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POLITICAL ECOLOGY OF REDD+ IN INDONESIA

AGRARIAN CONFLICTS AND FOREST CARBON

Jonas I. Hein



Political Ecology of REDD+ in Indonesia

Indonesia's commitment to reducing land-based greenhouse gas emissions significantly includes the expansion of conservation areas, but these developments are not free of conflicts. This book provides a comprehensive analysis of agrarian conflicts in the context of the implementation of REDD+ (Reducing Emissions from Deforestation and Forest Degradation) and forest carbon offsetting in Indonesia, a country where deforestation is a major issue.

The author analyzes new kinds of transnational agrarian conflicts which have strong implications for global environmental justice in the REDD+ pilot province of Jambi on the island of Sumatra. The chapters cover: the rescaling of the governance of forests; privatization of conservation; and the transnational dimensions of agrarian conflicts and peasants' resistance in the context of REDD+. The book builds on an innovative conceptual approach linking political ecology, politics of scale and theories of power. It fills an important knowledge and research gap by focusing on the socially differentiated impacts of REDD+ and new forest carbon offsetting initiatives in Southeast Asia, providing a multi-scalar perspective.

It is aimed at scholars in the areas of political ecology, human geography, climate change mitigation, forest and natural resource management, as well as environmental justice and agrarian studies.

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Jonas I. Hein



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1 Introduction

When traveling through the dense oil palm plantations around the village of Bungku to the "forest of hope" (Harapan Rainforest, Indonesian: *Hutan Harapan*)¹ in southeastern Jambi on the Indonesian island of Sumatra in 2012, the people I met were troubled and rebellious. For almost 30 years, they have been fighting against the violent appropriation of community land by a transnational oil palm company. More recently, a new conflict has emerged to affect their lives – after the conservation company PT Restorasi Ekosistem Indonesia (REKI), founded by a transnational NGO (nongovernmental organization) consortium and financed by the German and Danish governments, had received a conservation concession from the Ministry of Forestry.² The new concession further reduces the land available for the peasants and indigenous communities of Bungku and neighboring villages. The village of Bungku, which the inhabitants, after years of conflict, describe as the "village of 1001 problems", is now effectively a village without land, stuck between the dark green of corporate oil palm plantations and PT REKI's new Harapan Rainforest conservancy.

Yet, there are signs of resistance along the road. Signs and boundary stones placed by villagers demarcate land claims. Banners and wooden portals welcome visitors to the territory of the indigenous Batin Sembilan group and to officially inexistent peasant settlements in the "forest of hope". When talking to peasants, you rapidly realize that it is not their "forest of hope" but a forest charged with stories of conflict and resistance. Some villagers allege that the Prince of Wales, who visited the area in 2008, now owns the forest. Others explain that they cannot use their rice swiddens anymore since the government declared the forest "as the lung of the earth". Some of those living in the Harapan Rainforest tell you that "the rich countries bought the oxygen in the forest", while others complain that their "home is not the carbon toilet for the rich countries", asking why Germany and Denmark are not reducing their greenhouse gas emissions at home instead of protecting forests in Indonesia.

Many peasants explained that their presence within the conservation concession was not accepted by the conservation company. They told me about clashes with the army, "black" private security agents and the riot police, about houses that had been burned supposedly by private security and forest police, and about brave women organizing sit-ins in front of bulldozers and heavily

armed policemen. When entering the Harapan Rainforest, the tensions were visible. Visitors had to pass security checkpoints, the main camp was fortified, and the riot police, "BRIMOB", had established a temporary base close to an ancient airfield within the conservation concession. PT REKI's staff found themselves in an emergency situation after staff had been kidnapped by peasant activists to use as bargaining chips in negotiations for the release of peasants who were arrested by private security and the police. Both parties accused each other of being responsible for the violent escalation of the conflict and the anarchic conditions.

Protest and resistance in and against the Harapan Rainforest conservancy took many different forms and involved various actors. Some peasants received support from peasant organizations and organized, for instance, a march to the Ministry of Forestry in Jakarta. Village governments ignored the borders of the concession and issued land titles for plots located within it, while others rather engaged in hidden activities, such as logging. However, not all peasants were engaged in protest against PT REKI. Some members of the indigenous Batin Sembilan consider the conservation company to be an important ally against the expansion of agro-industrial oil palm estates. They explained that their forest gardens and swiddens had been destroyed by oil palm companies. They hope that the conservation project will help them to reestablish their traditional livelihoods.

This book focuses on these new stories from the Harapan Rainforest and many others from other places on Sumatra, such as the Berbak Carbon Initiative. The stories center on the socio-spatial consequences of a recent invention by economists and conservationists in the context of international climate policy: the REDD+ (Reducing Emissions from Deforestation and Forest Degradation) mechanism. They stand for a new kind of conservation conflict linking different places and actors, such as developed countries and corporate actors interested in carbon offsetting, conservationists interested in financing protected areas by selling carbon credits, and peasant farmers and indigenous groups in the Global South interested in maintaining or expanding access to agricultural land. The conflicts over Sumatra's remaining forests are symptomatic for the contradictions and ambiguities caused by attempts to maintain the current fossil-fuel based accumulation regime and by attempts to export climate change mitigation to supposedly low-cost locations in the Global South.

In Indonesia, a large highly biodiverse archipelago with the third largest extent of tropical forest cover, the situation is notably conflictive. On the one hand, Indonesia claims to be a global leader in REDD+; on the other hand, local realities such as land tenure conflicts and the rampant forest fires of 2015 stand in sharp contrast to Indonesia's announcements concerning forest governance reforms (Finlayson, 2014; Hein et al., 2016: 380; Toumbourou, 2015). In particular, Indonesia's last remaining frontier areas are heavily contested spaces that are still witnessing violent conflicts about access and control of forest land (Hein et al., 2016; Tsing, 2005). Caused by historically contingent structural inequality, land conflicts "became chronic" (Rachman, 2013: 3) in Indonesia.

Colonial and post-colonial governments appropriated vast forest areas for resource exploitation and conservation. Today, indigenous communities and peasant organizations consider the occupation of corporate and state-owned plantation estates and conservation areas as a legitimate response to the dispossessions of the colonial and post-colonial state (Hein et al., 2016; Lukas, 2014; Peluso et al., 2008).

Indonesia has 252 million inhabitants and the fourth-largest population in the world, the third-largest extent of tropical forest cover and one of the highest rates of land-based greenhouse gas emissions, mainly caused by forest fires and deforestation. In this context, the Indonesian government, supported by Norway's International Climate and Forest Initiative (NICFI), selected a number of Indonesian provinces for piloting REDD+ policies. The province of Jambi, located on the island of Sumatra, became one of these provinces in 2013.

This book shows that REDD+ policies are seldom conflict free, especially when local communities have to cope with the simultaneous expansion of agroindustrial estates. The book focuses on two different but interrelated forms of peasant resistance and agrarian conflict. The first refers to land occupations that occurred before REDD+ implementation and that were organized by village governments, indigenous leaders and peasants, and facilitated by sub-national branches of the state. The second refers to resistance and attempts to defend land rights during the implementation of REDD+. Taking a political ecology perspective, the aim is to unravel the causes and the scalar dimension of land conflicts and peasant resistance by asking questions, such as: Which actors are involved in land tenure conflicts in REDD+ target areas? What are the historical root causes of conflictive property rights? Which role does power play? What are the explanations for conflict? What are the climate justice implications of transnational forest conservation initiatives such as REDD+?

Introducing the politics of REDD+ and peasant resistance

When the idea of reducing emissions from deforestation entered the UN climate negotiations in 2005, this was also the result of lobbying by an interesting transnational actor coalition. This transnational coalition consisted of a number of tropical forest countries represented by the Coalition of Rainforest Nations, large environmental NGOs and a number of large transnational companies interested in the cost-efficient offsetting of greenhouse gas emissions (e.g. Hein and Garrelts, 2014; Jodoin and Mason-Case, 2016; Stephan et al., 2014). Influential reports such as the *Stern Review* on the "Economics of Climate Change" (Stern, 2007) and Johan Eliasch's (2008) review "Climate Change: Financing Global Forests" identified forest conservation as the most cost-efficient way to mitigate climate change. In addition, the third assessment report of the Intergovernmental Panel on Climate Change (IPCC) published in 2007 pointed out that 17 percent of global greenhouse gas emissions are caused by deforestation and forest degradation. These key publications supported the growing

momentum for the inclusion of forest conservation in the United Nations Framework Convention on Climate Change (UNFCCC) agenda (Jodoin and Mason-Case, 2016).

The basic idea behind REDD+ was taken from dominant market-oriented conservation concepts, such as payments for ecosystem services and carbon trade. Payments to forest owners or tropical forest countries channeled through carbon markets, global funds or national payment for ecosystem services schemes would halt deforestation almost automatically. Supporting forest conservation in the Global South was framed as a "win-win" solution that would contribute to biodiversity conservation, rural development and climate change mitigation (Angelsen et al., 2012; Pagiola, 2011; Virgilio et al., 2010; Visseren-Hamakers et al., 2012). Thus, the idea rapidly gained political traction and also received support from previously skeptical actors, such as the European Union.

In 2007, REDD+ became part of the Bali Roadmap towards a post-2012 binding climate agreement. In contrast to previous market mechanisms and climate finance mechanisms, such as the Clean Development Mechanisms and the Adaptation Fund of the Kyoto Protocol, REDD+ is not governed by a central management or financing body. No final agreement has yet been made on how REDD+ will be financed, and whether emission reductions from REDD+ activities should be considered as voluntary contributions from developing countries supported by the developed countries, or whether REDD+ should be eligible for offsetting (Angelsen et al., 2014; Horstmann and Hein, 2017; Jodoin and Mason-Case, 2016). In fact, today's REDD+ governance is highly fragmented (Zelli et al., 2014). This fragmentation is also reflected at the national and local scales (ibid.). The UNFCCC is only one of many institutions governing REDD+. Most REDD+ country programs and local projects are funded by bilateral donors, such as Norway, the United Kingdom and Germany, by multilateral donor agencies such as the Forest Carbon Partnership Facility (FCPF) administered by the World Bank, and through voluntary carbon markets. All these actors have developed their own specific ideas on the recognition of community rights, on how to reduce deforestation, on rules for financing forest conservation, and on achieving supposed win-win outcomes. Some projects aim to produce emission reduction certificates for voluntary carbon markets (as the Berbak Carbon Initiative discussed in this book). Indonesia, Colombia, Guyana and Brazil, for instance, have negotiated result-based payment agreements with donors, meaning that they receive payments if they successfully reduce deforestation. Other donor-financed REDD+ projects aim to "improve" national forest governance or to make countries "ready" for carbon markets. In some cases, conservation NGOs and national conservation authorities strategically link their existing conservation efforts to REDD+ to gain access to donor finance.

Consequently, REDD+ can be many different things at different scales and for different actor coalitions and their respective storylines and discourses. In particular, because of its fuzziness, REDD+ still is and was very popular as an idea. For some actors, REDD+ is a cost-efficient offsetting mechanism, for

others rather a development aid mechanism to support transformation towards rural low carbon economies, for environmental NGOs and often underfunded national conservation authorities it is rather a mechanism to finance protected areas. Indigenous communities across the globe use REDD+ to access development aid and to argue for land rights, while peasant associations consider REDD+ as enabling land grabs for the purpose of forest carbon offsetting (La Via Campesina, 2015). For those that Hiraldo and Tanner (2011) describe as "institutionalists", REDD+ is an attempt to establish a global scale of "good" forest and land tenure governance to support climate change mitigation, biodiversity conservation, sustainable development, and the rights of local and indigenous communities (Gupta, 2012: 622; Hiraldo and Tanner, 2011: 46).

From a global environmental and climate justice perspective, REDD+ raises a number of additional concerns. REDD+ focuses on developing countries and especially on the peripheral forest margins. Forest conservation and the transfer of financial resources could help to promote more sustainable land use, but it also transfers responsibility for reducing greenhouse gas emissions to those who have emitted much less than citizens in the Global North. Furthermore, as a recent study of Irfany and Klasen (2015) shows, Indonesian citizens living in urban areas emit twice as much as those living in rural areas. From the perspective of an urban citizen either from Indonesia or from the Global North, REDD+ is attractive because it transfers obligations either to the global periphery or to the national periphery, avoiding hard emission cuts that would affect their own lifestyles. The expansion of protected areas and reforestation efforts rather affect the rural population. Consequently, the factual or putative lower-opportunity costs of forest conservation are not politically neutral.

Indigenous groups and peasants in many parts of the world criticize the "global gaze" (Fogel, 2004) of the REDD+ mechanism and the framing of forests as empty carbon stocks, highlighting that many indigenous groups and peasants live within and close to forests and have maintained the carbon storage capacity of forests for generations. REDD+ and green enclosures affect actors differently, reflecting power imbalances at the forest margins but also between the North and South, and between urban centers and rural areas in the South (Eilenberg, 2015; Hein et al., 2018a; Kosoy and Corbera, 2010; Lohmann, 2008; McAfee, 2012b). Following this argument, REDD+ can be considered as a mechanism that stabilizes the current fossil fuel-based accumulation regime (Hein et al., 2018a) and the "imperial mode of living" (Brand and Wissen, 2012, 2017) characterized by high-emission lifestyles and consumerism in global centers. The imperial mode of living is based on a disproportionate claim to global sinks, including to the world's tropical forests, to offset the externalities of high emission lifestyles (ibid.).

In this context, where land and nature are becoming increasingly valuable as carbon sinks, as ecosystem service providers and as fertile grounds for the expanding agro-industry, "[. . .] the basic questions of the agrarian political economy are as relevant as ever: Who owns what? Who does what? Who gets what?" (Fairhead et al., 2012: 241). Land is at the heart of the agrarian question.

It is one of the most important means of production in the agrarian political economy. Providing and legitimizing access to land is an important source of political authority (Lund, 2016). In many target countries of REDD+, it is exactly this political and economic resource that is highly contested (Eilenberg, 2015; Hein et al., 2016, Kunz et al., 2016; Larson et al., 2013; To et al., 2017). Two important reasons for this contestation are as follows. First, especially in Indonesia but also in South American countries like Colombia, the central state has appropriated large parts of the countries' forests, often ignoring the presence of indigenous and customary communities. The formation of the state forest estate (kawasan hutan) in Indonesia and the forest reserve (reserva forestal) in Colombia were state territorialization projects aimed at claiming land and stabilizing the national territory by allocating land in frontier areas to citizens and companies, challenging pre-existing authority and property relations (Hein et al., 2016; Ortiz, 1984: 210). In both countries, this process was notably violent and was characterized by multiple periods of primitive accumulation (Del Cairo et al., 2014; Escobar, 2003; Gómez et al., 2015; Hein et al., 2016; Peluso, 1995; Peluso et al., 2008). In Indonesia, after the fall of former Indonesian president Suharto at the end of the 1990s, power constellations changed the scalar structure of the state, and this state territorialization project came under serious pressure driven by protests from customary communities, peasant movements and local governments (Barr et al., 2006; Hein et al., 2016; Peluso et al., 2008). Rescaling widened the agency of local political authorities, creating the momentum to exercise de facto control over parts of the state forest territory. Second, land is often very unequally distributed. In the Indonesian village of Bungku, for instance, located at the margins of the Harapan Rainforest, twothirds of the village land has been allocated to oil palm, timber and conservation companies, leaving only a few hectares available for peasant farming (Polsek Sungai Bahar, 2011; Zainuddin, 2013).

Protest and resistance from peasants and indigenous communities against REDD+ and other conservation initiatives on the island of Sumatra and beyond revolve mainly around the basic questions of the agrarian political economy, as raised by Fairhead and colleagues (2012), and in particular around access to land, land rights and land-use restrictions. However, a particularity of peasant resistance against REDD+ on Sumatra is the explicit reference to global climate justice issues, as illustrated by the slogan introduced above: "Our forest is not the carbon toilet of the rich countries". The basic idea of offsetting emissions at low-cost locations not only links emitters in the North with project implementers and land users in the South, but offsetting also links local struggles on access and control of forest and land resources to transnational activists' networks that provide peasants with the opportunity to resist the land claims of private or public conservation agencies (Chatterton et al., 2013; Hein and Faust, 2014; Hein et al., 2016).

Peasant resistance and indigenous struggle for recognition and rights have been widely discussed by scholars, in particular by James C. Scott (1985). Scott analyzed hidden peasant resistance strategies, arguing that hidden and everyday

forms of peasant resistance do not openly challenge hegemony. Rather, they occur silently as the hidden encroachment strategies of peasants entering the forest of hope. But when the political context permits, for example after the fall of Suharto, hidden resistance can turn into open forms of resistance, such as the public invasion of property (Peluso, Afif and Rachman, 2008; Scott, 1989: 5; Turner and Caouette, 2009: 11). The cases discussed in this book fall between the two categories. They include open and organized forms of land occupation, the formation of counter territories and open protest at climate summits, but also hidden encroachment and sabotage. Furthermore, they include resistance against historically rooted and contingent structural inequality and unequal land distribution prior to conservation interventions, and resistance and conflict in the context of ongoing REDD+ and conservation interventions. Whereas peasant resistance can be considered as class struggle (e.g., Scott, 1989), indigenous groups' struggle mainly strives for the acknowledgement of full citizenship rights (especially in Indonesia) and the obtaining of specific minority rights in compensation for being historically disadvantaged, exploited and marginalized by European colonizers and post-colonial governments.

Recently, the social struggles of peasants and of indigenous groups have become more and more transnational. Transnational peasant organizations such as La Via Campesina and the Asian Peasant Coalition emerged out of protest against market liberalism in the 1990s (Borras, 2008). Transnational peasant protest has become a common feature of international trade conferences and, more recently, of climate change conferences. La Via Campesina, as the largest peasant organization, and large indigenous rights organizations, such as AMAN (Alliansi Masyarakat Adat Nusantara) from Indonesia and COICA (Coordinadora de las Organizaciones Indígenas de la Cuenca Amazónica) from the Amazon basin countries, have become key actors of the global climate justice movement (Claeys and Delgado-Pugley, 2017). COICA and AMAN use the REDD+ momentum to lobby for indigenous rights. They initiated, for example, the "no rights, no REDD+" campaign, they suggested a number of indigenous approaches towards REDD+ (e.g., REDD+ Indigena of COICA), and strategically use their supposed role as forest stewards to strengthen indigenous rights to land. Peasant associations such as La Via Campesina, in contrast, strictly oppose REDD+ but they also use the additional agency provided by the REDD+ momentum to lobby for peasant rights and food sovereignty and against offsetting and carbon markets (Buckley, 2018; Claeys and Delgado-Pugley, 2017; La Via Campesina, 2015). Both peasant and indigenous movements have strategically used the additional agency provided by global climate governance for transnational campaigns. Both have heavily criticized market-based and state-led strategies to mitigate climate change (Claeys and Delgado-Pugley,

However, peasants and indigenous communities organized in social movements are not the only type of resistance against REDD+ occurring in Sumatra's forests. The ongoing conflicts also take place within the state. There is competition between the conservation and development-oriented apparatuses

of the state, reflecting the different concerns of competing groups within society but also those of supra-national planning institutions (Hein et al., 2018a). In some cases, peasants and indigenous groups have formed alliances with local state authorities and local NGOs in order to regain access to land officially controlled by other state actors and private companies. Especially after the political turmoil of the late 1990s and early 2000s, district heads (Bupati), village heads (Kepala Desa) and customary leaders took advantage of the confusion, interpreting the decentralization reforms to their advantage and asserting farreaching administrative authority over forests (Barr et al., 2006). In contrast, local conservation authorities used the REDD+ momentum after the climate conference in Bali in 2007 to form alliances with public donors and transnational conservation organizations to gain support for their chronically underfunded protected area system (Hein et al., 2018a).

This book argues that conflict in the context of forest carbon offsetting and REDD+ is a new empirical phenomenon calling for an innovative conceptual framework. The concepts of power, territory and scale provide important explanations for contemporary agrarian conflicts in the context of conservation interventions. REDD+ and broader processes of state transformation have induced significant rescaling processes, transforming the governance of land and forests and producing new forms of territoriality (Castree, 2008; Cohen and McCarthy, 2014; Peluso and Lund, 2011; Reed and Bruyneel, 2010). Investigating the politics of scales sheds important light on "[...] who will have access to what kind of nature [...]" (Swyngedouw, 2010). Political scales can be considered as spatial delimitations of power relations (Meadowcroft, 2002). Investigating territorialization processes helps to unravel discursive strategies, the construction of social identities, conservation logics and power relations inscribed in landscapes (Peluso and Lund, 2011). Power relations in this vein are important constitutive elements of the social production of space, scale and territory.

REDD+ and access to land are both issues that are negotiated and regulated on different scales, for example at the village scale by the village head, by the district head or (in the case of forest land) by the Ministry of Forestry in Jakarta, or (in the case of REDD+) at UNFCCC conferences and in the headquarters of donor agencies. Consequently, this books builds on multi-sited qualitative research inspired by "deterritorialized" (Merry, 2000: 130) and "multi-sited ethnography" (Marcus, 1995: 80). The main sites of the empirical investigation of this book are villages located at the margins of and within the Harapan Rainforest and the Berbak Carbon Initiative on the island of Sumatra, Indonesia (Figure 2.1). Both projects are located in the province of Jambi. The Harapan Rainforest is located in the southeastern part of Jambi's lowlands, whereas the Berbak Carbon Initiative is located at the coast of the South China Sea. In both projects, transnational NGOs and donors play an important role. In addition, the book is based on qualitative research conducted along the lines of different networks of interaction linked to project implementation and resistance across field sites, namely the provincial capital of Jambi, the national capital Jakarta,

the city of Bogor as an important hub for academia and conservation NGOs, UNFCCC climate change conferences and the headquarters of donor agencies in Germany.

A guide through the book

The outline of this book is as follows. Chapter 2 provides an analytical and methodological framework for investigating new agrarian conflicts. Conflict in the context of forest carbon offsetting and REDD+ is a new empirical phenomenon calling for an innovative conceptual framework. Based on the politics of scale literature, political ecology and theories of power, the book aims to advance our theoretical understanding of the new agrarian conflicts emerging in the context of REDD+. It is argued that the ability to alter political scales and consequently the ability to access land and define "nature" is linked to questions of power.

Chapter 3 investigates the politics of the scale of forest and land tenure governance as the dynamic context of REDD+ implementation and agrarian conflicts in Indonesia. The chapter shows how different political regimes, recentralization and decentralization have facilitated the construction of sometimes competing and contradictory political scales governing access to land and forests. Recently, village governments supported by customary authorities have been able to establish village scales of land and forest tenure regulation and to expand village and customary territories, overlapping with the state forest territory and with national scales of regulations. Allied with customary authorities, village governments control land, challenge the integrity of the state forest territory and are able to resist centralized control of forest and land resources.

Chapter 4 focuses on the privatization and transnationalization of conservation in Indonesia. Private companies and donor governments from the Global North consider forest conservation in the South a cost-efficient option to mitigate climate change. Environmental organizations and public conservation agencies in the South are mainly looking for new options to finance tropical forest conservation. The Indonesian government has initiated a number of governance reforms and established REDD+ pilot provinces in order to be "ready" for foreign investments in carbon conservation.

Chapter 5 focuses on the transnational dimensions of agrarian conflicts and peasant resistance. It investigates the different territorialization strategies of peasants, indigenous groups, conservation NGOs and apparatuses of the state. It shows successful examples of peasant resistance that challenge the commodification of forest carbon, and disentangles conflicts between development– and conservation–oriented apparatuses of the state.

In Chapter 6, the book concludes that apparently local land conflicts about access and control of forests and agricultural land become transnationalized in the context of REDD+ and forest carbon offsetting. REDD+ pilot projects in Jambi financed by private and public donors changed the dialectical relationships between structure and agency. They reduced the ability to access land for

some actors, provided additional opportunities for others, and provided entry points for the transnational resistance campaigns of peasant movements and climate justice organizations. Successful peasant resistance, as the struggles discussed in this book show, has relied on scale jumping and on transnational support networks. Peasant movements and indigenous peoples have gained agency in the course of recent attempts to establish a global scale of forest governance. Finally, transnational conservation initiatives and market-based conservation instruments such as REDD+ are not acting in a social and political vacuum. Understanding the specific history of landscapes is of key importance for understanding land conflicts triggered by conservation interventions.

Notes

- 1 The official names are Harapan Rainforest and *Hutan Harapan*. In this book Harapan Rainforest and "forest of hope" as an English translation will be used interchangeably.
- 2 In 2015, the former Ministry of Forestry (*Kementerian Kehutanan*) and the Ministry for the Environment (*Kementerian Lingkungan Hidup*) were merged. When I refer to the Ministry of Forestry (MOF), I always refer to the institution prior to the merger, when I refer to the Ministry of Environment and Forestry (*Kementerian Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia*), I refer to the ministry in its current form.

2 Conceptual, theoretical and methodological underpinning for a political ecology of transnational agrarian conflicts

Conflict in the context of forest carbon offsetting and REDD+ is a new empirical phenomenon calling for an innovative conceptual framework and methodological approach. This book aims to advance our theoretical understanding of new agrarian conflicts emerging in the context of REDD+. Building on Edward Soja (1989: 60), I suggest that any analysis of specific geographies of capitalism is necessarily an "eclectic exercise". Especially research on new empirical phenomena that links actors across scales and spaces in a very specific and novel way – such as REDD+ – has to be flexible and creative and should avoid too rigid categorical thinking (ibid. 73). REDD+ and agrarian conflicts are negotiated and regulated on various scales, e.g. at the village scale by the village head, by the district head or – in the case of forest land – by the Ministry of Forestry in Jakarta, or – in the case of REDD+ – at UNFCCC conferences and in the headquarters of donor agencies. Consequently, the empirical research for this book was "multi-sited" and inspired by "deterritorialized" (Merry, 2000: 130) and "multi-sited ethnography" (Marcus, 1995: 80).

This conceptual and methodological chapter outlines the main elements of a political ecology of REDD+, combining critical social theory, Marxist and post-modern geography, and legal anthropology, and provides information on the multi-sited qualitative approach used for the empirical research. It introduces concepts of power, the state, space, territory, scale and property which help to investigate agrarian conflicts in the context of conservation interventions. I argue that REDD+ and broader processes of state transformation have induced significant rescaling processes, transforming the governance of land and forests and producing new forms of territoriality (Castree, 2008; Cohen and McCarthy, 2014; Reed and Bruyneel, 2010; Peluso and Lund, 2011). Investigating the politics of scales explains in important ways "[...] who will have access to what kind of nature [...]" (Swyngedouw, 2010: 12). Political scales can be considered as spatial delimitations of power relations (Meadowcroft, 2002). Investigating territorialization processes helps to unravel discursive strategies, the construction of social identities, conservation logics and power relations inscribed in landscapes (Peluso and Lund, 2011). Power relations in this vein are important constitutive elements of the social production of space, scale and territory. Thus they are important explanatory factors for the differing abilities of actors to access land and property (Corbera and Brown, 2010; Koch et al., 2008; Nuijten, 2005; Ribot and Peluso, 2003; Rodriguez de Francisco and Boelens, 2014; Wynberg and Hauck, 2014;).

Political ecology

Political ecology explores the production of different "politicized environments" (Bryant, 1998) in the context of specific power constellations. Political ecologists built on a wide range of schools of thought coming from very different epistemological perspectives (e.g. Marxist, hermeneutics/social constructivism, post-structuralism) loosely drawn together by the objective of investigating the interrelations between political economy, ecological processes and power relations. Fundamental for Marxist political ecology is the basic assumption that the appropriation and transformation of the biophysical environment through labor produces a "second nature" (Lefebvre, 1976b: 15) or "social nature" (Castree, 2001).

In German-speaking countries the concept of societal relationships with nature (Gesellschaftliche Naturverhältnisse) has been quite influential for scholars of political ecology (Görg, 2011: 416; Köhler, 2008: 210; Pichler, 2014: 19). To some extent the concept of societal relationships goes beyond Anglo-Saxon political ecology, stressing the importance of institutions and different state agencies (Görg, 1999, 2011). The concept explicitly considers that "[...] conflicts over societal relationships with nature are closely interlinked with spatio-institutional transformations of the state" (Brand et al., 2011: 150). In line with the societal relationships of nature concepts, this study builds on a dual understanding of nature (Görg, 2011: 416). First, a material dimension of nature refers to economic and technical forms of appropriation (ibid.). Second, a symbolic dimension refers to nature as a cultural construction (ibid.). These two dimensions are not binary opposites, they are intrinsically linked to each other.

Nature is produced by society through practices, through linguistic and scientific meanings, but nature still has a biophysical and material basis with inherent physical processes (Escobar, 1999: 3; Görg, 2011: 417). In more illustrative terms, the social practices of smallholders, conservationists and logging companies transform the meanings of nature but at the same time they transform the biophysical materiality of nature. The biophysical materiality of nature is rather shaped by social practices and discourses than determined by its materiality. Thus, the very same nature, or more specifically a forest, can be experienced differently "[...] according to one's social position" (Escobar, 1999: 5). For a logging company a forest is primarily a source of timber. The semi-nomadic Batin Sembilan in the Harapan Rainforest might conceive the same forest as a fruit garden, whilst a frontier migrant might consider the forest as empty space for agricultural expansion. In contrast, a REDD+ project developer might conceive the very same forest as carbon storage and as a "production site" for forest carbon credits.

Linking social-spatial theory with conservation territories and property relations

A socio-spatial perspective on REDD+ provides a number of highly relevant insights, shedding light on the historical and social aspects of spatiality (Soja, 1996). It helps to investigate the formation of territorial units such as protected areas and the social construction of nested scales of governance, to question the crisis narratives that are used to legitimize green enclosures, and to think about how REDD+ – as a market-based conservation mechanism – reproduces existing patterns of uneven spatial development. Jessop and colleagues argue that "[...] socio-spatial theory is most powerful when it a) refers to historically specific geographies of social relations, and b) explores contextual and historical specific variations in the structural coupling, strategic coordination, and forms of interconnection among the different dimensions of the latter" (Jessop et al., 2008: 392).

The social production of conservation spaces

Protected areas are social spaces that Zimmerer (2000: 358) describes as "nature-society hybrids" containing second nature. "Environmental conservation makes both space and spatial scale" argues David M. Hughes (2005: 157). The implementation of protected areas redefines space, implies certain rules and designates boundaries, thus conservation implies the "making of territory" (Zimmerer, 2000: 358). In this book, space is considered as a social product. Based on post-modern and Marxist critical theorists, such as Henry Lefebvre and Edward W. Soja, I consider space and spatial units such as forested landscapes as socially produced (Lefebvre, 1976a; Lefebvre, 1991; Soja, 1980). Soja (1989: 79-80) explains that "space in itself may be primordially given, but the organization and meaning of space is a product of social translation, transformation and experience". The social space or created space, according to Soja (1980: 2010), is socially produced through transforming "[...] the given conditions inherent in life-on-earth". Lefebvre argues in the same direction. He claims that "space has been shaped and molded from historical and natural elements, but this has been a political process" (Lefebvre, 1976a: 31). For Zimmerer (2000) conservation areas "belong(s) fully to the production of nature and space in the transition to a late capitalist modernity" (ibid. 360). Hence, socially produced space reflects modes of production, political organization and ideology (Lefebvre, 1976a: 31; Soja, 1980: 210).

Protected areas, as an environmentalist spatial practice (Hughes, 2005: 157), contain space. By establishing new conservation areas and by implementing different zones for conservation and for "sustainable" resource use, conservationists fix non-human species and the human population in space. Protected areas are the spatial manifestation of what Garland (2008: 61) and Brockington and Scholfield (2011: 83) describe as the conservationists' mode of production which "[...] incorporates wildlife into the capitalist system". Conservationists

not only raise money for new protected areas, they also use space to produce a number of commodities such as scenic beauty, spectacular images of endangered flagship species, sites for ecotourism and – more recently – carbon credits. Garland (2008: 62) argues that "[...] as is the case for other kinds of natural resource exploitation, the relations of production involved in wildlife conservation depend greatly on the control over productive assets in question [...]", which in most cases is space.

In this sense, the social production of conservation spaces are dialectical processes. Space, political organization and relations of production mutually depend on each other (Soja, 1980: 211). Conservation spaces such as the Berbak Carbon Initiative are the outcome of social relations. And, at the same time, by imposing certain rules they structure and mediate social relations.

Scale

The concept of scale expands the socio-spatial theory of Lefebvre and Soja since it locates social practices not as fixed within space but rather as within dynamic socially produced scales (Brenner, 1998: 459, Wissen, 2008: 19). The starting point is the premise that scale is a socially produced hierarchical spatial element (Jessop et al., 2008: 393; Towers, 2000: 26). In contrast to the international relations and multi-level governance literature, I do not take the multiscalar and hierarchical organization of the state for granted (Bulkeley, 2005: 876). Hierarchical scalar structures of the state including territorial units and their institutionalized forms and levels of representation in Indonesia (e.g. provincial government, district government and village government) are the outcome of societal struggle and political negotiation (Brenner, 1998; Hein et al., 2018a; Houdret et al., 2014; Swyngedouw, 2010). They demarcate arenas of socio-political struggle and regulation. "Scales of regulation" (Towers, 2000), for instance, refer to spatial entities such as nested jurisdictions with a specific regulatory order (Hein et al., 2016). Actors might produce additional scales or shift political struggles to a specific scale of regulation or political forum to pursue their interests (Hein et al., 2018a; Smith, 2008: 232; Towers, 2000; von Benda-Beckmann, 1981).

Scale theorists and political ecologists share many theoretical and empirical concerns and have recently been increasingly engaged in an intense dialogue (Neumann, 2009: 398–400). Early political ecologists such as Blaikie and Brookfield (1987: 79) already highlighted the interconnectedness "[...] of political economic relationships at the local, regional and international scales which determine the actions of land-user [...]". Authors such as Erik Swyngedouw (2010), Karl Zimmerer (2000, 2006) and Alina Brad (2016), as well as Ulrich Brand and colleagues (Brand et al., 2011), have bridged both strands of literature drawing on the concept of scale to analyze the production and the societal relationships of specific natures (Neumann, 2009: 402).

Three aspects of the current academic discussion within human geography, political science and anthropology are relevant for understanding the different

agrarian conflicts in the context of REDD+ in Indonesia. First, scale theorists focus not on scale as such but seek to explain social processes that lead to the production of scale and the transformation of existing scalar arrangements. Neil Brenner, for instance, has conceptualized the role of the state in the production of scale (Brenner, 1997, 1998). Drawing on Lefebvre, he argues "[...] that the territorial state has played a crucial role in constructing a worldwide 'second nature' of socio-spatial configurations organized on multiple, overlapping spatial scales" (Brenner, 1997: 149). He further argues that globalization, as ongoing rescaling processes of the world economy, is associated with state interventions that support the expansion of capitalistic modes of production (Brenner, 2001: 594; Marston, 2000: 227). Brenner claims that the "geoeconomic project of neoliberalism" which goes hand in hand with processes of commodification has transformed the scalar organization and scales of "sociopolitical regulation" (Brenner, 2001: 594). State interventions facilitated privatization and scalar restructuring, which have territorial and tangible outcomes inscribed in landscapes (Marston, 2000: 221-227). Based on Brenner, I use the concept of scale in a process-based sense, focusing on the political processes (e.g. decentralization of forest governance or the construction of a new transnational scale of forest governance) which lead to the production of new scalar configurations and which alter existing scalar configurations and scalar hierarchies (Brenner, 2001: 600). In Indonesian forest landscapes, the so-called sector laws (e.g. Forest Law, see Chapter 3 for more detail) aimed to strengthen the control of the national government over natural resources and promote investment in natural resource exploitation by establishing a concession system. In particular, the Forest Law had far-reaching territorial consequences, challenging established modes of production (e.g. shifting cultivation practices conducted by customary communities) and scales of socio-political regulation (Elmhirst, 2001; Peluso et al., 2008; Pye, 2012; Rachman, 2011: 30-36; Towers, 2000). A new national concession system, for instance, can be considered as a new scale regulating access to land for the purpose of facilitating forest exploitation and agro-industrial estates. This new scalar structure restricts access for those actors that are not able to establish relationships with national authorities. Changes in the scalar structure might have tangible outcomes in landscapes, for example a transition from shifting cultivation to commercial large-scale oil palm plantation estates.

Second, the politics of scale literature seeks to explain dialectical relationships between structure and agency (Marston, 2000: 220; Towers, 2000: 26). Scales may also structure the livelihoods of actors (Wissen, 2008: 20). But actors may also actively change the configuration of existing scales and seek to produce new scales. Neil Smith (1992) stresses that human agency and social and cultural practices also contribute to scale production. He conceptualizes the politics of scale as the frictions and contestations within scales and between scales (Marston, 2000: 228; Smith, 1992: 64). Scale, as he understands it, "[...] both contains social activity, and at the same time provides an already partitioned geography within which social activity takes place" (Smith, 1992: 66). In

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Smith's reading of scale, social conflicts take place on more than one scale. Especially subaltern groups, marginalized at the local scale, might seek to "jump" (Smith, 2008: 232) to a more promising scale. Scale jumping, Smith argues, is used as a resistance strategy that might facilitate alliances between actors or that might provide access to resources or to political decision making at higher or lower scales. Successful actors are consequently those who are able to choose the appropriate scale of political struggle for achieving their interests, this might include the deconstruction of scales serving the interests of political opponents (Smith, 2008: 232). Active scale choices can be used in order to include or exclude actors from access to political resources, natural resources and land (Lebel et al., 2005: 1).

Third, scale theorists focus on the social and ecological consequences of scale construction or reconstruction. As a geographical construction scales divide socio-material natures (Swyngedouw, 2010: 12). Consequently, scales can be understood as particular spaces containing social processes and biophysical processes (ibid). For instance, the construction of a REDD+ project as a new scale of forest governance may enhance forest protection but may also exclude certain actors, e.g. shifting cultivators and logging companies, from participating in negotiation processes concerning access and control of the project area. George Towers (2000: 26), drawing especially on Soja, Lefebre and Brenner, extends the discussion and argues that "the social production of space invests the landscape with meaning and regulation [...]" dividing social and biophysical processes within "[...] landscapes into scales of meaning and regulation". Both scales are produced through social struggle and may overlap spatially and institutionally (ibid.). Forests in Jambi, for example, can be considered as one specific occurrence of "second nature". They have been transformed through specific modes of production entangled with modes of social-spatial organization. In pre-colonial times, the most relevant modes of production were shifting cultivation and the gathering of non-timber forest products. These practices transformed nature and produced (cultural) landscapes invested with distinct scales of meaning, e.g. community forests as hunting grounds, community forests as spaces for shifting cultivation, and community forests as sources of nontimber forest products. Dutch colonization introduced new scales of meaning constructing Jambi's forest as a source of colonial wealth and linking Jambi's forests with the colonial administration in Jakarta and the Dutch government in the Netherlands. Different conceptualizations of nature and landscape lead to competing scales of meaning. The specific outcomes, e.g. Jambi's forest as a source of colonial or of community wealth, might contradict each other, inducing social conflict. Conservationists may refer to the particularities of a specific landscape, e.g. a habitat of the endangered Sumatran tiger or the carbon storage capacity of peat swamp, and consequently construct a scalar narrative creating a new scale of meaning (Hein et al., 2016: 381; Kelly, 1997; Swyngedouw, 2010; Towers, 2000). In contrast, indigenous groups construct scales of meaning based on their ancestral lands that offer alternative boundaries to legitimize their presence in a landscape (Hein et al., 2016: 381).

Territory, property and authority

Territory, property and authority are three deeply entangled social relations. There is a vast literature on the three concepts (Hall, 2013; Paasi, 2003; Peluso and Lund, 2011; Sassen, 2008). I will use them in the following ways. I consider territory as a socio-spatial relation linking space (in most cases land) and identity (Jessop et al., 2008; Hall, 2013). However, in contrast to scale, I consider territory rather as a flat non-hierarchical concept. Property can be defined as a legitimate social relation to objects of value (MacPherson, 1978). I define authority as a "[...] a specific form of power exercised publicly and legitimated with reference to the state" (Lund, 2008: 7) or to pre-existing authorities, such as lineage leaders or feudals controlling imagined or historical territories. In the following paragraphs I will explain the three concepts in detail.

