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1 The economic case for prioritising governance over financial incentives in 2 REDD+

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Abstract

This article contributes to the ongoing debate on the role of public policies and financial 5 incentives in Reducing Emissions from Deforestation and forest Degradation (REDD+). It 6 argues that the subordination of policies to results-based payments for emission 7 reductions causes severe economic inefficiencies affecting the opportunity cost, 8 transaction cost and economic rent of the programme. Such problems can be addressed 9 by establishing sound procedural, land and financial governance at the national level, 10 before REDD+ economic incentives are delivered at scale. Consideration is given to each 11 governance dimension, the entry points for policy intervention and the impact on costs. 12 International support must consider the financial and political cost of governance 13 reforms, and use a pay-for-results ethos based on output and outcome indicators. This 14 can be done in the readiness process but only if the latter's legal force, scope, 15 magnitude and time horizon are adequately reconsidered. In sum, the paper provides 16 17 ammunition for the institutionalist argument that UNFCCC Parties must prioritise governance reform between now and the entry into force of the new climate agreement 18 19 in 2020, and specific recommendations about how this can be done: only by doing so will they create the basis for the programme's financial sustainability. 20

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Keywords: economic efficiency, economic incentives, multi-level governance, North South, policy options, REDD+

1 Introduction

In the negotiations for a new climate change protocol that is set to enter into force by 2 2020 (UNFCCC, 2011b), Reducing Emissions from Deforestation and forest Degradation 3 4 (REDD+) is one of the mitigation actions that enjoys most support among the Parties to the UN Framework Convention on Climate Change (UNFCCC). Initially conceived as a 5 6 straightforward transfer of financial incentives to avoid deforestation in developing 7 countries, REDD+ has evolved, at least in its conceptual form, into a complex programme which combines policy approaches and positive economic incentives to 8 support a range of climate mitigation activities in the forest sector. The programme has 9 10 an ambitious goal to reduce, halt and reverse global forest emissions (UNFCCC, 2010, 2011a), which account for 12-15% of total greenhouse gas emissions (van der Werf et 11 al., 2009). 12

A lot has been written about public policies and financial incentives as two 13 complementary but formally distinct approaches to REDD+ (Angelsen, 2008; Angelsen 14 15 et al., 2009; Corbera et al., 2010; Eliasch, 2008; Munden, 2011; Streck et al., 2009; Wertz-Kanoinnikoff and Angelsen, 2009; Westholm et al., 2011), and several authors 16 17 voiced explicit or implicit criticism against the *de facto* subordination of the policy approach to the economic approach in the current programme architecture (Clements, 18 2010; Gregersen et al., 2010; Global Witness, 2009; Karsenty and Ongolo, 2011; 19 Kanowski e al., 2011; Robledo et al., 2008; Sandbrook et al., 2010). The present paper 20 21 contributes to this debate by highlighting that the secondariness of policies compared to the incentive approach causes severe economic inefficiencies in implementation, which in 22 23 turn undermine the programme's capacity to achieve its stated goal. It disputes that such problems can be addressed by prioritising policy interventions aimed at establishing 24 a compound governance system at the national level with focus on three areas: 25 26 procedural governance, land governance and financial governance. It also argues that this can be done during the 'readiness' phase only if the latter's legal force, scope, 27 magnitude and time horizon are adequately reconsidered. 28

1 The article is organised in four parts. The first part briefly describes the approach 2 underpinning the current design of REDD+, questioning its ideological assumptions and highlighting the disconnection between the overarching policy framework and the 3 emerging practice. The following section illustrates the economic inefficiencies embedded 4 5 in such approach. The third section explores how investing in governance can improve programme implementation. The fourth part discusses the practical and political 6 challenges to realising governance reforms under REDD+. Finally, the conclusions 7 elaborate on the cost-saving potential of the proposed approach, as well as on its 8 political consequences. The economic analysis will be predominantly theoretical and 9 10 qualitative.

11

12 **1.** Theory, practice and inconsistencies in REDD+'s current design

The standard design options in the formulation of an environmental protection programme are command-and-control regulations and economic incentives (Groosman, 2000). Regulations are promulgated by a legitimate authority with the power to forbid or restrict environmentally harmful activities and the capacity to enforce any decision to that effect. By contrast, economic incentives induce conformity with the desired conduct by appealing to the stakeholders' self-interest, or the *ex-ante* calculation of the costs and benefits of an action (Scott, 2000).

