PDF hosted at the Radboud Repository of the Radboud University
Nijmegen

The following full text is a publisher's version.

For additional information about this publication click this link.
http://hdl.handle.net/2066/199249

Please be advised that this information was generated on 2019-09-06 and may be subject to change.
Keeping the land: indigenous communities’ struggle over land use and sustainable forest management in Kalimantan, Indonesia

Elizabeth Linda Yuliani, Edwin B. P. de Jong, Luuk Knippenberg, Denny O. Bakara, Mohammad Agus Salim, and Terry Sunderland

ABSTRACT. Despite the great emphasis on sustainable forest management in the 1998 Indonesian reform movement, deforestation has only accelerated since then, with Kalimantan (Indonesian Borneo) exhibiting the highest rate of forest loss. Some forested areas have, however, been preserved by local communities. We investigate how and why two of these communities in Kapuas Hulu district, West Kalimantan, have managed to maintain their forests against the pressures of illegal logging and conversion to oil palm plantations. One village community had the capacity to act on its own, while the other needed additional capacity through intercommunity collaboration. Motivations behind these villages’ decisions were both economic and eudaimonic; their desire for meaningful lives related to the community and environment and to past and future generations. The findings enrich the literature on land use change because description and analysis of successful resistance against logging and oil palm is still rare. As such, the findings offer a different way to understand and interrogate the challenges confronting present-day forest communities in Kalimantan and beyond, standing out against the mainstream impression that communities are still powerless or unwilling to resist the short-term economic lures. We also refer briefly to the environmental justice perspective.

Key Words: communal property; communal resistance; eudaimonia; forest and deforestation; Indonesia; logging; motivation and capacity; oil palm; sustainable forest management

INTRODUCTION
Sustainable and equitable natural resource management became one of the most important issues in Indonesia’s 1998 reform movement and in subsequent decentralization regulations. However, Indonesia’s deforestation rate has been accelerating since early 2000 (FWI 2011, Margono et al. 2014), mainly as a result of rapid political and institutional changes, micropolitical actions among elites, broker practices, and the government’s priority of increasing district revenues through large-scale investment (Smith et al. 2003, Wadley and Eilenberg 2005, Barr et al. 2006, Eilenberg 2012). Depending on the nature and location of the land, decentralization regulations allow governors and district heads to grant sizeable concessions and permits to companies for forest resource extraction (Government of Indonesia 1999) and/or plantation development (Ministry of Agriculture of Indonesia 2013). Furthermore, Law no. 18/2004 on plantations (Government of Indonesia 2004) requires that a plantation planned on customary land needs approval from the customary right holders, as well as agreement on the conditions of the land transfer and the amount and nature of the compensation set (see for more details Yuliani et al. 2010). Although such regulations were aimed to improve indigenous people’s livelihoods, there are numerous accounts that point to opposite results (e.g., McCarthy and Cramb 2009, Sheil et al. 2009).

In Kalimantan (Indonesian Borneo), the lifting of Indonesia’s export ban on logs in 1998 rapidly increased logging activities to meet the heavy demand for wood just across the border in Malaysia (Obidzinski 2005). After logging slowed down by mid-2000, large-scale plantation development became the major cause of deforestation. Subsequently, Kalimantan experienced the highest deforestation rate in the country, with approximately 55,000 km² of forest lost between 2000 and 2009 (FWI 2011).

This situation is contrary to the democracy, equity, and sustainability goals underlying the Indonesian reform movement, representing what Schmink and Wood (1992) label an “ironic twist.” It reflects what Rudel and Roper (1997) call the frontier model, i.e., occurring in places with large forest areas, being capital-driven, and involving encounters between competing social-cultural, socioeconomic, and economic-ecological practices, discourses, and traditions. These frontiers could become new commodity forms and reconstitute the relationships between capital, society, and state authorities (Kelly and Peluso 2015). Therefore, perspectives on frontiers should be enriched and broadened (De Jong et al. 2017).

We focus on two communities that represent those who have been able to preserve their forests, and investigate how they responded to the two major challenges: commercial logging and the (further) development of industrial oil palm plantations. Our two research questions are descriptive and explanatory in nature: “How did the case study communities manage to preserve their forest in the face of logging and oil palm?” and “Why did it happen that way?”