Following Ansii Paasi (2003: 110), I consider "[...] territories as a social process in which social space and social action are inseparable". Territory as scale is socially constructed (ibid. 110). Paasi has identified a number of crucial elements that "make" a territory: a "process of naming", the creation of symbols such as flags, physical or symbolic border demarcation, institutions (e.g. state, parastatal or indigenous authorities), and day-to-day social practices that reproduce and internalize territoriality (ibid.). Consequently, territorialization is a process that goes beyond the production of space. It involves rule making, claims and sanctions (Peluso and Lund, 2011: 673). The concept also extends beyond property, thus beyond claiming land. It clearly includes an emotional connection to land which is important to identity formation, and a political authority which governs not only access to land use but also other aspects of social life (Hall, 2013: 11). Territories can be considered as "power relations written on land" (Peluso and Lund, 2011: 673). Territorialization goes hand in hand with the making of boundaries. Boundaries are lines of in- and exclusion (Paasi, 2003: 113). They separate resources of value from economically, ecologically or culturally less relevant places. In the context of protected area formation, this often implies the exclusion of people from land and other income sources (Hall et al., 2011; Hein and Faust, 2014).

Property as territory is a contested concept in social science, heavily loaded with different ideologies, ongoing and century-old philosophical discussions on its meaning and its function, intrinsically linked to the constitution of social identity and often perceived as a fundamental legal basis of societies (Lund, 2008: 3; von Benda-Beckmann et al., 2009: 1–2). The understanding of property in Western societies is dominated by the argument that formalized private property is a fundamental requirement for the efficient use of (natural) resources and for "proper" market exchange (van Meijl and von Benda-Beckmann, 1999: 6). According to Indonesian state ideology, property should contribute to development, market exchange and welfare (von Benda-Beckmann and von Benda-Beckmann, 1999: 30). In contrast, according to many indigenous ideologies such as *adat*, property should support and balance the livelihoods of the community and those within it (ibid.).

For John Locke property is a transformative product that emerges out of combining labor and nature (Macpherson, 1978: 18). Locke argues that a contract between the state and individuals guarantees property (van Meijl and von Benda-Beckmann, 1999: 2). Property refers to access to or physical possession of material objects of value and the ability to benefit from these objects based on enforceable rights (Macpherson, 1978: 3). Property can only be considered as such if a legitimate public authority sanctions it, and vice versa. Consequently, property is clearly linked to authority and territory but also to different scales of governance regulating, legitimizing and defining property rights. A central element of public authority is legitimacy. An authority, for example a village head allocating rights to natural resources, can only be considered as such if villagers show a minimum of voluntary compliance with rules imposed by the village head (Alagappa, 1995: 23; Lund, 2008: 7; Sikor and Lund, 2010: 1). According to Muthiah Alagappa (1995: 14, 31), constituting elements of legitimacy are shared norms and values, including the belief in sanctity and traditions, law (procedural legitimacy), the ability to control territory and power. Local public authorities, such as village heads in Indonesia, draw on the notion of the state to achieve legitimacy. They gain legitimacy through using symbols and languages of the state and through referring to the legal system of the state (Lund, 2006: 687).

What members of society consider to be legitimate changes over time and is subject to historically contingent and continuous struggles about concepts and truths within society (Sikor and Lund, 2010: 6). Struggles over the constitution and legitimacy of public authority and the legitimacy of a specific scale of regulation have direct influence on the legitimacy of the property relations in place. National laws, regulations and policies structure access and property relations. Local public authorities follow especially those policies and laws that support their own interest (Lund, 2008: 4). National laws and policies are not necessarily fully implemented locally or fully obeyed by local public authorities and by the local population. But they often structure the agency of local actors (ibid.). The relevance of a specific national legislation in a local setting depends on the power structure in the political arena (ibid. 135). The result is "[...] neither coherent policy implementation nor complete disregard of law and policy" (ibid.). Accordingly, what is perceived as legal or illegal is not only the result of changing laws, it is the outcome of what powerful local actors consider as appropriate (ibid. 19). When legitimizing specific local activities, e.g. the issuance of a village-scale land title¹ or of a forest conversion permit, local public authorities might translate or transform fragments of national regulations and policies (e.g. land laws or land-titling policies) which correspond to their objectives into locally relevant rules (Kunz et al., 2016).

The legitimacy of public authorities in local politics is in many cases characterized by "[...] endless chains of reference to bigger authorities" (Lund, 2006: 693), and consequently has a direct scale component. Different public authorities entangled with different scales might compete over legitimizing property rights for the very same piece of land. To strengthen legitimacy, public authorities seek to gain additional recognition from other institutions (Lund, 2008: 2),

in many cases from institutions at higher scales of governance. Political scales are relevant as reference points for local public authorities. However, local public authorities actively produce and reproduce scales (e.g. village scale), as well as employ scalar strategies, such as scale jumping, to achieve their interests. Public authorities such as village heads, district heads, provincial governments and the national government stabilize scalar configurations through regular interaction with their citizens (and vice versa), for example by enforcing land claims (Lebel et al., 2005). They channel social interaction and stabilize the social production of space and scales (Towers, 2000: 26). Access to specific public authorities on higher or lower scales is an important factor in explaining socially differentiated abilities to benefit from resources (Leach et al., 1999: 233).

In particular, societies with plural land tenure systems have nested and plural legal authority arrangements (legal pluralism) with unequal ranges of validity and unequal abilities to enforce claims. Claims backed by high-level administrative authorities may have greater legitimacy than claims backed by a village official or vice versa (Sikor and Lund, 2010: 6f). In frontier regions, with their confusing and dynamic institutional landscapes, social identity is a key factor shaping the ability to access public authority and to benefit from resources (Hein and Faust, 2014: 23; Rhee, 2009: 53; Ribot and Peluso, 2003: 170). Ethnicity and kinship shape patron-client linkages and permit privileged access to state officials and, consequently, to formal or semi-formal processes facilitating resource access (Rhee, 2009; Ribot and Peluso, 2003). Ethnicity is context dependent (Wimmer, 2008: 977) and determines affiliation to groups with specific customary arrangements permitting resource access for their members. Classifications such as putra daerah (child of the region) or "first comers" and "late comers" serve as ethnic markers and as factors influencing access to natural resources and political power (Lund, 2008: 16; Rhee, 2009: 43).

A few notes on the transnationalization of the state and on market-led environmental governance

Recently, a number of scholars have started to strengthen political ecology by theorizing the state and its role in socio-ecological conflicts (e.g. Brad, 2016; Hein et al., 2018a; Ioris, 2014; Pichler, 2014, 2015). I argue that the state or, in broader terms, different "notions" of the state have an important role in agrarian conflicts, in the process of legitimizing property rights to land and in developing and enforcing environmental law. However, the state is not a homogeneous actor. Ulrich Brand and Christoph Görg (2003: 226), following the Marxist scholar Nicos Poulantzas (1978), conceptualize the state as a "[...] power-based social relation which creates, in the form of apparatuses, a materiality which by itself is full of conflicts and contradictions". For Poulantzas, the state consists of the different state apparatuses that "[...] organize the specific relations between the ruling classes" (Demirović, 2011: 43). State agencies on different scales, ministries and state administrations such as the forest service and the national land agency, represent the different functions of the state and the division of labor within the

state (Poulantzas, 1978: 155). However, different policies developed and implemented by these different apparatuses (such as land tenure regulations and environmental laws) are neither unitary nor coherent (Demirović, 2011: 44; Hein et al., 2018a: 4–5). Different apparatuses mediate between competing actors and reflect their competing interests. In consequence, they often develop contradictory state strategies. For example, the agricultural agency may push agricultural expansion while the forest agency is expanding protected areas. Ambiguous state strategies often induce environmental conflict and reflect contradictions and compromises among powerful groups in society (Demirović, 2011: 44; Hein et al., 2018a: 4–5). The state reflects "societal relationships" and is part of society. In this sense, "[. . .] the 'state' and '(civil)' society [are] formally separate, at the same time they form a contradictory unity" (Brand et al., 2008: 35).

Broader restructuring of global capitalism (Brand et al., 2011; Demirovic', 2011: 51, Robinson, 2001: 164; Wissen, 2011: 234) and the reorganization of political power in Indonesia have transformed the spatial organization of the state and societal relationships with nature (Aspinall, 2013: 37–39; Hadiz, 2001: 144–145; Hein et al., 2018a). For this book, two aspects of state transformation are relevant: first, the transnationalization of environmental governance and the formation of transnational state apparatuses; second, increased competition between states, in other words the formation of international and transnational competition states (Behrens and Janusch, 2012; Hirsch and Kannankulam, 2011: 26).

First, the "theory of a transnational state" considers the state as a heterogeneous multi-layered and multi-centered network of actors that consists of national actors, supra-national institutions such as UN agencies, the World Bank, IMF and ASEAN, and transnational lobby groups, such as environmental NGOs, private forest carbon standards and business associations (Demirović, 2011; Hein et al., 2018a; Robinson, 2001). Robinson (2001: 158) argues that "[...] economic globalization has its counterpart in transnational class formation and in the emergence of a transnational state that has been brought into existence to function as the collective authority for a global ruling class". In the realm of environmental governance, the mentioned actors that constitute the apparatuses of the transnational state have established a set of transnational and international rules that provide a framework for global market-oriented solutions to maintain economic growth in the context of multiple environmental crises (McAfee, 2012b: 26). Global market environmentalism, including mechanisms such as REDD+, require transnational and national state power (Pellizzoni, 2011: 796), new transnationalized authorities and the transnationalization of environmental regulation (Heyvaert, 2017) to operate. Especially climate governance has experienced a significant shift towards transnational network forms of governance where private actors (such as carbon brokers and carbon standards) are becoming increasingly relevant (Bulkeley and Newell, 2015; Chan et al., 2015, 2016). At the same time, the emergence of global peasant movements like La Via Campesina and the Asian Peasant Coalition have transnationalized resistance against neoliberal agrarian policies such as market-led land reforms (Borras, 2008) and market-based conservation instruments (Cabello and Gilbertson, 2012: 175; Hein and Faust, 2014: 23).

Second, in Indonesia and in other emerging economies, the interventionist development state has been transformed into the "national competition state" (Hirsch, 1995; Hirsch and Kannankulam, 2011) supporting the privatization, commercialization and transnationalization of natural resources (Pye, 2012: 202). In Indonesia, this transformation did not occur in a unidirectional fashion, reflecting tensions between protectionists and world-market-oriented actors (Ufen, 2002: 120). Andreas Ufen (2002: 124) has identified three phases of state transformation since Suharto came to power: first, a period of economic liberalization between 1965 and 1974; second, a period of petro-dollar-financed interventionist development policies between 1974 and 1983; and, third, again and still ongoing, a period of economic liberalization associated with deregulation, privatization, decentralization and market opening (ibid.).

National competition states are increasingly considering the opportunities of carbon, biodiversity and conservation markets and seek to provide perfect framework conditions for private investors, and for the interventions of transnational NGOs and international donors (Brand and Görg, 2003; While et al., 2010). Biodiversity offsets, genetic resources, privatized conservation and forest carbon offsets constitute the "ecological phase" of capitalism (Escobar, 1996: 326). They are becoming increasingly relevant to maintaining economic growth but also accessing climate finance (e.g. Green Climate Fund) and carbon trading instruments. In Indonesia, the first market-based conservation policies delegating protected area management to private actors emerged in the 2000s, permitting private conservation concessions and payment for ecosystem service projects. The first regulations permitting private actors to run REDD+ offsets were issued in 2008 (Hein, 2013b; Hein and Faust, 2014; Walsh et al., 2012a).

Based on the above-mentioned spatio-institutional transformations and on the work of Maureen G. Reed and Shannon Bruyneel (2010: 651), I derive three rescaling processes relevant in the context of REDD+ implementation in Indonesia:

- the up-scaling of state functions towards international and transnational state apparatuses (e.g. UNFCCC, FCPF);
- the down-scaling of state functions towards regional state apparatuses and local communities (e.g. local governments, community-based conservation projects);
- the scaling-out or delegating of state functions towards non-state actors (e.g. conservation companies running REDD+ projects, transnational carbon standards certifying forest carbon offsets).

Conceptualizing power and resistance

Power is considered as an important explanatory factor for differences in the abilities of actors to access land and property and to develop multi-scalar resistance strategies (Corbera and Brown, 2010; Koch et al., 2008; Nuijten, 2005; Ribot and Peluso, 2003; Rodriguez de Francisco and Boelens, 2014; Wynberg and Hauck, 2014). Different schools of thought have influenced political

ecology and the literature on the politics of scale. Post-war French Marxism, Gramsci's understanding of hegemony, post-structuralism based on Foucault and realism have been picked up and combined by different political ecologists and scale theorists (e.g. Bryant, 2001; Ekers et al., 2009; Forsyth, 2008; Mann, 2009). In this section, I will first take the notions of a number of great theorists as a point of reference for a brief review of the different power concepts used in the politics of scale literature and in political ecology. Thereafter, I will argue for a three-dimensional conceptualization of power based on the work of Steven Lukes (2005) and John Gaventa (Gaventa, 1982)

- For Michel Foucault (2006: 14–15), power is an ensemble of mechanisms and procedures, which is inherent in all social relationships. In his understanding, power is not attached to people, institutions, or class (Balan, 2010: 38; Ribot and Peluso, 2003: 156). Furthermore, Foucault links power intrinsically to knowledge and discourse (Gaventa, 2003).
- Antonio Gramsci uses the term *hegemony* for describing unjust power relations between different social actors. Hegemony, as the dominance of one group over another, is achieved through social relations of coercion and consent (Karriem, 2009: 317) and especially through "[...] active and moral and intellectual leadership" (Ekers and Loftus, 2008: 702).
- In post-war French Structural Marxism, power is defined as the ability of social groups (e.g. classes) to achieve their (class-specific) interests. Power, according to Nico Poulantzas (1978), is relational and not quantifiable. He argues that power emerges from a relational system of material positions that different social actors can hold (ibid. 136).
- In realism, power is conceptualized as the ability to achieve one's objectives (Keohane and Nye Jr, 1998: 86). The ability to achieve objectives is determined by the ability to control the necessary resources (e.g. financial resources, weapons, organizational strength) (ibid.).

Early scale theorists such as Smith (2008, 1992) argue explicitly that power asymmetries between specific actors, e.g. between classes, are inherent in capital—labor relations and are reflected in the socio-spatial organization, or – in other words – in the scalar structure. Many authors focus on the consequences of power asymmetries as explanations for scalar configurations. Most of the authors share the following arguments: scales are spatial manifestations of power, changing power relations may influence the scalar structure, and scale-power relations are dialectical (Meadowcroft, 2002; Swyngedouw, 2004; Zulu, 2009). Some authors frame power as a capacity and as based on material resources, e.g. as the ability of certain actors to accomplish certain activities (Allen, 2003: 97; Ekers and Loftus, 2008: 701; Swyngedouw, 2004: 17; Zulu, 2009). Lebel (2005) argues that powerful actors have the ability to influence social and political processes on different scales. Authors such as Swyngedouw and Zulu use rather critical realist framings of power and implicitly combine these with an understanding of power akin to Gramsci's concept of hegemony.²

Political ecologists argue that unequal power relations are an important explanatory factor for uneven access to natural resources, including access to land. (Blaikie, 2012; Bohle and Fünfgeld, 2007; Bryant, 1998; Forsyth, 2008; Rodriguez de Francisco and Boelens, 2014). Nevertheless, in many cases power is not explicitly conceptualized and understandings of power within political ecology have changed significantly over time. Early work, often referred to as first phase political ecology scholarship (Bryant, 1998; Forsyth, 2008), links structural Marxism with thoughts on the emergent environmental crisis (Forsyth, 2008: 758) and consequently draws on rather Marxist definitions of power (e.g. the ability of classes to achieve their class-specific interests).

The second and third phase of political ecology has various theoretical references. For some scholars, structural Marxism remained important while others increasingly shifted towards Foucault, Gramsci and others (e.g. Bryant, 1998; Ekers et al., 2009; Peet et al., 2011). A political ecology based on Gramsci inquires into, for instance, "[...] how hegemony is achieved through particular spaces and natures" (Ekers et al., 2009: 288). In the "Theory of Access", Jesse Ribot and Nancy Peluso define power in line with Foucault as "[...] embodied in and exercised through various mechanisms, processes and social relations — that affect people's ability to benefit from resources" (Ribot and Peluso, 2003: 154). In addition, they have a rather critical realist understanding and argue that "ability is akin to power". They cite Steven Lukes (1986: 3 cited in ibid. 155) arguing that power is defined "[...] as the capacity of some actors to affect the practices and ideas of others" (ibid.).

Three-dimensional power

This short literature review shows that different scale theorists and political ecologists have different understandings of power. Likewise, many scholars refer to power but do not explicitly conceptualize or analyze it empirically. However, I argue that political ecological research would benefit from more explicit engagement with power theories and from empirical analysis focusing on power asymmetries and their root causes. I believe that Steven Lukes' (2005) and John Gaventa's (1982, 2006) "three dimensional" view on power, as suggested by Jean Carlo Rodriguez de Francisco and Rutgerd Boelens (2014), provides a number of very useful "tools" to analyze power in its different forms.

Lukes (2005) and Gaventa (2006) distinguish three different types of power which have to be understood in relation to different socially produced political arenas and scales (Gaventa, 2006: 25; Rodriguez de Francisco and Boelens, 2014: 353). The three dimensions of power reflect complementary ways of thinking about power. They are also used at least implicitly in the politics of scale and explicitly in some of the political ecology literature (Ribot and Peluso, 2003; Rodriguez de Francisco and Boelens, 2014; Rodríguez de Francisco et al., 2013).

According to Gaventa (1982, 2006), visible power (the first dimension of power) refers to material resources, capacities, organizational strength and to

participation in decision-making processes, and is akin to realist understandings of power. Visible power "[...] may be understood primarily by looking at who prevails in bargaining over the resolution of key issues" (Gaventa, 1982: 14). In other words, visible power³ refers to the capacity of actor A to get actor B to do things that are against his own interest (Lukes, 2005: 16–17). Visible power includes economic resources, such as financial assets or land and political resources, e.g. the number of members of a political organization.

Hidden power (the second dimension of power) refers to the "rules of the game", e.g. according to Barach and Baratz (1970, cited in Gaventa, 1982: 14) to "[...] a set of predominant values, beliefs, rituals and institutional procedures that operate systematically and consistently to the benefits of certain persons and groups at the expense of others". Hidden power also refers to the ability of actors to set the community agenda and to exclude certain actors, and to mechanisms ensuring compliance with rules (Gaventa, 2006: 29; Lukes, 2005: 21). As Lukes (2005: 111) expresses it, hidden power refers to the "[...] power to decide what is decided".

Invisible power (the third dimension of power) is akin to Gramsci's concept of hegemony. However, hegemony for Lukes (2005) refers to unconscious and internalized domination and subordination and to active and coordinated strategies to achieve or to resist domination. Invisible power points to forms of power that "[. . .] prevent people, to whatever degree, from having grievances by shaping their perceptions, cognitions and preferences in such a way that they accept their role in the existing order of things, either because they can see or imagine no alternative to it, or because they see it as natural and unchangeable, or because they value it as divinely ordained and beneficial" (Lukes, 2005: 28). Invisible power importantly shapes how marginalized social actors perceive and accept the dominant social production of nature and space (Gaventa, 1982: 16–19).

Gaventa (2006: 25) argues that Lukes' three power dimensions are interrelated sets of dynamic relationships rather than static categories which operate across scales and spaces. Gaventa acknowledges that power and space are intrinsically linked. Powerful actors or successful resistance movements have to apply different forms of power across spaces and scales to maintain their interests or to change existing power relations significantly.

In order to identify power empirically (Table 2.1), and especially to identify the role power has for the ability of different actors to access land and property, this study builds on and extends a methodology developed by Gaventa (1982: 20–32). Visible power can be identified by investigating: the organizational strength of a specific organization (e.g. members), the material resources (e.g. land, financial resources), who prevails in formal decision-making and who holds formal or customary functions (e.g. village head, hamlet head, customary leader) (ibid.). Hidden power can be identified by investigating: non-involvement in decision-making (e.g. by investigating alternative developments facilitated by power-shifts), resistance activities (e.g. land occupations), communication and the socialization of subordinate actors (e.g. language used by

2, 2006) and Lukes (
ıs (based on Gaventa (1982
different power dimensions
Table 2.1 Overview of

Criteria for identifying different types of power	
Explanation	
Туре оf рошег	

Visible Power	(Political) resources, organizational	Asset base, e.g. land; financial resources, social capital, e.g. membership in groups;
(first dimension)	strength, who participates and	participation in formal decision-making bodies, e.g. village meetings; the holding
	prevails in decision-making, the	of a formal or customary function, e.g. Kepala Desa, Kepala Dusun, Ketua Adat.
		•

Involvement and non-involvement in decision making, communication and power to affect others directly.

Construction of meanings, myths, specific actors by rule making, agenda setting, exclusion of mechanism of compliance, coercion and exclusion. Rules of the game, values, Invisible Power Hidden Power dimension) (second

(non-decision making), ethnicity and social identity, existing state and customary

socialization of subordinate actors, identification of mechanisms of exclusion

regulations and the extent to which they privilege specific actors over others, Based on interpretation, e.g. what would be of interest for a certain actor, scales of meanings constructed for legitimizing benefits for elites, internalization of

altered rules of the game.

language, moral and intellectual

(third dimension)

leadership.

subordination, acceptance of authority relations, internalization of development

and backwardness narratives of the New Order era, privatization and

commodification of land and conservation.

g. land; financial resources, social capital, e.g. membership in groups;

subordinate actors), and the historical development of specific legal orders (e.g. established by force in the context of colonization) (ibid). The identification of invisible power is mainly based on interpretation, as Gaventa argues (1982: 29), considering, for instance, what would have been of interest to an actor in a specific situation. Furthermore, the identification of beliefs of inferiority by actors and the explicit acceptance (e.g. through statements) of a certain legal order that acts against their interest might further support the identification of invisible power (ibid. 31).

Resistance and three-dimensional power

Caouette and Turner (2009b: 9) argue that "[...] conceptualizations of resistance are situated within understandings of power; power being comprised of the relational interplay of dominance and subordination". Gaventa (1982: 23) has pointed out that resistance or, as he puts it, "[...] rebellion may develop if there is a shift in the power relationships – either owing to loss in the power of A or gain in the power of B". Peasant resistance occurs in open and rather collective forms or in hidden and rather individual forms (Chin and Mittelman, 1997; Turner and Caouette, 2009). Both forms are spatial and territorial practices (especially in the case of land conflicts), challenging the power constellations in place but also the pre-existing scalar structure and pre-existing scales of meaning and regulation (Moore, 1998; Turner and Caouette, 2009; Towers, 2000). Hidden and open forms of resistance have to be understood in relation to the conceptualization of power introduced above and should be treated as different categories in social science, to be specific as dynamic, interrelated and overlapping.

Hidden resistance, in James C. Scott words "every day peasant resistance" or "infrapolitics", comprises relatively safe and silent practices (Chin and Mittelman, 1997: 31; Scott, 1989: 34). "Every day peasant resistance" is characterized by resisting without openly contesting the existing political order. It is rather negotiated in the informal sphere, e.g. household or community, and does not openly challenge hegemony (Chin and Mittelman, 1997: 31). Peasants prefer relatively safe resistance strategies to avoid open conflict with actors that are more powerful (Scott, 1989: 34–35). Scott (1989: 35) and Turner and Caouette (2009: 11) argue that when power constellations change, individual and hidden peasant resistance can turn into larger resistance activities, e.g. silent encroachment on plantations or protected areas can develop into larger organized and open land occupations.

Power constellations change, argues Gaventa (1982), when subordinates, or in his words "the powerless", are able to challenge all three dimensions of power (ibid. 24). To develop material resources (visible power), the powerless have to defeat invisible and hidden power (ibid.). To overcome invisible power, the powerless have to develop an understanding of their subordinate role in society. Moreover, they need to develop strategies for changing the existing political circumstances and intrinsically linked power constellations (ibid. 21). Strategies and the development of political objectives and issues of concern allow

political mobilization, thus overcoming hidden power. In many cases, powerless actors employ clandestine strategies, such as ignorance, smuggling, sabotage, or silent encroachment on state forest land (Gaventa et al., 2011; Scott, 1989: 34). The various strategies might then allow the development of visible power and engagement in open resistance (Gaventa, 1982: 21–24). Peasant groups such as Serikat Petani Indonesia (SPI) have developed the means to employ open resistance strategies, e.g. larger-scale occupation of state forest land and demonstrations (see Chapters 3 and 5 for more detail).

Resistance as a spatial strategy might also involve "scale jumping". The term *scale jumping* has been picked up by many authors for describing attempts to shift the political struggle of actors that are marginalized at a specific scale to higher or lower scales⁴ (Hein and Faust, 2014: 24; Smith, 2008: 232; Zulu, 2009: 687). Gaventa (2006: 31) argues that contemporary resistance movements need to build up strategic alliances with actors operating on different political scales to be successful. Scale jumping, in other words the spatial expansion of protest to higher scales, has been facilitated by the transnationalization of governance and growing interrelations between formerly separate national policy fields (Caouette and Turner, 2009a; Smith, 2008; Swyngedouw, 2000).

Key arguments

Beyond understanding the root causes of the agrarian conflicts challenging REDD+ implementation, this book aims to advance our conceptual and theoretical understanding of emerging agrarian conflicts in the context of transnational conservation interventions. It aims to contribute to a "political ecology of transnational agrarian conflicts in the context of REDD+".

The different elements of the framework help to investigate differing but interrelated empirical phenomena. Political scales, for example, demarcate arenas of political contest (Smith, 1992: 66). In line with Swyngedouw (2010), I assume that questions of access to natural resources (including land) can be explained by analyzing the socio-spatial configurations of scales. I argue that rescaling processes in the course of state transformations (e.g. colonization, nationalization, decentralization) structure the abilities of different social actors to access property rights. Thus, I consider scales as arenas of political struggle which are not fixed and which are linked through actor networks and scale-jumping strategies (Bulkeley, 2005; Flitner and Görg, 2008; Swyngedouw, 2010). Social conflicts could change the scalar configuration (e.g. deconstruct pre-existing scales, widen existing scales or construct additional scales) and the material and biophysical content of a specific scale. Powerful groups are able to actively choose or alter the scale of regulation to achieve specific interests. Subaltern groups seek to jump to higher or lower scales or to establish networks across scales to achieve their interests (Perreault, 2003: 65; Zulu, 2009: 695). Thus, scale and rescaling reflect the dialectical relationship between structure and agency. They structure and contain space and social practices within space and they are the outcome of social practices (Smith, 1992: 60).

The work of Towers (2000) provides the opportunity to analyze the social construction of scales of meaning and scales of regulation separately. This is of specific importance in the context of REDD+ and conservation debates where different scales of meaning such as carbon forests or customary forest overlap with local, national and transnational scales of regulation (Flitner and Görg, 2008; Lebel et al., 2005). Brenner stresses the central role of the state in producing hierarchical scalar structures (Brenner, 1997, 2001). Political scales in this sense also constitute and are the result of the division of labor among different apparatuses of the state. I argue that public authorities (such as the village head, the forest service and district government) and private actors (such as forest carbon standards) seek to control their respective scales of regulation. By legitimizing the property rights of peasants and companies, or by issuing a carbon credit, they regularly engage with their citizens and customers and construct and maintain a specific scale of regulation in the first place.

Public authorities have the ability to exercise power publicly. They often build on symbols and the legal texts of the state (Lund, 2008: 7). In order to establish legitimacy, in many cases public authorities refer to authorities at higher ends of the scalar hierarchy (Lund, 2006: 693) or seek to scale back (Reed and Bruyneel, 2010: 651) by making reference to past authorities and interrelated political scales (e.g. imagined lineage chiefs). The legitimacy of a public authority and of a specific scale of regulation is a matter of degree (e.g. continuum between strong and weak) and changes over time while new public authorities emerge. As in other countries, in Indonesia different public authorities, in other words different apparatuses of the state, might act in contradictory ways and thus might not reflect the will of apparently dominant groups in society. Scales of regulation constructed by public authorities and stabilized by interactions with citizens, e.g. through issuing land titles, might overlap or compete.

Especially in the context of rapid scalar restructuring (e.g. decentralization) scales of regulation may overlap leading to competing access and property relations. The transformation of the Indonesian state (the transformation from the colonial state, to the development state of the Suharto era, and to the competition state of the *Reformasi* era) has also changed the socio-spatial configuration of Indonesia's forest and land tenure governance significantly. In this context, Indonesia's forest apparatus has promoted foreign direct investment and the commodification of natural resources, land and very recently of ecosystem services (Nevins and Peluso, 2008).

Conservation territories, such as the Berbak Carbon Initiative or the Harapan Rainforest, and interrelated socio-ecological scales contain social and physical processes. Social conflict and changing power relations have an impact on the structure, content and spatial extent of conservation territories (Swyngedouw, 2010). The successful protest of an environmental movement might lead to an expansion of the borders of the Berbak Carbon Initiative changing the characteristics and meanings of the ecosystem and of the social relations contained by the project area. The expansion of the project may restrict specific land use

practices, thus changing land use practices and social positions within the ecosystem of actors. However, the very same ecosystem – or in other words, the very same space – might be experienced differently depending on the social position of an actor (Escobar, 1999: 5). As outlined above, for some actors a forest is an empty space "ready" for agricultural expansion whereas a REDD+ project developer might consider the same space as a site for the production of forest carbon credits.

Lastly but equally importantly, I argue that the ability to change scales of meaning and regulation and consequently the ability to access land and property is linked to the question of power. Social actors that are willing to change access and property relations have to make use of different forms of power across spaces and scales (Gaventa, 2006). Social actors have to rely on resources (visible power), have to have the capability to change formal and informal regulations (change the rules of the game, hidden power) and have to influence the "organizing ideology" (invisible power) (Alagappa, 1995).

Multi-sited qualitative research

After outlining the conceptual framework, one question remains: How to investigate the political ecologies of REDD+ empirically? REDD+, and indeed most of the other relevant themes of this book such as property rights, forest governance and agrarian resistance, are negotiated and regulated on various political scales, e.g. at the village scale by the village head, by the district head or (in the case of forest land) by the Ministry of Forestry in Jakarta, or (in the case of REDD+) at UNFCCC conferences and in the headquarters of donor agencies. Consequently, the empirical research for this book was "multi-sited" and inspired by "deterritorialized" (Merry, 2000: 130) and "multi-sited ethnography" (Marcus, 1995: 80). Multi-sited ethnography was first outlined by Marcus (1995) as a response to "empirical changes" (ibid. 80) in an increasingly globalized world. He argued, referring to Immanuel Wallenstein's world system theory, that research which is "embedded in a world system [...] cannot be [...] focused on a single site of intensive investigation" (ibid. 79f). In multi-sited fieldwork the so-called "global" is not external to the field of investigation, the global is rather part of the relationships constituting the field of research (ibid. 86). Multi-sited fieldwork is process-based and "[. . .] emerges from putting questions to an emergent object of study whose contours, sites and relationships are not known beforehand" (ibid. 86).

Multi-sited research, according to Marcus and Merry, should trace the networks of interaction between actors across field sites. This provides the opportunity to analyze peasants' resistance across scales and to investigate the attempts of actors to alter the scalar configuration or to identify scales that actors preferably use for political struggle. Multi-sited ethnography follows the "translators and intermediaries" (Merry, 2000: 131). Translators and intermediaries are those actors that travel between field sites and link the different sites of social struggle and empirical investigation; this can include village heads, community

representatives and members of NGOs (ibid.). Researchers conducting multisited research have different options to guide their investigations. Marcus (1995: 90–94) proposes following people, things (e.g. commodity chains), metaphors, plots, stories, lives or conflicts. This book seeks to follow conflicts.

Doing multi-sited fieldwork and selecting the main sites of investigation

The main sites of empirical investigation of this book are the Harapan Rainforest (Hutan Harapan/Forest of Hope) and the Berbak Carbon Initiative on the island of Sumatra, Indonesia (Figure 2.1). In addition, the book is based on qualitative research conducted along the lines of different networks of interaction linked to project implementation and resistance across field sites, namely the provincial capital of Jambi, the national capital Jakarta, the city of Bogor as an important hub for academia and conservation NGOs, UNFCCC climate change conferences, and the headquarters of donor agencies in Germany. Field trips to the project sites were conducted in 2012, 2013 and 2016. At the various field sites, the author has conducted (in Indonesia with the support of an Indonesian field assistant) semi-structured and open interviews, focus-group discussions and participatory observations. In addition to the different types of qualitative interviews as a primary empirical source, analysis focused on various types of documents such as Indonesian land and forest policies and laws, political strategies, NGO reports and scientific literature on REDD+ and land-use conflicts.

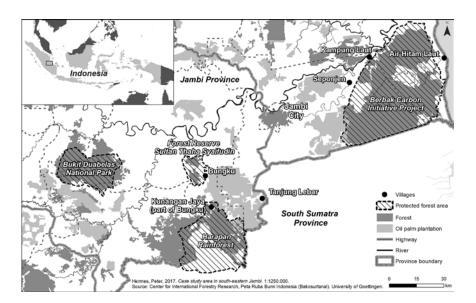


Figure 2.1 Map of Jambi and main sites of empirical investigation

Empirical research for this book was embedded in two research projects, namely the collaborative research center on "Ecological and Socio-economic Functions of Tropical Lowland Rainforest Transformation Systems" (CRC 990) in Jambi led by the University of Göttingen, and the research and advisory project on "Climate Change and Development" at the German Development Institute in Bonn. In addition to these institution-related reasons for doing research in Jambi, the province is of particular interest because Jambi became an Indonesian REDD+ pilot province in 2013, because of the engagement of the German International Climate Initiative (IKI), and because of land conflicts taking place within or at the margins of the REDD+ pilot projects and conservation initiatives.

When selecting the research villages within or adjacent to the two REDD+ projects, I built on the "follow the conflict" premise developed by Marcus (1995). Furthermore, sites with conflictive access and property relations, e.g. competing property rights systems, were preferred over other potential sites. With the support of researchers from the University of Jambi and the Agricultural University of Bogor and based on interviews with NGOs (mainly with environmental NGOs, environmental justice groups and peasant organizations), the staff of donor agencies and with village heads, I identified five research villages (Table 2.2) located within and adjacent to the REDD+ projects. Each village has its own specific conflict history, e.g. with oil palm plantation companies as well as a shared history of conflicts related to broader rescaling processes such as colonization and decentralization. Within the villages, I have focused in particular on conflicts that are affected or caused by the implementation of protected areas and REDD+ pilot projects.

Additional field sites are the transnational, national and local nodes of REDD+, land and forest governance. Nodes of the transnational REDD+ governance include, for instance, the ministries and governmental institutions involved in REDD+ and located in Bonn, Jakarta and Jambi City, UNFCCC conferences and the headquarters of environmental organizations (head office of Burung Indonesia in Bogor), peasant movements (e.g. SPI head office in Jakarta) and donor agencies (e.g. offices in Jakarta and Germany) (von Benda-Beckmann,

Table 2.2	Research	villages, REDD-	+ and conservation	projects

REDD+ conservation project	Research village	District
Harapan Rainforest	Bungku (including the hamlets of Kunangan Jaya I and II)	Batang Hari
	Tanjung Lebar (including the hamlets of Tanjung Mandiri and Pangkalan Ranjau)	Muaro Jambi
Berbak Carbon Initiative	Air Hitam Laut	Tanjung Jabung Timur
	Seponjen Kampung Laut	Muaro Jambi Muaro Jambi

von Benda-Beckmann and Griffiths, 2005; Bulkeley, 2005; Flitner and Görg, 2008; Merry, 2000). These different locations are linked through decision-making processes and resistance strategies. They are part of competing and contradictive scales of meaning and regulation. Following von Benda-Beckmann and colleagues (2005: 9), I tried to follow "[...] the chains of interaction connecting transnational, national and local actors in multi-sited arenas of negotiation along with power relations that structure these interactions and are reproduced or changed by them".

The two REDD+ project sites and the various case-study villages

The area of the **Harapan Rainforest** project has 98,555 ha and is officially located in the district of Batang Hari and Sarolangun and in the neighboring province of South Sumatra (Figure 2.1). The north-eastern parts of the project area are claimed by the district of Muaro Jambi, but according to the maps of the Ministry of Forestry they are part of the Batang Hari district. The conservation company PT REKI runs the Harapan Rainforest project. The company is owned by a transnational NGO consortium consisting of



Figure 2.2 Picture of road sign of Bungku village and border signs of the Sultan Thaha Syaifudin Forest reserve

(Source: taken by the author, 2013)

Birdlife International, the Royal Society for the Protection of Birds (RSPB) and Burung Indonesia and has received funding from, among others, the German International Climate Initiative (IKI), the Danish Ministry of Foreign Affairs (DANIDA), the European Commission and Singapore Airlines (further information in Chapter 4). The project is implemented in an ecosystem restoration concession. As case–studies, I selected the villages of Bungku and Tanjung Lebar adjacent to the Harapan Rainforest according to the "follow the conflict" premise (Table 2.2).

The village of Bungku is located in the district of Batang Hari and in the sub-district of Bajubang north of the Harapan Rainforest project and south of the Sultan Thaha Syaifudin Forest Reserve. The village arose from a resettlement scheme for local Batin Sembilan groups in 1972 (Faust et al., 2013: 9; Hein, 2013b: 15). However, a number of pre-existent settlements in the area prove that the area has been populated since pre-colonial times (Zainuddin, 2013: 6). The village has approximately 10,215 inhabitants and a village territory of 77,000 ha (Faust et al., 2013). Land use in Bungku is dominated by oil palm and rubber cultivation. Shifting cultivation is still practiced by some households but is becoming less relevant. In any case, most of Bungku's village territory is either designated as state forest (e.g. part of the Harapan Rainforest project or of the Sultan Thaha Syaifudin Forest reserve) or is part of large plantation concessions.

The village of Tanjung Lebar is located in the district of Muaro Jambi and in the sub-district of Bahar Selatan. The center of the village is located north-east of the Harapan Rainforest concession. The village officially has 2876 inhabitants; the population is probably much larger, since official village data only exists for the hamlets located outside of the Harapan Rainforest (Polsek Sungai Bahar, 2011). The autochthon population of the village consists of Batin Sembilan, Melayu Jambi and Melayu Palembang. Tanjung Lebar dates back to the pre-colonial era. The official village territory has an area of 6500 ha, but again this figure does not include the area within the Harapan Rainforest claimed by the village. The village territory is fragmented, consisting of different dispersed and unconnected hamlets located between transmigration settlements and corporate oil palm plantations.

The **Berbak Carbon Initiative** is located in coastal Jambi, south of the Batanghari River delta and northeast of the provincial capital (Figure 2.1). It has a project area of 250,000 ha. The landscape is dominated by tidal peat swamps that are partly degraded because of settlement formation, the construction of drainage channels, forest conversion and almost annual peat fires (Claridge, 1994; Giesen, 2004; Hein et al., 2018a). The Berbak Carbon Initiative is listed as a REDD+ demonstration project by the Indonesian REDD+ agency (further information in Chapter 4). The project is a collaborative initiative by the Zoological Society of London (ZSL), the Jambi-based NGO Gita Buana, the Berbak National Park Agency and the Provincial Forest Service (Dinas Kehutanan Provinsi Jambi). Here I focused my investigations on the villages of Air Hitam Laut, Kampung Laut⁵ and Seponjen (Table 2.2).