REDD+ has taken a sharply neoliberal approach in discourse by privileging financial 20 incentives over regulatory measures (Hiraldo and Tanner, 2011; Humphreys, 2009). The 21 argument is that, if forest carbon is given a monetary value, rational economic actors 22 can decide between conservation and development based on opportunity-cost 23 considerations: this way, market forces operate to balance climate objectives and other 24 legitimate development, with limited need for complex policy arrangements (Portela et 25 al., 2008). International REDD+ channels payments from industrialised nations to 26 developing countries that would otherwise lack the self-interest or the capacity to reduce 27 28 deforestation and degradation. This approach is consistent with the principle of common

1 but differentiated responsibilities enshrined in article 3(1) of the UNFCCC, and it is also 2 more likely to deliver results given the developing countries' reluctance to allow a binding international regulation of forest use (Dimitrov, 2005; Humphreys, 2006; 3 Humphreys, 2001; Kanowski et al., 2011). The provision of positive economic incentives 4 5 is also prominent in national-level implementation, partly because repressive regulations have been ineffective in the developing countries' forest sector (Gregersen and Contrera, 6 2010; Kaimowitz, 2003). Early demonstration activities and international policy 7 discussions confirm that the ultimate objective of national and sub-national REDD+ 8 actions is to distribute payments among stakeholders in order to change their 9 environmental management practices (Alston and Anderson, 2011; Angelsen, 2009). 10

The theory that economic incentives can efficiently reduce forest emissions is disproved 11 12 by a host of practical problems affecting implementation that can only be solved through targeted policy actions, e.g.: social inequality, tenure insecurity, corruption, widespread 13 illegality, regulatory deficiencies, general lack of alternatives and capacity, conflicting 14 development policies, multiple driver dynamics and complex political economies. 15 16 Realisation that these problems are widespread and would be a stumbling block facing any market or non-market effort to reduce deforestation (Angelsen, 2009; Blom et al., 17 2009; Clements, 2010; Gregersen and Contrera, 2010; Gregersen et al., 2010; Hall, 18 2010; Kanaowski et al., 2011; Robledo et al., 2008; Sandbrook et al., 2010) prompted a 19 20 moderate change in discourse. A new institutionalist perspective centred on the concept of governance emerged with the introduction of a phased approach to REDD+ (Hiraldo 21 and Tanner, 2011), whereby the transfer of international incentives builds on the prior 22 development of ad hoc legal, institutional and capacity frameworks (Vatn and Angelsen, 23 2009). Developing countries enter a 'readiness' process in which they formulate national 24 strategies, policies and measures assisted by multilateral institutions (Phase 1) (World 25 Bank, 2011b) and then receive international support for their implementation (Phase 2) 26 (see: FIP, 2012); payments for changes in and removals of emissions (Phase 3) are 27 28 conditional upon the achievement of a status of 'readiness' (UNFCCC, 2010, article 73),

though it is unclear whether at what stage of the implementation of the preparatory
strategies, policies and measures this will be achieved.

