of the United Nations.
- Evrard, O., & Goudineau, Y. (2004). Planned resettlement, unexpected migrations and cultural trauma in Laos. *Development and Change*, 35(5), 937–962.
- Fujita, Y., & Phanvilay, K. (2008). Land and forest allocation in Lao People's Democratic Republic: comparison of case studies from community-based natural resource management research. *Society and Natural Resources*, 21(2), 120–133.
- Gibson, C. C., Andersson, K., Ostrom, E., & Shivakumar, S. (2005). *The Samaritan's dilemma: The political economy of development aid*. Oxford: Oxford University Press.
- GoL (Government of Lao PDR). (1999). *The Government's strategic vision for the agricultural Sector*. Vientiane: Ministry of Agriculture and Forestry.
- GoL. (2003). *National growth and poverty eradication strategy*. Vientiane: Government of Lao PDR.
- GoL. (2005). *Forestry strategy to the year 2020*. Vientiane: Government of Lao PDR.
- GoL. (2006). *Results from the population and housing census 2005*. Vientiane: National Statistical Centre.
- GoL. (2009). *National adaptation programme of action to climate change*. Vientiane: Water Resources and Environment Administration.
- GTZ. (2004). *Study on land allocation to individual households in rural areas of Lao PDR*. Vientiane: Deutsche Gesellschaft für Technische Zusammenarbeit.
- Hillier, J. (1999). Habitat's habitus: nature as sense of place in land use planning decision-making. *Urban Policy and Research*, 17(3), 191–204.
- Jessop, B. (2007). From micro-powers to governmentality: Foucault's work on statehood, state formation, statecraft and state power. *Political Geography*, 26(1), 34–40.

- Jönsson, K. (2002). Globalization, authoritarian regimes and political change: Vietnam and Laos. In C. Kinnvall, & K. Jönsson (Eds.), *Globalization and democratization in Asia: The construction of identity* (pp. 114–130). London and New York: Routledge.
- Lestrelin, G., & Giordano, M. (2007). Upland development policy, livelihood change and land degradation: interactions from a Laotian village. *Land Degradation and Development*, 18, 55–76.
- LSFP. (1997). *Land Allocation: The experiences of the shifting cultivation Stabilisation Sub-programme*. Vientiane: Lao Swedish Forestry Programme.
- LSFP. (2001). *Manual on participatory land use planning and land allocation* (2nd ed.). Vientiane: Lao Swedish Forestry Programme.
- Macnaghten, P., & Jacobs, M. (1997). Public identification with sustainable development: Investigating cultural barriers to participation. *Global Environmental Change*, 7(1), 5–24.
- MAF & NLMA. (2009). *Manual on participatory agriculture and forest land use planning at village and village cluster levels*. Vientiane: Ministry of Agriculture and Forestry and National Land Management Authority.
- Meadowcroft, J. (1997). Planning, democracy and the challenge of sustainable development. *International Political Science Review*, 18(2), 167–189.
- Meadowcroft, J. (2004). Participation and sustainable development: modes of citizen, community, and organizational involvement. In W. Lafferty (Ed.), *Governance for sustainable development: The challenge of adapting form to function* (pp. 162–190). Cheltenham: Edward Elgar.
- Owens, S. (1994). Land, limits and sustainability: a conceptual framework and some dilemmas for the planning system. *Transactions of the Institute of British Geographers*, 19(4), 439–456.
- Poffenberger, M. (1999). *Communities and forest management in Southeast Asia*. Gland: Ford Foundation, DFID, Asia Forest Network and IUCN.
- Rodenburg, H., & Phengkay, C. (2000). *Social and gender impacts of land allocation*. Vientiane: Lao-Swedish Forestry Programme.
- Rydin, Y. (1995). Sustainable development and the role of land use planning. *Area*, 27(4), 369–377.
- Sandker, M., Campbell, B. M., Ruiz-Pérez, M., Sayer, J. A., Cowling, R., Kassa, H., et al. (2010). The role of participatory modeling in landscape approaches to reconcile conservation and development. *Ecology and Society*, 15, 13. <http://www.ecologyandsociety.org/vol15/iss2/art13/> [online] URL.
- SPC. (2000). *Poverty in the Lao PDR: Participatory poverty assessment*. Vientiane: State Planning Committee.
- Stuart-Fox, M. (2005). *Politics and reform in the Lao People's Democratic Republic*. Perth: Murdoch University.
- Thongphanh, D. (2004). *Land and forestland allocation policy: Impacts on land use practices in Hatkhai and Yang-Khoua villages*. In RCSI working paper series No. 3, Chiang Mai: Faculty of Social Sciences, Chiang Mai University.
- UNCED. (1992). *Agenda 21: Earth Summit – The United Nations programme of action from Rio*. Rio: United Nations Conference on Environment and Development.
- UNDP. (2002). *National human development report: Lao PDR*. Vientiane: United Nations Development Programme.
- UNDP. (2009). *Human development report 2009*. New York: United Nations Development Programme.
- UNEP. (2001). *State of the environment report 2001: Lao People's Democratic Republic*. Vientiane: United Nations Environment Programme.
- Valencia-Sandoval, C., Flanders, D. N., & Kozak, R. A. (2010). Participatory landscape planning and sustainable community development: Methodological observations from a case study in rural Mexico. *Landscape and Urban Planning*, 94(1), 63–70.
- Vanderveest, P. (2003). Land to some tillers: development-induced displacement in Laos. *International Social Science Journal*, 55(175), 47–56.
- Yates, G. E., Stein, T. V., & Wyman, M. S. (2010). Factors for collaboration in Florida's tourism resources: shifting gears from participatory planning to community-based management. *Landscape and Urban Planning*, 97, 213–220.