The village of Air Hitam Laut is part of the sub-district of Sadu and located in the district of Tanjung Jabung Timur. The village is located directly on the coast of the South China Sea, at the mouth of the river Air Hitam. The village territory has a size of 4320 ha (Alamsyah, 2004: 27). In 2012 the village had a population of 2328 inhabitants, according to the village secretary. Seventy-five percent of the population is Bugis and originally from South Sulawesi (ibid. 9). Land use is dominated by coconut plantations. Oil palm has been introduced recently. Air Hitam Laut was founded by Bugi seafarers from the Luwu district in South Sulawesi in 1965. Conflicts between the local population and the various forest authorities have been ongoing since the 1970s. 6

The village of Kampung Laut is located in the district of Muaro Jambi. The village is located on the south-eastern riverbank of the tidally influenced lower course of the Batang Hari River. The village had 1573 inhabitants in 2012 and has a village territory of 12,000 ha. Melayu Jambi people are the dominant ethnic group. Oil palm, wet rice, rubber, cocoa and vegetables are the important crops. Fishing, swallow breeding and logging are other significant livelihood strategies. According to interviews with the village elders, the village was founded in pre-colonial times. In 2008, the Transmigration Agency of Muaro Jambi started to construct a transmigration settlement within the forest reserve, inducing land conflicts between various state apparatuses. Kampung Laut is one of the pilot sites for a community reforestation scheme which is part of the community benefit package of the Barbak Carbon Initiative.

The village of Seponjen was founded in 1931 by the Melayu Jambi people (Kepala Desa Seponjen, 2013: 6). Seponjen is part of the sub-district of Kumpeh and belongs to the district of Muaro Jambi. Seponjen is located on both sides of the tidally influenced Sungai Kumpeh River, which is an arm of the Batang Hari River. Seponjen has a village territory of 16,000 ha and a population of 1315 people (ibid. 8). Wet rice and oil palm are grown in the flood-prone lower parts of Seponjen. On the higher lands rubber, cocoa, langsat⁸ and durian⁹ are cultivated. Since 1999, parts of the village territory have been designated as forest reserve. Seponjen is also one of the pilot sites for a community reforestation scheme which is part of the Berbak Carbon Initiative's community benefit package. The village is impacted by a number of land conflicts involving oil palm companies and the state forest agency.

Reflection, limitations and challenges

As Kim V. L. England stated, fieldwork is "[. . .] a dialogical process in which the research situation is structured by both the researcher and the person being researched" (England, 1994: 84). Multi-sited approaches also pose a number of challenges. Researchers using a multi-sited approach have to consider that positionality and power constellations (e.g. between researcher and participants) change across research sites. The researcher must be aware of the fact that his identity is constantly negotiated, affecting his ability to access relevant knowledge. Furthermore, the researcher must ensure that the questions he might ask

have to be formulated in ways understandable for actors living in the different social fields under investigation. In the case of this piece of research, the different lingual contexts have posed an additional challenge. Interviews with German donor agencies and ministries were held in German, interviews at UNFCCC conferences and some of the expert interviews in Jakarta were held in English, and all other interviews (in Jambi city and in the research villages) were held in Bahasa Indonesia with the support of an Indonesian field assistant. Moreover, multi-sited research is probably not able to investigate the full complexity of local processes, since time at each location is much more limited than in single-sited research.

Research on conflicts, on illegal or semi-legal land occupations, and competing property right regimes creates a number of additional challenges as the researcher might be perceived as threatening the activities of the participants, as being part of the opponent conflict party or as a threat to the status quo (England, 1994: 85). The conservation company PT REKI and the Royal Society for the Protection of Birds (RSPB) as one of PT REKI's shareholders, for instance, argued from the very beginning that any research on land tenure would be impossible within the project area. A staff member of the RSPB argued that research in the conflictive areas of the Harapan Rainforest would exacerbate the conflict. Furthermore, he argued that conducting interviews would not be possible, adding that settlers' responses would give the impression of stronger tenure than was de jure the case (Manager of Royal Society for the Protection of Birds, 2012). The RSPB manager not only tried to hinder research, but he even directly questioned the validity of the statements that the settlers would make. PT REKI staff based within the project area argued similarly and only permitted research with communities that agreed to cooperate with the conservation company. Research in the conflict areas of Bungku and Tanjung Lebar was only possible because of permits and invitations from the relevant village governments, the settler groups and peasant organizations. Despite the permits from the village governments, the fact that PT REKI did not permit research in the conflict areas influenced my behavior at the field sites. Without an official permit from PT REKI, I felt unsafe, as someone acting "illegally", and tried to limit overnight stays in PT REKI's project area.

In the Berbak area the situation was different. The implementing agencies of the Berbak Carbon Initiative, such as the Provincial Forest Agency, the Berbak National Park Agency, ZSL and the sub-contracted NGO Gita Buana, supported my research project from the very beginning. The context of my fieldwork was consequently fundamentally different in the two areas, affecting my positionality in the field situations. In the Harapan landscape, my research was welcomed by village governments and informal settlers and rather rejected by the conservation company PT REKI. The informal settlers perceived my research as supportive for their concerns, especially those who were aware that the Harapan Rainforest project received funding from the German government. Settlers hoped that a German researcher would convey their concerns to the decision makers in Germany, and thus supported my fieldwork. In the

Berbak area, implementing agencies hoped that research from an "independent" third party might help them to solve ongoing conflicts.

In all of the villages, the village heads felt obliged to support my activities because of my formal letter of request from the University of Jambi. All the village governments supported my fieldwork, and most facilitated accommodation and access to interview partners. This formal support from the political elite of the villages facilitated my research but may have hindered my ability to cover marginalized actors within the political arena of my research villages. I encountered similar problems in the settlements controlled by the peasant movement SPI. SPI supported my trips to the settlement and all actors at the field site perceived me as an SPI guest. This probably discouraged local opponents of SPI from voicing criticism in interviews.

Additional challenges and limitations to my research are directly linked to my positionality and to power imbalances that structured interviews and fieldwork. As a researcher from Europe, I was highly visible in all field situations and attracted attention. As part of the "developed world" I was often asked about how trade-offs between development and conservation are solved in the "West", why Germany is supporting a conservation project in their region, or why forests in Jambi should be conserved to reduce Germany's greenhouse gas emissions. Questions of identity, of positionality and of being external to the community came up almost every day and were part of the field experience. The fact that a person from Europe was doing research in their village in Jambi made some villagers proud but also caused some individuals to be awestruck or afraid in interview situations and face-to-face communication. Furthermore, with my being a guest of the village government, some interview partners may have felt obliged to participate and to respond to questions despite having misgivings about discussing semi-legal land use or land access practices to outsiders. A general weakness of this study is that, as a male researcher, access to female household members and interview partners was difficult; therefore, only a few women participated in my interviews.

The next chapter is devoted to the politics of scale of Indonesia's forest and land tenure governance. It outlines the dynamic context of implementing REDD+ on the island of Sumatra and explains how customary authorities and village governments supported by peasant migrants successfully challenged the integrity of Indonesia's state forest.

Notes

- 1 Village heads in the various case-study villages issue documents used as land titles, but officially only the National Land Agency (Badan Pertanahan Nasional, BPN) has the authority to issue land titles (see Chapter 3 for more details on de jure and de facto land-titling procedures).
- 2 In their case studies, they show how different actors reshape the politics of scale of the Spanish waterscape and of community forest management in Malawi to consolidate legitimacy (Swyngedouw 2010, Zulu 2009).

- 3 Visible power is also akin to Max Weber's definition of power. Weber argues that men have power if they are able to achieve their objective against the will of others (Weber 1993: 20).
- 4 Keebet von Benda-Beckman (1981) developed the concept of "forum shopping" to explain the attempts of actors to choose between different conflict mediation institutions; she argues that their selection is based on the hope that the institution might support their
- 5 Because of ethical considerations, I use a fictitious name of this village.
- 6 Interview with key informants in Air Hitam Laut, 28.09.2012, 30.09.2012, and with staff member of ZSL in Air Hitam Laut, 29.09.2012.
- 7 Interview with staff member of the sub-district administration (Kecamatan) of Kumpeh, in Sua Kandis, 02.09.2013.
- 8 Lansium parasiticum
- 9 Durio zibethinus

3 Rescaling of the governance of forests and land in Indonesia

The main assumption guiding this chapter is that broader rescaling processes in the course of state transformation – e.g. colonization, de-colonization, democratization and decentralization – changed the abilities of different actor groups to access land and property. Moreover, I argue that scaling back, in other words understanding historical scalar arrangements and associated land and forest tenure regulations, is a precondition for understanding land conflicts in REDD+ target areas (Eilenberg, 2015; Galudra et al. 2014; 2011; Howson and Kindon 2015; Mc Gregor 2010). The chapter shows that REDD+ and conservation initiatives are not implemented in a social and political vacuum. Land conflicts in the context of REDD+ implementation are embedded in historically contingent social and political dynamics.

In this chapter, I primarily investigate the dynamic context of REDD+ implementation in Indonesia, namely processes of state transformation, territorialization, intertwined reforms of forest and land tenure governance at different scales, agricultural expansion in the state forest territory, and a highly complex de facto land tenure regime. The different political regimes mentioned above facilitated the construction of specific scales of meaning and regulation. Some of them outlived the historical conditions that led to their construction. They are still inscribed in the landscape. Others have been deconstructed and replaced over time.

The chapter starts with a description of the pre-colonial and colonial forest and land tenure governance. It explains de jure land and forest tenure and subsequently scales down and investigates local histories of land governance, de facto land tenure and the attempts of sub-national governments, local authorities and indigenous groups to regain access to the state forest territory in the landscapes that later became part of the Harapan Rainforest and the Berbak Carbon Initiative in Jambi.

The history of Indonesia's forest and land tenure governance

Forest and land governance in Indonesia can be broadly divided into a precolonial phase, a colonial phase, a transitional phase of early independence, an autocratic and development-oriented phase (New Order) and a contemporary phase characterized by decentralization, democratization and (neo-) liberalization.

Each of the phases has its specific socio-spatial structure, was driven by different larger state projects and was influenced by broader narratives on how to use, manage and govern forest and land resources (Galudra and Sirait, 2009). The different phases had no abrupt end; some elements of each phase were persistent and influenced the subsequent phase. Indonesia's dualistic land governance system based on forest and agricultural laws, for example, has been inherited from the colonial period (Brockhaus et al., 2012: 32).

Indonesia as a nation-state was founded in the context of the colonial liberation war. No pre-colonial Indonesian nation state existed and consequently there was no pre-colonial archipelago-wide forest and land tenure governance. There is, however, no doubt that the various pre-colonial Sultanates and customary communities had rules for land and forest use in place. The next section discusses some of those known for Jambi and briefly introduces Jambi's pre-colonial history.

Jambi's pre-colonial history

In pre-colonial times, Jambi was one of a number of Sultanates on the island of Sumatra. Jambi's location close to the Strait of Malacca and the natural resources in its rich hinterland provided the basis for Jambi's ascent and its early involvement in international trade (Guillaud, 1994: 114). In the 18th century, Jambi was one of the most prosperous trade ports on Sumatra (Guillaud, 1994: 114; Locher-Scholten, 2004: 39). Forest products such as beeswax, resin, gum, rattan and timber were collected in the hinterlands and transported via the Batang Hari River and the Strait of Malacca to the outside world (Locher-Scholten, 2004: 37).

In 1852, Jambi had approximately 60,000 inhabitants (ibid. 36). In contrast to other Sumatran Sultanates, the population of the Sultanate of Jambi was relatively heterogeneous. The Malay population lived mainly on the banks of the Batang Hari River. The semi-nomadic Orang Laut lived along the coast (Locher-Scholten, 2004: 48). Jambi's hinterland was home to different nomadic and semi-nomadic ethnic groups. The Orang Rimba lived in the Bukit Duabelas Region. Batin¹ and Kubu² tribes settled on the upper courses of the main rivers and in the borderlands between Jambi and Palembang along the Batang Hari and Musi River tributaries (Andaya, 2008: 205; Locher-Scholten, 2004: 37; Steinebach, 2013a: 126).

Elisabeth Locher-Scholten (2004: 45) describes the pre-colonial Malay state of Jambi (the Sultanate) as a state without "[. . .] precise borders or a powerful central authority, their central government had no monopoly on the use of force, their rulers had no well-defined constitutional powers, and there was not a trace of popular sovereignty". The pre-colonial Sultanate had nothing in common with modern Western states, the "[. . .] ruler was more fluid in terms

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of territory and structure, and sacral and symbolic in nature" (ibid. 45). Successful ruling was a result of balancing earth and divine and was indicated through wealth and prosperity. In formal terms the Sultan was the highest authority of the state but he ceded most of his tasks to the *pangeran ratu*, 3 to ministers and to a council of nobles (ibid.).

Jambi's Sultanate had no uniform administrative structure such as characterizes modern Western states. Jambi's administration reflected its heterogeneous population (Locher-Scholten, 2004: 48–49). In general, the Sultanate was divided into different jurisdictions called *Kalbu*. Each *Kalbu* consisted of a number of settlements called *dusuns* (hamlets) (Hidayat, 2012: 29). The Sultan had only direct authority over the Malay population, who had no tax obligations but were responsible for law and order and for the security of the Sultan. The Batin had to pay taxes and were responsible for border protection but were relatively independent of the Sultanate. The Batin had their own leaders ruling over their hamlets and over the surrounding forests (ibid.). Orang Laut and the Kubu lived within the borders of the Sultanate but were not under the authority of the Sultan (ibid.).

Colonial forest and land tenure governance

Colonial forms of forest and land tenure governance in Indonesia date back to the activities of the Dutch East Indian Company (VOC, Vereenigde Oost-Indische Compagnie) in the 17th century (Galudra and Sirait, 2009: 525). The activities of the VOC were mainly limited to timber extraction (ibid.). The first colonial regulations were enacted for the island of Java in 1808 (Nurjaya, 2005: 38). This first regulation defined any not privately owned forest areas as state domain, established a colonial forest service accountable to the Colonial General Governor, and stated that the timber demand of the colonial government should be prioritized. Furthermore, the regulation stipulated logging permits for local communities (ibid.). Early colonial forest policies were aimed at facilitating forest extraction (Galudra and Sirait, 2009: 525). During the mid-19th century, colonial forest policies shifted towards conserving forests and maintaining associated environmental services such as water provision (ibid.).

Based on the belief that forests are the main determinant for the hydrological balance of watersheds, colonial forest authorities argued that forest protection was of colonial interest (Barr et al., 2006: 19; Galudra and Sirait, 2009: 525). The main argument of foresters at the time was that forests act as sponges that are able to assure water provision for irrigation agriculture during the dry season. According to the dominant scientific discourse of the 19th century, deforestation – especially in the upper parts of watersheds – would significantly reduce water availability in adjacent low lands (Galudra and Sirait, 2009: 525). The argument that deforestation would disturb the hydrological balance was used to legitimize the first resettlements, to legitimize the exclusion of local communities from forests and to legitimize the prohibition of shifting cultivation (Galudra and Sirait, 2009: 530; Metzner, 1981: 47). Watershed protection was

constructed as a new colonial scale of meaning and regulation restricting access to land and forest resources to safeguard colonial interests.

Colonial forest policy was further developed during the mid-19th century. The first colonial forest law (Boschordonatie) for the islands of Java and Madura was issued in 1865. At the same time, the colonial government introduced a formalized concession system to facilitate forest exploitation (Nurjaya, 2005: 40). In 1870, the domein verklaring4 declared that all vacant lands on Java and Maduro belong to the colonial state. In addition, the colonial forest agency initiated initial forest zoning activities (ibid.). In the same year, the colonial government enacted a second law, the Agrarische Wet. The Agrarische Wet aimed to regulate land ownership and promote private investment. It introduced a Western concept of private property, provided a framework for renting out land to private agricultural estate companies, and again declared all unused land to be the property of the colonial state (Gamin et al., 2014: 55; Nurjava, 2005: 38; Szczepanski, 2002: 235). Agrarische Wet and Boschordonatie established a dualistic legal structure for land declared as forests and for land prescribed for agriculture which continued in post-colonial Indonesia and which is still reflected in contemporary Indonesian forest and agrarian laws (Indrarto et al., 2012: 36).

Colonial authority over land and forests on the outer islands⁵ (e.g. Sumatra, Sulawesi) remained limited until the end of the 19th century. Colonial rule on the outer islands was mainly based on indirect rule and self-governance (Barr, 2006: 19). Dutch colonial authorities negotiated contracts with local Sultanates which forced them to accept the sovereignty of the colonial government and facilitated access to resources for Dutch and European companies (Locher-Scholten, 1994: 95; 1996: 140-141). Forests remained under the authority of the Sultanates, of allied elites and local communities. At the end of the 19th century, Dutch colonial policy shifted from indirect rule to attempts to fully subject the outer islands, especially Sumatra (Locher-Scholten, 1996: 142). In several military operations, the Dutch started to expand direct control and conquered most of Sumatra at the beginning of the 20th century (Locher-Scholten, 1996: 95). The first agrarian regulation, the Agrarische Reglement, was enacted to clarify land use and forest management in Jambi and other parts of Sumatra. The legislation provided the legal basis for dividing forests into three categories: permanent forests, forest reserves and forests for the extraction of non-timber and timber forest products (Nurjaya, 2005: 42).

In 1927, the colonial government enacted a new forest law that strengthened the role of the colonial forest service (Galudra and Sirait, 2009: 530). Since this time, the colonial forest service and its post-colonial successors (e.g. Ministry of Forestry, (MoF)) have had the authority to designate land as state forest and to control the use of forest resources (Galudra and Sirait, 2009: 530). Furthermore, forest zoning and the designation of the forest domain was expanded towards Sumatra and other islands (ibid.). However, the colonial authorities lacked the capacities to spatially extend the forest management approaches developed for the colonial core areas to the vast forest areas of Sumatra, Borneo and Papua.

With some exceptions, zoning and forest management on Sumatra existed mainly on paper. Various types of customary law $(adat)^6$ remained the most relevant legal order governing access to forest and agricultural land (Nurjaya, 2005: 42). However, in some areas of Jambi (and beyond), the colonial land and forest authorities induced significant changes, altering pre-existing customary arrangements. For instance, the colonial authorities established protected areas that still exist today. The *Wildreservaat* Berbak (today the Berbak National Park and Berbak Carbon Initiative) was established in 1935, while north of the present-day Bungku village a protected area (today the forest reserve TAHURA Sultan Thaha Syaifuddin) was established in 1933 (Pemerintah Kabupaten Batang Hari, 2010: 8).

In addition, colonial administrative reforms challenged pre-existing administrative structures and customary forms of regulating access and property. In 1903, after the Dutch conquest, the former independent Sultanate of Jambi became part of the Residence of Palembang (today South Sumatra) (Locher-Scholten, 2004: 239). Later, Jambi became an independent Residence but the former jurisdictional division of the territory of the former Sultanate into Kalbus was replaced by the administrative system used in Palembang (Guillaud, 1994). From 1919 onwards, the Residence of Jambi received a hierarchical territorial structure divided into Onderafdeeling (departments), Margas (subdistricts) and dusuns (hamlets/villages). Margas consisted of five to six villages and were governed by the Pasirah. The Pasirah was usually a member of the leading lineage in the area and received the authority to legitimate property rights for the non-European population (Galudra et al., 2014: 723; Sevin and Benoît, 1993: 97). The Pasirah outlived the colonial regime and remained a relevant authority in property issues in Jambi at least until the New Order regime enacted its village law in 1979. The first land titles issued by the Pasirah and the Dutch colonial authorities are still used as a source of legitimacy for stakeholders in land conflicts. The Dutch not only changed the territorial structure, they also introduced rubber and started oil drilling close to the present-day Bungku village. Rubber became one of the most important agricultural commodities of the province during the 20th century.

The development of a colonial forest and land tenure policy on the island of Sumatra at the end of the 19th century had territorial and scalar consequences. Colonial forest authorities established a colonial scale of forest regulation that challenged pre-existing rules for accessing forest resources. Forest zoning, monitoring activities and border demarcations underpinned the territorial claims and the new scale of regulation. Moreover, the colonial forest authorities constructed watershed protection and even climate protection (Galudra and Sirait, 2009: 529) as scales of meaning for legitimizing colonial forest claims. In the Residence of Jambi, the colonial administration introduced a new scale of land tenure regulation and established the *Pasirah* as a new public authority responsible for allocating land to Indonesian citizens (Guillaud, 1994: 125; Sevin and Benoît, 1993: 97).

The early post-colonial period

Indonesian independence induced no abrupt changes in forest and land tenure governance. The Indonesian forest service (Jawatan Kehutanan) started activities on Sumatra⁷ in 1947 (Barr, 2006: 19; Nurjaya, 2005: 45). The structure and political orientation of the service was heavily influenced by its colonial precursor (Barr, 2006: 19). At least until the 1950s, most of the colonial forest regulations remained valid (Nurjaya, 2005: 46).

In 1957, Government Regulation 64/57 handed far-reaching forest management competencies to provincial governments and provided significant timber revenues for provincial governments (Barr, 2006: 21; Nurjaya, 2005: 46). Christopher Barr (2006: 20) argues that the new regulation represented a political commitment by the government of Indonesia's first president Soekarno to the provincial governments in order to maintain the integrity of the newly independent state. The regulation permitted provinces to issue logging concessions of up to 10,000 ha for up to 20 years. Furthermore, the regulation guaranteed the independence of the provincial forest services (ibid.). The regulation induced the down-scaling of forest management competencies but failed to clearly define the forest estate on the outer islands (ibid. 21). Consequently, the co-existence of customary law and formal law continued for at least the first two decades of independent Indonesia (ibid.).

In 1960, the Basic Agrarian Law (Undang-Undang Pokok Agraria) was passed. The BAL still applies (at least for non-forest land) and is highly relevant for understanding contemporary land conflicts and especially agrarian reform movements such as the Indonesian Peasant Union (Serikat Petani Indonesia (SPI)) (Rachman, 2011). The law aimed to harmonize customary law (adat) and formal law and replace colonial laws and regulations such as the Agrarische Wet (Bachriadi and Wiradi, 2011: 2; Bakker and Moniaga, 2010: 188). The Basic Agrarian Law (BAL) was designed as a holistic law encompassing all natural resources of land, water and air, thus including forest land (Bachriadi and Wiradi, 2011: 1; Presiden Republik Indonesia, 1960b).

The BAL clearly reflects the socialist-oriented zeitgeist of the President Soekarno era. The law stresses the social function of land rights (Article 6), prohibits "excessive ownership" of land (Article 7), postulates the redistribution of land (Article 17 (3)), limits exploitation rights to 35 years (Article 29), guarantees equal opportunities in obtaining land rights (Article 9 (2)) and regulates different types of private property (Articles 16, 20) (Presiden Republik Indonesia, 1960b). The BAL recognizes customary rights (adat) as long as they do not contradict the interests of the state (Article 2 (4)), but it does not provide clear regulation on how to solve conflicts between adat and formal state law (Barr, 2006: 21). Furthermore, to register and certify rights based on adat, the adat rights have to be transformed into one of the private property concepts stated in Article 16 (Bakker, 2008: 3). However, according to a study conducted by the University of Palangkaraya and cited by Sandra Moniaga (1993: 139), most

of the indigenous communities at the forest margins had no knowledge of the law, were not informed about the necessity to formalize their *adat*-based land claims, and consequently do not hold registered land titles (ibid.).

Broadly speaking, there are today two common lines of criticism of the BAL (Bachriadi and Wiradi, 2011: 4). The first line of criticism argues that the law is dysfunctional because of the lack of implementing regulations, and that it has been used in ways that were not intended by the authors. The second argues that the law has actually increased inequality, since it expands state control and has therefore been used to legitimatize the dispossession of local communities (Bachriadi and Wiradi, 2011: 4).

On the one hand, the wording of the law indicates a strong commitment to policies that promote social and agrarian justice (Bachriadi and Wiradi, 2011: 2). In an interview, one of the leading experts on the Indonesian agrarian movement argued that the law has "[...] an inclusive spirit, was socially balanced and gender sensitive and an attempt to abolish large land holdings". 8 The redistribution of land (e.g. land reform) as stipulated by the law was not implemented except for small-scale pilot schemes on Java (Rachman, 2011: 40). On the other hand, the law privileges Western forms of private property over community property, aims to transform collective rights based on adat to individual property rights, and strengthens the right of the state to control land (Bachriadi and Wiradi, 2011: 2-3; Bakker and Moniaga, 2010: 188). The New Order regime limited the applicability of the BAL to non-forest land (Barr, 2006: 23). Therefore, today the BAL is relatively weak in legal terms but is still used by NGOs, social and environmental justice movements, and peasant organizations to underpin political campaigns for a more equal distribution of agrarian resources (Bakker and Moniaga, 2010: 88; Hein and Faust, 2014: 25; Rachman, 2011: 54). For example, members of SPI refer to the BAL to legitimize land occupations within the Harapan Rainforest project (see Chapter 5 for more detail).9

The BAL can also be understood as an attempt to construct a new national scale for governing natural resources and as an attempt to deconstruct pre-existing colonial scales. For instance, Craig C. Thorburn (2004: 36) stresses that the authors of the BAL "[...] envisioned an entire national community guided by an overarching sense of social function. The state, as the ultimate arbiter of 'national adat', was in effect granted beschikkingsrecht [rights of disposal, translation added by the author] to all the land, sea and natural and economic resources in the country". The post-colonial state sought to legitimize the BAL as a new national scale of regulation by constructing a complementary scale of meaning based on nationalism and on the key role of land for achieving welfare and social justice in rural areas.

New Order

The New Order regime refers to the period under former President Suharto. The autocratic and modernization-oriented regime changed forest and agrarian politics significantly (Bachriadi and Wiradi, 2011: 6). The regime established and

stabilized political control over the outer islands, liberalized forest exploitation, standardized and Javanized village administration, expanded the transmigration program and stopped the land redistribution policies initiated by Soekarno (Bachriadi and Wiradi, 2011; Barr, 2006; Kato, 1989; Levang and Sevin, 1990). These political processes changed scales of meaning and regulation (e.g. centralization of forest governance), induced far-reaching landscape transformation processes (e.g. the island of Sumatra lost 25–30 percent of its forest cover, Barr, 2006: 28) and significantly altered the ability of local actors to access forest land.

In 1967, President Suharto enacted the Basic Forest Law. According to Barr (2006: 23), the law provides the first comprehensive legal and administrative framework for managing Indonesia's forest estate. Through the enactment of the Basic Forest Law, Suharto's regime reestablished the dualistic structure of the colonial system – with two separate laws, one regulating forest management and access to the state forest and one regulating access and property outside of the state forest. First, the law defines state forest (Kawasan Hutan) as a forested territory or a non-forested territory designated for reforestation (Article 4). It gives the Directorate General of Forestry within the Ministry of Agriculture (later upgraded to the Ministry of Forestry (MoF)) the authority to designate approximately 70 percent of Indonesia's land mass as state forest (Article 7) (Presiden Republik Indonesia, 1967). Second, the law delegates authority to conduct forest zoning to the Directorate General of Forestry and introduces four different forest categories: production forest, recreation forest, forest reserve and nature conservation forest. Third, the law provides the legal framework for commercial forest exploitation and for the economic liberalization of forest management (Hak Pengusahaan Hutan, HPH) (Article 14). Fourth, the law states that customary forest is part of the state forest and that the activities of customary (adat) communities that contradict the law (e.g. shifting cultivation) are prohibited (Article 17). Furthermore, only the still existing adat communities have rights to the forest, with the important addition that the state decides which community is eligible and which is not. Consequently, many local and indigenous communities, including those living within the forests that became the Harapan Rainforest and the Berbak Carbon Initiative more than 50 years later, lost at least de jure access to their customary land.

Forest management during the New Order era aimed to achieve at least three major objectives. First, revenues from forest exploitation were necessary in order to stabilize the state and its various apparatuses (Barr, 2006: 23). This was mainly achieved by establishing clientelistic networks creating mutual dependencies of actors of the civil and military bureaucracy from the central government down to the village level (Barr, 2006: 24; Barr, 1998: 4). Second, revenues from forest exploitation were necessary to stabilize the state budget and enhance the trade balance. Third, forest resources were used to attract foreign investments (Barr, 2006: 27).

In the 1970s, the central government established full control over Indonesia's forest resources and allocation procedures for all types of forest concessions. The central government revoked any rights of the sub-national governments

to issue forest exploitation permits (Barr, 2006: 25) and started to allocate concessions to timber companies. The first logging concessions in the area of today's Harapan Rainforest project (e.g. PT Asialog¹⁰ and PT Tanjung ASA)¹¹ date back to this period. Through up-scaling the permit procedures for all concession types, the central government sought to prevent sub-national elites and their patronage networks from accessing forest resources and to facilitate access to forest resources for the Jakarta-based elite (Barr, 2006: 25–26). Upscaling finally consolidated Jakarta's attempts to control the forest resources of the outer islands.

Javanizing the outer islands: village law and transmigration

After the central government consolidated control over the forests, another major state project was initiated: Javanizing the outer islands. The Village Law of 1979 (*Undang-Undang tentang Pemerintahan Desa 5/1979*) aimed to homogenize the administrative structure of the archipelago, and the transmigration program was set to promote modernization and development and export Javanese culture to the outer islands (Burkard, 2002: 5; Kato, 1989: 91–94; Warren, 1990: 1–2).

The Village Law was intended to replace the pre-existing structures that were based on colonial concepts or customary law (adat) by imposing the Javanese village (Desa) concept (ibid.). Indonesia's local governance and administrative structure remained highly diverse until the end of the 1970s. As the lowest administrative unit, villages had different names, meanings and sizes and were led by local leaders with different names, sources of legitimacy, and responsibilities concerning the customary regulation of land and forest tenure (Kato, 1989: 91). This diversity was also acknowledged by Indonesia's constitution of 1945 (Kato, 1989: 114). In Jambi, for example, the colonial system of village administration remained relevant until the enactment of the Village Law in 1979 (Galudra et al., 2014: 723).

The new Javanized village concept introduced a new hierarchical socio-spatial organization that undermined previous forms of socio-spatial organization. According to the law, the village (desa) as a jurisdiction should be led by a village head (Kepala Desa) as the executive body and by a village council (Lembaga Musyawarah Desa) as the legislative body of the village government. The Village Law stipulated the sub-division of the village territory into hamlets (dusuns) led by a Kepala Dusun. Hamlets are further divided into different neighborhood units¹² (Rukun Tetangga) led by the Ketua RT (Bebbington et al., 2004: 192; Kato, 1989: 94; Warren, 1990: 3).

Through standardizing and formalizing village government and village administration, the Village Law undermined the traditional customary authorities and the traditional income sources of villages (Kato, 1989: 105). The village territory was imposed as a new scale of regulation contradicting previous scales of regulation, such as the *Wilayah Adat*¹³ (customary land) of the Batin Sembilan in Jambi. New village boundaries disrupted previous forms of the Batin Sembilan's socio-spatial organization, which were based on lineages and watersheds.

Furthermore, the Village Law decoupled traditional local leaders from their material basis of power and authority (Bebbington et al., 2004: 193). Their previous sources of power, in Steven Lukes' words their sources of visible power, were based on the right to allocate land and fishing rights and to collect rubber taxes (Galudra et al., 2014: 725; Kato, 1989: 108). In the Berbak area, for instance, land was controlled by the *Pasirah* of the *Marga* of Berbak until the early 1980s. ¹⁴ Today, the village head is de facto in charge of land allocation and drainage permits. ¹⁵ Galudra and colleagues (2014) identified similar developments in other parts of Jambi.

The aim of the Village Law was not only to standardize scales of regulation. The law was also part of a set of policies aiming to establish national modernization and development as new scales of meaning to replace previous scales of meaning based on local *adat* (e.g. customary authority and locally relevant cultural meanings of landscapes and territories). The New Order regime regarded village diversity and non-Javanese forms of socio-spatial organization as potential threats for development and as signs of underdevelopment (Bebbington et al., 2004: 192; Hoey, 2003: 112; Kato, 1989: 93). As the lowest administrative unit, village governments were to act in line with national development targets. At the same time, they were the lowest part of the national surveillance and control network of the New Order regime (Kato, 1989: 107–113). However, the New Order regime was not fully able to defeat customary authority. Many village governments were not fully operational and in many peripheral villages *adat* and traditional public authorities remained influential, rapidly regaining importance during the *Reformasi*¹⁶ era (Bebbington et al., 2004: 193).

Whereas the Village Law focused on Javanizing the administrative structure, the transmigration program focused on Javanizing the population, land use practices and property relations. Transmigration is a government-led resettlement program and rural development initiative. The program received significant financial support from the World Bank (Kebschull, 1986: 152–153).¹⁷ In many parts of the Archipelago, the transmigration program contributed significantly to the expansion of a Western and individualized concept of property, of cash crops, of wet rice production and of a modern bureaucracy (Armitage, 2002: 211; Cramb et al., 2009; Kebschull, 1986; 37; Li, 2005: 14–15; Roth, 2009: 202).

Transmigration dates back to the colonial period. The *Kolonosatie* program resettled Javanese farmers mainly to Lampung but also to Jambi (Levang and Sevin, 1990: 1,3). The official rational of the transmigration program and of its colonial precursor was to reduce population pressure and land scarcity on Java and Maduro and to redistribute the population to the sparsely populated outer islands (ibid.). Resettlement was also driven by the imagination of the superiority of Javanese and Balinese culture and land use practices (Fearnside, 1997: 559; Levang and Sevin, 1990: 4). Javanese and Balinese transmigrants were framed as model farmers that would persuade "backward" slash-and-burn farmers of the outer islands to use more modern land use techniques (ibid.).

The transmigration program had its peak in the 1980s. By 1989, five million people had been resettled to the outer islands (Fearnside, 1997: 554). Numbers

declined in the 1990s but remained substantial (e.g. 90,762 families in 1996–1997) (Potter, 2012: 272). In the *Reformasi* period, the relevance of the project declined significantly (e.g. 2265 families in 2000) (Potter, 2012: 272). Authority over the program was transferred to district governments. Today, potential sending districts and receiving districts directly negotiate with each other (Potter, 2012: 273) and candidates can select between different destinations using an online platform (Dinas Tenaga Kerja dan Transmigrasi Sumatera Barat, 2015; Hein et al., 2018a).

The transmigration program allocated between 1.75 ha and 3.5 ha land to each household for crop production, including official land titles issued by the National Land Agency (*Badan Pertanahan Nasional*, BPN) (The World Bank, 1979: 33, 73). In addition, the transmigration authorities provided a 0.25 ha house lot, seeds and start-up funding (Fearnside, 1997: 555). In Jambi, the first post-colonial projects were developed in the peat swamps of the Batang Hari delta, north-east of today's Berbak Carbon Initiative (Levang and Sevin, 1990: 6). The projects induced enormous landscape transformation processes caused by drainage and land reclamation activities. Additional projects were developed in Jambi's hinterland, for instance in the Sungai Bahar area north of the Harapan Rainforest project.

In many parts of Indonesia, the transmigration settlements overlapped with the customary land used by local communities. In Jambi, transmigration and local resettlement schemes very likely contributed to the transformation of lineage-based property concepts to individualistic and commodified property (c.f. Hauser-Schäublin and Steinebach, 2014; Krishna et al., 2014). A member of the village parliament in Tanjung Lebar, for instance, stated: "In the times before the transmigration project was implemented we did not use land titles in the village [...]". ¹⁸

The transmigration program was also used as inspiration and as a source of legitimacy for settlement and forest conversion initiatives by village and district governments that violated the Forest Law and re-claimed former customary land within the state forest territory. The name of an informal settlement within Harapan Rainforest, Transswakarsa Mandiri, makes direct reference to a sub-program of the state-based formal transmigration program. Within the Berbak Carbon Initiative at least two new district-to-district transmigration settlements were recently established, causing conflicts among different state agencies and settlers (see Chapter 5 for more detail). 19

Reformasi and post-reformasi: rescaling through democratization and decentralization

On 21 May 1998, President Suharto announced his resignation after two years of student protests calling for democracy, and after ethnic violence and sharp economic decline (Hofman and Kaiser, 2002: 3). His successors President Habibie, President Wahid and President Megawati implemented far-reaching democratic reforms and decentralization processes that significantly transformed

Indonesia's political landscape. Indonesia's "big bang decentralization" was neither a controlled nor a planned process (Hofman and Kaiser, 2002). The first decentralization laws and regulations, e.g. Law 22/1999 on Regional Governance, were formulated in an over-hastily way, reflecting the weak power base of the central state during the political transition period after the fall of Suharto (Barr et al., 2006: 2; Hofman and Kaiser, 2002: 3). Decentralization and regional autonomy and new revenue-sharing arrangements among the central government, provincial and district governments did not follow a stringent plan but were rather an ad hoc response to separatist tendencies, with the aim of maintaining the integrity of the nation state (McCarthy, 2007: 96).

Regional governments including village heads and customary leaders took advantage of the confusion and the political vacuum caused by the weak central state. They interpreted reforms to their advantage and started to assert farreaching administrative authority over forests, land tenure and natural resources (Barr et al., 2006: 2; Hein et al., 2016). On the local level, decentralization increased competition between different actors over the new profit options. In some regions of the archipelago (e.g. Central Sulawesi and the Maluku Islands) violent conflicts about access and control of natural resources and political power emerged along ethnic and religious lines (Acciaioli, 2001: 87; Rhee, 2009: 46). Ethnicity and customary law reemerged as means of controlling land and natural resources (Barr et al., 2006: 12; Moeliono and Dermawan, 2006: 109; Rhee, 2009: 109). The reemergence of ethnicity and customary law are highly relevant for understanding contemporary conflicts about access and property in Jambi and other parts of Indonesia (Beckert et al., 2014; Hein and Faust, 2014; Hein et al., 2016; Steinebach, 2013b).

Reforms of forest, land and village governance induced a wide range of changes. However, in many cases and especially in the forest sector, the reforms only temporarily shifted de jure competencies. Most relevant competencies remained on the national level. However, the changed political context extended the agency of local public authorities including village governments, customary communities and agrarian reform movements (Barr et al., 2006: 11; Moeliono and Dermawan, 2006: 109; Peluso et al., 2008: 388). Whereas de jure authority over the state forest only temporarily shifted, especially the district governments benefitted substantially from new forest revenue–sharing arrangements. Districts in which forest concessions are located now receive a four times higher share of the concession license fee and receive 40 percent of the reforestation fund (Resosudarmo et al., 2006: 61, 67).²⁰

Decentralization of the forest sector was initiated through the enactment of Regulation 62/1998 on the Delegation of Partial Authority on the Forest Sector to Regions and Regulation 6/1999 on Regional Governance (Resosudarmo et al., 2006: 88). These two regulations and a couple of subsequent decrees issued by the MoF permitted district governments to issue small-scale logging and forest conversion concessions in areas designated as conversion and production forest (Resosudarmo et al., 2006: 99; Indrarto et al., 2012: 27). Further legitimacy was provided through Law 22/1999 on Regional Governance.

The law delegated authority over various governance functions, such as health, education, agriculture, environmental protection and (to some extent) over agricultural land, to district governments (Barr et al., 2006: 11; Indrarto et al., 2012: 27).

In Jambi, district governments issued Community Timber Extraction Permits (*Ijin Pemungutan Kayu Rakyat*, *IPKR*) within production and conversion forest, inducing a short logging boom on forest land that became part of the Berbak Carbon Initiative after 2008. In 2002, the central government withdrew the authority to issue small-scale logging and forest conversion concessions from district governments after lobbying by the Association of Indonesian Forest Concession holders, and reestablished full authority over the state forest estate (Resosudarmo et al., 2006: 90). With Regulation 34/2002, the central government abrogated small-scale logging but gave provincial and district governments at least the opportunity to provide recommendations during the permit process for forest concessions (Indrarto et al., 2012: 28; McCarthy et al., 2006: 45; Resosudarmo et al., 2006: 90, 104). These seesaw changes of competencies led to uncertainty and confusion, providing room for monetary and political rent-seeking behavior among actors (Moeliono and Dermawan, 2006: 106; and for similar practices in sub-Saharan Africa, please refer to Lund, 2008: 152).