BACKGROUND AND STUDY AREA
Research took place in Kapuas Hulu district, which is situated in West Kalimantan, covering an area of 31,000 km². The total population of approximately 250,000 people generally belong to the two dominant ethnic groups of the area: the Iban Dayak and Malay (Kapuas Hulu Statistics 2017). The district’s forest and wetland ecosystems have key hydrological functions for Indonesia’s longest river, the Kapuas (Klepper 1994). The Kapuas river is 1143 km in length and supportive for the livelihoods of...
Fig. 1. Deforestation between 2001 and 2014 in the northwestern part of Kapuas Hulu district. Map by: M. A. Salim, CIFOR. Source of data: Hansen et al. 2013, Margono et al. 2014.

more than 3.5 million people. Danau Sentarum wetlands of more than 1,300 km² is one of most important natural ecosystems in this district and regulates the water level of the Kapuas (Klepper 1994). The wetlands consist of 83 interconnected seasonal lakes, interspersed with freshwater swamp forests, peat swamp forests, and dry lowland forest on isolated hills (Giesen and Aglionby 2000). These ecosystems are also the habitats of many endemic species (Jeanes and Meijaard 2000), including the Bornean orangutan (*Pongo pygmaeus pygmaeus*; Russon et al. 2001) and the super-red Asian arowana fish or Asian bonytongue (*Scleropages formosus*), which is economically important but currently endangered in the wild (Kottelat and Widjanarti 2005). The wetlands was declared a National Park in 1999, but it took until 2006 before real authority was established in the so-called Danau Sentarum National Park (DSNP). Despite the importance of these ecosystems, 863 km² of the district’s forests were lost between 2001 and 2014, mainly because of oil palm expansion (Fig. 1).

In 2007, the Kapuas Hulu district government granted location permits (*ijin lokasi*) for the development of plantations to around 20 new oil palm companies for an area totalling 3000 km². A location permit is the first in a series of permits that companies must apply for and obtain before being allowed to commence operations. Because companies are obliged to discuss land transfers and compensation with customary rights holders, their brokers do their utmost to secure the approval of village leaders, with tactics that include bribery (inducements) and trickery, using gaps in legislation and ambiguities and inconsistencies in institutional arrangements (see Yuliani et al. 2010 for details).

We focus our study on two Iban Dayak villages: Empakan (psuedonym) with a population of 117 people, living in 42 households and Riu (psuedonym) with a population of 145 people, divided over 51 households. The selection of these villages was based on the following criteria: located in the Danau Sentarum wetlands water catchment area; their forests being protected by local people in the face of logging and oil palm threats; the willingness of key stakeholders to participate in our research; and a minimal presence of other parties (NGOs) with the potential to bias answers given by respondents. Empakan and Riu are located at the periphery of DSNP on the western and northeastern edge, respectively. Whereas neighboring villages decided to give up their land for conversion to oil palm plantations in 2007–2009, Empakan was the only community in...
the area that rejected oil palm companies. As a minority, the people of Empakan faced many challenges and criticism from other people in the area but stayed firm. The village of Riu was one amongst 30 other villages in the northeastern area of DSNP that rejected oil palm companies up until today. However, they made history in 2007 when customary leaders put the head of the subdistrict on trial and sanctioned him by customary leaders for marking family and communal properties for oil palm companies without approval from the local people.

The landscapes of both villages (kampung) comprise mosaics of hill, lowland, and peat swamp forests, seasonally flooded lakes, mixed agroforests, swidden fields, and cash crops orchards. Both communities apply traditional land use classifications and property rights to denote specific plots of land. Family property includes land under swidden cultivation, fallow, orchard, and mixed agroforest and bilik (compartment with a communal longhouse), which should all be maintained and passed on to one’s descendants. Communal property comprises the longhouse (rumah panjai), forest reserves (rimba simpan), sacred groves (pulau) in various forms such as former longhouse sites (tembawai), graveyards (pendam), particular trees, stones or springs, communal forest and lake, and village fishing areas.

Traditional livelihood activities in the two communities consist of swidden rice and vegetable cultivation, traditional fishing, wildlife hunting, and collecting fruit and edible plants from the forests, mainly for subsistence. Swidden cultivation takes place on dryland (ladang) and on shallow swamps by the river (paya). In more permanent locations, they plant rubber and pepper for additional income.

They use a mixture of traditional knowledge and beliefs as guidance for these activities. Because rice is a central element in Iban life, many elements of traditional knowledge and beliefs involve rice (Sather 1994). For example, each year they select and preserve the best rice seeds to be planted next year, as a way to show respect to the ancestors who handed over those good seeds and to ensure sustainability of the resource. There are several types of local rice, the most common of which are pun, sangking, penyelapat, and pulut. Pun is considered sacred, believed to be the origin of all types of rice and the source of well-being. As a sacred type, pun is always planted first and at the center of the field thereby “protected,” surrounded by sangking at the outer layer, then by other types.