The phased approach to REDD+ has not removed the underlying inconsistency between 3 4 the international design structure of the programme and the progressive identification of socio-economic problems requiring policy or regulatory interventions at the national 5 6 level. This inconsistency manifests itself in a number of ways. First, the legal force of the 7 readiness process gives rise to ambiguity. Both the programme's safeguard policies, included in the UNFCCC text to mitigate negative social and environmental impacts 8 potentially arising in implementation (UNFCCC, 2010, Appendix II), and multilateral 9 10 requirements for national readiness plans are couched in soft, non-legally-binding language; the monitoring, reporting and verification of safeguards was dropped in favour 11 of an optional 'system to provide information' (UNFCCC, 2011, Appendix I); and 12 readiness itself is only encouraged but not mandated in the UNFCCC text (2010, 13 paragraphs 73 and 74), leaving doubts about the extent to which developing nations 14 must conform to it in order to receive payments. Secondly, there is a problem of *scope*. 15 16 When drafting national REDD+ strategies or plans, countries are asked to assess and address a number of elements, yet 'difficult' issues such as corruption, planning and 17 tenure are either overlooked or blandly addressed (Goerg-Williams et al., 2009, 2010, 18 2011, 2012). This hesitation in dealing with some of the underlying causes of forest loss 19 can severely affect the programme's effectiveness and efficiency, as it will be shown 20 below. The third problem is the *timeframe*. The general attitude towards readiness is 21 that policy adjustments must be implemented as rapidly as possible, so as to allow 22 greater investments in emission reduction activities: this ignores that progress in areas 23 like governance is built over several years or decades (Evans and Rauch, 1999; Wertz-24 Kanounnikoff and McNeil, 2012), creating a tension between expediency and 25 effectiveness. Finally, there is a problem with the *magnitude* of the support provided to 26 readiness. Financial assistance, in particular, is materially insufficient to trigger far-27 28 reaching reforms in recipient countries and it could at best support initiatives with limited impact (for an example, see: FIP, 2012); capacity-building and technical assistance for
 governance are also gravely insufficient.

The lack of a clear obligation to reform forest governance structures, the absence of benchmarks to assess a country's readiness level, the limited scope and magnitude of international support for policy and regulatory action, and pressures to move quickly past the readiness process diminish the contribution of public policies and regulatory measures to REDD+ in favour of market-based implementation. The next section will provide further evidence to the argument that governance reform is a prerequisite for efficiency in REDD+.

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2. Economic inefficiencies inherent to the current programme design

REDD+ is presented as a relatively straightforward, quick and cost-effective climate 12 mitigation tool (Gullison et al., 2007; Stern, 2007; Eliasch, 2008; Kindermann et al., 13 2008), but the veracity of this claim is highly dependent upon the quality of the 14 programme design. Leaving governance reforms to the discretion of recipient 15 governments with often no capacity or political interest to carry them out (Pesket and 16 Brockhaus, 2009; Corbera et al., 2010; Skutsch and McCall, 2010) de facto reduces the 17 ability of international policy-makers to correct flaws in programme design once market 18 forces begin to operate. Some design failures are already evident and could undermine 19 the programme's economic efficiency, which in turn bears consequences on its 20 effectiveness (Angelsen, 2009). 21

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23 <u>2.1. Inefficiencies relative to opportunity costs</u>

On paper, the largest share of resources invested in REDD+ should be used to compensate the opportunity costs borne by programme participants (Boucher, 2008; Pagiola and Bosquet, 2009; Olsen and Bishop, 2009). Opportunity costs indicate the difference in net benefits between forest exploitation and the alternative land use; they

1 are thus defined as much by the profitability of the land-use change activity as by the 2 profitability of the sustainable alternative land use. Ideally, REDD+ would generate 3 capital investment that would help make sustainable economic alternatives at least as profitable as deforestation/degradation, consistent with an overarching sustainable 4 5 development objective (UNFCCC, 2010, paragraphs 6, 10, 48 and 65). However, it is not uncommon to find legal, cultural, knowledge-related or infrastructural barriers to the 6 implementation of such activities (Cohn et al., 2011; Fisher et al., 2011; Klooster, 2002; 7 Molnar et al., 2007) which, if unaddressed, could frustrate international support in this 8 area. REDD+ payments would then have to compensate opportunity costs as high as the 9 entire foregone profit from deforestation/degradation. 10

Overcoming barriers to sustainable revenue-generating activities may ensure a long-11 12 term reduction of opportunity costs, although in the short term it is likely to delay the implementation and increase the cost of emission reduction activities (Fisher et al., 13 14 2011; PRP, 2009). Inefficiencies may occur if, in a rush to secure a carbon transaction, investors ignore such barriers. This has not been the case of some early projects using 15 16 integrated social and environmental standards (CCBA, 2008; SES, 2010) and large-scale initiatives linked to REDD+ (Rival, 2012), but the evidence is still too scarce and the 17 pressure to generate carbon offsets too little for concluding that the latter will be the 18 standard approach. In a large-scale compliance mechanism it is imaginable that 19 20 investors' interest in lowering opportunity costs will depend on the time-lag for the occurrence of the resulting profits and on the contractual arrangements defining their 21 allocation; indeed, aside from sustainable forest management, there is little evidence 22 that the programme will mainstream the implementation of complementary revenue-23 generating activities. For opportunity costs to be systematically minimised, regulatory 24 and policy intervention must establish adequate programmes, processes and dedicated 25 funding streams, as will be discussed in section 3. 26