Today, some district governments continue to issue small-scale forest conversion permits, according to an MoF expert in Jakarta. During the interview, the expert explained: "[...] the authority was given to the local government actually with a hope to speed up the process, but the problem then the issued licenses were not used for timber but mostly for estate crop plantations. That's why the decision has been revoked, but they continue to release the license but mostly not for small-scale timber [...] the local government mostly related to the issuance for oil palm plantation, small scale although this is not legal". ²¹

Forest Law 41/1999 mostly resumes the forest policy of the New Order era, e.g. the law declares that customary forests are part of the state forest and allows access to forests only for formally recognized *adat* communities (Bedner and Van Huis, 2008: 184). However, for instance in its Article 68 on community participation, the law goes beyond New Order policies and provides room for implementing regulations on village forestry (*hutan desa*, Ministerial Regulation 49/2008), community forestry (*hutan kemasyarakatan*, Ministerial Regulation 37/2007) and smallholder forestry (*hutan tanaman rakyat*, Ministerial Regulation 55/2011).

On the one hand, district and provincial governments have de jure only few management competencies today, e.g. management of forest reserves (*Tanaman Hutan Raya* also known as TAHURA) and conservation forests (*Hutan Lindung*) and they have neither the authority to issue concessions nor to decide on forest classification and designation. On the other hand, they have gained significant influence outside the forest sector. This includes spatial planning, environmental impact assessments and the lucrative approval of agricultural plantation and mining permits on non-forest land (Indrarto et al., 2012: 31; Paoli et al., 2013: 27–28).

Like the forest sector reforms, the reform of village administration was characterized by seesaw changes. Law 22/1999 on Regional Governance no longer describes villages as the lowest administrative unit but as "autonomous units", recognizing local customary law and regional characteristics (Moeliono and Dermawan, 2006: 115). Only a few years later, the revised decentralization law of 2004 and the regulation on village government (Government Regulation 76/2001) again stipulated that villages across the archipelago should have a uniform structure (ibid.). Despite this drawback, the reforms have democratized village governments. Village heads and village parliaments (*Badan Permusyawaratan Desa*, BPD) are elected for six years for a maximum of two terms. BPDs and village heads can enact village regulations, prepare village development plans and must be involved in spatial planning processes conducted by higher authorities (Bedner and Van Huis, 2008: 174).

The new laws and regulations have not changed the spatial organization of village governance. Villages are still sub-divided into hamlets and neighborhoods. Although the reforms provided more room for self-determination for village governments, they offer no de jure control over forest resources within the state forest. In any case, de facto former village heads in Bungku and Tanjung Lebar have exercised authority over state forest since the fall of Suharto. Village heads in both villages legitimize their control over the state forest (e.g. demonstrated through the issuance of village-scale land titles and the support of forest conversion and settlement within the state forest) with reference to pre-existing customary territories. These activities are at least partially backed by the older Governmental Regulation 24/1997 on land registration (Article 24) issued under the Suharto Presidency. This regulation gives village heads a formal role in registering *adat* land rights and other rights based on oral history (Nurhaniah, 2006: 74; Presiden Republik Indonesia, 1997).

Access to different types of de jure land and forest rights

Indonesia's forest and land tenure regime is complex and governed through a wide set of laws and regulations (Brockhaus et al., 2012: 32). I have introduced the most relevant ones, e.g. the Forest Law 41/1999 and the Basic Agrarian Law 5/1960. These laws and regulations translate into different types of de jure land and forest rights accessible by different actors, including rights that permit ecosystem service trade (relevant for selling forest carbon credits).

First, it is relevant where the land is located. If land is located within the state forest, it is subject to the Forest Law and related regulations. State forest land is under the authority of the MoF. If land is located outside the state forest, also called areas for other use (APL, *Areal Penggunaan Lain*), it is subject to the Basic Agrarian Law. APL is under the authority of district governments and the National Land Agency (BPN). Second, both laws distinguish between land and forest rights for individuals (smallholders), communities (including formal villages), and corporate actors. Third, the forest regime permits only temporary use rights (*hak pengusaha hutan*) for all actor groups. In contrast, the agricultural

regime permits inheritable and alienable individual rights (*hak milik*) for small-holders with a maximum size of 20ha,²² communal land rights (*hak ulayat*) for *adat* communities and temporary cultivation rights (*hak gunah usaha*) for larger corporate actors (Bedner and Van Huis, 2008: 179–180; Presiden Republik Indonesia, 1960b, 1960a, 1999). However, as we will see later, the de facto rights regime is far more complex than the formal legislations allow for.

De jure rights to forest and land

The allocation of forest concessions is a complex process which has often been described as non-transparent and corruption prone (Casson and Obidzinski, 2002; Smith et al., 2003). To obtain most of the various forest concessions available, actors have to establish a company or a cooperative and have to apply for a permit from the MoF. The legal procedure for accessing ecosystem restoration concessions, for instance, has been described as long and complex (Walsh et al., 2012a; Walsh et al., 2012b). The Forest Law provides different forest concessions for corporate actors (e.g. ecosystem restoration, forest plantation and logging concessions), for village communities (hutan desa/village forest concession), for communities (hutan kemasyarakatan/community forest concession) and for individual smallholders (hutan tanaman rakyat/smallholder forest concession). However, it is usually difficult for village governments, communities and individual smallholders to access these concessions. Smallholder forest concessions (hutan tanaman rakyat, HTR) are often allocated by forest authorities as a means to solve conflicts between the forest authorities and smallholders occupying land designated as state forest.²³ This was the case in a village in the southeastern part of the Berbak Carbon Initiative, and it was discussed as a conflict solution tool for solving conflicts between smallholders in Bungku and the conservation company PT REKI, who manage the Harapan Rainforest.²⁴ In other cases, in Jambi, the allocation of HTR concessions was often facilitated by NGOs or donors. For instance, the NGO Amphal supported by the Finnish Development Cooperation runs two smallholder agroforestry projects based on HTR concessions in the surroundings of the Bukit Duabelas National Park in Jambi.²⁵

Asked about how communities could obtain a village forest concession (hutan desa), experts from academia, donor agencies and NGOs interviewed in July 2012 mentioned that requirements such as the preparation of management plans and forest inventories, and the levying of administrative charges represent significant barriers to local communities and smallholders that cannot be resolved without external support. ²⁶ In addition, only state forest that is designated as production forest (hutan produksi) and that is not yet allocated is eligible for smallholder forest concessions. Village and community forest concessions represent an exception. They can also operate in conservation forests (hutan lindung). Furthermore, the respective regulation on village forests clearly links village forests to existing and formally recognized villages (Menteri Kehutanan, 2008a). This excludes groups that settle informally or live nomadically inside the state forest. ²⁷ The indigenous rights movement AMAN rejects community and

village forest concessions and argues "[...] we do not agree with that, because actually the basis of these forest categories is wrong. Because the forestry law itself is wrong [...] it doesn't recognize indigenous people's rights; [...] the law is wrong and consequently implementing regulation is also wrong". Community and village forest concessions remain part of the state forest territory, thus they remain under the authority of the MoF. They only permit temporary use rights. AMAN consequently refuses concessions and demands full land ownership and the recognition of indigenous territories. ²⁹

The recent constitutional court review declared that *adat* forest is no longer part of the state forest but is subject to the rights of *adat* communities (Rachman, 2013: 2). In 2015, after the election of President Jokowi, plans were announced to facilitate and expand the allocation of community and smallholder forest concessions and to implement the decision of the constitutional court (HuMa, 2015; Kompas.com, 2016; Nugraha et al., 2017).

Furthermore, in specific circumstances communities with the support of the district government can apply for an enclave. An enclave implies the release of a specific area from the state forest. The MoF then assesses the request according to specific criteria covering inter alia ethnicity, the history of the area, evidence of community rights and ecological indicators.

While a number of different corporate concessions have existed (e.g. logging concessions, forest plantation concessions) since 2008, a new concession type has been established that permits private actors to conduct conservation and ecosystem restoration activities (see Chapter 4 and Walsh et al., 2012a and 2012b). Ecosystem restoration concessions are private conservation concessions for habitat protection, habitat restoration and management (Ministry of Forestry, 2008: 5). They permit the commercial exploitation of non-timber forest products and the commercial use of ecosystem services such as ecotourism, biodiversity and carbon capture (ibid. 7). The conservation company PT REKI who runs the Harapan Rainforest project holds a concession of this sort.

In the process to obtain land rights in areas designated as APL, district governments and the National Land Agency (*Badan Pertanahan Nasional*, BPN) have the final voice. In peripheral areas without land registration, the village heads are (according to Governmental Regulation 24/1997 on land registration) in charge of land deeds and issuing the documents that are required to convert customary ownership to a formal land title (*hak milik*).

The BPN distinguishes between two procedures for registering land as hak milik. The first, called sistematik, refers to government-sponsored and government-assisted land-titling schemes conducted in specific areas, such as the Proyek Operasi Nasional Agraria (PRONA), for agricultural land. In this case, village heads and civil servants from the BPN jointly conduct tenure mappings to identify and certify land. The second procedure is called sporadik and refers to the process of individual land registration. The certification of a plot of land requires several documents, including a declaration confirming that land taxes have been paid, a document on the ownership history, a document that describes the location of the land and its borders (Surat Pernyataan Penguasan

Fisik Bidang Tanah), and a declaration that the plot is not claimed by another party. To convert customary rights, a statement from the village head is necessary. However, in many parts of Jambi, the term *sporadik* customarily refers to a village-scale land title, which is even recognized in part by the BPN in Jambi. According to a BPN officer in Jambi, a *sporadik* is not a legal land title but it can be considered as a *Surat Pernyataan Penguasan Fisik Bidang Tanah* and can be accepted by the BPN as a document legitimizing ownership by the village government.³⁰ The document is needed for a land title application for previously untitled land (Presiden Republik Indonesia, 1997; Wibisono, 2012: 9–11).

To obtain a concession for cultivation rights (hak gunah usaha (HGU)) corporate actors have first to apply for a location permit (ijin lokasi) from the district government. Before issuing a location permit, the district government has to consult local communities potentially affected by the concession (Paoli et al., 2013: 24). After holding the location permit, the planned plantation estate is subject to an environmental impact assessment involving the environmental protection authority of the district (ibid. 28). In a last step, the BPN issues the HGU (ibid.). In some cases, e.g. in Seponjen, companies run plantation estates based only on the location permit without having conducted an environmental impact assessment and without having a concession for cultivation rights (HGU). 32

The different types of land and forest rights described above are subject to different laws and regulations and involve a range of authorities such as village governments, district governments, the BPN and the MoF/MoEF. Each authority has its specific scale of regulation which reflects the position and the different dimensions of power of authority within the different apparatuses of the state. However, as the previous sections have shown, power constellations and scales of regulation are not stable but are continuously re-negotiated. Table 3.1 shows an overview of the different rights or, in other words, property types, their legal basis, limitations, the authorities involved and lists of stakeholders eligible for each property type.

De jure land rights and state-based settlement schemes

As outlined above, transmigration settlements were established in many parts of Jambi during the New Order era. The program participants usually also received titled agricultural land. The settlements in the Sungai Bahar area north of the Harapan Rainforest (developed between 1983 and 1986) provided approximately 2 ha of agricultural land and a 0.25-ha plot for a house, yard and garden. However, a member of the village government argued that the local population had difficulty joining the program and receiving the pledged land. He reported that some Batin Sembilan households paid a fee to join the program but received no land from the transmigration authorities.³⁴ A Batin Sembilan household head said that a total of 56 Batin Sembilan households from Tanjung Lebar joined and received start-up credits and land titles issued by the National Land Agency.³⁵ Some of them later sold their land to migrants.

Table 3.1 De jure land and property rights

Property type	Regulation/law	Limitations	Authority involved	Eligible stakeholder	Eligible land and forest category
Collective customary rights	Basic Agrarian Law 5/1960	Communal land title based	District government,	Customary	APL
(Hak Milik)	Basic Agrarian Law 5/1960, Governmental Regulation 24/1997 and 56/1960	Agricultural land with a max. size of 20 ha	Village head and BPN	Communices Individual land users	APL
Cultivation permit (Hak Guna Usaha, HGU)	Basic Agrarian Law 5/1960, Governmental Regulation 26/2007	Concession for agricultural plantations (e.g. oil palm), for max 60 years	District government, BPN	Corporate actors	APL
Smallholder forest concession (Hutan Tanaman Rakvat. HTR)	Ministerial Regulation 55/2011	Max land size of 15 ha per household, for max 60 years	Ministry of Forestry	Individual land users	Permanent Production Forest
Community forest concession (Hutan kernasvarakatan)	Ministerial Regulation 88/2014	Concession for community forestry, for max 35 years	Ministry of Forestry	Community with community	Production and Conservation forest
Village forest concession (Hutan Desa)	Ministerial Regulation 49/2008	Concessions for village forestry, for max 35 years	Ministry of Forestry	Village community	Production and Conservation forest
Customary forest (Hutan Adat)	Forest Law 41/1999 and Putusan MK No. 35/PUU- X/2012 tentano Huran Adar	Implementing regulation pending	Ministry of Forestry and Constitutional	Customary communities	n. a.
Forest plantation concession (Hutan Tanaman Industri, HTI)	Forest Law 41/1999, Government Regulation 7/1990	Concession for timber plantations, max 35 years	Ministry of Forestry	Corporate actors	Permanent Production Forest
Logging concession (Pemanfaatan Hasil Hutan Kavu)	Forest Law 41/1999	Logging concession, max 20 years	Ministry of Forestry	Corporate actors	(Limited) Production Forest
Ecosystem restoration concession/conservation concession (Restorasi Floristem)	Ministerial Regulation No. P. 61/Menhut-II/2008	Concession for ecosystem restoration, for max 95 years	Ministry of Forestry, provincial government	Corporate actors	Production Forest
Demand for enclave/release Forest Law 41/1999 from forest land	Forest Law 41/1999	Release from state forest (reclassification)	Ministry of Forestry, provincial and district government	Local communities All types	All types

The program for underdeveloped villages (*Impress Desa Tertinggal*) and the *Transsos* settlement program were presented as social programs to "develop the local population". They were developed from the 1970s until the late 1990s. The aim was to sendentarize the semi-nomadic Batin Sembilan families; the programs provided them with standardized wooden houses. The program in Bungku provided no agricultural land; in Tanjung Lebar a few participating households received 1 ha of agricultural land (Table 3.2).³⁶

Jambi's contested landscapes: from dispossession and development to conservation

Today, large parts of Jambi are covered by oil palm, rubber, and pulp and paper plantations. Jambi's economy is dominated by agribusiness and by the exploitation of black coal, oil and gas. Because of agricultural expansion and open pit mining, Jambi lost 76,522 ha of forest per year between 2006 and 2009 (Perbatakusuma et al., 2012: 55). Jambi's high deforestation rate and the conversion of peat swamps lead to net annual GHG emissions of 57 MtCO2e (Pemerintah Provinsi Jambi, 2012). The area under oil palm cultivation in Jambi has increased from 44,000 ha in 1990 to 714,399 ha in 2016 (Direktorat Jenderal Perkebunan, 2017). This rapid expansion of the oil palm frontier continues to be a highly conflictive and contradictive process, in particular because conservation areas have also been expanded significantly. Corporate and smallholder oil palm plantations as well as the new conservation areas challenge pre-existing land-use practices such as gardening, swiddens, logging and hunting and gathering, and the related customary regulations (Hein et al., 2016).

The landscapes surrounding the Harapan Rainforest project and the Berbak Carbon Initiative have different histories. I argue that unraveling them helps to improve understanding of the conflict dynamics in the two areas. Both are impacted by an unprecedented oil palm boom but there are differences in landscape transformation and especially in the agents driving the change and the conflicts. While the area of the Harapan Rainforest has been transformed by periods of violent primitive accumulation, the transformation of the peat swamps of the Berbak region was less conflictive and mainly driven by Bugi seafarers and Malay elites.

Landscapes of the forest of hope: dispossession, conflict and interethnic alliances

In pre-colonial times, the landscapes around todays Harapan Rainforest were the home of semi-nomadic Batin and Kubu tribes (Andaya, 2008: 205; Hagen, 1908: 19–20; Hein et al., 2015: 5). Leonard Y. Andaya (2008: 205) describes the Batin of the landscapes between Batang Hari and Musi Rivers "[...] as collectors of forest products for former Malayu Kingdoms, they filled a complementary niche that helped them to maintain a distinctive lifestyle and ethnic identity". According to colonial sources interethnic marriages between Batin and Malay

Table 3.2 Different de jure land allocation and titling schemes for APL land (non-forest land)

Identified in village?

Land title

Authority and scale

Scope

Program

Transmigration	Resettlement from provinces	Since the Reformasi: district	Yes	Kampung Laut and
	with high population density, plot for home garden and agriculture, housing	government; previously the Ministry for Transmigration		Tanjung Lebar¹
Program for underdeveloped villages (Impress Desa Tertinggal)	Development support for "backward villages"	District government	Not in all cases	Tanjung Lebar
Social housing program for nomadic groups (Transsos)	Sedentarization of nomadic and semi-nomadic groups	District government	Only land for house, yard and garden	Bungku, Tanjung Lebar
National Agrarian Operation (Proyek Operasi Nasional Agraria, PRONA)	Land-titling program	Ministry for Agriculture and Spatial Planning and National Land Agency	Yes	Kampung Laut (initial survey conducted)
Sporadik	Individual land-title application process	Village government in charge of converting customary claims to land, title issued by National Land Agency	Yes	All study villages
(Source: compiled by the author) 1 Tanjung Lebar was not a transmi are independent villages.	igration village, but transmigration settle	Source: compiled by the author) I Tanjung Lebar was not a transmigration village, but transmigration settlements were developed within the territory the village population claims. Today, those settlements are independent villages.	village population claims.	Foday, those settlements

were common and many Batin increasingly adopted the Jambi Malay language, lifestyle and religion during the colonial period (Andaya, 2008: 205). Today, most Batin Sembilan speak Malay and describe themselves as Muslims.

The Batin Sembilan groups living in the borderland between Jambi and South Sumatra trace their origins back to these groups (Hein et al., 2016: 384; Steinebach, 2013b: 71). The hamlets of Pangkalan Ranjau (Hagen, 1908) and Sungai Beruang founded by Batin Sembilan and today part of the village of Tanjung Lebar, confirm their pre-colonial presence in the area (Figure 3.1 and Table 3.3). The villages of Tanjung Lebar and the neighboring village of Markanding³⁸ were the oldest settlements in the Harapan landscape, explained a Batin Sembilan elder.³⁹ The settlements were cultural and socio-economic centers of the Batin Sembilan. Over the year, the Batin Sembilan stayed alternately in the settlements or in the forest shelters to hunt, gather forest products, care for fruit trees and practice shifting cultivation (Hidayat, 2012: 49).

The Batin Sembilan share a common myth of origin. According to this myth they descend from nine sons of a legendary noble named Raden Nagosari. Each son settled on the shore of one of nine rivers (Bulian, Bahar, Jebak, Jangga, Pemusiran, Burung Antu, Telisak, Sekamis, Singoan) in the borderland between the Sultanates of Jambi and Palembang (c.f. Hidayat, 2012: 3). This myth of origin is reflected in the traditional and, at least in part, still relevant socio-spatial organization of the different lineages of the Batin Sembilan. In pre-colonial and colonial times different lineage leaders of the Batin Sembilan controlled forests in the upper watersheds of the Bulian, Bahar and Lalang Rivers (Figure 3.1A). Extended families controlled the forests in a sub-watershed, permitting only family members to establish fruit gardens and dry rice fields. Today, different lineages and extended families of the Batin Sembilan still refer to these and other rivers to explain and legitimize the borders of their ethnic territories (Table 3.3).

The traditional leadership structure of the Batin Sembilan and their sociospatial organization has been transformed and overlaid by colonial and post-colonial administrative and jurisdictional reforms. In the villages of Bungku and Tanjung Lebar, much of the knowledge of traditional authorities and traditional socio-spatial organization seemed to be lost. The remaining information on the role of traditional authorities and on the hierarchy of authorities is rather contradictive. Rian Hidayat (2012: 71) argues that the *Depati* was the highest authority of the Batin Sembilan during the Sultanate. The Depatia usually governed a *dusun* (hamlet). A Batin Sembilan leader in Tanjung Lebar argued that the *Temenggung* was the highest authority in a *dusun*, positioned above the *Depati*. The *Temenggung* was a cultural and political leader responsible for conflict mediation. Batin Sembilan elders that I met argued in line with Hidayat, or they did not know a *Depati* at all or explained that the *Depati* was called *Mangku* in the settlements around the Harapan Rainforest.

In the early 20th century, the Dutch took control and, as described earlier in this chapter, introduced the administrative system of Palembang and established the *Pasirah* as a new authority governing a *Marga* and holding the authority to

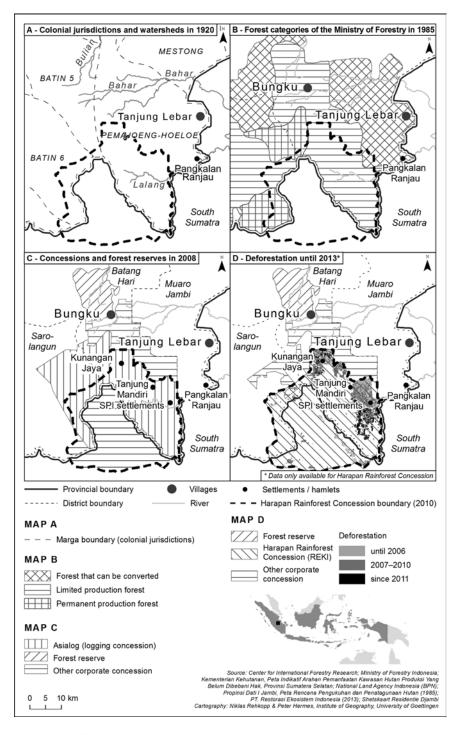


Figure 3.1 Different thematic maps of the Harapan Rainforest and its surroundings (Source: adapted, based on Hein et al., 2016)

Table 3.3 Lineages of the Batin Sembilan and their settlements

Name of Batin sub-group and river name	Old settlement	Official villages
Bulian (Sungai Bulian)	Dusun Singkawang	Kel. Bulian, Kel. Sridadi, Kel. Pasar, Kilangan, Singkawang, Sungkai, Kel. Bajubang, Petajin, Batin
Bahar (Sungai Bahar)	Dusun Pinang Tinggi, Dusun Padang Salak, Susun Tanah Menang, Dusun Mengkanding, Dusun Tanjung Lebar	Pelembang, Nyogan, Tanjung Lebar , Tanjung Pauh Illir, Ladang Peris, Sungai Landai, Dusun Baru, Bungku and transmigration villages in the Kec. Sungai Bahar and Bahar Selatan
Other sub-groups: Jebak, Pe	emusiran, Singoan, Jangga, B	urung Antu, Sekamis, Telisak

(Source: Hidayat, 2012: 33 and own investigations)

allocate land. The landscape became part of the *Marga* of Pemajoeng Hoeloe and the first roads were built linking the region with Jambi city (Tidemann, 1938: 251). The Dutch colonial administration also sought to settle and to "civilize" the native population, challenging their semi-nomadic lifestyles.

After independence, the region initially remained relatively stable. Fundamental transformation processes were triggered by Suharto's autocratic New Order regime (1967–1998). Almost the entire region was classified as state forest area despite the presence of peasant and indigenous communities such as the Batin Sembilan (Figure 3.1B) (Hein et al., 2016: 384-385). To fight "backwardness" and "unproductiveness", in other words to promote "development", the central government allocated large forest areas claimed by the Batin Sembilan to logging companies in the 1970s and to oil palm companies in the 1980s. In the 1970s, the forests in and around today's Harapan Rainforest were divided into three corporate logging concessions. The southern part was assigned to PT Asialog, the northern part to PT Tanjung ASA and the eastern part to PT Suka Rimba Raya (Badan Inventarisasi dan Tata Guna Hutan, n.a.). The classification of the area as state forest and the allocation of state forest to logging companies illegalized the settlements and livelihood practices of the Batin Sembilan and led to de jure dispossession of the Batin Sembilan. De facto, many Batin Sembilan groups were still able to practice shifting cultivation and domestic logging was tolerated, but the companies restricted access to the concession for non-local groups.44 A Batin Sembilan leader in Bungku argued that the logging company PT Asialog accepted the land rights of the Batin Sembilan. 45 However, some Batin Sembilan had other experiences with the company and reported that shifting cultivation and crop cultivation were not allowed within PT Asialog's concession and early conflicts, especially between Batin Sembilan and the PT Asialog, were also reported, e.g. when staff of the company logged fruit trees belonging to the Batin Sembilan.46

Furthermore, as mentioned above, the Law No. 05/1979 on Village Governance imposed the Javanese village administration and jurisdictional system and established villages (desa), hamlets (dusun), and neighborhoods (rukun tetangga) as new scales of regulation (Hein et al., 2016). For instance, the foundation of Bungku village and the establishment of new jurisdictional boundaries between the villages were superimposed on the scales of regulation established by lineages of the Batin Sembilan, and ignored the previous separation of the different lineages living along the rivers of the Bulian River watershed (Batin Bulian) and those living along the rivers of the Bahar and Lalang River watersheds (Batin Bahar) (Hidayat, 2012: 28).

In the 1980s and early 1990s, the allocation of large-scale oil palm concessions and the development of the state-sponsored transmigration resettlement scheme induced the most disruptive transformation processes, which have some similarities with what Karl Marx (1887) has described as primitive accumulation. The vast logging concession still provided the possibility for commercial large-scale resource extraction to coexist with the livelihood patterns of the Batin Sembilan. In the 1980s, a number of transmigration settlements were established in the north of today's Harapan Rainforest project. Through the transmigration program, land was allocated to Javanese farmers acting as out-growers for the state-owned oil palm plantation company PT Perkebunan Nusantara VI (PTPNVI). Only very few Batin Sembilan were able to participate in the program and many of them had difficulties earning a living in the settlements and moved back to their traditional settlements.⁴⁷ In 1986, the establishment of the 20,000 ha oil palm estate of PT Bangun Desa Utama (PT BDU), today named PT Asiatic Persada, led to the displacement and dispossession of many Batin Sembilan and to a still-unresolved violent land conflict (c.f. Steinebach, 2013b; Beckert et al., 2014). The new transmigration settlements and the plantation estates led to the fragmentation of the customary land of the Batin Sembilan and especially of the territory claimed by the village elites of Tanjung Lebar. Today, Tanjung Lebar has no contiguous village territory; its five hamlets are scattered and located within and north of the Harapan Rainforest.

Settlement policies for Batin Sembilan groups, such as the program for "underdeveloped villages" (*Impress Desa Tertinggal*), provided no land, or only very limited land, for agriculture. The provision of settlements without land and the eviction of the Batin Sembilan from their customary land that they previously used for swiddens and forest gardens freed up their labor for the demands of the rising plantation sector. Thus, the companies that contributed to the displacement of Batin Sembilan employed many of those that lost access to their forest gardens and swiddens. Others moved south into the forests that later became the Harapan Rainforest, or engaged in hidden resistance strategies such as stealing and selling the fruits of the corporate oil palm plantations.

Following the regime change in 1998, political turmoil, decentralization and democratization induced the most recent and conflictive rescaling processes that have been ongoing in the region (Hein et al., 2016). District heads (*Bupati*), village heads (*Kepala Desa*) and customary leaders took advantage of the political

vacuum, interpreting the reforms to their advantage and asserting far-reaching administrative authority over forests (Barr et al., 2006; 2; Hein et al., 2016; 384). Within the areas in and around today's Harapan Rainforest, Batin Sembilan increasingly started to accentuate their social identity as an indigenous group. Hidayat (2012: 3) argues that the active reconstruction of the ethnic identity of the Batin Sembilan should be considered as a process of resistance against the neglect of their rights to land and natural resources, which was especially prevalent under the New Order regime. Furthermore, customary leaders of the Batin Sembilan began using their agency to reestablish their former customary land as a relevant scale of meaning and regulation. Batin Sembilan elites started to collaborate with peasant organizations such as SPI and adopted the land-use practices of mainly Javanese migrants (e.g. oil palm cultivation). They began allocating the forests of the 67,000 ha PT Asialog concession (abandoned since 2003; Figure 3.1C) to arriving migrants (Hein et al., 2016) and started to openly resist the oil palm company PT Asiatic Persada that had displaced them at the end of the 1980s.

Interethnic marriages between Batin Sembilan and migrants gained importance as strategic alliances (Hein et al., 2016: 384; Steinebach 2013b: 74). They enhanced the social status of the indigenous Batin Sembilan and provided migrants with access to land, timber and non-timber forest products within the state forest. The assigning of land to migrants can be considered a socio-spatial resistance strategy of the Batin Sembilan elite to regain authority over state forest land, which they lost during the New Order period, and to reestablish their customary land claims within the state forest (Hein et al., 2016: 384–385). Leaders of the formal village governments - in most cases, Batin Sembilan or individuals with strong kin-ties to Batin Sembilan - legitimated the land transactions by allocating forest conversion permits and village-scale land titles (ibid.). In 2010, the MoF challenged land allocation by village and customary authorities and turned the abandoned logging concession of PT Asialog into a conservation concession, ignoring the existence of settlements and farmland and assigning the area to the conservation company PT REKI (Figure 3.1C, D) (ibid.). The land conflicts emerging in the context of the implementation of the conservation concessions are described in Chapter 5.

Historical and customary rights regime within and around today's Harapan Rainforest

As described above, the Batin Sembilan lived mainly close to rivers in order to be near water, fish and transport. Different lineages and sub-lineages of the Batin Sembilan controlled the adjacent land and forests. The landscape's watersheds can be regarded as scales of meaning (they contain spiritual meanings and are linked to a lineage's specific myth of origin) and as scales of regulation (each lineage has authority over land within its territory). The first (extended) family to convert forest and establish a swidden in a specific area generally owned the land. 48 Other families needed permits to establish swiddens in that area,

and land rights continued after the forest had regrown. Batin Sembilan in the hamlet of Kunangan Jaya 1 (part of Bungku village) explain that only members of their lineage are allowed to live in their neighborhood (RT, *rukun tetangga*) and to convert forest along the upper Kandang River (a tributary of the Bahar River). ⁴⁹ Specific trees, watercourses, hills and other landmarks demarcated the borders of land that was held by various extended families and lineages. ⁵⁰

As mentioned above, details of the traditional leadership structure are contradictory, making it difficult to assess the role of traditional Batin Sembilan public authorities in terms of land governance, and especially their role in granting access permits to non-lineage members and other outsiders. A key informant explained that when outsiders stopped using land for more than six months, their rights to the land reverted to the *Temenggung*. The suggestion that the *Temenggung* had authority over land issues is confirmed by a study conducted by the Forest Peoples Program (FPP). Marcus Colchester and colleagues (2011: 10) state that the *Temenggung* [...] had overall authority over adat territories". Interviewed Batin Sembilan elders generally agreed that outsiders – migrants – needed permits from Batin Sembilan leaders to convert forests. This is also confirmed by colonial sources. Tideman (1938: 78) explains that migrants had to pay rent to Batin Sembilan groups to access land rights. In cases of border disputes or violations, such as the destruction of another family's fruit tree, compensations were negotiated for any losses. To a service of the semble of the public of the semble of the public of the semble of the contradiction of another family's fruit tree, compensations were negotiated for any losses.

As population density was very low in pre-colonial and colonial times, land was abundantly available. At that time, tree property (fruit trees and *sialang* trees⁵⁴ with beehives) might have been more relevant than land rights. Sialang tress with beehives, for example, were owned by specific families and only family members had the right to harvest honey.⁵⁵ Fruit trees were usually owned by the families that planted or took care of them. Batin Sembilan planted trees such as durian, langsat and rubber on abandoned swiddens. Old fruit trees in the remaining forest patches of the Harapan Rainforest provide evidence of the historical presence of Batin Sembilan groups. Present-day rubber and fruit tree agroforestry can also be considered as relicts of Batin Sembilan forest gardens that existed before the deep transformation processes that began with the New Order.

As described above, Dutch jurisdictional reforms for the Netherlands East Indies changed pre-colonial scales of meaning and regulation (e.g. watershed scale) and lineage-based access and property relations. A Batin Sembilan elder in the Harapan landscape explained, "We were colonized by the Dutch. The Dutch formed a new government and we received a *pasirah* [...] replacing the authorities based on *adat*". ⁵⁶ In Bungku, the head of a Batin Sembilan family explained that to convert forest, a permit was required from a *pasirah*. ⁵⁷

In the late 1980s, the Batin Sembilan's customary regulations in the landscapes around today's Harapan Rainforest project became less important; today, the land claims of different Batin Sembilan families, sub-groups and lineages appear to be contested: their leaders and other public authorities interpret the borders between lineages and extended families in various ways. A Batin Sembilan

elder in Tanjung Lebar argued, for instance, that all Batin Sembilan families in Tanjung Lebar, Bungku and Markanding (located west of Tanjung Lebar) have the same ancestors but do not share the same territory.⁵⁸ He explained that the territory of the Batin Sembilan groups of Tanjung Lebar is located between the mouth of the Sungai Kandang River and the Mandiangin village water divide, which is located west of the Harapan Rainforest in the neighboring district of Sarolangun.⁵⁹ A member of the Tanjung Lebar village government argued that the old border between the Markanding and Tanjung Lebar groups was located in the area of Kunangan Bawah, which is now part of the village of Bungku, and claimed that the whole PT Asialog concession had been part of their territory. 60 A Batin Sembilan elder in Bungku challenged these oral records and maintained that his family's territory was located between Sungai Kandang and Bahar: it was neither part of the land controlled by the Batin groups from Markanding nor Tanjung Lebar. 61 Descendants of the former Batin Sembilan leader, Depati Jentikan, claimed that their ancestor controlled the forests around the main hamlet of Bungku, reaching across watersheds to Air Hitam in the district of Sarolangun. 62 Members of the 113 group of Bungku, a local resistance group formed by the Batin Sembilan and Javanese migrants that occupies parts of the oil palm concession of PT Asiatic Persada (for more details on the conflict with the 113 group consider Chapter 5; Steinebach, 2013b; Beckert et al., 2014), argue that Bungku is located in the border area between two lineages (Batin Bulian and Batin Bahar).

The New Order politics of dispossession transformed the Batin Sembilan from landowners to landless peasants, illegal settlers, squatters and day laborers. The rescaling of forest and land governance facilitated resource exploitation by corporate actors but significantly reduced Batin Sembilan groups' abilities to access land and property. Only a few Batin Sembilan families, especially the elites and those who had adopted commercial farming, were able to benefit from the extra leeway provided by the rescaling processes of the *Reformasi* era. Spontaneous in-migration and the transmigration scheme further altered the landscape's demographic structure. Today, Batin Sembilan groups are minorities in Bungku and Tanjung Lebar. According to PT REKI data, only 10 percent of the population in the informal settlement of Transwakarsa Mandiri (part of Bungku) belong to local ethnic groups (REKI, 2011a). A survey conducted by the Forest Agency of the Batang Hari district (2012) in the informal settlement of Bukit Sinjal (part of Tanjung Lebar) shows a similar situation.

Landscapes around Berbak National Park: in-migration, drainage and logging

The Berbak landscape was sparsely populated until the beginning of the 20th century (Sevin and Benoît, 1993: 95). A few small Malay settlements existed on the river banks of the lower Batang Hari River (Claridge, 1994: 290; Hein et al., 2018a; Sevin and Benoît, 1993: 97). The coastal part of the region was home for Orang Laut tribes which were mainly involved in trading, fishing and

piracy (Andaya, 2008: 182; Locher-Scholten, 2004: 58). The Malay villages in the delta consisted only of a few houses, and interaction between the villages was limited (Sevin and Benoît, 1993: 97). However, in contrast to the Batin people of Jambi's hinterland, the Malay settlements were under the full authority of the Sultanate (Locher-Scholten, 2004: 48).

The influence of the colonial administration was relatively strong. A first colonial trade and military post dating back to the 17th century (Tidemann, 1938: 337) was located on the banks of the Batang Hari River. The Batang Hari delta west of the Berbak National Park was a target location for the colonial resettlement project *Kolonosatie*, a precursor of the transmigration program of the post-colonial government that started in 1905 (Sevin and Benoît, 1993: 104). As in the area of today's Harapan Rainforest, the Dutch divided the landscape into *Margas* led by a Pasirah (ibid. 97). The area of today's Air Hitam Laut was part of the *Marga* Berbak, Seponjen was part of the *Marga* Kompoe-Hilir and Kampung Laut of the *Marga* Djeboes (Tidemann, 1938: 251). In 1935, Dutch colonial authorities established the Berbak *Wildreservaat* as a precursor of the Berbak National Park (Claridge, 1994: 288). The protected area covered 190,000 ha of peat swamp and mangrove forests (Balai Taman Nasional Berbak, 2013).

In the 20th century, Sumatra's east coast became a popular destination for Banjar from East Kalimantan and for Bugis from South Sulawesi (Benoit and Sevin, 1993: 257; Galudra et al., 2014: 719, 722). Banjar people were experienced hydraulic engineers. In their homelands in East Kalimantan, they converted and drained peat-swamp forest for crop production (Galudra et al., 2014: 722). In Jambi, they mainly settled in the northern parts of the province close to the border with the province of Riau. Bugi immigration intensified during a period of political violence in South Sulawesi in the 1950s and 1960s. The Bugis adopted the drainage techniques of the Banjar, engaged with local political authorities to access land and started peat-swamp conversion and settlement projects along the coast and in the Batang Hari delta (Claridge, 1994: 290; Sevin and Benoît, 1993: 102). More profound changes of landscape and sociospatial organization started in 1960 and intensified during the New Order era. Transmigrants and the continuing influx of spontaneous migrants from Java and South Sulawesi induced rapid population growth in the Batang Hari delta (Claridge, 1994: 292). The village of Air Hitam Laut located on the margins of the Berbak Carbon Initiative, for instance, was founded by Bugi seafarers⁶³ from the Luwu district in South Sulawesi in 1965.64

The villages of Kampung Laut and Seponjen (located on the western border of the Berbak Carbon Initiative, Figure 3.2) remained relatively stable until the 1990s. The Malay lived mainly from fishing, the gathering of non-timber forest products (especially tapping of *Dyera costulata, syn. D. laxiflora* and gathering of rattan), rubber and fruit tree cultivation. The settlements and the fruit tree and rubber gardens were located on the higher alluvial deposits; the lower marshes were covered by peat-swamp forests. Small marsh areas were used for wet rice cultivation. In 1985, the MoF released large state forest areas on both sides of the Batang Hari River and of the Kumpeh River (which is a river

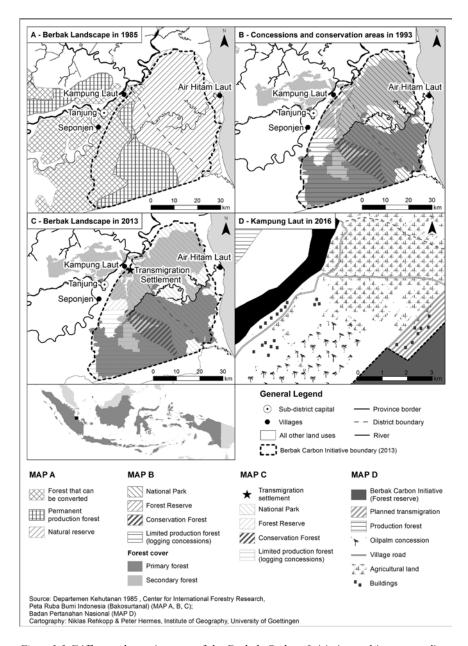


Figure 3.2 Different thematic maps of the Berbak Carbon Initiative and its surroundings (Source: adapted and based on Hein et al., 2018)

arm of the Batang Hari), permitting the expansion of agricultural production (Badan Inventarisasi dan Tata Guna Hutan, 1985). Yet the exact borders of the reclassified area remained unclear and a 1993 MoF map indicates that at least parts of the released land were again reclassified as state forest (Figure 3.2A, B) despite the ongoing activities of the local population (e.g. logging and gathering of rattan). The forests east of the villages were designated as a forest reserve (TAHURA Sekitar Tanjung) (Badan Inventarisasi dan Tata Guna Hutan, 1993). A few years later, in 1997 (Figure 3.2B), the Hutan Suaka Alam (former Wildreservaat) became the Berbak National Park, but the size of the protected area was reduced by almost 30,000-162,700 ha (Balai Taman Nasional Berbak, 2013).