Another example are the major traditional ceremonies: rice festivals (gawai) and earth praising ceremonies (bedarak). Gawai are organized collectively by Iban communities in order to celebrate the rice harvest. Bedarak are conducted at the beginning of the planting season, aimed at “feeding the earth” and seeking blessings on the farmland. In present-day practice, these traditions are blended with monotheistic religion (largely Catholic in our villages), so that people can be heard saying that the rice festival is held to elicit the blessings of God.

The Iban traditions also comprise beliefs, practices, and rituals that help build community and make sense of life. For instance, in cases of repeated misfortunes or sickness of community members, the Iban usually move to a new location to build a new long-house. The traditional leaders decide when and where to move. Their decisions are made after traditional rituals to seek advice from the ancestors and the spirits, therefore should be followed.

There are also differences between the two communities, especially with respect to economic and social activities outside traditional practices. The people of Empakan have diverse small-scale businesses and a wide social network beyond the village boundaries, primarily as a result of the village's strategic location on a shortcut between the northern and southern parts of the wetlands through the waterways, where many people pause to shop and chat in its small stores and cafés. The Empakan community used this situation for proactive networking with outsiders, and to acquire knowledge about new developments and opportunities.

The people of Riu have fewer alternatives for generating an income. They meet other people only when they go to the nearest town a few times a week to sell vegetables and buy groceries, but not for entering networks or acquiring new knowledge. None of the village’s inhabitants have developed entrepreneurial activities, and in contrast to Empakan, many Riu villagers are involved in wage labor, especially construction work across the border in Malaysia.

CONCEPTUAL FRAMEWORK AND METHODS
The research questions of this paper are about the “why” of social action and about the capacity of the indigenous people to undertake such actions. This section describes the key concepts. Its purpose is not to initiate any new discussion but to arrive at a set of concepts broad yet clear enough to serve as a framework for analysis.

Ex ante conceptual framework
Figure 2 shows the conceptual framework the study commenced with to support effective data gathering. In line with Elster (1989) and De Groot (1992), the overall structure assumes that in order to act, people need the capacity to do so as well as having the motivation, and consider the perceived consequences of a decision in terms of the motivational criteria. If, for instance, prestige is a motivation, loss of prestige can be perceived as a consequence. The term perceived is important here because, as may well be imagined in our villages, oil palm corporations that approach villagers make many promises, and the degree to which these promises are believed may determine many of the community’s decisions. Finally, decisions are depicted as being influenced by pressures (in our case, from logging and oil palm corporations), denoting actions that are not merely sidelines of the perceived consequences, but designed specifically to influence the decisions, such as bribery of some key persons, initiating rumors to undermine others, or issuing threats. On the top right of Figure 2, the final outcome is seen as being influenced by the first decision and by ongoing pressures.

Community capacity is the first of the detailed concepts in the framework that needs further elaboration. We emphasize community level because under Indonesian legislation such as Law No. 18/2004, which at present has been replaced by Law 39/2014 (Government of Indonesia 2014), an agreed compensation by the customary land rights holders is required. This law is part of what we have called contextual capacity, denoting any de facto capacity handed over to (or usurped from) the community by the state or other external agencies.
The next component is the sum total of private capacities individual community members may be willing to put to work at the community level. Following Bebbington (1999), such capacities may include economic capital but also knowledge or linkages with external powers “bridging social capital” (Coffé and Geys 2007, Putnam 2000) for the community. The final component of community capacity is collective social capital. Following De Groot and Tadepally (2008), this is not a sum total of individuals’ social capital (sensu Bourdieu 1986), but a true system-level characteristic sensu Putnam (1995). In our field-level research, community capacity was made operational through variables such as wealth, knowledge, and connections; the willingness to make these available to contribute to community-level leadership; mutual trust and intensity of community relationships; and the maintenance of community-level institutions.

The concept we paid most attention to in our construction of the conceptual framework is motivations. Literature on human motivation is often contradictory, e.g., assuming a dominance of economic motives or taking a much broader view. These broader views include cultural, emotional, and affective factors that can play an important role when communities engage in care for their land. For example, Stern et al. (1999) explain the roles of value-belief-norm theory; Ryan and Deci (2001) self-determination theory; Chan et al. (2016) and Arias-Arévalo et al. (2017) on the intrinsic, instrumental, and relational values; Colding and Folke (2001), Peterson (2014), and Yuliani et al. (2018) personal and cultural values such as resource and habitat taboos; Nightingale (2011) and Singh (2013, 2015) describe the transformative potentials of subjectivity and emotional reasons such as joy and life-affirming aspects in proconservation behavior and cooperation; while Berkes et al. (2014) developed guidelines for the analysis of social-ecological systems that emphasize the importance of motivation.