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28 <u>2.2. Inefficiencies relative to transaction costs</u>

1 Transaction costs arise from those activities that are necessary to the transparency and 2 credibility of the programme but which do not generate emission reductions, such as: 3 the negotiation of transaction contracts; the measuring, reporting and verification (MRV) 4 of emissions reduction; the enforcement of contracts; and measures to prevent leakage 5 (displacement of emissions) and to ensure permanence (reversal of emission reductions) 6 (Allston and Anderson 2011; World Bank, 2011).

7 Rushing towards performance-based payments for emission reductions (phase 3) would mean facing higher transaction costs. The MRV and marketing processes carried out by 8 international intermediaries could cost as much as 40% of the total investment both for 9 10 projects (Plan Vivo, 2011) and jurisdictional-level initiatives (Viana et al., 2009). Economies of scale can reduce these costs (Böttcher et al., 2009; Angelsen et al., 2008), 11 12 but scaling up implementation may affect MRV accuracy (Densham et al., 2009); this creates uncertainties that can only be addressed via conservative accounting measures 13 which, in turn, increase total costs (Angelsen, 2008; European Commission, 2010). 14 Furthermore, ensuring the additionality of emission reductions vis-a-vis problems of 15 16 leakage and permanence is bound to push transaction expenditures further up; these socalled 'stabilisation costs' can be very high (World Bank, 2011), but would decrease with 17 national-scale implementation (Wertz-Kanounnikoff and Angelsen, 2009). Finally, costs 18 are also affected by inaccurate reference levels for avoided deforestation/degradation, 19 20 which is a virtual estimate of the likely level of emissions in the absence of a REDD+ action. In particular, with the use 'forward-looking' levels that take into account national 21 circumstances and development factors, REDD+ could pay for reducing emissions that 22 would not have been generated otherwise (e.g. see the case of Guyana: MoU, 2009). 23 The inefficiency of this approach has been recognised (Karsenty, 2009; Munden, 2011), 24 with some observers suggesting that it could 'increase payment by a factor of between 2 25 and 100 times' (McKinsey, 2009). The above problems are as much of a technical nature 26 as they are a consequence of a policy and regulatory void. 27

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1 <u>2.3. Economic rents</u>

Under a market mechanism, private rents could capture a very large part of the 2 resources invested in REDD+. In a hypothetical 'perfect system' payments would be 3 4 targeted to the asset holder's opportunity cost; in practice, information gaps make it virtually impossible to assess opportunity costs accurately. Rents accrue from the 5 6 difference between the total cost of implementing a REDD+ activity and the sum paid for it. If payments are determined by the market value of avoided or sequestered carbon 7 emissions, there would be little or no consideration for the actual cost of a REDD+ 8 activity at the level of credit purchase. Moreover, because the inelastic price paid by the 9 10 carbon buyer generates profits for suppliers with low opportunity and implementation costs, there may be an incentive to cut expenditures to the detriment of non-mandatory 11 12 social and environmental co-benefits.

13 Eliasch (2008) estimates that the combined level of economic rent for carbon suppliers could mop up between 41% and 55% of the total resources invested. Whether profits 14 15 remain with the asset holder or are captured by financial intermediaries will depend on the specific contractual arrangements. But there are strong indications of where the 16 17 balance would lie. In the case of the Rimba Raya REDD+ project in Indonesia, the Russian gas giant Gazprom was designated as the sole financial intermediary and 18 marketer of carbon credits; a report from Reuters revealed that the company would 19 benefit from 56% of the credit's first pricing in the secondary market (Fogarty, 2011). 20 The enormous profit for international investors acting as financial intermediaries is only 21 partly explained by the legitimate expectation to make returns proportional to the 22 23 investment risk (CMIA, 2011), which is particularly high due to the volatility of carbon price and to governance problems in developing nations. A more decisive factor may be 24 that the carbon market could be dominated by few financial intermediaries with the 25 capacity to source and aggregate forest carbon credits from a multiplicity of projects and 26 the power to dictate the price of the asset purchased - i.e. an 'oligopsony' or 27 'monopsony' (Munden, 2011). In this scenario, the distribution of profits could mirror 28

existing commodity markets allocating over 60% of the global investment to
intermediaries, 30% financing project costs, 5% captured by governments, and a mere
3% covering the opportunity cost of REDD+. These figures mirror the distribution of
profits and resources in other commodity markets (Munden, 2011).