In Seponjen, significant village expansion and peat swamp conversion started in the 1990s. In 1992, Pak Hadji Pattimura, 65 a Jambi-based business man born in the village of Seponjen, received a forest conversion permit from the district government of Batang Hari (Izin dari Kabupaten Batang Hari Nomor: 593.3/5567/pem.tgl 22 desember 1992). In the following years, a number of organized forest conversion, drainage and settlement projects were conducted in the lower and flood-prone peat swamps, some of them overlapped with the borders of the forest reserve TAHURA Sekitar Tanjung. The largest forest conversion initiative started in 1997 and provided land for Bugi migrants. Today, the settlement is one of three hamlets of Seponjen. The hamlet is colloquially called Dusun Bugis. In Kampung Laut village expansion started in the 2000s.

The 1990s and the early 2000s saw an unprecedented logging boom in the Batang Hari delta and in the forests that later became part of the Berbak Carbon Initiative. After the fall of Suharto, in the late 1990s and in the early 2000s, villagers in Kampung Laut and Seponjen were able to receive IPKRs (smallscale logging permits) issued by the Bupati of the district of Muaro Jambi. 66 Villagers in Seponjen received small-scale logging permits and formed logging groups that consisted of up to ten individuals. 67 Logging occurred outside and within the state forest. In both villages, logging was a very significant income source, which attracted migrants and led to the establishment of sawmills. In 2005, three years after the enactment of Regulation 34/2002 that prohibited logging permits issued by district authorities, large anti-logging raids by the forest police stopped most commercial logging activities in the villages.⁶⁸

Since the Hutan Suaka Alam Berbak became a Ramsar Site in 1991 and a national park in 1997, the region has been a target area for a number of conservation initiatives aiming to develop an integrated spatial planning concept for the different land-use categories and jurisdictions of the region (Lubis and Suryadiputra, 2004: 111-115). The first larger initiative was the Integrated Swamps Development Project (ISDP) running from 1997 to 2000. ISDP was funded by the Global Environmental Facility (GEF) and implemented, among others, by Wetland International, the Provincial Government of Jambi and the MoF. The main output of the project was a management plan for the Berbak National Park and its surroundings. The plan recommended to not extend the logging concessions south of the national park and to designate areas for

community forest concessions (ibid. 113). The follow-up project, the GEF Berbak-Sembilang Project (2000–2004), was again an attempt to develop a more integrated spatial plan (ibid. 114). In parallel, the first initiative explicitly linking conservation and especially peat-land conservation with climate change mitigation started in the early 2000s (ibid. 115). The three projects had components that involved local communities. In Kampung Laut, key informants mentioned that they received support for planting trees on idle village land outside of the state forest. ⁶⁹

In any case, the various attempts to establish a larger protected area as a new scale of regulation to protect the different ecosystems have been challenged by many actors. The province of Jambi is developing an international seaport and industrial zone in the Batang Hari delta region, only a few kilometers north of Berbak National Park. The MoF has ignored the recommendations of the ISDP project, extended the logging concessions, and failed to ensure that communities receive community forest concessions. State agencies such as the Transmigration Agency of the District of Muaro Jambi have even supported further peat swamp conversion by developing transmigration settlements within the forest reserve TAHURA Sekitar Tanjung, challenging the authority of the Provincial Forest Agency and of the MoF (see Chapter 5).

Conflicts between local communities and companies running plantation estates or between local communities and central state authorities were not as common and violent in the villages around the Berbak Carbon Initiative as in the villages around the Harapan Rainforest. A potential explanation is that most of the land claimed as village land in Air Hitam Laut, Seponjen and Kampung Laut does not overlap with the state forest territory, implying that the district government has authority over the land. Generally speaking, the district governments in the region seemed to accept traditional village lands. In addition, the MoF reclassified large forest tracts to non-forest land in the late 1980s in the surroundings of the villages. This has reduced the potential for conflicts. Village governments had been directly involved in negotiations with companies and were in some cases even actively searching for investors.⁷⁰ Only recently, conflicts occurred but they were not associated with displacements or dispossession; they were rather caused by controversies about the interpretation of benefit sharing and contract farming agreements between oil palm plantation companies and local communities.

Historical and customary rights regime within and around today's Berbak Carbon Initiative

In pre-colonial and colonial times, agriculture was of minor importance in the Berbak landscape (Guillaud, 1994: 177; Sevin and Benoît, 1993: 96). Fishing and extracting timber and non-timber forest products were much more important activities. Key informants in Seponjen claimed that the village has a community forest and fruit tree gardens, the exploitation of which dated back to their ancestors.⁷¹ Community members did not need a permit from a customary

leader to convert the community forest. Land was abundant and since agriculture was not important, access did not need to be regulated for community members.⁷²

Things changed in late 1960s. The Pasirah of the Marga Berbak facilitated the creation of the Air Hitam Laut village by permitting Buginese migrants to drain and convert peat-swamp forest around the mouth of the Air Hitam Laut River. Until the end of the 1990s, Malay families were allowed to convert forest according to their needs, with decisions about forest conversion made at the household scale.⁷³ Starting in the late 1990s, the government of Seponjen village for example restricted individual forest conversions. Decision making about converting the community forest was rescaled, producing a village-scale of regulation. In the following years, the communities undertook more organized, cooperative initiatives to drain and convert peat swamps. In Kampung Laut and Seponjen, the village governments required that farming groups be formed to convert the communities' traditionally owned peat-swamp forest.⁷⁴ The formation of farming groups and regulations restricting individual forest conversion permitted Malay elites to consolidate their control of village land and timber resources. Moreover, the draining and conversion efforts were only possible with the collective labor of a farming group.

Malay village communities in Seponjen and Kampung Laut, and Bugis in Air Hitam Laut, have managed to keep control of most of their village territory. The village communities of Kampung Laut and Air Hitam Laut still possess larger tracts of fallow land and secondary forests. They have allocated parts of their land to companies, thereby further strengthening the village-scale of land tenure regulation. However, as in the landscape around the Harapan Rainforest, the ethnic structure has changed: Javanese, Sundanese and Bugis now outnumber the Malay population in Seponjen and Kampung Laut.

De facto land tenure and the "making" of new property in the state forest territory

Agricultural expansion and highly complex local land tenure regimes are an important challenge to conservation and REDD+ projects in Jambi. The rescaling of forest and land governance in the context of the decentralization processes of the *Reformasi* era provided additional agency and the opportunity for local actors to expand their authority over forest and land tenure. Consequently, de facto access and property relations in and around the Harapan Rainforest and the Berbak Carbon Initiative differ substantially from de jure land and forest rights. Large parts of Jambi show similarities with what Peluso (1992) has described as "forests without trees". Peasants and indigenous communities use large parts of state forest territory, including land located within REDD+ and conservation projects, and have transformed forests to swiddens, rubber and oil palm plantations without having de jure rights.

Local public authorities have established a village scale of regulation to legitimize land claims based on an informed choice of regulatory elements of

Indonesian property law, and have started to issue village-level land titles. Actor coalitions involving customary leaders, village governments and district agents have reinterpreted, copied and transplanted the transmigration program and elements of Indonesian property relations to the sub-national scale in order to legitimize forest conversion, land allocation and land transactions within the state forest, including areas that became REDD+ projects after 2008. The various examples outlined in the following show how rescaling has broadened the opportunities for local actors to access land and property. They show that different state apparatuses might act in contradictory ways and not directly reflect the will of dominant groups at the national scale. By using language and symbols of the central state, such as sporadik and transwakarsa, and by referring to elements of the central state's legal system, actors gain power and legitimacy (Lund, 2006: 687). Local public authorities, e.g. village governments, follow the policies and regulations that specifically support their interests. The different informal settlement projects in the state forest indicate that specific rules or modes of regulation (Etzold et al., 2009: 8) are negotiated between the political elites (village leaders and customary authorities).

The examples illustrate how the power constellations have changed: local public authorities have been able to develop invisible, hidden and visible power. The active reformulation of the "development" and "progress" narratives of the Suharto area has provided new meanings and legitimacy for agricultural expansion and settlement formation, indicating invisible power. Successful occupations of the state forest, like those by the SPI peasant movement, show that the MoF and central state have lost power – thus providing opportunities for alternative developments. In this sense, village–scale land titling and the various village–scale settlements that violate forest law can be seen as active scalar resistance against the central state's land allocation policies, especially those of the MoF.

Land-allocation policies (e.g. towards conservation, oil palm companies and REDD+ project developers) and forest law are considered unjust – particularly in Bungku – and are actively challenged by local actors, as this former village head states: "My house is located within the state land. The state officials say that is state forest, my house is state forest. That means that myself, as a village leader, I am living within the state forest. There is no non-forest land (APL) available [...]. We cannot get a land certificate for the state forest. We live in this country but we cannot get land rights [...]. According to the Forest Law 1999/41, we should be punished. This is unfair [...] Many people have been living within the Asialog concession since the 1960s. Now the area [Harapan Rainforest] is designated for being the lungs of the world and for forest restoration [...]. There is no place for the rights of the people there. The communities are threatened by the application of the forest law. There is no social justice, no partnership [...]". "

Illustrating de facto access and property relations: migrants and access to land

Rural migration makes access and property relations visible. Rural migrants are a very heterogeneous group and they have used many different strategies to

access land. Some just migrated a few miles from a neighboring village while others came from areas as far away as South Sulawesi in Indonesia's "Far East". The term *migrant* is a rather blurred category in a dynamic rural frontier land-scape. Especially in the landscapes of today's Harapan Rainforest, where seminomadic groups dominated until the 1970s, many families are migrants, to some extent. Most migrants who arrived were landless and managed to gain access to land with the support of family members and by engaging with the indigenous population and local public authorities. Furthermore, the common and ongoing process of rural migration in dynamic, tropical frontier landscapes is a major challenge for conservation initiatives seeking to conserve a landscape's status quo (Carr, 2009: 356; Hein and Faust, 2010: 12; Zelli et al., 2014: 29).

The remaining forest within the Harapan Rainforest and the peat swamps of coastal Jambi around the Berbak Carbon Initiative are important destinations for frontier migrants. As in other frontier regions (Li, 2005: 136; 2002: 429), migrants had to engage with the indigenous population and local public authorities in order to convert forest and access land (Figure 3.3).

A Javanese migrant who came to Bungku in the 1970s explained: "I directly started to work together with the Orang Kubu⁷⁶ in the forest. We were looking for *jernang*, ⁷⁷ rattan, timber and other forest products. I worked for 12 years with them in the forest and in 1975 I married my woman who is from here and we stayed in the village [...]. After, the forest products were getting scarcer [...] I started farming in 1995". No Local customary regulations require all migrants to obtain permits from a local authority (a village head or customary leader), or at least from a member of the community. A former community leader in Bungku said, "Newcomers should first contact the village head or the ketua adat to ask for permission to clear forests". 79 A former community leader in Tanjung Lebar confirmed: "Forest conversion had to be reported to the village head or at least to an elder [...]. Migrants cannot just convert forest; the forests had been already used by our ancestors". 80 A migrant from Kerinci (located in the Bukit Barisan mountain range of western Jambi) said that he asked the Batin Sembilan before establishing his plots inside the borders of today's Harapan Rainforest project. 81 Various local authorities complained that recently many migrants and outsiders had been converting forests without permits. A customary leader from Tanjung Lebar explained: "Those who convert two to three hectares still

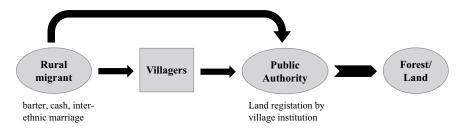


Figure 3.3 Migrants accessing land in the villages

(Source: Hein, 2013b: 17)

have a permit from us – from the Batin Sembilan – but those that have financial resources convert 20 to 50 hectares of land without asking us".⁸²

To access land in the villages around Harapan Rainforest, migrants usually had to compensate the land's previous user for his losses instead of buying the land outright, a transaction which was not considered to be a purchase: "The selling of land is actually not allowed, but migrants can obtain land through compensation payments". 83 In the past, cigarettes, rice and other in-kind benefits were sufficient to access land and to get a permit to clear forests from a Batin Sembilan elder or village head.⁸⁴ In most cases today, cash payments have to be made that are substantially larger than the earlier IDR 200,000 per ha and can go up to IDR 70 million⁸⁵ per ha for land planted with harvestable oil palms. 86 In recent years, migrants and locals have started to abandon the concept of compensation, and now describe the transactions as "purchases". A migrant from Kerinci who was farming inside a forest reserve stated: "I bought the land and converted the land and planted oil palms [...] I have paid IDR 4 million per hectare". 87 A Batin Sembilan woman said that she had sold land: "We sold 3 hectares to family members living in Jambi city because we had to cover the costs of a medical treatment". 88 Some migrants reported that they did not have to pay for the land but they did have to pay for the public infrastructure in the settlements, as well as for land measurement services and land titling.

Among the villages around the Berbak Carbon Initiative, it was only in Kampung Laut that the concept of compensation was known. According to other informants, land trade was even supported by the village government of Kampung Laut. In line with narratives used by the central state in Jakarta to legitimize the transmigration program, the village government officials argued that migrants promote village development. ⁸⁹ There, land commodification seems generally more advanced than in the Harapan Rainforest area. Key informants in Kampung Laut and Seponjen confirmed that many native Malay have sold their land to migrants, companies, or outsiders. ⁹⁰

In both regions, selling land to migrants accelerated processes that transformed large parts of the local indigenous population from property owners who controlled vast forest areas to marginalized smallholders or even to landless peasants. Tania Murray Li (2002) discovered similar dynamics in Central Sulawesi. Within the Harapan Rainforest, the Batin Sembilan facilitated forest conversion and land access for migrants, but as a PT REKI survey (2011a) shows, only a minority of the Batin Sembilan has been able to maintain their land and only the elites have benefited from land trade.

The reasons for selling land are hard to identify. One explanation might be that the owners lack economic resilience because they lack other assets and knowledge about how to act in a commodified, market-oriented environment. In some cases, land was sold to overcome shocks – the costs of medical treatment or the children's education, harvest failures or the destruction of a plantation by forest fires. Another relevant point might be that land had always been abundant and the Malay and Batin Sembilan groups were not yet able to adapt to the new scarcity.

Village-scale land-titling and the role of local public authorities

Evidence for the territorial claims of local public authorities in Jambi is provided by the fact that village governments issue and allocate village-scale land titles in particular to migrants. Although village-scale land titles have no clear legal basis, they are common all over Jambi and Indonesia (Kunz et al., 2016). Village-scale land titles are based on a place-specific interpretation of elements and fragments of state laws and regulations (ibid.). As explained, Governmental Regulation 24/1997 is relevant in this context because it explicitly mentions the role of village governments in the land-titling process. It gives village heads the authority to issue specific documents required to transform customary land claims into a certificate of the National Land Agency (Badan Pertanahan Nasional). The regulation might thus provide legitimacy for local public authorities (e.g. village governments) to consolidate control over untitled customary land. Moreover, the regulation provides legitimacy to facilitate land transactions and room for political and economic rent-seeking for village governments (c.f. Lund, 2008: 23).

Conceptually, village-scale land titles might be seen as the result of rescaling processes. The day-to-day interactions of smallholders and rural migrants seeking to get land certified by village governments, and local banks' acceptance of some village-scale land titles as collateral for small loans, consolidates the village scale of land tenure regulation. Moreover, I argue that the new village scale of regulation reflects the requirements of a specific mode of production: smallholder oil palm cultivation. Village-scale land titles have facilitated the expansion of smallholder oil palm plantings and contributed to the commodification of former lineage-based property.

Currently, at least seven different documents issued by the village authorities or by sub-district authorities are used in the different villages surrounding the Harapan Rainforest and Berbak Carbon Initiative (Table 3.4). The most common important one, *sporadik* (Figure 3.4), will be explained in detail.

According to Governmental Regulation 24/1997, sporadik is the National Land Agency's application procedure for an individual land title. However, in the villages I studied and in other parts of Jambi, sporadik refers to a village-scale land title and at the same time to a document that can be used for the National Land Agency's official sporadik titling procedure. Sporadik has different meanings at different scales: at the village scale, the document is a land title that provides security of tenure; at the national scale, the National Land Agency considers it to be one of many documents required when applying for a land title through the *sporadik* titling procedure (Figure 3.4).

The sporadik village-scale certification process is facilitated by the neighborhood head (Ketua Rukun tetangga (RT)), who organizes the certification process and appoints a team that usually consists of landowners of adjacent plots and village elders; in some cases, the head of the hamlet, village secretary and customary leaders are also involved. The team approves the plot size and borders, and verifies that no other party claims it. Once the team has approved

Table 3.4 Village	Table 3.4 Village-scale land titles used in th	e study villages			
Land title	Used in:	Scope	Authorities involved	Issued within DEFINE analog	Scale of regulation

				REDD+ project	
Surat Keterangan Tanaman Tumbuh (SKTT)	Bungku	Certifies cultivation rights/rights to plantings	Village head and village secretary	Yes, Harapan Rainforest	Village
Surat Warisi	Kampung Laut	Certifies land inheritance	Village head	No information	Village
Surat Jual Beli	Bungku, Seponjen	Certifies land transactions	Neighborhood head (Ketua RT)	No information	Neighborhood (RT)
Surat Tanah Hak Milik	Bungku	Certifies land ownership	Village head	Yes, Harapan Rainforest	Village
Segel	Kampung Laut	Certifies land ownership; precursor of <i>sporadik</i>	Village head	No information	Village
Sporadik Desa	Air Hitam Laut, Bungku, Seponjen, Kampung Laut, Tanjung Lebar	Certifies land ownership; entered into village land registry	Village head, neighborhood head (Ketua RT), and/or head of drainage canal (Ketua Parit)	Yes, Harapan Rainforest and Berbak Carbon Initiative	Village
Sporadik Kecamtan	Seponjen	Certifies land ownership; entered into village land registry	Sub-district head (annat), village head, neighborhood head (Ketua RT), head of drainage canal (Ketua Parit)	°Z	Sub-district

(Source: compiled by the author)

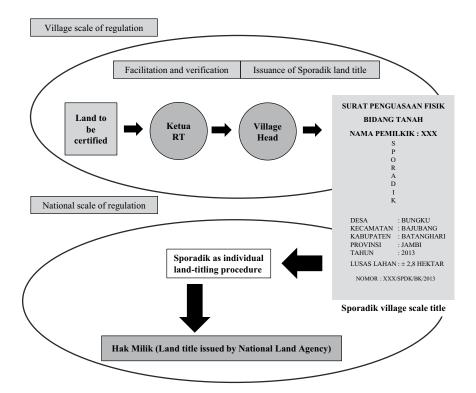


Figure 3.4 Village-scale land-titling in the villages and the changing meaning of sporadik across scales

(Source: compiled by the author)

the ownership rights, the village head issues the *sporadik* title. This certification procedure is quite similar in the various villages. The Bungku village government, for instance, issues sporadik land titles also for plots in state forests and even for plots in the Harapan Rainforest (c.f. Mardiana, 2014: 42). In Seponjen, two types of sporadik titles are in use: titles issued by the village government and those jointly issued by the head of the sub-district (camat) of Kumpeh and the village government. Both types are considered to be equally strong, and both can be used as collateral for bank loans and the formal land-title application process. 91 The titles issued jointly by the sub-district head and the village government might reflect Bugi migrants' higher expectations of formalized land titling. As newcomers, Bugis do not belong to local kin networks that provide access to land and tenure security (c.f. von Benda-Beckmann and von Benda-Beckmann, 1999: 18). They are, therefore, interested in getting strong land titles. The document might also be traced back to the role of the pasirah in the margas of Berbak and Kumpeh, who allocated drainage and forest conversion permits to Bugi migrants. The position of a *Pasirah* and the administrative unit of a *marga* were abolished through administrative reforms and replaced by the *kecamatan* (sub-district), in which the *camat* replaced the *Pasirah*. At least officially, the *camat* has no authority over land. However, as the sub-district's highest public authority who supervises village heads and the *Pasirah*'s successor, his signature might help to increase the legitimacy of *sporadik* titles.

Counter territories and settlement schemes prior to the formation of the Harapan Rainforest project

As mentioned, during the period of political turmoil local public authorities, mainly village and district governments, started to reclaim the state forest territory and organized forest conversion, settlement formation and village expansion. Before the start of the Harapan Rainforest project in 2010, at least four settlements were established within today's project area (Figure 3.1C, D and Table 3.5). The settlements' formation was facilitated by actor coalitions (Figure 3.5) involving Batin Sembilan elites, members of village governments, and migrants - most of whom were Javanese. The coalitions received support from local investors, members of district and sub-district governments, and peasant organizations such as SPI and STN (Serikat Tani Nasional) (c.f. Hein et al., 2016; Mardiana, 2014; Silalahi and Erwin, 2013). The formation of the settlements of Transwakarsa Mandiri (TSM) (Bungku), Camp Gunung (Bungku), Tanjung Mandiri (Tanjung Lebar), and Sungai Jerad/SPI settlements (Tanjung Lebar) led to the conversion of approximately 14,000 ha of forest in the Harapan Rainforest by 2013 (REKI, 2013). Especially in Bungku, settlement formation has been further legitimized through the issuance of villagescale land titles such as sporadik and SKTT.

The actor coalitions actively reproduced the New Order's development narratives to justify forest conversion and settlement formation in the state forest. Key informants emphasized that the settlements were intended to provide land for landless migrants and agricultural extension services for poor Batin Sembilan families to help them to overcome "backwardness" and achieve "development". 92 The settlement projects mostly provided peasants with land. Regulations developed by Batin Sembilan elites, village governments, and Javanese migrants limit the maximum amount of land per household and stipulate that direct replanting must occur after forest conversion. 93

The regulations incorporate elements of formal state law, such as the Basic Agrarian Law (maximum amount of land) and the Forest Law (prohibition of oil palm cultivation in state forests), and customary regulations (replanting after forest conversion). The institutionalization of the settlements (establishing complex rules) and legal mimicry (c.f. Kunz et al., 2016) (using state language and elements of formal state law) further legitimized the settlements. Moreover, the settlements indicate different forms of scale jumping, for instance, village and Batin Sembilan elites jumped down to the district or sub-district scale to obtain forest conversion permits and circumvent the MoF. For their part, migrants

Table 3.5 Settlements within the Harapan Rainforest

	Transwakarsa Mandiri (TSM)	Camp Gunung	Tanjung Mandiri	SPI Settlements: Sungai Jerad and Bukit Sinyal
Area (ha) Population*	1731 111 households	2073 302 households	6334 At least 1500 households	2500 At least 508 inhabitants (only Bukit Sinyal, no data for Smozi lerad)
Hamlet	Kunangan Jaya I	Kunangan Jaya II	Tanjung Mandiri	Pangkalan Ranjau/Mang- kubangan
Village Sub-district	Bungku Baiubang	Bungku Baiubang	Tanjung Lebar Bahar Selatan	Tanjung Lebar Bahar Selatan
District	Batang Hari	Batang Hari	Muaro Jambi	Muaro Jambi
Local authorities	Village head,	Village head, customary	Village head, customary	Hamlet head and SPI leaders
District authorities	customary leaders Agricultural Agency, Education Agency,	leaders Agricultural Agency, Education Agency,	leaders, <i>camat</i> Agricultural Agency, Education Agency,	°Z
Settlers hold village-scale	Bupati Yes	Bupati Yes	Bupati No	°N
Regulation on max. agricultural land per household	5 ha	No	3 ha	Yes: In 2007 4 ha; now 6–10 ha, depending on household size
Rules for cultivation practices	Direct replanting after conversion	Direct replanting after conversion	Direct replanting after conversion	Oil palm cultivation prohibited, direct replanting after conversion
(Sources: Dinas Kehutanan Kabupaten Batang Hari, 2012; REKI, 2011a, and own investigations, 2013)	ten Batang Hari, 2012; REKI,	2011a, and own investigations, 20	013)	

 [★] The demographic data is questionable, the official data on village population often indicates a much lower population than village-scale data suggests.
 ★★ The actors claim to have received a permit from the Bupati.

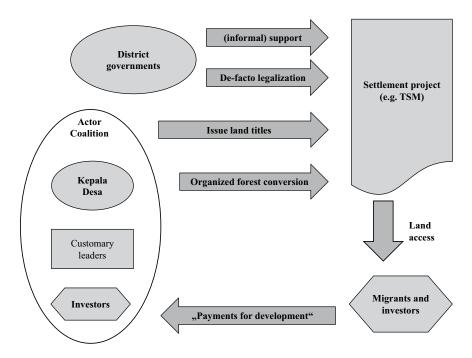


Figure 3.5 Schematic representation of settlement formation in the former PT Asialog concession (now the Harapan Rainforest)

(Source: compiled by the author)

jumped down to the village scale of regulation in order to access land and land titles, thus stabilizing the village scale of regulation.

Transwakarsa Mandiri/Kunangan Jaya I

As outlined in the conceptual framework of this book, national policies structure *in situ* access and property relations and provide them with legitimacy. The formation of the Transwakarsa Mandiri settlement in the hamlet of Kunangan Jaya I of Bungku village can be considered as mimicry of the national transmigration program (c.f. Kunz et al., 2016). A mimicry of policies, legal procedures and narratives was used to legitimize and justify settlement formation and forest conversion (Hein et al., 2016; Kunz et al., 2016). The settlement name, Transwakarsa Mandiri (TSM), directly refers to the earlier central-state *Swakarsa* program, a sub-program of the transmigration program. The New Order era *Swakarsa* program provided subsidies to relocate landless migrants from Java, Madura and Bali, as well as land titles from the National Land Agency (Fearnside, 1997: 555). However, the TSM settlement in Bungku has no official connection to the *Swakarsa* program.

The TSM settlement was founded in 2004 by a Batin Sembilan leader living in Muaro Bulian, the district capital, a Javanese teacher named Pak Kumis⁹⁴ and a former Bungku village head. The latter had married into a Batin Sembilan family and claims to represent formal village and customary authority. First, the three leaders requested a permit from the PT Asialog logging company, which was refused, as the company argued that such matters were the MoF's purview. However, the three leaders never received a formal permit from the MoF, or from the forest agency of the district of Batang Hari, or from a transmigration authority.95 Nevertheless, Pak Kumis claimed: "[...] We received a permit from the district head to plant rubber". 96 While it is impossible to verify his claim, it does appear likely that district officials supported the forest conversion and settlement formation since the Agricultural Agency and District Education Agency later de facto legalized the settlement. The Agricultural Agency provided agricultural extension services, such as allocating fertilizer, soy and corn seeds for the settlers. Today, the operational support that the settlement's elementary school receives from the District Education Agency further legitimizes the settlement.⁹⁷ The village government of Bungku issued village-scale land titles (sporadik and SKTT) to legalize individual land claims.

According to the settlers I met, the TSM settlement had three objectives which were perfectly in line with the objectives of the official transmigration program and with those of the program for underdeveloped villages. The settlement provided land, welfare and employment for poor and landless peasants and aimed to support poor Batin Sembilan households. Pak Kumis said, "In 2004, we requested land for a farming group to support 52 Batin Sembilan households, building houses for them, educating them". ⁹⁸ The programs also aimed to sedentarize the Batin Sembilan and teach them "modern farming techniques" which would help them to achieve "development". ⁹⁹ As in the formal transmigration program, migrants participating in the TSM program were supposed to act like model farmers, thereby convincing the "backward" Batin Sembilan to abandon shifting cultivation. However, few Batin Sembilan families were able to participate in the program. ¹⁰⁰

To access land, migrants had to pay a development or administrative fee of approximately IDR 700,000–1,000,000 per ha (equivalent to US\$ 55 to US\$ 80). Households were allowed to own a maximum of 5 ha of cropland. The development or administrative fee was intended to finance the settlement's infrastructure, including roads, electricity supply, housing for Batin Sembilan, and an elementary school. The organizers of the TSM settlement used the term "development fee" to obscure the fact that land was actually being sold. Participating settlers reported how Pak Kumis promised them that, as in many transmigration settlements, a plantation company would develop a smallholder scheme 101 – but no plantation company ever started to operate there.

In 2007, the District Forest Agency and the forest police intervened. Pak Kumis was arrested for illegal logging and convicted by the Muaro Bulian district court to a prison sentence of one year. In 2010, the PT REKI conservation company received a conservation concession that overlapped the TSM

settlement. The community's request to exclude the settlement from the state forest and from the conservation concession was refused by the Provincial Forest Service. ¹⁰² A detailed description of the subsequent land conflict involving the settlers, forest service, and the Harapan Rainforest project is given in Chapter 5.

Camp Gunung/Kunangan Jaya II: land for second-generation transmigrants

Camp Gunung is the second forest conversion and organized settlement project initiated by the government of Bungku village and Batin Sembilan elites that challenges the integrity of the Harapan Rainforest project. Like the TSM settlement, Camp Gunung predated the Harapan Rainforest project. PT AAS (PT Agronusa Alam Sejahtera) and PT REKI received their concessions in 2009 and 2010, respectively, and with the support of the police began to campaign against the settlers – in a way reminiscent of the TSM case (more details in Chapter 5).

Camp Gunung is part of the hamlet of Kunangan Jaya II (part of Bungku village), and is located in a border triangle in the state forest between PT REKI's conservation concession (Harapan Rainforest) and the timber plantation concessions of PT Wanakasita Nusantara and PT AAS. Formed between 2002 and 2004, Camp Gunung can be traced back to the deceased Batin Sembilan leader, Pak Yamin Almarhum and to the former village head of Bungku. ¹⁰³ The village government permitted forest conversion within the former PT Asialog concession and supported the settlement's formation financially.

A key informant explained that Pak Yamin Almarhum had a land conversion permit from the district government of Batang Hari. ¹⁰⁴ As in the TSM case, it is impossible to verify this claim, but in the early 2000s, district governments did indeed commonly issue forest conversion permits (c.f. Barr et al., 2006: 2). Later, the settlement was legalized de facto through agricultural extension services provided by the Agricultural Agency of the District of Batang Hari, and also by the establishment of a school and a kindergarten financed by the Education Agency of the District of Batang Hari. ¹⁰⁵

From the late 1990s to the early 2000s, Bungku became an important destination for second-generation, mostly Javanese, transmigrants from the Batang Hari Delta transmigration settlements of Nipah Panjang and Ranto Rasau in the district of Tanjung Jabung Timur. ¹⁰⁶ Pak Yamin Almarhum facilitated land transactions between migrants and Batin Sembilan families, and offered 5 ha parcels of land for IDR 750,000. ¹⁰⁷ As in the case of the TSM, the payment was considered to be a development and infrastructure fee, not payment for land. ¹⁰⁸ The village government of Bungku and Pak Yamin Almarhum organized the construction of roads and bridges, as well as a school, mosque and rice mill. ¹⁰⁹

Tanjung Mandiri: migrants as model farmers and conflictive boundaries

Tanjung Mandiri is the largest settlement in the Harapan Rainforest. Forest conversion and settlement formation started there in 2003; activities intensified

in 2006 with the construction of houses and the establishment of the first plantations. Today, the settlement is one of five official hamlets of Tanjung Lebar. Like Camp Gunung and the TSM settlement, Tanjung Mandiri grew out of agreements involving customary elites and local branches of the government, in this case the village government of Tanjung Lebar and the sub-district head (*camat*) of Sungai Bahar.

As in Bungku, the former village head of Tanjung Lebar, a Javanese migrant who had married into a Batin Sembilan family, claimed to represent both customary and village authority. The Tanjung Mandiri settlement, and especially the way in which the Tanjung Lebar village elites framed and legitimized it, has a lot in common with the TSM settlement of Bungku. Key informants in Tanjung Mandiri framed the settlement project as a "win-win" situation for migrants and the Batin Sembilan. Village elites in Tanjung Lebar also reproduced the narratives used by the New Order regime to legitimize the transmigration program and argued that Batin Sembilan would benefit from the commercial farming techniques introduced by migrants. 111 A key informant explained that Tanjung Mandiri "[...] is based on an agreement between SAD¹¹² and migrants with the aim of developing the SAD that have not understood how to farm yet. The settlement project provided the opportunity to meet migrants with modern farming techniques so they can work together on the land that was already used by their ancestors". 113 Village and Batin Sembilan elites described Tanjung Mandiri as a settlement project jointly organized by Batin Sembilan and migrants. A settler explained: "[...] The settlement was organized by Pak Adin¹¹⁴ acting on behalf of the SAD. Without involvement of the SAD, we would not have dared to settle here because it is part of their land. He [Pak Adin] organized from the beginning that people settle here". 115

Land settlers had to pay a "measurement fee" to access land. As in Bungku, key informants stressed that the land as such was gratis. The measurement fee and settlers' additional voluntary contributions were used for infrastructure development, especially to construct a school, village hall, mosque and church. The first settlers received 2 ha of cropland and 1 ha for a house, yard and garden. Settlers were not allowed to own more than 3 ha of land, and land had to be planted immediately after forest conversion. ¹¹⁶

Today, the settlement has been de facto legalized by the Education Agency of the District of Muaro Jambi, which supports its school. ¹¹⁷ In 2011, the head of the Muaro Jambi district strengthened the settlers' position by celebrating the traditional rice harvest festival in Tanjung Mandiri and promising that the settlement would no longer be part of the Harapan Rainforest. ¹¹⁸ However, a district head has no formal authority to reclassify state forest, and the area is officially not even part of the district of Muaro Jambi. According to MoF maps, the Harapan Rainforest concession is located in the village of Bungku in the district of Batang Hari and not in the district of Muaro Jambi. Nevertheless, the northeast of the Harapan Rainforest concession is part of customary land (wilayah adat) belonging to Batin Sembilan of Tanjung Lebar, which has been part of Muaro Jambi district since 1999. Consequently, most settlers identify as being from Tanjung Lebar – not from Bungku. ¹¹⁹ Batin Sembilan from Bungku

and the village government of Bungku question the land claims of the Batin Sembilan of Tanjung Lebar. Batin Sembilan in Bungku accuse Batin Sembilan elites in Tanjung Lebar of selling land that traditionally belongs to groups from around Bungku. ¹²⁰

Agrarian reform through land occupation

The SPI settlement project is located south of the pre-colonial hamlet of Mangkubangan/Pangkalan Ranjau and can be considered as being part of the organization's multi-scalar campaign for agrarian reform (see Chapter 5). The settlement is the most recently founded settlement, and the most contested settlement in the Harapan Rainforest concession (Hein and Faust, 2014; Hein et al., 2016). An SPI activist claimed that SPI members have been present in the area since the late 1990s. ¹²¹ One of the first SPI members to live in the area was a teacher who had married into a Batin Sembilan family and who swapped a motorcycle for land from the *Temenggung* Seman who controlled the area around Sungai Jerad. ¹²² *Temenggung* Seman and the teacher were also involved in initiating the SPI settlements. The formation of the SPI settlements started in 2007 after SPI's flag was symbolically hoisted in the presence of the hamlet head of Mangkubangan/Pangkalan Ranjau. However, some members of the village government complained that SPI started the settlement project without having formally asked the village head. ¹²³

As in the other village-scale settlement projects, reference was made to the transmigration program. The head of an SPI basis argued: "During the Suharto era we had the transmigration program paid by the government: trillions had been paid by the government for transmigration. Today it's different [...]. Today farmers like us, we have the problem that we do not have an official permit from the government". ¹²⁴ In 2013, the area claimed by the SPI in encompasses more than 2500 ha of PT REKI's concession and has as many as 18 smaller settlements, each inhabited by up to 40 households. Recent numbers claim that SPI occupies 17,000 ha (Jambipos Online, 2017).

The settlements have a complex institutional structure established by SPI, which has divided its territory into blocks of land of 50 to 60 ha, with each block used by approximately ten households. Not all blocks had been converted during field research in 2013. Four to five blocks form a "basis", the lowest level of political organization in the SPI. Each basis is led by an elected head (*ketua basis*) and has 2 ha of collective land that is planted with rubber. To access land, smallholders must have a residence permit issued by the village government of Tanjung Lebar, belong to SPI, be landless, and pay an IDR 300,000 (equivalent to US\$ 25) "measurement fee" for each hectare. Land access is facilitated by the SPI leader of the Bahar region (Mardiana, 2014: 36). Part of the measurement fee goes to Batin Sembilan elites (ibid. 51). SPI leaders claim that they only accept poor and non-commercial farmers, which is hard to verify. A local SPI leader stated: "The poor farmers living in this neighborhood (RT) [...] came to survive. They have nothing outside, 99 percent of

the farmers living here are really poor, they don't have another place of living [...] We don't have capitalist farmers living here [...] Those are the people I know, maybe there are others". 126

SPI permits each household a maximum of 6 ha of land; for larger households, up to 10 ha are permitted. ¹²⁷ SPI leaders stated that a basic rule for all settlements is the three "T" (*tebang, tanam, tumbuh*) rule: forest conversion, planting and growing. ¹²⁸ Around 2010, after PT REKI got the conservation concession, SPI leaders imposed a ban on oil palm cultivation in the settlements. The oil palm ban indicates that SPI leaders are willing to obey the Forest Law (cultivating oil palms is prohibited in the state forest) and the conservation regulations of PT REKI, and to act in line with the global anti-bio fuel and food sovereignty campaigns of LaVia Campesina. ¹²⁹ According to SPI leaders, settlers who violate the oil palm ban are expelled from the organization; settlers who had already planted oil palms are supposed to replace them with rubber.

Initially, the SPI settlement also aimed to provide benefits for Batin Sembilan families. Mardiana (2014: 51) found that Batin Sembilan elites had not fairly allocated the payments received from the SPI to other Batin Sembilan. Most Batin Sembilan families had not benefited from the land transactions. In July 2013, a Batin Sembilan leader living outside the SPI area said that his groups would like to cooperate with SPI to better understand modern farming techniques. ¹³⁰ At the same time, he criticized the rapid expansion and forest destruction caused by SPI members. ¹³¹

Village-scale peat-swamp conversion and settlement schemes in the surroundings of the Berbak Carbon Initiative

Village-scale peat-swamp conversion and settlement projects in the surroundings of the Berbak Carbon Initiative have mainly been developed outside of the state forest, that is, outside areas protected in the Berbak Carbon Initiative. However, some initiatives to convert peat-swamp forests extended into the border of the Berbak National Park. 132 In addition, according to conservationists from the ZSL, the conversion of drained peat swamps adjacent to the Berbak Carbon Initiative also affects the hydrological balance of the swamps within the project area and increases the risk of peat fires. In contrast to the settlement projects in the Harapan landscape, the area used for agriculture within the Berbak Carbon Initiative is rather small, with only a few households living permanently within the protected areas. The sole exception is the district-to-district transmigration settlement in the forest reserve Sekitar Tanjung, established by the Transmigration Agency of Muaro Jambi. In 2008, a district-to-district transmigration settlement for Javanese families was established in Kampung Laut – in the Sekitar Tanjung forest reserve and the Berbak Carbon Initiative. The formation of the transmigration settlement in Kampung Laut started in late 2008, with the district government selecting a location that was part of the Forest Reserve Sekitar Tanjung and the Berbak Carbon Initiative (Figure 3.2C, D). This was thus 84

an ineligible site for a transmigration settlement according to Forest Law, and consequentöy the MoF and Provincial Forest Agency attempted to stop the settlement's formation. ¹³³ Chapater 5 contains a detailed description of this land conflict that involved different state apparatuses and settlers.