In our conceptual framework, we capture these different perspectives, as the classic Greek philosophers did, in terms of hedonic versus eudaimonic motivation. Hedonic motivation focuses on happiness through the avoidance of pain and the attainment of pleasure, quite in line with present day economic preferences/rationality and hedonic psychology ( Kahneman et al. 1999). Noting that the pursuit of pleasure does not necessarily focus on immediate satisfaction only, the framework includes a longer-term hedonic perspective as well, e.g., such as saving or investing or, as in our villages, hoping for the arrival of infrastructure that facilitates village-level economic growth.

Eudaimonic motivations on the other hand express the human desire to live a complete, connected, and meaningful life (MacIntyre 1985, Ryan and Deci 2001), which is deeply different from desiring perpetual hedonic happiness (O’Neill 1992, 2002). The meaningful life (eudaimonia) is a practice-oriented ethical, social, cultural, and psychological concept (Annas 2002, May 2010, Badhwar 2014, Haybron 2016, Schwartz and Wrzesniewski 2016). It is a narrative concept because people desire and create a coherent, sense-making story of self and community. It is a social concept because people desire and act to make a difference in their community or in the world. It is a cultural concept because people intuit and learn that traditions and shared values help in making sense of life. Finally it is a psychological concept because contrary to common dualistic Western philosophical frames, eudaimonia is expressed in an intimate intertwining of thinking (ratio), feeling (affect, emotion), and action. As evident from Figure 2, we retained only the first three aspects of eudaimonia because these were the relevant ones in our case. Consequently, in the conceptual framework, we find short-term economics, long-term economics, and the three aspects of a meaningful life as the motivational categories designed to enable rich and balanced fieldwork results. During the fieldwork, the meaningful life concept was made operational through interview questions and discussions on connectedness with nature and community, ideas on the good life, and the sense-making role of traditions.

A last feature in Figure 2 is that within the motivational element, a somewhat shifted framing of the categories is present after the large bracket. This represents an ex post reformulation that resulted from the fieldwork, and will be discussed in the results section.

Methods for data collection and analysis
The main method we used was conversation with a purpose (Burgess 1984), i.e., semistructured, in-depth interviews in an informal setting, where issues of concern are raised in a natural sequence in accordance with the flow of conversation (see conversation topics in Table 1). To establish a time reference of the history, we used the life history technique (Atkinson 1998), referring to important family, social, political, or environmental events, such as long droughts, weddings, births, and presidencies. In selecting participants, we used snowball sampling (Goodman 1961, Morgan 2008) until we reached a saturation point (Glaser and Strauss 1967), based on the following criteria for participants (adapted from Rubin and Rubin 2012): knowledgeable and experienced in the issues under study; representing a range of points of view (supporters, opponents, undecided) and groups (gender, age, wealth, origin); and demonstrating a willingness to talk. In total we interviewed 33 participants (17 in Empakan and 16 in Riu; 16 women and 17 men; 10 customary leaders and village chiefs, one of them a woman leader), sometimes several times. Later on we discarded data from three respondents who were only 12 years of age or younger at the time the oil palm discussions took place.
Table 1. List of conversation topics.

<table>
<thead>
<tr>
<th>Conversation topics</th>
<th>Information probed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities and associated institutions when logging and oil palm came</td>
<td>Income generation etc. over time; Norms and rules, e.g., traditional land-use systems and tenure, compliance; Roles of leadership, knowledge, and information.</td>
</tr>
<tr>
<td>Life histories</td>
<td>Changes over time: livelihoods, surrounding environment and resources, infrastructure, relationships (intra- and intercommunity); between community and outsiders, e.g., the government, business people, and markets; between community and natural resources, infrastructure; perceived causes of these changes; Life objectives, strategies, coping over time; Roles of traditions in the community; Meaningful elements of nature and land; Formative experiences (childhood, spiritual, cultural, etc.); What, finally, is the respondent’s overall idea of the good life and a good future?</td>
</tr>
<tr>
<td>Logging and oil palm</td>
<td>Promises, pressures, and acts of logging and oil palm actors; Individual and community responses; Processes at the community level; Perceived underlying factors, including the economic motivations and the variables of community capacity.</td>
</tr>
</tbody>
</table>

In addition to the individual interviews, we conducted five focus group discussions (FGDs; Morgan 1997) and informal discussions. We had three FGDs in Riu and two in Empakan, with five to seven official participants. In practice the number of participants was higher because many villagers joined and enriched the discussions. The FGDs centered on issues of traditional land use systems, natural resources, income-generating activities, changes over time and major causes of logging and oil palm expansion, and roles of formal (state) and informal (customary) institutions. We did not limit the topics to the logging and oil palm because we wanted to understand the causal relations with other possible factors. During the FGDs, we used the participatory village sketch method (Pretty et al. 1995) as a tool to (i) visualize traditional land use and tenure systems including sacred groves, types of ownership (communal, family, or individual), and other important parts of the villages; (ii) document customary rules and institutions pertaining to these elements; and (iii) check the terms and language used.