It is also quite possible that government elites will act as rent-seekers in REDD+ implementation, especially in countries were most forests already belong to the State (Knox et al., 2011). This would be an even likelier prospect if untransparent and corrupt governments were to claim exclusive tenure rights over forest carbon and act as financial intermediaries. Regulatory action and targeted policies at the national level are thus needed to regulate profit allocation so as to prevent the inappropriate or illegitimate appropriation of rents by private investors or public actors.

Taken together, the inefficiencies of the current programme design are substantial and severely hamper its effectiveness, particularly considering the relative scarcity of resources (e.g. compare available cost estimates, Eliasch, 2008, with the programme's financial firepower, REDD+ Partnership, 2012). In order to maximise the efficiency of REDD+, the following leverage points can be addressed through regulatory and policy measures, as will be discussed in the next section:

- Opportunity costs can be minimised by removing barriers to the implementation
 of sustainable alternatives to deforestation/degradation;
- Monitoring, protection and stabilisation costs can be lowered by recognising
 stakeholder rights and improving their participation;

Government rents can be reduced by improving transparency and accountability
 in decision-making;

- Speculative financial profits can be controlled by establishing a profit ceiling for intermediaries (private and public), or by better regulating their operations.
- Transaction costs can be reduced by setting more credible reference levels which ensure additionality;
- Transaction costs can also be lowered by bundling together projects and

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programmes which creates economies of scale in MRV, financing and crediting;

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3 3. Policy priorities for REDD+: three dimensions of a national governance 4 system

5 Forest loss is a complex phenomenon with ramified consequences on various sectors of the economy and society. Therefore, regulatory and policy action in this area cannot 6 7 consist of isolated, ad hoc interventions but it should be framed within a broader 8 governance context. The elusive concept of 'governance' (Kaufman et al., 2010; Krahman, 2003; Mimicopoulos et al., 2007; Palmer et al., 2009), has been defined as 9 'the exercise of political, economic and administrative authority in the management of a 10 country's affairs at all levels [...] comprising the complex mechanisms, processes and 11 institutions through which citizens and groups articulate their interests, exercise their 12 legal rights and obligations, and mediate their differences' (Plamer et al., 2009). 13

Across the multiple levels of operation of REDD+, the main (though not the only) 14 interlocutors of the international community are the developing country governments 15 bearing responsibility for the actions that are taken to reduce emissions (outputs), as 16 well as their measured effectiveness (impacts). This is particularly so under national-17 level implementation. This section will focus on three specific dimensions of governance 18 that constitute the building blocks of an archetypal national system, albeit with the 19 caveat that there cannot be a 'one-size-fits-all' approach in this field (Angelsen et al., 20 2009). Some of the ideas presented here are less original than others, but attention is 21 drawn to their mutual interconnectedness: (1) good procedural governance builds the 22 conditions for establishing (2) a sound land governance system mapping out a country's 23 vision for sustainable development, which is then realised using (3) a dedicated financial 24 infrastructure and support services to distribute incentives and investments (financial 25 governance). 26

1 3.1. Procedural governance

Just as procedural justice defines the character of a fair judicial process, procedural 2 3 governance is here intended to define a fair and effective process by which decisions 4 regarding the public sphere are taken (formulation) as well as the means through which these decisions are implemented and enforced (execution). Policy effectiveness rests on 5 6 the objective quality of decisions as much as on their perceived legitimacy (Palmer et al., 7 2009), which in turn is strenghtened by a sound governance process. The formulation and execution of public policies in rainforest nations is often so defective that it severely 8 limits a government's ability to function (Corbera et al., 2010; Karsenty and Ongolo, 9 10 2011; Tacconi et al., 2010; World Bank, 2006), and REDD+ payments could exacerbate these problems if adequate action is not taken upfront (Hansen et al., 2009; Phelps et 11 12 al., 2010; Sikor et al., 2010; Tacconi et al., 2009; Cadman and Maraseni, 2012).