Most of the peasants I met in Seponjen, Kampung Laut and Air Hitam Laut said they accept the prohibition on planting crops in the state forest territory, and most village governments considered new forest conversion that violated the borders of the Berbak Carbon Initiative to be illegal. A key informant in Kampung Laut said that the village government refused to issue the documents necessary for an identification card for a household that had settled in Berbak National Park. Nevertheless, especially in Kampung Laut, villagers questioned why the forest reserve remains protected: [...] the forest reserve is for protection, but what do they want to protect? There is no timber anymore and animals cannot live there anymore". 135

It may be that the state forest border is so broadly accepted because after 1985 the release of large areas from the state forest provided enough land for smallholders' agricultural needs. A second explanation could be that converting peat-swamp forest requires large investments that especially Bugi elites were only willing to make if the land's status guaranteed safe returns. A third explanation might be that enhanced law enforcement against illegal logging was initiated by the former president Susilo Bambang Yudhoyono (SBY), preventing the conversion of logged-over forest into agriculture plots. A fourth factor could be that agriculture was traditionally of minor importance for Malay groups in the area; its relevance having only grown very recently. In the past, logging and gathering non-timber forest products were much more important. These activities continue – also within the Berbak Carbon Initiative. 136

I have identified two different types of organized, collective village-scale forest conversion and settlement initiatives in the villages adjacent to the Berbak Carbon Initiative that I studied (Table 3.6). The first is directly associated with the immigration of Bugis from South Sulawesi, and the second is driven by local Malay groups and Javanese migrants.

Bugi colonization around Berbak National Park

In the 1950s, Bugi immigration grew; in the 1960s, the immigrants started to drain and found settlements in the Berbak landscape (Claridge, 1994: 290; Sevin and Benoît, 1993: 102). The village of Air Hitam Laut dates back to a Buginese drainage and settlement initiative. In the 1970s, the *Pasirah* of the *Marga* of Berbak gave the Bugi the right to drain and convert the peat-swamp forest around the mouth of the Air Hitam River. A key informant in the village explained: "The Bugi leader Pak Janggut¹³⁷ obtained the right to drain and convert land from the *pasirah*. Part of the converted land was used to pay the *pasirah* afterwards". ¹³⁸ Pak Janggut, initiator and head of the project was appointed the "head of the river" (*Kepala Sungai*), and sub-divided land received from the *Pasirah* to his clients called "canal heads" (*Kepala Parit*). Usually the plots were

Table 3.6 Organized peat-swamp-forest conversion initiatives in villages adjacent to Berbak Carbon Initiative

	Village of Air Hitam Laut	Dusun¹ Bugis	Ketapang	Farming groups in Seponjen	Farming groups in Kampung Laut
Hamlet Village Sub-district District	All hamlets Air Hitam Laut Sadu Tanjung Jabung Timur	Sungai Lais Seponjen Kumpeh Muaro Jambi	Ketapang Kampung Laut Kumpeh Muaro Jambi	Hamlets I + II Seponjen Kumpeh Muaro Jambi	All hamlets Kampung Laut Kumpeh Muaro Jambi
Initiated in Overlapping the Berbak Carbon Initiative and/	1965 Until 1970s	1996–1997 No	2000 No	1995 Only a few plots	late 1990s Only a few plots
or state forest Local authorities	Pasirah and Bugi elites	Camat, Bugi elites, Malay elites, village	Village head, customary leader, head of farming	Village head, customary leader, head of farming	Village head, customary leader, head of farming group
Tenure arrangement Land access facilitated by	Parit River head and canal head	government Parit River head and canal head	group Tanah adat and parit Head of farming group and canal	group <i>Tanah adat</i> Head of farming group	Tanah adat Head of farming group
District authorities	ı	Land Agency of the district of Batang	Agricultural Agency	1	ı
Settlers hold village-scale land titles Regulation on max. agricultural land per household	Yes No	Yes	Yes 2 ha	Yes 1.25 ha per farming group member	Yes 2 ha per farming group member

1 English: hamlet.

(Source: author's own investigations)

divided by drainage canals. The canal heads were responsible for facilitating the drainage and conversion of the peat swamp in their plots. They also looked for Bugi migrants interested in land and let them convert the forest areas in their plots. A former *kepala parit* in Air Hitam Laut explained that for each 2 ha converted by the migrants he received 0.25 ha, part of which he paid to the river head and the *Pasirah*. ¹³⁹ In total, 24 main drainage canals were planned along the Air Hitam Laut coastline, partly overlapping the Berbak *Wildreservaat* (*Hutan Suaka Alam*). Only ten of these have been realized. ¹⁴⁰ Drainage activities were stopped by the Governor of Jambi¹⁴¹ but drainage canals still impact the hydrological balance of the Berbak Carbon Initiative, increase the risk of peat fires, and facilitate access for loggers and for actors gathering non-timber forest products such as jelutung. ¹⁴²

Many Bugi settlements and forest conversion projects in the Berbak landscape had land tenure arrangements based on various nested authorities, each equipped with a specific scale of regulation. In Seponjen, the hamlet of Sungai Lais, founded in 1997, is characterized by a similar arrangement. Pak Hadji Pattimura, a Malay business man from Seponjen, held a land conversion permit from the land agency of the district of Batang Hari (Dinas Pertanahan Kabupaten Batang Hari). With the Bugi leader Pak Selang and the village government, he organized a peat-swamp conversion and settlement project for secondgeneration Bugi migrants and local Malay households. The leaders received land for investing in the project. 143 As in the Harapan landscape, elders stated that the settlement would contribute to village development and provide land for poor households. 144 Pak Selang acted as river head (Kepala Sungai) and allocated land to 10 canal heads, 145 each of whom was authorized to regulate his own parcel of land. The land was converted by migrants - who again were mainly Bugis. Each migrant received half of the land that had been converted; the other half was divided between the canal and river heads, and Pak H. Pattimura. The land managed by the second and third canal heads was designated for local Malay households. Participating Malay households received all the land they had converted. 146 Many of them later sold it to Bugi or Javanese migrants. The hamlet of Sungai Lais was established approximately two to three kilometers from the borders of today's Berbak Carbon Initiative.

Farming groups for collective forest conversion

In the late 1990s, agriculture became more relevant in Seponjen and Sunga Aur. In addition, immigration of Javanese and Bugis increased. In order to meet rising demand for agricultural land, Malay elites started to convert the forests within the boundaries of their customary village land, called *tanah adat*.

Although this area overlaps the Berbak Carbon Initiative, only a few plots are located in the project area today. However, initially peat-swamp conversion also took place in areas that later became part of the project area. Forest conversion was regulated and controlled by the local Malay elite. Community members who sought land first had to join a farming group. Such groups, each

consisting of 20 to 60 farmers, were led by local Malay elites (the customary head, *ketua adat*) and were supported by the village governments – especially by the village heads. Each participant received approximately 2 ha of land. In the early 2000s, the farming groups in Seponjen legitimized their activities in the state forest territory by referring to community small-scale timber extraction permits from the district government. ¹⁴⁷ Farming groups reduced the cost of converting land for individuals and permitted the conversion and drainage of larger areas. In Seponjen, and from the early 2000s in Kampung Laut, migrants, too, were allowed to access land by joining farming groups. In the Ketapang hamlet (in Kampung Laut), migrants and locals worked together to drain and convert land. Migrants had to pay to participate in farming groups and received the more flood-prone plots.

Summary and preliminary conclusion

State transformation processes induced rescaling processes that altered the dialectical relationship between structure and agency and consequently changed the ability of actors to access land and property. I argue that four subsequent state transformation processes induced rescaling that has altered Indonesia's forest and land tenure governance, namely: colonization, independence, New Order and Reformasi. Each period was characterized by specific land and forest tenure regulations providing different opportunities for actors to access forest and agricultural land. Scaling back, in other words investigating past scalar arrangements, demonstrated that historically contingent structural inequality is a persistent feature of land and forest tenure in Indonesia. Establishing the state forest territory can be considered as an attempt to strengthen territorial control and to promote and privatize the exploitation of forest resources and the expansion of agro-industrial estates, and recently even of protected areas. The Reformasi and the post-reformasi era provided additional agency for marginalized actors to construct alternative scales of meaning and regulation.

Three, at least partly contradictive, state projects of the post-colonial period influenced the scalar configuration and related access and property relations. First, the Basic Agrarian Law (BAL) as the first attempt to establish a new national scale of natural resource governance promoted (probably not intentionally) the commodification of land but, at the same time, imposed restrictions on large landholders and proposed land reform. Today, the BAL is relatively weak in legal terms but is still used – especially by peasant organizations such as SPI and KPA – to underpin political campaigns for a more equal distribution of agrarian resources (Bakker and Moniaga, 2010: 188; Hein and Faust, 2014: 25; Rachman, 2011: 54). Second, the Basic Forest Law has led to a reestablishment of the dualistic governance structure, fostering the dispossession of local and indigenous communities and seeking to construct private–sector–led economic growth as a new national scale of meaning. Third, the Village Law has further undermined traditional *adat*–based scales of meaning and regulation. Moreover,

the law has imposed new jurisdictional boundaries and created a standardized and homogenous administrative structure across the archipelago.

Land tenure in the landscapes around the two REDD+ projects is contested and this can be considered as one of the main causes for the conflicts that are described in Chapter 5. An important reason for the contestation of property rights are competing authorities. Overlapping and competing property rights (e.g. property rights legitimized by village governments versus those backed by the MoF) indicate conflicts between different state apparatuses and struggles over the constitution and the legitimacy of public authorities. Overlapping and contradictive land and forest tenure shows that what members of society consider to be legitimate property rights change over time and are subject to historically contingent and ongoing societal struggles over concepts and truth (Sikor and Lund, 2010: 6). National laws and regulations structure access and property relations. However, local public authorities strategically follow those laws that support their own interests, explicitly ignoring others. The construction of village scales of meaning and land tenure regulation can be considered as active scalar resistance strategies.

My investigation indicates that access and property relations are explicitly linked to specific scalar arrangements (Table 3.7). Pre-colonial scales of regulation relevant for access and property relations were based on watersheds controlled by specific lineages. In the Harapan landscape, the *Depati* and the *Temmenggung* were responsible for land tenure issues within specific watersheds, and kin relations regulated access to land and property. Rescaling induced by Dutch colonization changed the scalar structure and led to the establishment of a new authority (*Pasirah*) that was in charge of recognizing land claims for the local population, challenging kinship-based property relations. Indonesian independence and the formation of the Indonesian nation state have diversified access and property relations. Central state apparatuses constructed a national

Table 3.7 De facto access and property relations in the REDD+ project regions

REDD+ project region	Access and property relations
Harapan Rainforest	Customary arrangements (customary authority and adat)
•	Property rights backed by village officials
	Property rights backed by private actors (conditional land tenure/Harapan Rainforest)
	National-scale regulation (including transmigration)
Berbak Carbon Initiative	Parit system (Bugi colonization)
	Property rights backed by village officials
	Provincial-scale regulation (conditional land tenure/Berbak Carbon Initiative)
	National-scale regulation (including transmigration)

(Source: author's own investigations)

scale of meaning and regulations based on national development and narratives about economic growth in order to allocate exploitation and cultivation rights to corporate actors. Corporate actors actively reproduced the national scale of meaning and regulation by requesting these rights from national-scale authorities, such as the MoF. As a national scale of meaning and regulation, the state forest territory significantly reduced the abilities of peasants and indigenous groups to access land and property.

The socio-spatial configuration changed again after Suharto. Village governments, local elites, and customary leaders constructed new village scales to regulate access to land and property. These new village scales have in turn been reproduced by peasant farmers and especially by rural migrants who request land and village-scale land titles. Village scales of regulation – property rights that are based on unwritten village-scale tenure regulations – most notably overlap with the Harapan Rainforest, challenging the project's integrity and inducing land conflicts. Village governments, local elites, and customary leaders have not only legitimized individual land claims but – supported by district-scale state apparatuses – have also formed larger-scale settlement projects that actively reproduce central state resettlement programs and development discourses (e.g. transmigration). Local public authorities translate and reinterpret central state policies and regulations to underpin the legitimacy of their actions (legal mimicry) and combat historically contingent structural inequality.

To further unpack the various abilities of actors to access land and property, it might be helpful to engage more explicitly with power asymmetries. Political ecologists argue that unequal power relations help to explain uneven access to natural resources, including land (Blaikie, 2012; Bohle and Fünfgeld, 2007; Bryant, 1998; Forsyth, 2008). I argue that the ability of different actors to access land and property is mediated by the three dimensions of power (visible, hidden and invisible) (Gaventa, 2006; Lukes, 2005), as outlined in my conceptual framework. The indigenous Batin Sembilan, rural migrants, elites, village governments, and companies such as PT REKI are differently positioned with regard to the three power dimensions.

In general, peasant farmers – including indigenous groups in the study villages – are poorly positioned with regard to the three dimensions of power. They hold fewer material resources than did corporate actors (e.g. less land), often have no land titles from BPN, and are excluded through institutional procedures and regulations (Forest Law 41/1999). Invisible power, or the social construction of meanings or indirect power (Gaventa, 1982: 15) and the internalization of subordination (ibid. 16), further marginalize peasant farmers and indigenous groups. The social construction of the backward shifting cultivator by the New Order regime also contributed to their marginalization.

After Suharto's fall, village governments and Malay and Batin Sembilan elites were able to significantly expand their authority and establish new village scales to regulate access and property (hidden power). Village governments gained power by using the symbols and language of the state. They

control land in alliance with Malay or Batin Sembilan elites and can allocate land, one of most important means of production in rural landscapes (visible power). Batin Sembilan elites in particular were able to significantly change the rules of the game by reintroducing customary regulations and making land claims based on social identity (hidden power). The Batin Sembilan elites' ability to change the rules of the game to their benefit was facilitated by their position in the invisible dimension of power. The rise of global discourses on indigeneity and the emerging indigenous rights movement may have changed the social construction of indigeneity from being associated with "backwardness" to being associated with "rights". It thus provided the opportunity to frame land and forest as indigenous territories or customary land (wilayah adat). Most migrants interviewed in both regions did not question the authority or land claims of local and indigenous communities. Social identity has become a relevant source of power in both landscapes, to the benefit of Batin Sembilan and Malay elites.

On the one hand, migrants benefitted from alliances with Batin Sembilan elites because of Batin Sembilan land resources, while on the other hand, Batin Sembilan elites engaged with migrants in response to the social construction of the backwardness of shifting cultivators fostered by the Suharto regime. Interethnic marriages helped the Batin Sembilan to benefit from migrants' social capital. Moreover, the alliances provided significant benefits for both parties, especially a better positionality in regard to the visible and invisible dimensions of power. However, those Batin Sembilan that were not part of the elite of the indigenous group, obviously most of them, have been even further marginalized because they were neither able to claim and allocate land (visible power) nor to benefit from the altered notion of indigeneity.

The changed power balance of post-Suharto Indonesia – caused by shifting relationships between structure and agency – provided the opportunity for open peasant resistance (see Chapter 5). SPI members in the Harapan Rainforest significantly benefitted from their alliances with Batin Sembilan elites. The ability to allocate material resources (land) increased the organization's attractiveness, and probably increased its organizational strength as well as its ability to occupy large parts of the Harapan Rainforest (Hein et al., 2016) (Figure 3.6).

The complex and conflictive access and property relations and tensions and contradictions between de jure and de facto land tenure described in this chapter are the dynamic context for the implementation of REDD+ and other market-based conservation instruments, such as conservation concessions discussed in the next chapter. These new conservation instruments challenge the different village-scale settlements located in the state forest territory and in areas that became REDD+ projects later on. Moreover, REDD+ has triggered the formation of a new transnational scale of forest governance and has strengthened the role of private actors in forest, climate and environmental governance.



Figure 3.6 Picture of area used for shifting cultivation inside the Harapan Rainforest (Source: taken by the author, 2013)

Notes

- 1 In other sources, the term *Batin* refers to the leader of semi-nomadic, non-Muslim forest dwellers and not to a specific ethnic group (Andaya, 1993: 14).
- 2 Kubu is a derogatory term for many non-Muslim nomadic and semi-nomadic tribes used by the Malay population and colonial authorities on Sumatra.
- 3 The pangeran ratu was chosen by nobles and was in charge of most government affairs (Locher-Scholten, 2004: 45).
- 4 The *domein verklaring* is mentioned in article 1 of the *Agrarisch Besluit* of 1870. In the Basic Agrarian Law of 1960, the Dutch terms is translated as follows: General Declaration that lands belong to the state.
- 5 The "outer islands" refer to all Indonesian islands except Java, Bali and Madura, which are called the "inner islands".
- 6 Adat: According to David Henley and Jamie S. Davidson (2007: 1) the Indonesian term adat refers to custom or tradition, including notions of order and consensus. The term adat is often used for customary law and the term adat rights is often used to legitimize land claims based on customary law, in other words land claims not based on colonial or formal state law (ibid.)
- 7 Despite the establishment of a Sumatran forest service with specific management territories, state forest management in Sumatra remained unspecific and forests remained largely under the authority of local rulers (Barr, 2006: 19–20; Nurjaya, 2005: 46). After independence Jambi initially became part of a newly formed province of Central

- Sumatra consisting of West Sumatra, Riau and Jambi (Dinas Komunikas dan Informatika Provinsi Jambi, 2013). In 1957, Jambi became an autonomous province.
- 8 Interview with a staff member of the Sajogyo Institute, Bogor, 08.10.2013.
- 9 Interview with a key informant in Tanjung Lebar, 22.07.2013 and interview with a staff member of Sajogyo Institute, Bogor, 08.10.2013.
- 10 SK. HPH No. 408/Kpts/Um/9/1971 tanggal 23 September 1971 tentang Pemberian Hak Pengusahaan Hutan kepada PT. ASIALOG, Decision of the Ministry of Forestry to allocate a logging concession to the company PT Asialog, own translation) (Menteri Kehutanan, 1995)
- 11 No detailed information available, according to a key informant in Tanjung Lebar the company received a logging concession in 1974, 27.07.2013.
- 12 Neighborhood units were not mentioned in the Village Law, they were introduced in 1983 through an additional decree from the Ministry of Home Affairs (Warren 1990: 3).
- 13 Refers here to the customary land of indigenous communities.
- 14 Interview with a key informant in Air Hitam Laut, 29.09.2102.
- 15 Interview with a key informant in Air Hitam Laut, 30.09.2012 and a key informant in Kampung Laut, 30.08.2013. Land allocation by village heads is officially not backed by village law but in practice many village heads are involved in issuing different types of land-use permits.
- 16 Reformasi refers to the democratization period after President Suharto announced his resignation on 21 May 1998.
- 17 During 1976–1989, 10 percent of the transmigration budget was covered by the World Bank (Fearnside, 1997: 6).
- 18 Interview with a key informant in Tanjung Lebar, 25.07.2013.
- 19 Interviews with a key informant in Kampung Laut, 29.08.2013 and with a staff member of Dinas Kehutanan Provinsi Jambi, 27.08.2013.
- 20 The reforestation fund (*Dana Reboisasi*) is a volume-based fee charge on harvested timber to support reforestation of logged-over forest (Resosudarmo et al., 2006: 62).
- 21 Interview with a staff member of the Ministry of Forestry, Jakarta, 23.07.2012.
- 22 According to Governmental Regulation 56/1960, Article 1 the maximum land size permitted per individual depends on the population density and on the type of land (land for wet rice cultivation and dry land). Twenty ha of dry land are permitted in areas with a low population density, in areas with very high population densities, only 6 ha are permitted.
- 23 Interview with the Working Group on Forest and Land Tenure, Bogor, 08.10.2013 and with a staff member of Burung Indonesia, Bogor, 11.10.2013.
- 24 Interview with activists of the NGO PINSE, Sungai Gelam (Jambi) 05.09.2013 and with a staff member of Burung Indonesia, Bogor, 11.10.2013.
- 25 Interview with a staff member of the NGO Amphal, Jambi, 17.07.2013.
- 26 Interview with a GIZ advisor, Jakarta, 24.07.2012, with a Greenpeace Indonesia activist, Jakarta, 27.07.2012, and a Forest Watch activist, Bogor, 20.07.2012.
- 27 Interview with Forest Watch activists, Bogor, 20.07.2012.
- 28 Interview with an AMAN activist, Jakarta, 27.07.2012.
- 29 Interview with an AMAN activist, Jakarta, 27.07.2012.
- 30 Interview with a BPN officer, Jambi, 06.09.2013.
- 31 Also confirmed in an interview with a BPN officer, Jambi, 06.09.2013.
- 32 Interview with key informants, Seponjen, 15.09.2013 and 13.09.2013
- 33 Cited laws and regulations: Makamah Konstitusi Republik Indonesia, 2012; Menteri Kehutanan; 2007; 2008a; 2011; 2014; Ministry of Forestry, 2008; Presiden Republik Indonesia, 1960a; 1960b; 1990; 1997; 1999.
- 34 Interview with a key informant in Tanjung Lebar, 25.07.2014.
- 35 Interview with a key informant in Tanjung Lebar, 25.07.2013.
- 36 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 37 The most recent figure is from 2005.

- 38 The village of Markanding is part of the sub-district of Sungai Bahar, it is located approximately 10 km north-east of Bungku.
- 39 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 40 Interview with a key informant in Bungku, 12.09.2012.
- 41 According to Hidayat (2012: 20-27) there are at least two other versions of a myth of origin of the Batin Sembilan, the second argues that the Batin Sembilan descend from a leader from Palembang (South Sumatra), and the third consists of elements of the first and the second myths.
- 42 Interview with a key informant in Bungku, 12.09.2012.
- 43 The position of the Temenggung existed among the Orang Rimba of the Dua Belas landscape (Steinebach, 2013a: 49-50), the extent to which the position of the Temenggung was known among the Batin Sembilan in colonial and pre-colonial times is at least debatable, argues Steinebach (forthcoming). Probably, the Batin Sembilan only very recently started to call their leaders Temenggung.
- 44 Interview with a key informant, Bungku, 21.09.2012.
- 45 Interview with a key informant, Bungku, 12.09.2012.
- 46 Interview with key informants, Bungku, 12.09.2012 and Tanjung Lebar, 21.07.2013.
- 47 Interviews with key informants, Tanjung Lebar, 25.07.2013, Tanjung Lebar, 25.07.2013.
- 48 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 49 Interviews with key informants in Bungku, 12.09.2012 and 09.07.2013 and in Tanjung Lebar, 23.07.2013.
- 50 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 51 Interview with a key informant in Tanjung Lebar, 23.07.2013.
- 52 Interview with key informants in Tanjung Lebar, 26.07.2013 and 27.07.2013 and in Bungku, 08.09.2012.
- 53 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 54 Koompassia excels, a specific tree species that is often used by wild bees for beehives.
- 55 Interview with key informants in Bungku, 12.09.2012 and 21.09.2012.
- 56 Interview with a key informant in Bungku, 12.09.2012.
- 57 Interview with a key informant in Bungku, 30.07.2013.
- 58 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 59 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 60 Interview with a key informant in Tanjung Lebar, 25.07.2013.
- 61 Interview with a key informant in Bungku, 24.08.2013.
- 62 Interview with a key informant in Bungku, 08.09.2012.
- 63 Bugi migrants have conducted larger-scale land drainage across Sumatra's east coast. According to Hanson and Koesoebione (1979, cited in Claridge, 1994: 292) Bugis converted as much forest as the government led-initiatives in the period from 1969–1973.
- 64 Interview with a key informant in Air Hitam Laut, 28.09.2012.
- 65 Fictitious name.
- 66 Interviews with key informants in Kampung Laut, 28.08.2013 and 01.09.2013.
- 67 Interview with key informants in Seponjen, 10.09.2013 and 12.09.2013.
- 68 Interview with a key informant in Seponjen, 12.09.2013.
- 69 Interview with a key informant in Kampung Laut, 31.08.2013.
- 70 Interview with key informants in Kampung Laut, 30.08.2013 and Seponjen, 13.09.2013.
- 71 Interview with a key informant in Seponjen, 11.09.2012.
- 72 Interview with a key informant in Seponjen, 13.09.2013.
- 73 Interview with a key informant in Kampung Laut, 30.08.2013.
- 74 Interviews with key informants in Kampung Laut, 30.08.2013, 31.08.2013 and 01.09.2013 and in Seponjen, 08.09.2013, 09.09.2013 and 13.09.2013.
- 75 Interview with a key informant in Bungku, 08.09.2012.
- 76 "Orang Kubu" refers here to the Batin Sembilan.
- 77 Daemonorops.
- 78 Interview with a key informant in Bungku, 16.09.2012.

- 79 Interview with a key informant in Bungku, 08.09.2012.
- 80 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 81 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 82 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 83 Interview with a key informant in Bungku, 08.09.2012.
- 84 Interview with a key informant in Bungku, 10.09.2012.
- 85 The land prices are difficult to compare and were paid in different years with different US\$-IDR exchange rates. The exchange rate during the last ten years fluctuated between 8455 IDR (2011) and 14120 IDR (2015) for 1 US\$.
- 86 Interview with a key informant in Bungku, 10.09.2012.
- 87 Interview with a key informant in Bungku, 16.09.2012.
- 88 Interview with a key informant in Bungku, 12.09.2012.
- 89 Interview with a key informant in Kampung Laut, 31.08.2013.
- 90 Interviews with key informants in Kampung Laut, 01.09.2013, 02.09.2013 and in Seponjen, 10.09.2013 and 15.09.2013.
- 91 Interview with a key informant in Seponjen, 08.09.2013.
- 92 Interview with a key informant in Bungku, 09.09.2012 and 10.07.2013.
- 93 Interview with key informants in Bungku, 09.07.2013 and in Tanjung Lebar, 21.07.2013 and 27.07.2013.
- 94 Fictitious name.
- 95 Interview with a key informant in Bungku, 10.07.2013.
- 96 Interview with a key informant in Bungku, 09.09.2012.
- 97 Interview with a key informant in Bungku, 10.07.2013.
- 98 Interview with a key informant in Bungku, 10.07.2013.
- 99 Interview with a key informant in Bungku, 24.08.2013.
- 100 Interview with key informants in Bungku, 10.07.2013 and 23.08.2013.
- 101 Interview with a key informant in Bungku, 23.08.2013.
- 102 Interview with a staff member of Dinas Kehutanan Provinsi Jambi, 19.09.2012.
- 103 Interview with key informants in Bungku, 14.09.2012 and 09.07.2013.
- 104 Interview with a key informant in Bungku, conducted by Stefanie Steinebach.
- 105 Interview with a key informant in Bungku, 09.07.2013.
- 106 Interview with a key informant in Bungku, 11.09.2012.
- 107 Interview with a key informant in Bungku, 11.09.2012, 14.09.2012 and 09.07.2013.
- 108 Interview with key informants in Bungku, 11.09.2012.
- 109 Interview with a key informant in Bungku, 11.09.2012, 14.09.2012 and 09.07.2013.
- 110 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 111 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 112 SAD, refers to Suku Anak Dalam, a post-colonial and deprecatory term for indigenous communities, in this case the interviewee refers to the Batin Sembilan.
- 113 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 114 Fictitious name.
- 115 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 116 Interviews with key informants in Tanjung Lebar, 27.07.2013.
- 117 Interview with a key informant in Tanjung Lebar, 27.07.2013.
- 118 Interview with key informants in Tanjung Lebar, 27.07.2013.
- 119 Interview with a key informant in Tanjung Lebar, 26.07.2013.
- 120 Interview with key informants in Bungku, 12.09.2012 and 24.08.2013.
- 121 Interview with an SPI activist in Jambi, 12.07.2013.
- 122 Interview with an SPI activist in Jambi, 12.07.2013.
- 123 Interview with key informants in Tanjung Lebar, 25.07.2013 and 27.07.2013.
- 124 Interview with key informants in Tanjung Lebar, 22.07.2013.
- 125 Interview with a key informant in Tanjung Lebar, 21.07.2013.
- 126 Interview with a key informant, in Tanjung Lebar, 21.07.2013.

- 127 Interview with key informants in Tanjung Lebar, 22.07.2013.
- 128 Interviews with key informants in Tanjung Lebar, 21.07.2013 and 22.07.2013.
- 129 Interviews with key informants in Tanjung Lebar, 21.07.2013 and 22.07.2013.
- 130 Interview with a key informant in Tanjung Lebar, 23.07.2013.
- 131 Interview with a key informant in Tanjung Lebar, 23.07.2013.
- 132 The village of Sungai Cemara is not part of the village sample, it is located south of Air Hitam Laut on the coast of the South China Sea. It is very remote and difficult to access.
- 133 Interview with key informants in Kampung Laut, 29.08.2013 and with a staff member of Dinas Kehutanan Provinsi Jambi, Jambi, 27.08.2013.
- 134 Interview with a key informant in Kampung Laut, 02.09.2013.
- 135 Interview with a key informant in Kampung Laut, 29.08.2013.
- 136 Interviews with key informants in Air Hitam Laut, 29.09.2012, in Kampung Laut, 30.08.2013, 01.09.2013 and 02.09.2013 and in Seponjen, 12.09.2013.
- 137 Fictitious name.
- 138 Interview with a key informant in Air Hitam Laut, 29.09.2012.
- 139 Interview with key informants in Air Hitam Laut, 29.09.2012.
- 140 Interview with a key informant in Air Hitam Laut, 29.09.2012.
- 141 Interview with a key informant in Air Hitam Laut, 29.09.2012.
- 142 Interview with a staff member of Dinas Kehutanan Jambi, Jambi 19.08.2013.
- 143 Interview with a key informant in Seponjen, 11.09.2013.
- 144 Interviews with key informants in Seponjen, 11.09.2013 and 15.09.2013.
- 145 Interview with a key informant in Seponjen, 10.09.2013.
- 146 Interviews with key informants in Seponjen, 09.09.2013 and 15.09.2013.
- 147 Interview with a key informant in Seponjen, 10.09.2013.

4 REDD+, privatization and transnationalization of conservation in Indonesia

Private companies and donor governments from the Global North consider forest conservation in the South a cost-efficient option to mitigate climate change. Environmental organizations and public conservation agencies in the South are mainly looking for new options to finance tropical forest conservation. The Indonesian government has initiated a number of governance reforms and established REDD+ pilot provinces in order to be "ready" for foreign investments in carbon conservation. I argue that REDD+ has induced rescaling processes, leading to the emergence of a transnational scale of regulation of forest and land tenure governance. The trading of forest carbon and the allocation of financial contributions from bilateral, multilateral and private donors to governments and forest owners and users requires homogenous rules for land tenure and for the involvement of local communities. Moreover, REDD+ produces a global scale of meaning for local forest conservation efforts since it links place-based forests to the global problem of climate change. It provides entry points for conservationists but also for transnational resistance against offsetting approaches and for climate justice campaigns (Hein et al., 2016).

REDD+ has not only rescaled, it has also transnationalized forest and land tenure governance. The mechanism has strengthened the role of private actors in forest conservation. Private actors have gained influence and authority through implementing conservation projects, and formulating socio-ecological and accounting standards for REDD+ pilot projects and forest carbon offsets. In addition, new forms of hybrid governance (e.g. Pattberg and Stripple, 2008) have emerged where conservation NGOs, private forest carbon standards and companies cooperate in developing rules for and implementing forest conservation initiatives. After years of lobbying and conservationist campaigns led by the Birdlife member Burung Indonesia, since 2008 private actors in Indonesia can apply for conservation concessions within state forest territory.

REDD+ governance and attempts to commodify forest carbon

The growing importance of market-based approaches (such as REDD+) and private actors in conservation can be traced back to the late 1980s and early 1990s. At that time international environmental and development organizations

(such as the World Bank) and environmental NGOs increasingly started to argue that environmental problems, such as climate change and forest and ecosystem loss, were caused either by policy failures (Hein, 2013b; McAfee, 1999, 2012a, 2012b) or by a failure to economically account for externalities (Corbera et al., 2009; Hein, 2013b; McAfee, 2012b). To cope with the prevalent environmental crisis in ways compatible with capitalist development, nature or specific ecosystem services should be internalized into the economic and financial system (McAfee, 2012b: 26). The idea of conserving and commodifying forest carbon to mitigate climate change came up in the late 1980s when the first private companies and NGOs, mainly from the United States, started to engage in forest conservation to offset their emissions voluntarily, thereby creating a market for forest carbon credits (Hein, 2014: 508; Hein and Garrelts, 2014: 320; Hein et al., 2015: 2; Neeff et al., 2009: 8). Forest conservation as a potential threat to economic growth has been transformed to a new profit option through the invention of REDD+, carbon trade and payment for ecosystem service schemes (McAfee, 2012b; McGregor, 2010).

The Kyoto Protocol (KP), agreed on in 1997, introduced the Clean Development Mechanism (CDM) and Joint Implementation (JI) as the first formal emission trading systems permitting the trading of emission rights (Hein, 2014; Hein et al., 2015). The CDM and the JI allow companies to offset their emissions, for instance through investing in reforestation and afforestation projects (ibid). Forest conservation and reducing emissions from deforestation were not covered by the KP because of critique raised by the EU and some NGOs regarding the permanence and additionality of climate mitigation based on terrestrial carbon and forest conservation (Bäckstrand and Lövbrand, 2006: 64; Hein et al., 2015: 2).

In 2005, due to strong lobbying by Costa Rica and Papua New Guinea, the issue of deforestation re-entered the UNFCCC negotiations (Hein et al., 2015: 2). Reintroducing forest conservation into the UNFCCC negotiations helped to find a way out of the dead-end of the Kyoto Protocol (Corbera and Schroeder, 2017: 1). Many countries supported REDD+ because forest conservation was perceived as a very cost-efficient option to mitigate climate change (Stern, 2007). Despite all the criticisms, risks and challenges, REDD+ is still perceived as having lower opportunity costs than phasing-out fossil fuel emissions (Angelsen et al., 2014; Houghton et al., 2015). The idea of REDD+ aligns the interests of different actors in a perfect way, creating momentum for an influential discourse coalition involving those interested in forest conservation (e.g. the big environmental NGOs such as Conservation International and The Nature Conservancy) and those interested in developing carbon markets and options to offset greenhouse gas emissions (e.g. companies such as BP and Intel) (Hein et al., 2015: 2).

Fragmented REDD+ governance

The first official decision of the UNFCCC regarding REDD+ was made during the 13th conference of the parties (COP 13) on the island of Bali, Indonesia. The so-called Bali Roadmap includes a decision (Decision 2/CP.13) on

"Reducing emissions from deforestation in developing countries: approaches to stimulate action" (UNFCCC, 2007). The decision encourages developing countries to "[. . .] undertake efforts, including demonstration activities, to address the drivers of deforestation relevant to their national circumstances, with a view to reducing emissions from deforestation and forest degradation and thus enhancing forest carbon stocks due to sustainable management of forests [. . .]" (UNFCCC, 2007). REDD+ gained further political traction after COP 16 in Cancun, Mexico. The Cancun Agreements invite developing countries to formulate national REDD+ strategies and developed countries to support these actions (UNFCCC, 2010). Moreover, the parties agreed on a set of socio-ecological safeguards for implementing forest conservation initiatives.

In 2013, the parties agreed on the Warsaw Framework for REDD+ at COP 19 in Warsaw. The framework consists of seven UNFCCC decisions. They include rules for establishing forest reference levels, monitoring and verification, and criteria for the disbursement of result-based payments (Horstmann and Hein, 2017: 60). The Paris Agreement signed in 2015 refers to forests in article 5. But the agreement does not include additional rules on how to proceed with REDD+ implementation and finance. However, REDD+ plays a prominent role in the National Determined Contributions (NDCs), which are the national climate strategies under the Paris Agreement (Bhan et al., 2017; Corbera and Schroeder, 2017; Hein et al., 2018b). Most of the countries with tropical rainforest cover, including Indonesia, plan to implement REDD+ policies.

In contrast to the CDM or the Green Climate Fund, which are governed by central management bodies, the governance of REDD+ can be considered highly fragmented (Zelli et al., 2014). REDD+ governance consists of a number of decisions by the UNFCCC and of a diverse set of actors. The UNFCCC decisions provide a relatively broad and legally non-binding political framework (Horstmann and Hein, 2017). The diverse set of actors that implement and finance REDD+ pilot projects and larger country-wide REDD+ projects have mostly developed their own rules and financing mechanisms, only guided by the decisions of the UNFCCC. Private actors such as the Climate Change, Community and Biodiversity Alliance (CCBA) and Verified Carbon Standard (VCS) have developed socio-ecological safeguards and accounting standards that facilitate the trade of carbon credits produced through protecting forests (CCBA, 2018; VCS, 2015). In this context a whole new set of actors has emerged such as forest carbon consultants, experts measuring and counting the carbon content of biomass, and conservation companies setting up proprofit REDD+ projects or using carbon markets to finance existing conservation initiatives. Some of these private REDD+ projects produce carbon credits which can be traded on voluntary carbon markets. Large multilaterals such as the World Bank have established new funding mechanisms like the Forest Carbon Partnership and the Bio Carbon Fund. These are intended to finance forest conservation and support national forest governance reforms to prepare countries for result-based payments and carbon markets. Germany and Norway, for instance, have established their own schemes to finance forest conservation in the Global South. Currently, the International Civil Aviation Organization (ICAO) is considering including REDD+ in its offsetting scheme. This is supported by large environmental NGOs, among others by Conservation International, The Nature Conservancy and the Environmental Defense Fund (Conservation International et al., 2016). The so-called CORSIA (Carbon Offsetting and Reduction Scheme for International Aviation) scheme will also have its own rules and governing bodies (ICAO, 2016).

In a nutshell, REDD+ governance is fragmented and transnationalized. It involves intergovernmental organizations, development banks, national governments and private actors. NGOs, companies and NGO-company hybrids such as the VCS and the Rainforest Alliance increasingly fulfill the traditional role of formal state institutions. They set up conservation rules, provide the regulatory framework for carbon markets, and are involved in rule enforcement (e.g. they conduct audits). Indeed, private actors can withdraw the certification and verification of forest carbon offsets, and – as in the case of the Harapan Rainforest – employ private security to enforce conservation regulations. Furthermore, conservation companies cooperate with governmental institutions in setting up result-based payment initiatives (e.g.VCS cooperates with the Brazilian state of Acre and with a public forest finance fund in Costa Rica (Fondo de Financiamiento Forestal) (Castillo, 2013; Duchelle et al., 2014). In the case of the Berbak Carbon Initiative, the cooperation agreements between the Zoological Society of London and the Provincial Government of Jambi explicitly mention that their project is consistent with VCS and CCBA rules (Dinas Kehutanan Provinsi Jambi, 2013). Thus the provincial government explicitly accepts the regulatory authority of private actors (Hein et al., 2018a: 16).

Contested commodification

REDD+ and forest carbon offsets can be considered as an attempt to assign a price to the ability of forests to store and sequester greenhouse gases (Corbera, 2012). To transform the carbon sequestration services of forests to tradable commodities a number of conditions have to be fulfilled. First, clear property rights to ecosystem services (e.g. the ability of forests and trees to capture greenhouse gases) have to be assigned (privatization) (Castree, 2003: 279–282). Second, ecosystem services have to be exchangeable in order to trade them (alienability) (ibid. 279). Third, ecosystem services should be separated from their supporting context (individuation) (ibid. 280). Fourth, ecosystem services have to be homogenized (abstraction) in order to produce services which are exactly like any other service produced by a forest located elsewhere on the globe (ibid. 281). Fifth, prices have to be assigned (valuation). These rather theoretical steps practically involve several technical steps that are conducted by state agencies (e.g. MoF), carbon consulting companies and forest carbon standard organizations. The starting point is a projection of the amount of greenhouse gases sequestered by the forest ecosystem, including emissions

avoided by conserving the forest ecosystem. The amount of sequestered carbon and the emissions avoided by the project determine the amount of tradable emission permits (Hein and Garrelts, 2014: 320). Emission permits or carbon credits then allow the ability of a forest ecosystem to sequester greenhouse gases to be traded. It actually remains unclear whether the implementation of an international REDD+ scheme for financing forest conservation will require the full commodification of forest carbon. To this day, the commodification of forest carbon remains contested – at the scale of UNFCCC negotiations but, as the conflicts described in Chapter 5 illustrate, also at the village and project scale.