Finally, informal discussions were shaped using moderate participation (DeWalt and DeWalt 2011). We joined villagers in their day-to-day activities, such as rubber tapping, fishing, informal gathering, and chatting in afternoons and evenings, and more formal village meetings. We listened carefully to their conversation to check for consistencies or inconsistencies between interviews and practice. Whenever the topics became relevant to the issues we studied, we asked clarification questions (except in formal village meetings where we purely observed).

Each interview and FGD took between two to four hours and used Indonesian and Iban languages. Data collection took place between May 2014 and December 2016, though we had been conducting fieldwork in the Danau Sentarum and Kapuas Hulu region already for more than a decade. All information gathered from the above methods was manually documented as verbatim records. This information was first put into narrative analysis, then further analyzed for emerging common themes that were linked to the localized sensitizing concepts and the oil palm discussion, using descriptive and value-coding techniques (Saldaña 2009) by one coder. All data were cross-checked and triangulated with field assistant before coded.

RESULTS
Our findings show that the communities’ responses to logging and oil palm cultivation attempts were strongly driven by the interconnected factors of history and policies of land use, culture, and economic context, described at the beginning of each section.

Logging, oil palm, and community responses

Logging
The 1980s and 1990s were the golden era for the timber business in Indonesia, which was fully controlled by the central government, corporate conglomerates, and the military (Heri et al. 2010). The timber business was dominated by state companies and large-scale private concessions owned by Indonesian conglomerates. Having legal concessions, they are categorized as legal logging. At the time, there was no regulation that required compensation for the local people, even though the companies operated in their village territories. In Kapuas Hulu district, these concessions continued operating up until the late 1990s. Our respondents were quite aware that at the time, local people were nothing but powerless bystanders witnessing the onslaught on their ancestral lands without any say or recourse to compensation. The expression often used in their responses, “timber gone, people got nothing,” is similar to Peluso’s “Rich forests, poor people” (Peluso 1992).

In the late 1990s, many of these concessions licenses expired, while timber demand remained high. Meanwhile the early decentralization regulations still had many gaps, causing a power vacuum. This situation was used by new actors to their advantage. Between the late 1990s and 2005, illegal logging operators and more than 300 small-scale concessions had caused a new wave of deforestation (Budiarto et al. 2003, Yasmi et al. 2005, Hidayat...
The people of Riu had similar motives to get involved in logging: an economic one. One village leader stated the following:

*If the government had looked after its citizens and provided us basic facilities, and given us a fair share of the revenues from the legal logging concessions, we would not have been tempted to become involved in the illegal logging business. We had to stand up for our rights. We lost our big timber, but we got money and clean water installations.*

However, they did not develop a well-thought set of demands that were handed over to the logging companies. They only asked for clean water installations and cash payments, without placing any restrictions on logging. Right after the clean water pipes were installed in 2003, externally driven logging operations took off until the end of 2004. Villagers in Riu took no collective action to replant logged-over areas, and the fact their inner forest was spared is only down to the 2005 logging ban. Proceeds were not invested in new businesses, but on buying motorcycles, generators, and electronic appliances.

**Oil palm**

Most of the people in Empakan and Riu became familiar with oil palm operation (cultivation, company-community partnership, employment, etc.) when they or their relatives were working on Malaysia’s plantations. However they also learned from neighboring villages about the negative consequences of the oil palm operation in Indonesia, including trickery and broken promises from the companies. In its negotiations with two villages for example, one of the companies made significant promises but also insisted on acquiring land with tall forests including peat swamp forest containing large volumes of timber. The company began constructing an access road, but suddenly withdrew from the area after cutting down all the trees. The company’s estate manager later admitted they had in fact been interested primarily in profits from timber (for more details see Wadley et al. 2000).

In 2007, other palm oil companies with Indonesian, Malaysian, and Thai investors, came to the district, looking for land and seeking people’s approval. When the company’s staff visited Empakan and Riu, they promised new infrastructure and high and immediate income from employment on construction projects and oil palm plantations and Nucleus Estates and Smallholders (NES) schemes, complemented by profitable out grower opportunities. Subsequently, the communities held meetings that involved all villagers to discuss their points of view. According to the respondents, very few community members were interested in the oil palm company’s promises.

Customary leaders, village chiefs, and the majority of villagers had learnt from other villages that palm oil companies repeatedly broke their promises and were unreliable, and they were well aware that, contrary to logging, conversion to oil palm plantation is total and irreversible. Following a series of meetings that involved all men and women of the long-house, they decided to reject the oil palm proposals. We attempted to distinguish differences in reasoning between men and women but we found no major differences. Reasons quoted by men and women respondents were similar, i.e., to maintain ownership and control over communal...
land including forests and sacred groves, family and individual land, to maintain sustainability, and ensure intra- and intergenerational access to timber, clean water sources, and other natural resources. Specifically for Empakan, respondents also noted they already had reliable and operative sources of income, therefore they were not interested with the oil palm offers.

Respondents reported no pressures from the oil palm company before the first village decisions were made. Later, however, the company focused on influential individuals such as customary leaders and administrative leaders, offering them cash incentives and other gifts on condition they would try to convince other community members to accept oil palm development. The company also promised them employment and partnerships, and even took them by aeroplane to visit an oil palm plantation in Sumatra that showed wealthy farmers. The village leaders were prevented from actually talking with these farmers, however. The company also attempted to paint a negative image of proenvironment NGOs, so the communities would resist such NGOs if they ever came to their regions. All company efforts failed however, and the communities remained consistent in their rejection. Village elites displayed a strong sense of commitment and social responsibility as reflected in the interviews, with one respected elder in Riu saying, “We’d rather live with economic limitations than surrender our land for oil palm.”

When the village elites proved uninterested, the company turned its attention to the camat (subdistrict head). Subsequently, the camat earmarked lands in Riu and other communities for oil palm plantations with no prior information or negotiation. In a surprising move, Iban customary leaders then filed a lawsuit and sanctions against the camat. This was the first time in Kapuas Hulu’s history that a camat representing formal institutions had been taken to court by customary leaders representing informal institutions. After more than a year of failed attempts, the company finally gave up on Empakan and Riu, but continued promoting oil palm development in other villages.

**Explanatory factors**

**Reframing the framework**

During fieldwork, the ex ante framework shown in Figure 2 served its purpose well by focusing discussions on issues that mattered. At the same time, however, we found the framework could have performed better if it were phrased slightly differently, particularly in the area of hedonic/eudaimonic motivations. It turned out, for instance, that long-term motivations, conceptualized ex ante as a primarily hedonic (economic) issue, were strongly associated with the idea of inheritance and formulated in an eudaimonic manner, where a good life is one that leaves the basics for a good life to descendants. However, these basics, in turn, were seen mainly in economic terms, e.g., a healthy forest, a viable shop or arawana farm, good gardens, and rice land. In the ex post framework, therefore, long-term motivations are taken up as a mixed eudaimonic/hedonic concept, associated primarily with inheritance.

In the ex ante eudaimonic motivations, the narrative aspect did not come out with any emphasis. The struggle between perpetual consumption (hedonism) and the coherence of one’s life story may currently be a more Western than Indonesian rural occupation. Or possibly, good life narratives were already summarized under the respondents’ inheritance idea. We dropped the concept from the eudaimonic motivations, arriving at the ex post classification of Figure 2, representing our current best representation of fieldwork concepts in our case study.

**Community capacity**

The fact that both communities were able to resist the oil palm powers shows that obviously, they had the capacity to do so. For both of them, the decentralization law, specifying that village approval was necessary for oil palm expansion, was an essential element of this capacity. However, differences between the villages were also apparent. In Empakan, capacities were striking. On the private level, many households had relatively high and resilient incomes from land-based and entrepreneurial activities as well as private social capital, and many were willing to put these to work—or at least refrain from using them against—the majority decision. On the level of collective social capital, the community could avail of coherent and respected leadership and well-developed bonds of trust and collaboration, e.g., in the maintenance of its autonomy and traditions. As one community member said, “Relations among community members are good, and we always share information or ideas. In arawana farming, for example, successful villagers motivate others to replicate them and offer help in various forms to get them started.” According to another respondent, “When there is new program or aid from outside, our leaders organize community meetings to discuss how to proceed, comparing risks and benefits. They are transparent so we trust them.”

The situation in Riu was different; households were less affluent, were more involved in wage labor rather than independent entrepreneurship as in Empakan, and were much less connected to sources of influence and information. At the collective level, leaders in Riu were not as transparent, creative, or tactful as those in Empakan. They could not have held out against the logging powers on their own. As Riu villagers said, “The logging investor met with elders several times and agreed to provide the water installations. We did not know what else they discussed, but we did not assign any particular area or type of tree [species] to log. The logging stopped because the government chased and arrested logging operators.”