It is still unresolved whether forest conservation should be financed through an emission trading system, result-based aid or traditional aid modalities. The Warsaw Framework for REDD+ leaves the question on how to finance REDD+ relatively open, because countries were not able to agree on whether the mechanism should be eligible for offsetting or should be funded through carbon markets or non-market mechanisms and global funds. Consequently, the Warsaw Framework refers to "appropriate market-based approaches and nonmarket-based approaches [...] to support the results-based actions by developing country Parties (UNFCCC, 2013)". Many existing bilateral and multilateral REDD+ funding programs either support forest governance reforms, REDD+ and conservation pilot projects or they pay for achieved emission reductions (e.g. FCPF Carbon Fund). The German REDD+ Early Mover program pays, for instance, USD 5 per tCO2eq (Kreditanstalt für Wiederaufbau, 2017). In Indonesia, the Norwegian Forest and Climate Initiative first paid for governance reforms and later would also pay achieved emission reductions (Government of the Kingdom of Norway and Government of the Republic of Indonesia, 2010). The German International Climate Initiative (IKI), one of the donors of the Harapan Rainforest project, supports actors who manage protected areas. In the case of the Harapan Rainforest, IKI and Danida advertized their financial contribution by referring to the emission-reduction potential of the conservation project, but do not pay directly for quantified emission reductions (DANIDA, 2012a; Internationale Klimaschutzinitiative, 2015).

Even though only few public initiatives directly assign a price to forest carbon, and the market volume of the voluntary carbon markets remains low, REDD+ has changed the conservation logic (Corbera, 2012). The mechanism creates at least the theoretical opportunity to run pro-profit forest conservation initiatives. Even without fully commodifying forest carbon, REDD+ facilitates access to public and private donors for forest owners. Thus, it can foster arguments such as "no pay no care" (Fisher, 2012), but it might also help chronically underfunded conservation authorities in developing countries to receive support from the Global North. A high-ranking official of Jambi's Forest Service argued along these lines and stated, "We want funding for our four national parks. We want compensation for protecting our national parks from international donors. Our national parks are storing CO₂; industrial countries are emitting CO₂ (Hein et al., 2018a)".

"REDD+ safeguards" and the rights of local and indigenous communities

REDD+ safeguards seek to prevent and mitigate potential negative impacts of REDD+ activities. Safeguards are a set of minimal requirements for REDD+ activities. In addition to protecting communities from potential negative effects, the safeguards should provide security for investments in forest conservation by creating homogenous rules for community participation, benefit sharing and environmental integrity. Safeguards have been used by the World Bank and other multilateral development and environmental agencies for decades (Duchelle et al., 2017; Poudyal et al., 2016). Private actors, such as the Plan Vivo and CCBA, already developed safeguards for forest carbon offsets and REDD+ projects in the late 1990s and early 2000s to facilitate the transaction of forest carbon credits (CCBA, 2018; Plan Vivo, 2017).

Safeguards and rights-based language were avoided in early UNFCCC REDD+ negotiations (Jodoin, 2017: 54). However, this changed a few years later at COP 16 in Cancun, Mexico, where parties agreed on a list of socialenvironmental safeguards. The so-called Cancun Safeguards reflect the ambition to ensure a balance between providing prescriptive rules, accepting national sovereignty and minimizing transaction costs (Jagger et al., 2012: 305). REDD+ activities should "be undertaken in accordance with national development priorities, objectives and circumstances and capabilities and should respect sovereignty" (UNFCCC, 2010). Relevant safeguards referring to the rights of local and indigenous communities are listed in the following (UNFCCC, 2010). REDD+ activities should:

- "be undertaken in accordance with national development priorities, objectives and circumstances and capabilities and should respect sovereignty" (1.e);
- "be consistent with the adaptation needs of the country" (1.h);
- show "respect for the knowledge and rights of indigenous peoples and members of local communities, by taking into account relevant international obligations, national circumstances and laws, and noting that the United Nations General Assembly has adopted the United Nations Declaration on the Rights of Indigenous Peoples" (2.c);
- guarantee "the full and effective participation of relevant stakeholders, in particular indigenous peoples and local communities, in the actions referred to in paragraphs 70 and 72 of this decision" (2.e).

The Cancun Safeguards state that REDD+ interventions should "promote and support" the rights of indigenous communities and "full and effective" stakeholder involvement. However, the formulation of the safeguards is relatively weak, e.g. the decision only "notes" that the UN Declaration on the Rights of Indigenous Peoples (UNDRIP) has been adopted. The decision does not stipulate that any REDD+ intervention must follow the declaration and does not mention free, prior and informed consent (FPIC) explicitly.

As an emerging principle in international law, FPIC dates back to Convention 169 of the International Labor Organization (ILO) from 1989, and was picked up by the Convention on Biological Diversity (CBD) in 1992, by the UN Declaration on the Rights of Indigenous Peoples in 2007, and by FAO in 2012. Today many different interpretations of FPIC exist and no general agreement on its meaning and its implications has vet been achieved (Sargent, 2015: 88-89). Generally speaking, communities that are affected by an intervention (e.g. REDD+) that endangers the survival of the community are entitled to FPIC. Especially entitled are indigenous communities or communities that share common characteristics with indigenous communities (UN REDD, 2013: 11-12). In 2013, UN REDD published guidelines for the application of FPIC in the context of REDD+. The guidelines stipulate FPIC for any REDD+ intervention - especially in cases where indigenous populations have to be relocated, propose the mapping of rights before implementation, and recommend the formulation of national FPIC guidelines (UN REDD, 2013: 22-24). Conducting FPIC might be challenging at the local level and may raise the following questions: who is entitled to FPIC and who represents communities in negotiations with implementing agencies? (Hein and Garrelts, 2014: 327). However, it is important to add that the UN REDD guidelines on FPIC are voluntary and do not form part of any formal UNF-CCC decision.

Three years after the UNFCCC agreed on the Cancun Safeguards the Warsaw Framework for REDD+ further strengthened the safeguards of the UNF-CCC for REDD+ (Horstmann and Hein, 2017). Parties agreed to add that developing parties that seek to receive result-based payments "[...] should provide the most recent summary of information on how all of the safeguards referred to in decision 1/CP.16, appendix I, paragraph 2, have been addressed and respected before they can receive result-based payments" (UNFCCC, 2013). Despite the progress in comparison to earlier UNFCCC agreements, many NGOs and climate justice organizations have criticized the Cancun Safeguards as being too weak, too general and for not having clarified the legal status of the safeguards as such (Lang, 2010; Spiller and Fuhr, 2010). However, the safeguards also reflect the relative success of recent indigenous activism in influencing UNFCCC negotiations on REDD+, in contrast to the negotiations on the Kyoto Protocol and Copenhagen Accord where no references to indigenous rights were made (Ciplet, 2014; Jodoin, 2017). At the UNFCCC scale, the adoption of rights-based language by referring to UNDRIP can be considered as an important success for the indigenous rights movement (Ciplet, 2014 and Jodoin, 2017). At the national and regional scale, indigenous rights organizations such as AMAN (Indonesia), AIDESEP (Peru) and COICAA (Amazon Basin) have gained increased attention and have mostly been successful in lobbying for the inclusion of FPIC in national REDD+ safeguards and REDD+ strategies (Ciplet, 2014; Jodoin, 2017; Zelli et al., 2014). In Indonesia AMAN used the slogan "no rights no REDD+" to lobby for the recognition of territorial rights, while the organization also influenced the development of the

PRISAI (Prinsip, Kriteria, Indikator, Safeguard, Indonesia) REDD+ safeguards (UNREDD, 2012: 18).

Despite recent success, REDD+ is still a contested subject within indigenous communities and indigenous rights organizations. In Colombia, for example, the dispute between groups trying to critically engage and "improve" REDD+ and those rejecting the mechanism was openly discussed at a meeting of indigenous leaders of the Colombian Amazon in March 2017.2 Some participants completely refused attempts to commodify forest carbon, others argued in favor of direct financial benefits for indigenous communities, and a third group tried to use the forum to gain recognition. In contrast, peasant organizations such as the transnational La Via Campesina movement, the Indonesian Peasant Union (SPI), and the Agrarian Reform Movement (Alliansi Gerakan Reforma Agraria, AGRA) strictly oppose REDD+. Moreover, peasants have not been as successful in influencing the UNFCCC negotiations as indigenous groups. The UNFCCC safeguards do not provide much additional recognition for peasants nor do peasants benefit from the inclusion of UNDRIC. In addition, it is worth mentioning that especially in countries that were not impacted by European settler colonialism, such as Indonesia, the entire population can be to some extent be considered indigenous.

Private carbon standards and donor safeguards

Before and after the formulation of safeguards at the scale of UNFCCC, private carbon standards, multilateral REDD+ donors such as UN REDD and bilateral donors such as the German, Danish and Norwegian governments started to develop their own policies to create "no harm". The German bilateral initiatives funded by the BMZ and those funded by Danish bilateral cooperation (DANIDA) are committed to human-rights-based approaches. German and Danish human-rights-based approaches support the UN Declaration on the Rights of Indigenous People, the Convention 169 of the International Labor Organization (ILO) and the implementation of free, prior and informed consent (FPIC) where indigenous communities may be affected (DANIDA, 2011: 3; Schielmann et al., 2013: 26). The Danish government, for example, considers human rights "as means and end in our development cooperation" (DANIDA, 2012b: 2).

The German International Climate Initiative (IKI), which has funded the Harapan Rainforest project, initially had no coherent safeguard policy in place. IKI's funding guidelines only stipulated that implementing organizations have to outline the potential consequences of the project to local and indigenous groups (Schielmann et al., 2013: 27). They have to explain how negative consequences might be avoided or minimized, how the rights of indigenous groups and local communities are respected, how groups are compensated, and how a participatory approach is ensured. The guidelines did not include clear "do no harm guidelines", they did not clarify what is meant by a "participatory approach" and they only stated that existing international standards might be

helpful for project implementation (ibid.). PT REKI has been criticized by various actors for neither conducting FPIC nor other forms of participatory community involvement prior to project implementation.³ Neither were required by IKI. Since 2017 and very likely as a result of the conflicts over the Harapan Rainforest, IKI has incorporated the safeguard approach of the Green Climate Fund (GCF) and the International Finance Cooperation (IFC). Now project implementers have to conduct risk assessments prior to project implementation (Internationale Klimaschutzinitiative, 2017).

REDD+ projects that aim to sell carbon credits on the voluntary carbon markets such as the Berbak Carbon Initiative have to follow certain regulations formulated by transnational carbon standards (e.g. CCBA, VCS, Plan Vivo). Certification according to a carbon standard can be considered a precondition for selling forest carbon credits (Hein and Garrelts, 2014: 321). The Climate Community and Biodiversity Standard (CCBS) was developed by the Climate Community and Biodiversity Alliance (CCBA), CCBA is an organization founded by the NGOs Care, Conservation International, The Nature Conservancy, Rainforest Alliance and the Wildlife Conservation Society, and is supported by the companies BP, Intel, Weyerhauser and GFA Envest (CCBA, 2015). The CCBS provides criteria for assessing REDD+ projects and other forest carbon offsets. Projects certified according to the CCBS should at least create no harm for local communities, and in the best case they should provide benefits for them. Relevant criteria in the second edition of the standard referring to the rights of local and indigenous communities are listed in the following. The project proponents have to:

- "Demonstrate [...] that the project will not encroach uninvited on private property, community property [...] and has obtained the free, prior and informed consent of those whose rights will be affected by the project" (G5.3).
- Demonstrate that the project does not require the involuntary relocation of people or of the activities important for the livelihoods [...]. The project proponents must demonstrate that the agreement was made with the free, prior and informed consent of those concerned and includes provisions for just and fair compensation ("including lands that communities have traditionally owned, occupied or otherwise used or acquired")" (G5.4) (CCBA, 2008 cited in Hein and Garrelts, 2014: 324).

The CCBS stipulates FPIC and recognizes traditionally owned land and land occupied by local communities. CCBS provides far-reaching recognition of local community rights.

Despite, or probably because of, the co-existence of many different approaches towards REDD+ (e.g. UNFCCC, bilateral approaches, voluntary carbon markets), no coherent global or transnational scale of forest governance has yet been formed. The current institutional structure of REDD+ remains fragmented (Zelli et al., 2014: 18). Many different actors, e.g. UNFCCC, donor agencies

and non-state actors such as CCBA, have formulated different standards, rules and safeguards and seek to construct their own scales of regulation.

Indonesian REDD+ governance

The highly fragmented institutional structure of REDD+ at the global scale is also reflected at national and sub-national scales (Indrarto et al., 2012). Especially during Indonesia's REDD+ boom period from approximately 2008 to 2012, Indonesia's REDD+ governance was diverse and fragmented involving various sub-national, national, bilateral, multilateral, private and transnational REDD+ initiatives. In 2012, 37 REDD+ pilot projects were initiated (Forest Climate Center, 2012) and public donor initiatives from 11 countries either contributed or committed more than USD 750 million for the implementation of REDD+ policies. Private sector initiatives (including private foundations and NGOs) contribute more than USD 55 million towards REDD+ and good forest governance in Indonesia (Forest Trends, 2014). Over the period 2002–2012, various German donor initiatives contributed USD 33.4 million directly for the forest sector and an additional USD 81.9 million for general environmental protection, including forestry and climate change (Buergin, 2014: 76)

The province of Jambi, for example, simultaneously became a REDD+ pilot province of the former REDD+ Agency, a low carbon-development pilot province of the National Council on Climate Change, and a REDD+ pilot province of the national greenhouse gas reduction strategy (RANGRK). Within Jambi, the provincial REDD+ Taskforce selected specific pilot districts. At the same time, NGOs and conservation companies in cooperation with external donors and state forest agencies established REDD+ pilot projects and landscape-scale conservation initiatives including the Harapan Rainforest and the Berbak Carbon Initiative (Hein, 2013b: 12–13).

National REDD+ governance

The first domestic Indonesian REDD+ policies were outlined in the MoF "REDDI" strategy (REDD Indonesia) shortly before COP 13 in 2007. The document contains first options for emission and deforestation baselines, monitoring of deforestation and benefit sharing (Ministry of Forestry, 2007). In addition, the strategy outlines initial pilot activities to test different approaches that would help to formalize forest governance through gazettement, law enforcement and land tenure assessments (Ministry of Forestry, 2007: 17, 33). In 2008 and 2009 the Ministry of Forestry issued its earliest REDD+ regulations. The first outlined procedures for the implementation of demonstration activities (Regulation 68/2008) and the second outlined procedures for licensing forest carbon projects in production and conservation forest, including rules for benefit sharing between government, communities and the implementing company (Regulation 36/2009) (Menteri Kehutanan, 2008b, 2009). The third regulation (30/2009) further clarifies implementation procedures. Regulation 68/2008

remains very unspecific and does not even mention communities. Regulation 36/2009 states that implementing agencies have to indicate community benefits to receive a license to implement a REDD+ project (article 6) and have to support community empowerment (article 14). Furthermore, the regulation proposes the use of the existing carbon and social-environmental standards of the voluntary carbon market (e.g. CCBS and Plan Vivo) (article 14), strengthening the private governance of REDD+. However, the regulation did not come into force since the Ministry of Finance opposes it.⁴ Regulation 30/2009 lists criteria for selecting REDD+ pilot sites e.g. data availability, deforestation risks, and the existence of land conflicts (Ministry of Forestry, 2009). At the project scale in Jambi, the different REDD+ regulations did not seem to be very relevant, only ZSL staff argued that the design of a benefit-sharing mechanism for the Berbak Carbon Initiative is pending because benefit-sharing regulations had not come into force.⁵

In 2009, Indonesia signed the Copenhagen Accord as one of the first emerging economies to announce an emission reduction target. The Indonesian government declared that it would reduce its emissions about 26 percent below business as usual by 2020. Two years later, the former President Susilo Bambang Yudhoyono (SBY) enacted Presidential Regulation No. 61/2011, providing a legal framework for Indonesia's mitigation targets. The regulation includes a detailed work plan for emission reductions, called RANGRK (Rencana Aksi Nasional Pengurangan Emisi Gas Rumah Kaca) and refers to mitigation actions that are - in most instances - part of the existing short- and mid-term national development plans. It is planned that 80 percent of the overall emission reductions target is to be achieved through changes in land use (ibid). The policy proposes emission reductions through the development of plantations on degraded non-forest land, through development of timber plantations, through the issuance of additional private ecosystem restoration concessions, through expansion of community forest concessions and through the development of REDD+ demonstration activities in Jambi and Central Kalimantan (Republic of Indonesia, 2011b). RANGRK consists of the above-mentioned national work plan and provincial work plans (RADGRK), which have to be prepared by the provincial governors (Hein, 2013a: 2).

An influential bilateral agreement that explicitly considers ongoing discussions about land tenure conflicts in the context of REDD+ is the Letter of Intent (LOI) between the Norwegian and Indonesian governments on "Cooperation on reducing greenhouse gas emissions from deforestation and forest degradation". The agreement, signed in 2010, consists of three phases, and foresees payments of up to USD 1 billion in the third phase if Indonesia reaches specific mitigation and policy goals outlined in the LOI (Government of the Kingdom of Norway and Government of the Republic of Indonesia, 2010). The LOI forms the legal basis of the agreement. It calls for "full and effective participation" by all stakeholders, including indigenous groups and local communities, and for the development of "[...] appropriate measures to address land tenure conflicts [...]" (ibid.). The development of appropriate measures to solve

land conflicts is listed as one of the official deliverables of the result-based payments agreement, implying at least theoretically that Indonesia will only receive payments from Norway if measures are developed (ibid.). In any case, Norway does not support policy measures aimed at solving land conflicts directly. "The agreement is result based and therefore we do not provide technical assistance for the process" and "[...] we do not use specific social safeguards for the initiative, we draw on Indonesia's domestic safeguards", stated an expert from the Norwegian Forest and Climate Initiative. Other listed deliverables are, inter alia, a two-year moratorium for new conversion concessions within peat and natural forest, the establishment of a special agency directly accountable to the President (REDD+ Agency) and the formulation of a national REDD+ strategy (Government of the Kingdom of Norway and Government of the Republic of Indonesia, 2010).

The moratorium came into force in 2011 and was extended in 2013 and 2015 by the current government under President Jokowi. The moratorium bans new forest and land conversion business licenses (e.g. oil palm concessions) and protects 22.5 million hectares of additional forest and peat land (Murdiyarso et al., 2011). Moreover, the moratorium also fostered the formalization and homogenization of spatial planning processes. The One Map Initiative introduced by the REDD+ Taskforce in 2011 (later upgraded to the REDD+ Agency) to monitor the moratorium is an attempt to develop one reference map for all state agencies (Hein, 2013a). This might reduce the risk of overlapping concessions in the future.

The REDD+ Agency was established in 2013. However, in 2015 the current government closed the agency and integrated REDD+ into the newly formed Ministry for Environment and Forestry (a merger of the Ministry for Environment and the MoF). The national REDD+ Agency was probably an attempt by the Norwegian government to strengthen intersectoral coordination, to circumvent the MoF (Wibowo and Giessen, 2015: 137) and to upscale all REDD+ related policymaking to presidential scale. The agency was a ministerial-level institution established with the aim of supporting the President in coordination, planning and control of REDD+ implementation (Korhonen-Kurki et al., 2017: 67). Consequently, REDD+ was no longer under the authority of the MoF. For some observers, the agency and the national REDD+ strategy led to more transparent and progressive forest governance, e.g. reference to FPIC (ibid). However, the agency was not successful in implementing policies that reduce deforestation and, in particular, the MoF successfully maintained its strong material power base, namely controlling access to Indonesia's vast state forest territory (Wibowo and Giessen, 2015: 138).

The national REDD+ strategy, published in 2012, was prepared by the REDD+ Taskforce (which was later upgraded to the REDD+ Agency) with the support of civil society organizations. The document summarizes different policies that aim to achieve Indonesia's emission reduction targets and develop Indonesia's forests as a net carbon sink by 2030 (Indonesian REDD+ Task Force, 2012: 5). The Indonesian REDD strategy can be considered as part of

RANGRK or as contributing to RANGRK and at the same time being a deliverable of the agreement with Norway.⁷ The strategy entails a framework for the development of social safeguards. Listed safeguards acknowledge the land rights of indigenous and local communities based on historical use (Indonesian REDD+ Task Force, 2012: 28), grant indigenous and local communities the right to reject decisions related to REDD+, and stipulate conflict resolution measures and FPIC. Furthermore, the strategy contains a section on "land tenure reform" that refers to the "[...] constitutional right to certainty over boundaries and management rights for natural resources" (ibid. 18), considers land reforms as "[...] an important prerequisite to create the conditions required for successful implementation of REDD+", and stipulates FPIC for any new natural resource management concessions (ibid.).

Yet the section on land reform neither explicitly mentions that the state forest will be subject to the reform nor that the MoF will be involved. Only the National Land Agency (Badan Pertanahan Nasional, BPN) and the Ministry of Home Affairs are mentioned as involved actors (Indonesian REDD+ Task Force, 2012: 18). An expert from the MoF argued that "the land reform is meant to further clarify the status of land used by different actors [...]" adding that the existing regulations already permit community, smallholder and village forest concessions and implying that the reform will not change the status of the state forest. A CIFOR expert argued, "I don't think that any government will voluntarily conduct a land reform unless there is strong pressure from society". An agrarian reform activist lauded the reference to a land reform in the REDD strategy but added that the REDD+ Taskforce does not have the authority to implement such a reform. ¹⁰

Officially, Indonesia's national REDD+ strategy is still effective but it might be revised by the current government (Kawai et al., 2017: 18). However, Indonesia's National Determined Contribution, the country's national strategy to implement the Paris Agreement, does not mention the REDD+ strategy at all (Hein et al., 2018b). At the end of 2017, the Ministry for Environment and Forestry enacted a new regulation on REDD+. The Ministerial Regulation P. 70/MENLHK/SETJEN/KUM.1/12/2017 outlines Indonesia's pathway to REDD+ implementation. The document repeats that REDD+ activities have to respect the rights of local communities and the right to FPIC of indigenous and local communities. In addition, the document mentions, among other things, result-based payments and carbon markets as potential sources for REDD+ (Menteri Lingkungan Hidup dan Kehutanan, 2017).

The political strategies, policies, agreements and regulations introduced here can be considered as an attempt (not successful) by specific apparatuses of the state to circumvent the MoF and establish new national scales of regulation for implementing REDD+. The political momentum for forest reform provided by REDD+ was used to initiate the formalization of forest governance and spatial planning and to commodify forest carbon. At the same time, indigenous rights organizations tried to benefit from the momentum. REDD+ and the high level of attention directed towards Indonesia's forests may have positively

influenced the constitutional court ruling on the release of *adat* forest from the state forest, as an AMAN activist argued prior to the court decision (see Chapter 5 for more detailed information on the constitutional court ruling).¹¹ Furthermore, AMAN was able to map territories claimed by indigenous groups in cooperation with the REDD+ Agency.

Yet the legal character of the new REDD+ related scales of regulation remains weak. It is, for instance, contested whether disregarding the presidential instruction, which is the legal foundation for the moratorium, has legal consequences or not (Hein, 2013a: 4; Murdiyarso et al., 2011: 2). Furthermore, the legal basis of the LOI and of the National REDD+ strategy is challenged by some actors. A CIFOR expert argued that, "[...] in the National REDD+ strategy, there is no explanation and no reference to a presidential decree or regulation". 12 Above all, REDD+ related scales of meaning and regulation are challenged by other far more influential policies such as the Master Plan for Acceleration and Expansion of Economic Development 2011–2025 (MP3EI), which refers to the expansion of mining and corporate oil palm and rubber plantations. Sumatra, for instance, is designated for oil palm, rubber and coal mining (Republic of Indonesia, 2011a: 49). According to the plan, the provinces of Jambi, North Sumatra and Riau should become major "oil palm plantation nodes" (ibid. 51). Central and East Kalimantan are designated as "timber activity nodes". REDD+ is only mentioned as a potential source of non-timber related income. Moreover, timber plantations and not natural forests are considered for absorbing additional carbon under an international REDD+ scheme (ibid. 112). Under the new President Jokowi, REDD+ governance was re-integrated into the formal forest apparatus. For some observers, this indicates that climate change mitigation then became less important for the Indonesian government. The current mid-term development plan (2015-2019), for example, does not refer to REDD+ at all (Korhonen-Kurki et al., 2017: 69).

Jambi's provincial REDD+ governance

Jambi was one of the first provinces in Indonesia that hosted conservation projects linking local conservation efforts with climate change mitigation. The "Climate Change, Forest and Peatlands in Indonesia Berbak-Sembilang Project" (CCFPI), 2002–2005) in Jambi and South Sumatra explicitly linked forest and peat land conservation with mitigation and carbon sequestration objectives (Lubis and Suryadiputra, 2004: 115). The project was funded by the Canadian Climate Change Development Fund. The initiative can be considered as a precursor of the Berbak Carbon Initiative. The first province–wide mitigation strategy with a strong focus on land-based activities (e.g. REDD+ and reforestation) was developed by the National Council on Climate Change and by the Provincial Government of Jambi (Dewan Nasional Perubahan Iklim, 2010; Purnomo et al., 2012: 75).

In 2010, the provincial government started its first attempt to become one of Indonesia's REDD+ pilot provinces. The government of Jambi prepared a draft

REDD+ strategy. The document "Jambi Sebagai Provinsi Percontohan Untuk Mekansime REDD+" (Jambi as a pilot province for the REDD+ mechanism) was developed to outline Jambi's potential as a national REDD+ pilot province (Hein, 2013b: 12; Pemerintah Provinsi Jambi, 2011). The strategy supports the designation of new community forest concessions (e.g. village forests and community forests) in Jambi and argues for an acknowledgement of indigenous and local community rights to forest land. At that time, Jambi's attempt to become a REDD+ pilot province was not successful. Central Kalimantan became the first pilot province.

In 2011, the province started its second attempt and established the Jambi Regional Commission for REDD+ (KOMDA REDD+) through Governor Decree No. 356/2011 (Hein, 2013b: 12). The members of the commission were appointed by the provincial government. In 2013, the commission consisted of the NGOs WARSI, ZSL and Flora and Fauna International; of the conservation company PT REKI; of representatives of the provincial planning agency (BAPPEDA), the provincial forest agency and of the provincial environmental protection authority; and of experts from the University of Jambi and the World Agroforestry Center (ICRAF). The commission has no regulatory authority and was mainly formed to coordinate drawing up the provincial REDD+ strategy. In 2013, Jambi finally became a REDD+ pilot province of the National REDD Agency.

The provincial REDD+ strategy covers the period from 2012 to 2030. In addition to providing technical details and data on the emission-reduction potential of specific land-use policies, the strategy refers to the potential propoor benefits of REDD. The strategy also aims to strengthen the rights of local communities and includes plans to map forest land claimed by local communities and indigenous groups (Perbatakusuma et al., 2012). The strategy was written by the commission. Other NGOs were invited to focus-group discussions to comment on the document. The strategy designates the districts of Tebo, Muaro Jambi and Merangin as REDD+ pilot districts. The pilot districts were selected because they represent three different landscapes. Merangin is characterized by the upper Sungai Batang Asai watershed and the Bukit Barisan Range. Whereas Tebo is characterized by hilly low lands and low mountain ranges, Muaro Jambi consists of hilly low lands, tidal marshlands and peat swamps. In addition, the districts were selected because of their high numbers of land conflicts.¹³ In these districts, land-use and forest-use permit procedures are to be reviewed, and forest monitoring and law enforcement are to be improved. However, among village and sub-district governments and administrations knowledge of the strategy and the proposed activities seemed to be limited in 2013. The village government of Tanjung Lebar and staff of the administration of the subdistrict of Kumpeh in Muaro Jambi, for example, were aware neither of being located within a REDD+ pilot district nor of REDD+ related policy shifts at the district level.14

Furthermore, the provincial REDD+ strategy argues in favor of strengthening the rights of local communities and indigenous communities. However,

many of the suggested policies cannot be implemented by provincial or district governments alone since they involve national scale authorities such as the MoEF. Furthermore, the provincial government of Jambi has recently acted in ways contradictive to the policies suggested in the REDD+ strategies. According to regional media, the Governor of Jambi refused to sign recommendations for nineteen village forest concessions in the province (JambiekspressNews, 2013). However, it is important to add that Jambi, with its 54,978 ha of village forest concessions managed by 25 villages, has the largest village forest area of all the provinces in Indonesia (Bakhori, 2013). Through different strategies and policies, the provincial government has successfully constructed REDD+ as a new scale of meaning in order to attract donor investments, but it lacks the authority and probably also the political will to establish a complementary scale of regulation.

REDD+ in Jambi: an actor mapping

In this section, I will briefly present a mapping of actors involved either in the implementation of REDD+, or in resistance campaigns against REDD+ in Jambi. The mapping (Figure 4.1) is mainly based on expert knowledge and shows formal state actors and private actors directly involved in REDD+, conservation projects and organizations supporting peasant resistance. Stakeholders from state and non-state organizations were asked to identify actors they consider relevant in relation to the implementation of REDD+ in Jambi. In addition, the mapping and the selection of actors is based on document review and on my own judgment.15

The most important state actors are, as a matter of course, the various forest authorities, more explicitly the MoF (MoEF) and the different district and provincial forest services. The MoF has authority over the state forest, has enacted various REDD+ regulations and has allocated the Meranti-River-Kapuas-River forest block to the conservation company PT REKI for implementation of the Harapan Rainforest project. A second relevant national-scale authority was the REDD+ Agency (Badan Pengelola REDD+) which has recently been integrated into the MoEF. The REDD+ Agency was directly accountable to the president. Furthermore, the agency appointed Jambi as an official REDD+ pilot province. The different district and provincial forest services are involved in managing forest reserves and conservation forests. They do not have the authority to allocate concessions but they are involved in conflict mediation, forest monitoring and law enforcement. At the provincial level, the KOMDA REDD+ (Provincial REDD+ commission, Komisi Daerah REDD+) is in charge of coordinating REDD+ implementation. However, as the national REDD+ agency, KOMDA REDD+ has no regulatory power. KOMDA REDD+ is a hybrid institution consisting of state and non-state actors. ZSL, the NGO leading the Berbak Carbon project, is a member of KOMDA REDD+.

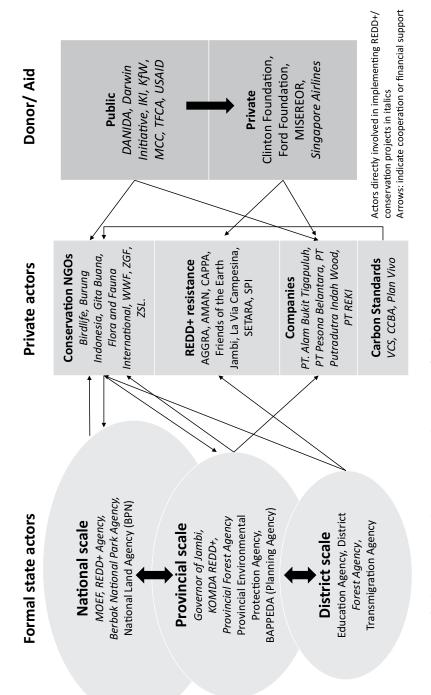


Figure 4.1 Actors involved in REDD+ and conservation in the Province of Jambi

(Source: based on author's own investigations)

State actors challenging the implementation of REDD+ and conservation projects and the integrity of the state forest are the various sectoral agencies of the district governments of Muaro Jambi and Batang Hari. By providing support to peasants or by providing public infrastructure they legitimize the presence of peasants and indigenous groups in the state forest territory. The Transmigration Agency of Muaro Jambi, for instance, has developed transmigration settlements within the borders of the Berbak Carbon project (see Chapter 5 for more details). The Education Agencies (Dinas Pendidikan) of both districts support and run schools within the Harapan Rainforest project. The Agricultural Agency of Batang Hari has provided extension services for settlers farming within the Harapan Rainforest.

The ZSL and Gita Buana are among the important non-state actors involved in the Berbak Carbon project. ZSL identifies itself as an international scientific, conservation and educational charity (ZSL, 2015) and is based in the United Kingdom (UK). The organization started its Indonesia field program in 2002, focusing on ecological research, core area protection and the connectivity of conservation areas (CIRAD, 2012). On the island of Sumatra, ZSL's activities focus mainly on tiger conservation. ZSL seeks to develop mechanisms permitting rural development and conservation. Gita Buana is a Jambi-based NGO founded in 2001 by students from the Faculty of Agriculture at the University of Jambi. Gita Buana is involved in the implementation of FPIC for the Berbak Carbon Initiative. Gita Buana's donors are the Clinton Foundation, Tropical Forest Conservation Action (TFCA) and Flora and Fauna International.¹⁶

Non-state actors are of key importance in the Harapan Rainforest project. PT REKI is owned by three NGOs. Burung Indonesia was founded in 2002 and focuses mainly on bird and bird habitat conservation. Burung Indonesia works mainly in Sumatra, Sumba, Gorontalo, Sangihe Taluad, Tanimbar and Buru. Burung Indonesia is a member of Birdlife International. The Royal Society for the Protection of Birds (RSPB), also member of Birdlife International, was founded in 1889 in the UK. The RSPB holds more than 200 bird reserves (RSPB, 2015). In the accounting year 2014/2015, the organization had a net income of £99 million (ibid.). Birdlife International is the transnational umbrella association of 120 bird conservation organizations and claims to be the world's largest conservation initiative and the world's leader in bird conservation (Birdlife International, 2015).

Peasants and indigenous groups living within the borders of the Harapan Rainforest project are supported by a number of non-state actors as well. The most relevant are Serikat Petani Indonesia (Indonesian Peasant Union, SPI), and the grass roots organizations Yayasan CAPPA and Yayasan Setara. SPI is the largest Indonesian Peasant Movement and a member of La Via Campesina. La Via Campesina is an umbrella organization uniting 164 local and national peasant organizations from 73 countries. La Via Campesina claims to represent 200 million farmers from all continents. The main aims of the organization are the realization of food sovereignty and the implementation of agrarian reforms.

Yayasan CAPPA is a Jambi-based environmental justice organization. 17 The organization first mainly supported peasants in conflicts with pulp and paper companies. Today the organization claims to support the "victims of agrarian policies". Yayasan CAPPA helps peasants defend and access property rights and argues for social transformation in order to end agrarian conflicts. Furthermore, Yayasan CAPPA is involved in conflict mediation, advocacy work and indigenous rights issues. Its main donors are Misereor, the Ford Foundation and USAID. Yayasan SETARA is a Jambi-based NGO working on environmental justice issues, especially on the consequences of oil palm expansion. 18 Yayasan SETARA supports small-scale oil palm cultivators and indigenous communities. SETARA is a member of the Roundtable for Sustainable Palm Oil (RSPO). The organization has a watchdog function within RSPO and strives for the acknowledgement of peasant rights. Yayasan SETARA and CAPPA cooperate intensively and support Batin Sembilan communities in land conflicts with the conservation company PT REKI and with the oil palm company PT Asiatic Persada. SETARA receives financial support from Misereor.

The mapping indicates linkages (across scales) between formal state actors and linkages among private actors and between state and private actors. Actors promoting REDD+ and conservation and actors resisting the expansion of conservation have established actor coalitions involving local, national and transnational NGOs (see Chapter 5 for more detail).

Privatization and transnationalization of conservation: conservation concessions and co-management

As a biodiversity hotspot, Indonesia has long been a key country for the projects and campaigns of transnational conservation organizations. Transnational NGOs initiated activities in Indonesia in the late 1980s (McCarthy, 2006: 183; Peluso et al., 2008: 383). In those days, the New Order regime of President Suharto took up the emerging sustainability discourse, before and after the first Rio Summit, in order to improve its international reputation (Hall et al., 2011: 68). Conservation NGOs successfully lobbied for new protected areas, national parks and environmentally friendly natural resource management regulations, and engaged in the co-management of conservation areas and community-based conservation projects (Peluso et al., 2008; Wells et al., 1999).

In the 1990s, transnational NGOs like World Wildlife Federation (WWF) and The Nature Conservancy (TNC) co-managed Integrated Conservation and Development Projects (ICDPs) with state authorities and local communities. The ICDP concept aims to go beyond fortress conservation by actively involving local communities and represented the state of the art of conservation at that time (Wells et al., 1999: 13). In 1992, for example, TNC started to support the National Park Authorities of Lore Lindu National Park in Central Sulawesi. The NGO negotiated conservation agreements with communities and established a stakeholder platform to facilitate dialogue among local communities and the different institutions working within and around the national

park (The Nature Conservancy, n.d.; Wells et al., 1999: 26). However, the project was not able to deal with the land disputes and land occupations of local and indigenous communities inside the national park (Adiwibowo, 2005). In Jambi, the WWF lobbied for a ICDP project in the buffer zone of Bukit Tiga Belas National Park (Wells et al., 1999: 27). The MoF rejected the plan. Nevertheless, more than 20 years later the WWF was able to realize its plans. Recently, the buffer zone became an ecosystem restoration concession managed by the conservation company PT Alam Bukit Tigapuluh, which was co-founded by the German NGO Zoological Society Frankfurt (ZGF) and WWF Indonesia.

In contrast to Latin American countries, it was relatively difficult for NGOs and companies to establish private protected areas in Indonesia until the 2000s as the Forest Law did not permit a "non-productive use" of forest concessions. In the 2000s, the idea of "governance through markets" (Peet et al., 2011: 7) gained further political traction. In line with the neoliberal zeitgeist, deforestation and biodiversity loss were primarily considered as governance failure and as a failure to economically account for ecosystem services in an adequate manner. The integration of conservation and ecosystem services into the market system would create economic incentives for conservation and would consequently almost automatically lead to better protection. In this context, large environmental NGOs became increasingly powerful. Globally, companies and public donors transferred millions of dollars to conservation organizations, expecting that privately managed conservation would be more cost-efficient than state-managed approaches which were often considered prone to corruption (Igoe et al., 2010). Conservation NGOs now command over 50 percent of the global funding for conservation (Chapin 2004 cited in Igoe et al., 2010: 491) and, in addition to their successful lobbing for new state-managed protected areas, have established an increasing number of privately managed protected areas. In 2015, Birdlife International and its members, for example, had a joint budget of USD 539 million (Birdlife international, 2015). Their 1553 protected areas cover 4.3 million hectares, a territory larger than Switzerland.

In 2004, a forest management reform in Indonesia made the country more attractive for private investment in conservation. The MoF introduced a new concession type (officially: ecosystem restoration concessions), delegating for the very first time authority over conservation, forest rehabilitation and REDD+ activities within the state forest territory to non-state actors (Walsh et al., 2012a: 35). Conservation and ecosystem restoration were integrated into Indonesia's market-oriented land-use planning system (Radjawali et al., 2017), and thus they had to compete with other possible land uses, such as logging and pulp and paper production. According to Rice (2002), the conservation concession concept provides a number of benefits: "Under a conservation concession, conservation becomes a product that can be purchased directly and provided according to clearly established criteria. In combination with payments, the limited term of a conservation concession makes it an attractive option for resource owners. At the same time, long-term conservation is possible because of renewable terms, low opportunity cost, and high willingness

and ability to pay" (Rice, 2002: 4). Additional momentum for the conservation concession concept and for private conservation actors in Indonesia can be traced back to COP 13 in Bali. After the Indonesian COP, the role of non-state and state actors in forest conservation changed fundamentally both in Indonesia and globally. The hope that global carbon markets might create a reliable funding source for protected areas or even a source for profit created a short Indonesian "REDD+ rush" (McGregor, 2010). NGOs and corporate actors started to search for potential sites for REDD+ projects; they developed rules and certification mechanisms and projects (Hein and Garrelts, 2014; Newell and Paterson, 2010). Even investment banks like Merril Lynch, the German insurer Allianz, and the oil and gas companies Shell and Gazprom started to invest in forest conservation (Hein and Garrelts, 2014).