The village held out effectively against oil palm, because its contextual community capacity was strongly reinforced by the village joining some 30 other villages in 2007–2009 in acting collectively against the conversion of customary land for oil palm plantations. The same group initiated the trial against the camat, mentioned above. The forest in Riu survived under this collective capacity.

**Motivational factors**

As we have seen, the decisions to become involved in logging in the early 2000s were driven primarily by economic motives, and were reinforced by challenging situations caused by the El Niño event. In Empakan, however, long-term considerations were held firmly in mind, putting community capacity to work in negotiations over selective logging and sparing selected areas, and later in collective replanting action. The mixed hedonic/eudaimonic inheritance motive is in evidence here, with one respondent saying, “The elders always remind us our territory is an inheritance, so we must keep it safe for our descendants. By being united and helping each other, we have good things (sources of income, land, natural resources) to pass on to them.”
Economic motivations were also present in the case of oil palm. When the oil palm company made an appearance in 2007, the villagers’ livelihoods had already improved and their short-term concerns over meeting basic needs were over. This allowed economic argumentation to focus less on short-term gain (wage labor income, etc.) and more on the long term and safeguarding current sources of income, many of which were environment-based. The oil palm development implied total land conversion, and as one villager said, “Logging does not take over our land, but oil palm does.” Consequently, economic motivations did not speak overwhelmingly for oil palm. As one respondent put it, “These businesses (arowana farms, pepper gardens, etc.) have been made possible by the good environment around us. [They would be] impossible if we were surrounded by oil palms. Oil palm will not make us richer.”

As the framework in Figure 2 suggests, long-term economic thinking was mixed with inheritance notions. A respondent in Empakan said: “The most important thing for us is to hand over a good inheritance to our descendants: land for rice and cash-crops cultivation, timber to build their own houses, clean water, and effective income sources. Those good things would perish if we let the oil palm take over our village.”

Of the more purely eudaimonic motivations, the social desire to make a positive difference in the community (and refrain from making a negative one) is evident in quotations such as this one from the former chief of Empakan, “When my [small-scale] business started to grow, I offered relatives and neighbors to join, or encouraged them to develop the same business. By doing so, we could be successful together. It is not good to achieve success alone, while others stay poor.”

Our interviewees often mentioned traditional beliefs and belief in God. For them, the two went together. They were proud of their traditions and showed a deep belief in God. We encountered the belief in tradition, including a deep sense of being embedded in nature, in the desire to protect communal property such as sacred groves, the forest reserve, and lake reserve, and in annual rituals, such as gayaw and hedarak explained earlier. Monotheistic concepts are often referred to as well, however, e.g., by the former chief of Empakan saying, “Taking advantage [by becoming a broker for the oil palm company] and therewith sacrificing others is a sin. We are afraid of God. We obey God’s will and we do not want to be punished by God. We don’t want our descendants to have a difficult life or to be cursed because of our sins.” This belief in tradition and belief in God are also good examples of pure eudaimonic motivation: the desire to live meaningful, embedded life.

DISCUSSION AND CONCLUSION
Kalimantan is a battleground where structural, large-scale drivers of land use change, logging and oil palm expansion in particular, meet with local cultures embedded in communities who struggle to restore traditional communal rights over natural resources and land. In this paper, we have seen that a framework that includes both capacity and motivation to act served to help understand why two communities in Kalimantan could and did negotiate effectively with logging companies and rejected oil palm plantations taking over their land. Community capacities, e.g., wealth, connections, information, and the ability to work together, clearly differed between the communities, with one only being able to defend itself against oil palm expansion under a supra-local umbrella. Motivations were a mixture of (i) short-term economic arguments, e.g., gain from log sales or wage incomes, (ii) long-term perspectives, and (iii) eudaimonic aspects, i.e., the desire to live a meaningful life, associated with meaningful bonds with community and earth, inter alia, expressed in local traditions. The long-term perspectives were partly economic, e.g., focusing on new infrastructure, but also had a strong eudaimonic tinge, emphasizing bonds with future generations through inheritance.

A limitation in our method is that we did not include communities that have accepted oil palm companies to convert their land into plantations. We do not know, therefore, whether the fact that most communities in Kalimantan give in to structural pressures is caused by failing capacities, by different motivations, or a mixture of these (see for instance Elster 1989). Further comparative research is needed to investigate this issue.