In Indonesia, the formulation and adoption of the conservation concession concept was very much the result of strong lobbying by the Indonesian branch of BirdLife International (Burung Indonesia) (Hein, 2013b). In 2007, PT REKI received the first ecosystem restoration concession for the southern part of the Harapan Rainforest project. In 2017, 16 concessions existed all over Indonesia covering 623,075 ha of land. The MoEF announced that it plans to allocate an additional 100,000 ha per year to conservation companies until 2019 (Ministry of Environment and Forestry, 2017). The allocation of a conservation concession to a concession holder goes hand in hand with the transfer of additional bundles of rights replacing former state functions. Environmental protection, protected area management, environmental monitoring and even the allocation of land-use permits for communities within the concession area are de facto exercised by the concession holder.

However, the plans to allocate conservation concessions are challenged by a lack of areas designated for ecosystem restoration, the requirement to obtain a letter of recommendation from the local governments, and a lack of guidance about what governors should recommend and the role of district governments (Walsh et al., 2012: 14). District governments often have little interest in having an ecosystem restoration concession within their jurisdiction. An expert from the MoF argued, "Ecosystem restoration in the short-term is a sacrifice [. . .] for all actors at all levels, including the company". ¹⁹ As ecosystem restoration concessions contribute less to the district's economy than other options, some districts seek to impede their issuance.

A further push towards privatization and the commodification of conservation and ecosystem services might be induced by a new regulation on economic instruments for conservation (Government Regulation No. 46 of 2017). The policy foresees compensation payments for the provision of environmental services, including carbon capture and sequestration, and stipulates that polluters should compensate for ecosystem losses. This might also generate additional income sources for actors holding ecosystem restoration concessions.

The private actors involved in the two conservation projects covered by this book used two different approaches. PT REKI and the shareholders Burung Indonesia, the Royal Society for the Protection of Birds (RSPB), actively

lobbied for forest management reform and later on received the first conservation concession. In contrast, the approach of the Zoological Society London (ZSL) builds on a more traditional co-management approach.

Lobbying for and accessing conservation concessions²⁰

In the early 2000s, Burung Indonesia and its national and transnational partners discussed new conservation and forest rehabilitation concepts, especially for areas designated as production forests. The RPSB was searching for areas to be used as privately financed and managed conservation areas. A key informant from Burung Indonesia explained, "At that time, the UK community over there, the members of RSPB, they wanted to share, for example, if you give money you can conserve 1 hectare". 21 At that time, conservation and forest rehabilitation activities were limited to protected areas managed by state actors. Burung Indonesia argued that conservation regulations for protected areas were too restrictive for private initiatives, and developed a proposal for a new concession type that would permit private actors to invest in conservation. According to a key informant of Burung Indonesia, at first the Ministry of Forestry (MoF) was skeptical, but after years of lobbying, it finally agreed: "Our CEO at that time, he was very persistent, [...] he lobbied here and there, also he wanted me to lobby here and there [...] I think the third minister finally agreed". 22 In 2004, the MoF enacted the first regulation on "Ecosystem Restoration in Production Forest" (SK 159/Menhut-II/2004) that permitted private conservation concessions. Three years later, the Indonesian parliament integrated private conservation concessions into the Forest Law (Birdlife International, 2008: 21).

An expert from the consulting company Carbon Synthesis, who supported the lobbying campaign, argued that Burung Indonesia's campaign was successful because of the reduced demand for logging concessions that resulted from the post-Suharto boom in illegal logging.²³ The MoF considered the new concession type mainly as a mechanism for recovering state forest production capacity.²⁴ Burung Indonesia and its national and transnational partners considered the new concession type a response to the failure of state-led conservation policies and an opportunity to finance conservation activities through sustainable forest exploitation, ecotourism and carbon trade.²⁵

The Harapan Rainforest

In parallel to Burung Indonesia's lobbying campaigns, in 2000 the NGO started a site selection process with its partners. Biodiversity, urgency, administrative and socio-economic criteria were used to study 14 sites across Indonesia (Birdlife International, 2008: 13). Burung Indonesia conducted the first on-site investigations in Jambi and South Sumatra provinces between 2000 and 2004. The Meranti River-Kapuas River forest block²⁷ in Jambi and South Sumatra was selected because it represents one of Sumatra's last patches of intact lowland rainforest. The area was also considered to be of great interest to timber and oil

palm companies – and consequently at risk (ibid. 13). At that time, the southern part of the concession consisted of a retired logging concession formerly used by the state-owned company, PT Inhutani V. Although the northern part was still owned by PT Asialog, the company had stopped logging in 1999, abandoned the concession in 2003, and signed an agreement with Burung Indonesia about officially ending logging activities in the concession in 2006 (Birdlife International, 2008: 22; Mardiana, 2014: 14). In 2005, the MoF officially classified the forest block for ecosystem restoration.²⁸

Initially, Jambi's local governments opposed the permit for the Harapan Rainforest project.²⁹ One year later, the NGO consortium won the public tender for the southern part of the concession and received letters of support from the district heads and governors of Jambi and South Sumatra (Birdlife International, 2008: 22). The MoF officially revoked PT Asialog's logging concession in 2007 (Mardiana, 2014: 14). In 2008, PT REKI, the company founded by the NGO consortium to manage the concession, received the southern part and two years later the northern part of the Meranti-River-Kapuas-River forest block. The concessions are valid for 100 years. The permit process for the conservation concession took eight years (Birdlife International, 2008: 22).³⁰

The MoF neglected the presence of the settlements (Figure 3.1) of local communities and indigenous groups (settlement formation described in Chapter 3) and allocated major parts of the Meranti-River-Kapuas-River forest block to the conservation company. In the following years a number of land conflicts emerged (some of which continue), challenging project implementation and the ability of PT REKI to control its territory (Chapter 5).

The Harapan Rainforest is a privately managed project focusing on biodiversity conservation and climate change mitigation (Figure 4.2). Still, large shares of the funding for the project come from public sources. The German International Climate Initiative (IKI) and the Danish Ministry of Foreign Affairs (DANIDA) are probably the most important public donors. IKI provided EUR 7.5 million from the end of 2009 to 2013. PT REKI has applied for a second funding period but a decision was still pending in early 2018. In 2016, staff from the German Embassy in Jakarta seemed to be in favor of a second period, explaining that not continuing to support the first privately managed conservation project in Indonesia would be a negative political signal. The German embassy considers the project a role model for conservation in Indonesia. From 2011 to 2016 DANIDA provided EUR 9 million through its Special Climate Change Fund's Fast-Start Finance (FSF) (Buergin, 2014: 65). Additional funds of DKK 20 million were provided in the framework of the Danish-Indonesian Environment Support Program (DANIDA, 2016). The most important private donor is Singapore Airlines. The carrier contributed US\$ 3 million and became the "exclusive airline partner" of the project. The carrier considers the project as part of its strategy to improve its overall environmental performance (Singapore Airlines, 2015).



Figure 4.2 Picture of destroyed forest and border sign of the Harapan Rainforest (Source: taken by the author, 2013)

The Indonesian REDD+ Agency listed the Harapan Rainforest as a REDD+ demonstration project (Badan Pengelola REDD+, 2014). The current project list from the new MoEF no longer lists the project. The question as to whether the Harapan Rainforest is a REDD+ project seemed to be an ongoing dispute among different shareholders of the conservation company. PT REKI seems to dissociate itself more and more from REDD+. In October 2013, a project manager from Burung Indonesia stated that "[...] we were from the very beginning not a REDD+ project, PT REKI is not REDD [...]". 31 But in 2012 a project manager based in Jambi argued that the "[...] carbon market is a long-term funding option, the baseline preparation is in process and we will base a carbon consultant in Palembang" (in South Sumatra).32 PT REKI's main donors IKI, DANIDA and Singapore Airlines explicitly name climate mitigation, carbon sequestration or REDD+ piloting as the project objectives (DANIDA, 2012a; Internationale Klimaschutzinitiative, 2015; Singapore Airlines, 2015). PT REKI's recent attempts to disassociate itself from REDD+ might be considered as strategy to avoid potential controversies on benefit sharing and the commodification of forest carbon or as response to SPI's climate justice and anti-REDD+ campaigns (Hein and Faust, 2014: 24). So far PT REKI has not sold any carbon credits and has not been certified according to a carbon standard.

Conservation agreements and benefits of the Harapan Rainforest

The implementation of conservation regulations and community benefits is challenged by ongoing conflicts over access to land. According to interviewed PT REKI staff, the company initially planned to develop two zones with specific access rights for peasants and for the Batin Sembilan. The first, called the tanaman kehidupan zone, was to provide the Batin Sembilan with opportunities to gather non-timber forest products and plant rubber. The second mitra zone should provide land for peasant migrants who were living in the concession before the Harapan Rainforest project started. Initially, PT REKI only accepted the presence of peasant migrants who were living in the settlement before 2010 (when the project was initiated in Jambi). A staff member of the conservation company explicitly stated, "Those that came after have to leave. We want to push them out". 33 Migrants living in the concession before 2010 should pay rent to PT REKI and have to follow existing regulations for state forest land, e.g. implying that oil palm cultivation and shifting cultivation are prohibited. PT REKI proposed a maximum plot size of 2-5 ha per migrant household for the cultivation of forest crops like rubber.³⁴

In addition, PT REKI negotiated and is still negotiating a number of conservation agreements (Village Resources Management Agreement, VRMA) with the indigenous Batin Sembilan, and recently with some peasant migrants. The agreements usually allow the communities to use a certain amount of land for rubber and fruit tree cultivation and to harvest non-timber forest products, but prohibit land trades and additional forest conversion (REKI, 2011b) (see Chapter 5 for additional information on conservation agreements in the context of conflict mediation and solution).

As part of the conservation agreements (VRMA) and beyond, PT REKI provides a number of direct income-related and non-income-related benefits (Table 4.1). The benefits are intended to provide alternative sources of income, stabilize household incomes, and compensate the opportunity costs of PT REKI's intervention. Non-income-related benefits provided by PT REKI include elementary school services, free health care, clean water, electricity and better sanitation. However, these benefits are de facto only accessible for the Batin-Sembilan-dominated settlements of Simpang Macan (Dalam and Luar) and the Batin Sembilan living in the mitra settlement.³⁵ Direct income-related benefits provided by PT REKI include employment opportunities, agricultural extension services, and the joint marketing of non-timber forest products. PT REKI provides employment opportunities for local communities living in the Harapan Rainforest, the most important is the community nurseries. Community nurseries have been established in the Batin-Sembilan-dominated settlements of Simpang Macan (Dalam and Luar, part of Kunangan Jaya I, Bungku), in the mitra (part of Kunangan Jaya I, Bungku), and in Sako Suban. Each community nursery provides employment for approximately seven families. The staff of the nurseries are paid for each seedling, for the planting of the seedling at the reforestation site, and if the seedling survives the first year. The nurseries

Other community benefits

Conditional land tenure/

Important regulations

Project

conservation agreements

		0	Income-related	Non-income-related
Harapan Rainforest	Only forest species (trees), food-crop cultivation is	1–5 ha per household (allocation and	Employment (e.g. in community nurseries and as forest rangers),	Health services, education, sanitation, electricity
	permitted*, no commercial	negotiations ongoing)	agricultural extension services,	
,	logging, no land transactions	,	marketing	,

Planned

Agricultural extension services, employment; further benefits depend on governmental

1-5 ha per household

regulation

(first plots allocated in Seponjen and Kampung Laut)

Only forest species (trees), logging is prohibited, no land transactions

Berbak Carbon Initiative

(Source: compiled by the author)
★ At least in the TSM settlement.

provide monthly incomes of between IDR 300,000 and 700,000 per person.³⁶ Community nurseries have not yet been established in the settlements described in Chapter 3. Thus, peasant migrants have de facto no access to this source of alternative income. Inhabitants of the *mitra* settlement have the additional opportunity to earn monthly payments of IDR 500,000 for providing information about incidents such as forest fires or for the denunciation of new so-called "encroachers".

PT REKI staff members claimed that if possible, full-time positions would be filled with local community members. Nevertheless, in July 2013, only two inhabitants of the *mitra* settlement had permanent jobs – as PT REKI forest guards.³⁷ PT REKI's reforestation efforts provide additional short-term employment opportunities. For example, PT REKI pays groups of planters up to IDR 1,600,000 per ha.³⁸ Agricultural extension services provided by PT REKI consist mainly of the provision of rubber seeds and livestock.

An additional benefit that PT REKI aims to provide especially for Batin Sembilan is support for the marketing of forest products. PT REKI already organizes the marketing of honey for Batin Sembilan (Wardah, 2013: 19) and plans to support the marketing of jelutung and jernang (dragon blood³⁹).

PT REKI has developed new conservation regulations, tree inventories, and a preliminary carbon assessment and has started border demarcation. Moreover, PT REKI has established a forest guard unit to protect the conservation concession and monitor compliance with the conservation regulations. PT REKI's activities can be considered an active attempt to construct a new scale of meaning – linking local conservation efforts to global environmental problems such as biodiversity loss and climate change – and to establish the project area as a new scale of regulation. As we will see in Chapter 5, this scale of regulation is highly contested.

The Berbak Carbon Initiative and ZSL's co-management approach

The ZSL's approach to establishing the Berbak Carbon Initiative differs substantially from that of Burung Indonesia and its partners. The ZSL's basic idea is to harmonize the management of various concessions and protected areas – to establish a new scale of regulation for the Berbak landscape. ZSL has not tried to gain full ownership or full control over its different land-use categories. ZSL's strategy is to influence the management of existing concessions and protected areas through negotiating cooperation agreements with concession owners and forest authorities. A key informant working for ZSL argued that applying for a private conservation concession is not an option for the NGO because of the high upfront costs. He said, "It is too expensive for NGOs with no money. Because we have to have a very big investment [. . .] to get the concession area. Yeah, that's also, I think, the obstacle for an NGO who wants to get the restoration concession for REDD activity. Big investment [. . .] while to get the restoration area required the tax for the first 35 years, plus an extension of

60 years: 65 years must be paid in advance". 40 In addition to the financial barriers, only the logging concessions managed by PT Putra Dutra Indahwood and PT Persona Belantara Persada would be eligible for reclassification as private conservation concessions. State forest that is already classified as a protected area, such as the Berbak National Park, is not eligible to become a private conservation concession.

The Berbak Carbon Initiative was also listed as a REDD+ demonstration project by the Indonesian REDD+ Agency. The project is a collaborative initiative by the Zoological Society of London (ZSL), the Jambi-based NGO Gita Buana, the Berbak National Park Agency and the Provincial Forest Service (Dinas Kehutanan Provinsi Jambi), and can be considered as the latest attempt to establish the Berbak (carbon) landscape as a scale of meaning and regulation. The project has to cope with informal forest conversion activities and with a transmigration settlement established by the Transmigration Agency of the district of Muaro Jambi. The transmigration settlement was constructed within the state forest and within the borders of the Berbak Carbon Initiative, violating MoF regulations.

The first discussions about establishing a REDD+ project between the ZSL and the Berbak National Park Agency started in 2008. The first cooperation agreement on establishing a REDD+ project in the Berbak landscape was signed with the MoF in May 2011, and with the Berbak National Park Agency in October 2011. The agreement with the National Park Agency defines various areas of cooperation including the establishment of a measurement, reporting and verification system, support of the VCS and CCBS certification processes and the development of community benefits (Balai Taman Nasional Berbak and Zoological Society London, 2011). The document states that potential income from carbon trade will be used to preserve biodiversity and maintain the peatswamp forest's carbon storage capacity (ibid.). In 2013, the ZSL signed a third agreement with the Provincial Forest Agency on implementing a REDD+ initiative in the Sektitar Tanjung forest reserve. The agreement defines, inter alia, FPIC implementation, the closure of illegal drainage canals, and the development of a benefit-sharing mechanism for carbon trade revenues (Dinas Kehutanan Provinsi Jambi, 2013).

Initial funding of USD 478,883 (The REDD Desk, 2015) for the project was provided by the Darwin Initiative of the UK Department for Food, Environment and Rural Affairs (DEFRA). The carbon credit broker Eco Securities announced its interest in purchasing credits from the project in 2008. Yet, to date, the project has not been certified and has not sold any carbon credits. ZSL is seeking for CCBS and Verified Carbon Standard (VCS) certification for the project. The Indonesian-based carbon consultancy company Forest Carbon has conducted an "initial field and desktop assessment of carbon emission reduction potential for the Berbak Carbon Initiative" (Eickhoff et al., 2010). The authors conclude that the initiative could lead to emission reductions of approximately 75–82 MtCO2e and is eligible for certification according to the VCS standard (ibid. 7). The project is of specific interest since it is planned to

be implemented in different forest categories (Berbak National Park, Forest Reserve Sekitar Tanjung, limited production forest (logging concessions) and conservation forest), permitting different types of land use. However, at the time of field research only the Berbak National Park Agency and the Provincial Forest Service managing the Forest Reserve had officially agreed to form part of the REDD+ initiative. Negotiations with the logging companies PT Putra Dutra Indahwood and PT Persona Belantara Persada were not finalized at this time. According to the ZSL, the companies were mainly concerned about the great uncertainties regarding carbon trade revenues. After years of delay, ZSL announced in 2015 that the project will be operational in 2018 (ZSL, 2015). However, the project is still not listed in the VCS database.

Existing forest regulations are an additional obstacle to harmonizing forest management in the landscapes of the Berbak Carbon Initiative. The forest reserve and national park had to be registered as separate REDD+ projects since it was not possible to register them as a single REDD+ project under current forest regulations. The ZSL sought to circumvent the regulatory barriers by negotiating different cooperation agreements but has not yet been able to establish a coherent new scale of regulation. The various concessions and conservation areas are still governed by different authorities. A staff member of the Provincial Forest Agency argued that coordination was difficult since no authority wanted to lose influence to another. Jumping to the transnational scale would still allow for the construction of a new conservation scale of regulation for the Berbak area. Certification under VCS and CCBS would create a set of rules applicable to all land-use categories. So far, the ZSL has only managed to establish REDD+ as a new scale of meaning for the landscape. Other actors (e.g. logging companies) are challenging the production of a complementary scale of regulation.

Implementing the Berbak Carbon Initiative: conditional land tenure and FPIC

Potential benefits for local communities from carbon trade profits were still under discussion. An ZSL project manager stated that benefit sharing is planned but its design will depend on national legislation.⁴⁴ A first community-needs assessment for designing community benefits was conducted by the NGO WALESTRA (Wahana Pelestarian dan Advokasi Hutan Sumatera) and the first pilot community reforestation and conditional land-tenure schemes are running in Seponjen, Kampung Laut and a few other villages in the Berbak landscape.

In contrast to PT REKI and as requested by the CCBS carbon standard, ZSL and the project partners have started to conduct a formalized free prior and informed consent (FPIC) process in 32 villages around the Berbak Carbon Initiative. In 2013, the process was underway in 11 villages, including Seponjen and Kampung Laut. However, the first consultation sessions in 2013 only involved members of the village elite and were conducted in the office of the sub-district head (camat) – not in the villages. In the case of Seponjen, only the village head, the imam, the head of the village parliament, and the neighborhood heads participated. The village population was not officially informed by its representatives

about the outcome of the consultation meeting. In Kampung Laut and Seponjen, therefore, knowledge about the Berbak Carbon Initiative and REDD+ in general was relatively limited. In Kampung Laut, only three of 17 community members interviewed had heard of REDD+. A member of the village government argued that he has not disseminated information on REDD+ since he does not want to create high expectations in REDD+ as a potential income source. ⁴⁶

A local leader who had participated in the meetings with Gita Buana, the NGO conducting the sessions, stated that they were informed about REDD+, especially that "the world will buy the carbon that is stored in our region".⁴⁷ In a progress report, Gita Buana noted that the community representatives recognized the importance of the Berbak ecosystem and agreed to contribute to its protection (Gita Buana, 2013). In addition to the FPIC process, a number of different community consultation sessions were conducted in the three study villages – mostly to provide information about regulations for the protected areas and the conditional land tenure and community reforestation program.

Because most forests in the project area have been protected for many years, project implementation has led to only limited changes. Furthermore, only a few households use agricultural land within the boundaries of the Berbak Carbon Initiative. Like the Harapan Rainforest, the Berbak Carbon Initiative has de jure not established any additional land-use restrictions, although it may have contributed to better enforcement and better acceptance of the existing legal framework for forest land. Additional regulations associated with the project tend rather to promote community involvement, such as FPIC implementation, than to further restrict access to land. Important land-use restrictions mentioned by key village informants were the prohibitions on oil palm cultivation, annual crops, and agricultural activities in the buffer zone (within 500 m of the project boundary), logging, and open fires. 48

The main benefits provided by the various stakeholders implementing the Berbak Carbon Initiative are conditional land-tenure schemes⁴⁹ (Table 4.1) and employment opportunities in the community reforestation programs. Benefits for emission reductions are dependent on the planned benefit-sharing regulations for forest carbon projects, which are conditional on selling carbon credits. The ZSL and its partners have conducted a community-needs assessment to design benefits for the community.⁵⁰

The conditional land tenure and community reforestation scheme in the forest reserve is funded by the MoF's reforestation fund and through the provincial budget and backed by Law No. 5/1990 and Governmental Regulation No. 38/2007 (Republic Indonesia, 1990, 2007). The scheme aims to allocate land to farming groups in eight villages around the Berbak Carbon Initiative and will privilege poor households and households that traditionally own land in the project area. The allocated land rights are based on memorandums of understanding (MoU) between the farming groups and the Provincial Forest Service. In Seponjen, the Provincial Forest Service has designated 150 ha of the forest reserve for farming groups. The farming groups have up to 25 members and receive 2 ha of land per participant; this might be expanded to 5 ha in the future. Trading land is prohibited: the land can only be used for jelutung, 51 rubber, and rambutan 52 cultivation. 53

In September 2013, 20 farming group members in Seponjen received 1 ha of land and were paid IDR 120,000 a day to prepare and plant the land. This is the first group to be officially registered by the Provincial Forest Service. According to a farming group member, not all interested community members had received land: many are on a waiting list. He explained that the households that are "ready" and those who need land had been selected first, but he added that the village government and the forest service had not used clear criteria to select participants.⁵⁴ Another farming group member stated that many community members were unaware that they could receive land free of charge from the forest service.⁵⁵ The information provided by key informants in Kampung Laut was partly contradictive. One key informant stated that land allocation had not yet started in Kampung Laut and explained that households interested in receiving land should form farming groups and prepare management plan proposals.⁵⁶ A second key informant said that he knew about the program but thought that it had not started vet.⁵⁷ A third key informant who is a member of a farming group said that the program was already running: his farming group, which already had 37 members and an official permit from the Provincial Forest Service, had already started to plant jelutung trees.⁵⁸ A fourth informant stated that 50 ha of land would be allocated to farmers in Kampung Laut: the mapping and allocation of 2-ha plots had just started.⁵⁹ When visiting the project area in August 2016, most of plots that had been allocated to farmers had been destroyed by the devastating peat and forest fires of that year.

The non-transparent dissemination of information on the conditional land-tenure scheme and knowledge asymmetries between different community members permitted elite capture and rent-seeking behavior. An example from an area of the forest reserve claimed by both the village of Seponjen and the sub-district capital of Tanjung/Suakandis is illustrative. A migrant from Lampung stated that he had bought land that was designated for the conditional land-tenure scheme – from a field assistant of the Provincial Forest Service. He paid IDR 7,000,000 for 3 ha of land, including a *sporadik title* issued by the head of the Kelurahan Tanjung/Suakandis. In all, 30 ha of land designated for the scheme had been sold to ten households.⁶⁰

Land conflicts associated with the Berbak Carbon Project are not as severe and violent as in the Harapan Rainforest project. Forest authorities tolerate fishing and jelutung tapping in the National Park. Land conversion within the project occurs, e.g. east of Seponjen, and, as mentioned, initiated by the construction of the transmigration settlement in Kampung Laut.

Other private and/or donor-funded REDD+ activities in Jambi

Private actors have gained importance in Jambi as their strong involvement in the Harapan Rainforest and Berbak Carbon Initiative illustrate. However, these are only two of a number of new private conservation initiatives in the province (Table 4.2). Many of them are again privately managed but funded by public donors.

Jambi ⁶¹
.11
projects
demonstration]
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Table 4.2 F

Project	Есоѕуѕtет	Project status	Land-use category/ concession	Proponents	Funding	FPIC
Harapan Rainforest Dry lowland Running, no tradable rainforest certificates yet, precambon accounting done	Dry lowland rainforest	Running, no tradable certificates yet, pre- carbon accounting done	Limited production forest/ERC- Concession	Burung Indonesia, Birdlife International, RSPB, PT REKI	KfW until 2013, Danida, Harapan Fund (e.g. Singapore Airlines), Conservation International	No formal FPIC
Berbak Carbon Initiative	Peat-swamp forest, mangroves	Running, no tradable certificates yet. Verified Carbon Standard (VCS) and CCBS in preparation	National park, conservation forest, forest reserve and limited production forest	ZSL, Gita Buana, National Park Agency, Province of Jambi, PT Pesona Belantara Persada, PT Putraduta IndahWood	Darwin Initiative, Clinton Ongoing Foundation, UK Panthera Fund	Ongoing
Bukit Tigapuluh Ecosystem Conservation	Dry lowland rainforest and mountain rainforest	Dry lowland Running, pre-carbon rainforest accounting done and mountain rainforest	Production forest/ ERC-Concession	ZGF,WWF,Yayasan Kehati, The Orang Utan Project, National Park Agency, PT Alam Bukit Tigapuluh	KfW, TFCA	Controversies on community consultation
Village Forest Community Carbon Pool	Mountain rainforest	Project is fully operational, approved by Plan Vivo carbon standard	Production forest, village forest concession	Flora and Fauna International (FFI), Village Forest Management Institution	Darwin Initiative, International Carbon Action Partnership	Yes according to FFI
Community Forest Management Project in Jangkat Highland	Mountain rainforest	Project Idea Note approved by the Plan Vivo carbon standard	Production forest, village forest concession	SSS Pundi Sumatera, Village Forest Managing Agency	No information	No information

(Source: Badan Pengelola REDD+, 2014; Forest Climate Center, 2012; Hein, 2013b; own interviews)

The Bukit Tigapuluh Ecosystem Conservation initiative was developed by the Frankfurt Zoological Society (FZS), the Bukit Tigapuluh National Park Agency, WWF, Yayasan Kehati and other NGOs. The NGOs ZGF, WWF and Yayasan Kehati have recently founded a conservation company (PT. Alam Bukit Tigapuluh) and received a private conservation concession (ERC) in 2015. The project receives EUR 3.6 million from IKI through KfW to build up the project infrastructure (ZGF, 2016). As in other projects, the involved NGOs plan community benefit schemes to improve the livelihoods of local communities. Initially, ZGF planned to finance future project activities via carbon trade and recently conducted a carbon pre-assessment (Hein 2013b: 14). Parts of the project area are occupied by local indigenous groups and by Javanese migrants. Friends of the Earth Jambi (WALHI Jambi) issued a press statement in February 2016 in the name of the village community of Pemayungan. The community complained that villagers have to stop farming inside the concession and that they were not informed prior to project implementation (WALHI Jambi, 2016).

The Community Forests for Climate, People and Wildlife project is an initiative of Flora and Fauna International (FFI) with project sites in Jambi and West Kalimantan (Fauna & Flora International, 2012). FFI plans to support villages by implementing voluntary market REDD+ projects in their village forest concessions. In Jambi FFI collaborated with the village community of Durian Rambun in the Merangin district. The village holds a village forest concession of 4484 ha (ibid. 4). The project is operational and was validated in 2015 and registered in 2017 (Plan Vivo, 2018).

The Community Forest Management Project in Jangkat Highland is implemented by the NGO Sumatra Sustainable Support Pundi (SSS Pundi Sumatra) in the villages of Pematang Pauh, Talang Tembago and Muara Madras in the Merangin district (Pundi Sumatera, 2014: 2). The Project Idea Note was approved by Plan Vivo in 2014 (Plan Vivo, 2015).

In addition, Jambi is a target area of the Tropical Forest Conservation Action (TFCA) for Sumatra. TFCA is a US-Indonesian debt-for-nature swap administered by the Indonesian NGO Yayasan Kehati (TFCA-Sumatera, 2014). Its main focuses are biodiversity conservation at the landscape level and contributing to Indonesia's emission reduction targets. TFCA currently supports village border demarcation in buffer zone villages of the Berbak Carbon Initiative. TFCA also provides funding for the Bukit Tigapuluh Ecosystem Conservation Initiative. A second major donor initiative linking conservation and mitigation is funded through the US Millennium Challenge Cooperation (MCC). MCC supports land-use planning and alternative livelihood strategies in 32 villages surrounding the Berbak Carbon Initiative (Millennium Challenge Account, 2015: 20).

Summary and preliminary conclusion

REDD+, market-based conservation and general discursive shifts associated with neoliberal conservation (Fletcher, 2010) and ideas to sell nature to save it

(McAfee, 1999) have changed Indonesia's conservation landscape. Conservation NGOs have become increasingly influential. Until the early 2000s, they were mainly involved in lobbying for new protected areas, the co-management of protected areas and campaigning for stricter environmental regulations. Today, conservation NGOs have established private protected areas and conservation companies in order to access conservation concessions and to trade with ecosystem services. Moreover, they are involved in formulating and enforcing socio-ecological safeguards and carbon certification systems. NGOs and conservation companies have taken on the former functions of state agencies: they develop rules for managing protected areas, trade with ecosystem services and have established private security agencies to protect their conservancies.

REDD+ in particular has created a whole new set of (mostly non-binding) rules, recommendations and guidelines. The trading of REDD+ credits and multilateral or bilateral result-based payments for emission reductions require homogenous rules for carbon accounting but also to govern the acknowledgement of community rights and participation processes. The result is an emerging transnational scale of REDD+ governance. However, REDD+ has not yet led to coherent and uniform transnational rules. The current situation is rather characterized by a number of fragmented, sometimes competing scales of regulation. This is also reflected at the national and sub-national scales where many different forest-based mitigation initiatives exist in parallel to each other, some of which even compete or contradict one another. Even more importantly, many of the new Indonesian REDD+ regulations, policies, strategies and letters of intent have not yet been implemented or have been challenged by other state apparatuses, hindering the construction of a coherent national scale of REDD+ regulation. Furthermore, many of the MoF REDD+ regulations remain unspecific and seem to be irrelevant at the project scale. Recently, the closing of the REDD+ Agency, the lack of reference to REDD+ in Indonesia's NDC and in a recent mid-term development plan, indicate that REDD+ is a contested mechanism at the national scale.

The various UNFCCC legal documents, the criteria of transnational carbon standards (e.g. CCBS), and the safeguards of donors (e.g. the BMZ human rights policy) have at least potentially strengthened the rights of local and especially of indigenous communities vis-à-vis national forest agencies, private companies, conservation NGOs and donors. In this context, REDD+ may have changed the dialectical relationship between structure and agency. Indications for this changed relationship are AMAN's success at the constitutional court, the consideration of FPIC in forest carbon standards, the acknowledgements of customary land tenure in Indonesia's national REDD+ strategy, the Cancun Safeguards, and probably also the ability of SPI to use the Harapan Rainforest project for SPI's and La Via Campesina's transnational campaigns against offsetting.

REDD+ and forest carbon offsetting link emitters in the North to land conflicts in the Global South, thus contributing to the transnationalization of alleged local land-tenure conflicts. REDD+ provides entry points for transnational resistance campaigns tackling questions of global climate justice. The following Chapter 5 focuses on this new kind of transnationalized agrarian conflict that arises in the context of the implementation of privatized conservation and REDD+ initiatives in Indonesia. The simplistic logic of market environmentalism meets the complexity of Jambi's land tenure regime outlined in Chapter 3. In this situation, new conflicts and new alliances among actors are emerging while old pre-existing conflicts change their meanings.

Notes

- 1 Article 72 requests developing country parties "[...] when developing and implementing their national strategies or action plans, to address, inter alia, the drivers of deforestation and forest degradation, land tenure issues, forest governance issues, gender considerations and the safeguards identified in paragraph 2 of appendix I to this decision, ensuring the full and effective participation of relevant stakeholders, inter alia indigenous peoples and local communities".
- 2 This meeting was held in Bogota in the context of the German-, Norwegian- and UK-financed REDD+ early mover program. I had the opportunity to participate.
- 3 Interviews with key informants in Bungku, 12.09.2012 and in Tanjung Leber, 21.07.2013 and with CAPPA activists in Jambi, 18.07.2013 and based on an unpublished KfW document.
- 4 Interviews with a staff member of the Ministry of Finance, Jakarta, 19.07.2012 and with a staff member of CIFOR, Bogor, 26.07.2012.
- 5 Interview with a staff member of ZSL, Bogor, 27.08.2012.
- 6 Interview with a staff member of the Norwegian Forest and Climate Initiative, via telephone, 11.12.2012.
- 7 Interview with a staff member of CIFOR, Bogor, 26.07.2012 and with a staff member of the Ministry for Finance, Jakarta, 19.07.2012.
- 8 Interview with a staff member of the Ministry of Forestry, Jakarta, 23.07.2012.
- 9 Interview with a staff member of CIFOR, Bogor, 26.07.2012.
- 10 Interview with a staff member of Sajogyo Institute, Bogor, 13.08.2013.
- 11 Interview with an AMAN activist, Jakarta, 27.07.2012.
- 12 Interview with a staff member of CIFOR, Bogor, 26.07.2012.
- 13 Interview with a member of the KOMDA REDD+, Jambi, 15.08.2013.
- 14 Interview with a staff member of the sub-district administration of Kumpeh, Tanjung/Suakandis, 02.09.2013, and with a key informant in Tanjung Lebar, 25.07.2013.
- 15 Here, I do not describe all actors mentioned in Figure 4.1 in detail. I only describe the role of the most relevant actors; others were introduced earlier or will be introduced in Chapter 5.
- 16 Interview with activists of Gita Buana, 22.08.2013, Jambi.
- 17 Interview with activists of CAPPA, 18.07.2013, Jambi.
- 18 Interview with activists of SETARA, 18.07.2013, Jambi.
- 19 Interview with a staff member of the Ministry of Forestry, Jakarta, 23.07.2012.
- 20 The terms ecosystem restoration concession and private conservation concession are used as synonyms.
- 21 Interview with a staff member of Burung Indonesia, Bogor, 11.10.2012.
- 22 Interview with a staff member of Burung Indonesia, Bogor, 11.10.2012.
- 23 Interview with a staff member of Carbon Synthesis, Jakarta, 11.10.2012.
- 24 Interview with a staff member of the Ministry of Forestry, Jakarta 19.07.2012 and 23.07.2012.

- 25 Interview with a staff member of Carbon Synthesis, Jakarta, 11.10.2012.
- 26 Interview with a staff member of Burung Indonesia, Bogor, 11.10.2013.
- 27 Official name used by the Ministry of Forestry for the production forest block located on both sides of the border region of Jambi and South Sumatra.
- 28 Decree of the Minister of Forestry No. SK.83/Menhut-II/2005, dated April 1, 2005.
- 29 Interview with a staff member of Burung Indonesia, Bogor, 11.10.2012.
- 30 Interview with a staff member of Burung Indonesia, Bogor, 11.10.2012.
- 31 Interview with a staff member of Burung Indonesia, 11.10.2013, Bogor.
- 32 Interview with a staff member of PT REKI, 02.09.2012, Jambi.
- 33 Interview with a PT REKI staff member in Bungku, 30.07.2013.
- 34 Interviews with a PT REKI staff member in Jambi, 02.09.2012 and with a PT REKI staff member in Bungku, 23.09.2012, 30.07.2013 and 31.07.2013.
- 35 The mitra settlement is a resettlement initiative for Batin Sembilan of the conservation company PT REKI. The participating families lived before scattered over the concession
- 36 Interviews with a PT REKI staff member in Jambi, 02.09.2012 and with a PT REKI staff member in Bungku, 31.07.2013.
- 37 Interview with a PT REKI staff member in Bungku, 31.07.2013.
- 38 Interview with a key informant in Bungku, 12.09.2012.
- 39 Dragon blood, Daemonorops draco, is a specific rattan species that produces a red resin.
- 40 Interview with an ZSL staff member, Bogor, 27.08.2012.
- 41 Interviews with an ZSL staff member, Bogor, 27.08.2012 and staff of the Berbak National Park Agency, Jambi, 19.08.2013.
- 42 Interview with an ZSL staff member, Bogor, 27.08.2012.
- 43 Interview with a staff member of Dinas Kehutanan Provinsi Jambi, 27.08.2013.
- 44 Interview with an ZSL staff member, Bogor, 27.08.2012.
- 45 Interviews with key informants in Seponjen, 10.09.2013 and 11.09.2013.
- 46 Interview with a key informant, Kampung Laut, 30.08.2013.
- 47 Interview with a key informant in Kampung Laut, 30.08.2013.
- 48 Interview with key informants in Seponjen, 08.09.2013, 12.09.2013 and 13.09.2013 and in Kampung Laut, 29.08.2012 and 04.09.2013.
- 49 Various actors run the different community involvement programs, the most advanced of which is the community reforestation and conditional land-tenure program run by Jambi's provincial forest service.
- 50 Interview with a staff member of the ZSL in Bogor, 27.08.2012.
- 51 Dyera costulata, syn. D. laxiflora
- 52 Nephelium lappaceum
- 53 Interview with a staff member of Dinas Kehutanan Jambi in Jambi, 27.08.2013.
- 54 Interview with a key informant in Seponjen, 09.09. 2013.
- 55 Interview with a key informant in Seponjen, 10.09.2013.
- 56 Interview with a key informant in Kampung Laut, 30.09.2013.
- 57 Interview with a key informant in Kampung Laut, 01.09.2013.
- 58 Interview with a key informant in Kampung Laut, 29.08.2013.
- 59 Interview with a key informant in Kampung Laut, 28.08.2013.
- 60 Interview with a key informant in Seponjen, 12.09.2013.
- 61 Interviews with a project manager of ZGF, Jambi, 31.08.2012, with staff of PT REKI, Jambi, 02.09.2012 and with a staff member of Burung Indonesia, 11.10.2013.

5 Transnationalized agrarian conflicts in the REDD+

This chapter focuses on the transnational dimensions of agrarian conflicts and peasant resistance. It investigates the different resistance strategies of peasants and indigenous groups vis-à-vis conservation NGOs and apparatuses of the state. It provides successful examples of peasant resistance challenging the commodification of forest carbon and disentangles conflicts between development and conservation-oriented apparatuses of the state.

Access to and control of Sumatra's forests have been subject to contestation, especially after the regime change of the late 1990s. As outlined in Chapter 3, peasants and indigenous communities supported by sub-national governments were able to challenge centralized authority over the state forest territory and started to regain control of former customary land. However, the state forest territory remained under the de jure control of the Ministry of Forestry, leading to highly complex and ambiguous land and forest tenure and to sometimes violent conflict involving peasants, indigenous groups, various state agencies and corporate actors. Conflicts among peasants and oil palm and timber plantation companies were notably violent. However, they also fostered the formation of local resistance movements and provided the opportunity for peasants to establish alliances with the transnational and national peasant and indigenous rights organizations that emerged across the archipelago after the regime change.

This dynamic and contested political landscape provides context for REDD+ and market-based conservation interventions and peasant resistance on the island of Sumatra. In particular, REDD+ and the increasing influence of private actors described in Chapter 4 have not only changed Indonesia's conservation landscape, they have also changed the meanings and the spatial extent of apparently local conflicts about access to and control over forests. REDD+ has strong implications for environmental and climate justice. It links actors with emission-intensive lifestyles in the Global North and in urban centers with peasants and indigenous groups living at the forest margins, leadings to new transnational alliances and new transnational conflicts. Apparently local conflicts about Jambi's forests became conflicts about the ability to define a forest as a "carbon toilet for the rich countries" or as a resource for regional development, swidden farming and agricultural expansion.

REDD+ and the emergence of the indigenous rights discourse changed the dialectical relationships between structure and agency. The acknowledgement of indigenous rights in international law as well as in the emerging REDD+ governance framework provided additional legitimacy for ethnicity-based land