Nevertheless, our investigation enriches the literature on land use change and Kalimantan in a variety of ways. First of all, description and analysis of successful resistance against logging and oil palm is rare, standing out against the mainstream impression that communities are still powerless or unwilling to resist the short-term economic lures (Rist et al. 2010, Levang et al. 2016). Another contrast is that Wadley et al. (1997:258) found that during their research period, “some [Iban] respondents felt that observing traditional taboos was a sign of cultural backwardness.” We, however, found that all our respondents were proud of their culture. This may reflect a change in the ideology of the central government, which tuned down its strong emphasis on Western modernity in the early 2000s.

The paper also enriches a more theoretical debate. To begin with, it is striking that contrary to standard economics, people did not unify short-term and long-term motivations into a single measure using a discount rate. They may do so (as we all do, basically) when comparing consumption options differing on a relatively short timeframe (say today versus next year), but not when it comes to the real future of one’s own and community life as a whole, i.e., sustainability. This contrasts with the persistent belief among economists that discounting the future is universal, allied to the belief that all human desire is hedonic (De Groot 1992).

This finding illustrates the effectiveness of a comprehensive framework. As a general rule, research working in a merely economic framework will only uncover economic issues and motivations, and the same tunneling effect will take place for research working in a strictly cultural, political-ecologic, or capacity (empowerment) paradigm (Vayda and Walters 1999). Of course we cannot prove that our hedonic/eudaimonic differentiation is the best or only way to generate a more integrative framework, but it did elucidate crucial aspects that otherwise would have remained underexposed.

On a more speculative note, we might consider that our insight could be further deepened by concepts put forward by the capability approach, developed by Sen (1999) and Nussbaum and Sen (1993). The capability approach digs deeper than just the availability of commodities and the capacity to use them, giving central place to, in Sen’s words, “the freedom to function.” However, since the capability approach is focused on individual functioning, any application on communities such as the ones we
have encountered here needs to be enriched by community-level concepts. At this point, the community-level environmental justice idea suggested by Schlosberg and Carruthers (2010) may be of great relevance.

Like the capability approach, environmental justice approaches often emphasize individual-level phenomena, e.g., in terms of distributional justice. Schlosberg and Carruthers (2010), however, argue for the inclusion of collective aspects such as the functioning, recognition, and autonomy of communities. So doing, Schlosberg and Carruthers (2010) also integrate the capability approach in their environmental justice framework. This enriched environmental justice model promises to be valuable to the hedonic/eudaimonic framework too, in particular because it can deepen the understanding of eudaimonic and long-term hedonic motivations, strongly resonating as these do with community values, traditions, and practice.

[1] The Nucleus Estates and Smallholders (NES) or Perkebunan Inti Rakyat (PIR) scheme began in 1970s with financial support from the World Bank, aimed as a cooperative program between the plantation company (called Nucleus), and the smallholders (plasma). According to the Minister of Agriculture Decree no. 98/2013, companies should allocate 20% of the plantation area for the NES scheme. Companies should also build the capacity of smallholders to develop and manage their plantations with benefit-sharing mechanisms, until they can operate independently. However, as reported by McCarthy et al. (2012:533), “large-scale violations continue despite codes of conduct and legal innovations that provide for elements of ‘free, prior and informed consent’.”

Responses to this article can be read online at: http://www.ecologyandsociety.org/issues/responses.php/10640

Acknowledgments:
The study was made possible by the Institute for Science in Society, Faculty of Science, Radboud University Nijmegen; the Center for International Forestry Research (CIFOR); De Koninklijke Nederlandse Akademie van Wetenschappen (KNAW/The Royal Netherlands Academy of Arts and Sciences); The Indonesian Forest and Environmental Research, Development and Innovation Agency (FOERDIA); and USAID. We express our deepest gratitude to Prof. Wouter de Groot. We also specifically thank all the community members in our research locations, anonymous reviewers, Carol J. Pierce Colfer, Prof. M. N. C. Aarts, Prof. Dr. H. A. E. Zwart, Prof. A. J. M. Smits, Lizette Donders, Vera Jansen, Hilde van Bergen, Moira Moeliono, Amy Ickowitz, Christine Padoch, Wivit Situmorang, Juniarta Panjaitan, Gideon Saharyanto, Deki Hardeki, Agus Djoko Ismanto, Ombo Satjapradja, Imam Santoso, and Prof. Yunita T. Winarto.

LITERATURE CITED


Haybron, D. M. 2016. The philosophical basis of eudaimonic well-being. *International handbook of quality-of-life*. Springer International, Switzerland. [http://dx.doi.org/10.1007/978-3-319-42445-3_2](http://dx.doi.org/10.1007/978-3-319-42445-3_2)