13 Four areas stand out, among others, as core determinants of governance quality: transparency, citizen participation, freedom from corruption and predominance of the 14 15 rule of law (FAO, 2011; Mimicopoulos et al., 2007; Sheng, 2012; UNDP, 1997). Of these, only participation is consistently addressed in REDD+ readiness. Further policy and 16 17 regulatory measures - such as law enforcement support programmes, judiciary reforms, anticorruption legislation and so forth - should be pursued throughout the readiness 18 phase in synergy with existing social development programmes. These elements can also 19 be looked at from an equity perspective, for instance as advocated in the right-based 20 approach to REDD+ (Hiraldo and Tanner, 2011). Embedding the social dimension in 21 programme implementation is thus essential to its effectiveness and efficiency. 22

Because a government's general *modus operandi* affects decisions in the land use and forest sectors, focusing on forest governance only downplays the importance of systemic institutional changes (Tacconi et al., 2009). The cross-sectoral aspect of procedural governance is particularly important in REDD+ because it provides a means for fostering cooperation (i.e. between national and international stakeholders, public authorities, interested communities and businesses) in a sector where no single actor is in a position

to unilaterally control the behaviour of the others. The national government acts as a
linchpin in this complex relationship between governance levels and within a multistakeholder process that emphasises the role of sub-national public and private entities
(Alston and Anderson, 2011; Emerson et al., 2011; Forsyth, 2009).

5 Improving procedural governance has an indirect effect on REDD+ in so far it creates an 6 enabling environment for its effective and efficient implementation. More obviously, it 7 would reduce rents and implementation costs by contrasting the illegal appropriation of resources by public or private actors; it would lower stabilisation costs by favouring the 8 emergence of political support for REDD+ and contrasting the privatisation of the 9 10 political agenda (Karsenty and Ogolo, 2011); it could also help reduce opportunity costs by helping to identify the entry points for addressing the drivers of forest loss; 11 12 furthermore, given the extent of the existing conservation commitments and the emissions generated in areas formally under protection, improving developing countries' 13 14 capacity to implement and enforce environmental laws and policies could go some way towards achieving the programme's goal (Wertz-Kanounikoff and Kongphan-anpirak, 15 16 2009; Kanowski et al., 2011). Instead of duplicating the work of governance programmes already in place, REDD+ could breathe new life into current international 17 efforts raising their profile, providing additional resources and making them a political 18 priority. There are evident limits to what can be achieved under REDD+ in this area but 19 20 also concrete opportunities, as will be discussed in section 4.

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22 3.2. Land governance

The main driver of forest loss is market demand for wood and agricultural crops (FAO, 2010; Gibbs et al., 2010). Over the long term, REDD+ must both restrain the demand for such products and make their supply more efficient using existing lands. But while internationally agreed demand-side measures could only enter into force as part of the 2020 climate agreement, supply-side measures could be introduced in developing nations before 2020 through the REDD+ readiness process.

1 Improving land governance can indeed make the supply of forest and agricultural 2 products more efficient. Land governance denotes 'the policies, processes and 3 institutions by which land, property and natural resources are managed', and it includes 'decisions about access to land, land rights, land use and land development' (Deininger 4 5 and Enemark, 2010). One way to improve land governance is by supporting land administration systems, which provide the infrastructure for implementing land policies 6 and land management strategies (Palmer et al., 2009; Williamson et al., 2010). Many 7 developing countries would benefit from financial and technical assistance in this area 8 (Dalal-Clayton and Dent, 1993; Dalal-Clayton et al., 2000; Deininger et al., 2010; 9 French and Natarajan, 2008; Larson et al., 2008). Although the exact interventions 10 needed to improve land administration can only be defined by nationally-specific 11 diagnostics, two focus areas seem particularly relevant in this context: tenure security 12 and spatial planning. Security of land and forest tenure - which includes the legal 13 recognition of informal rights (through registration, certification or other means) and 14 their protection against competing claims (Wendland, 2011) – is still very low in tropical 15 forest regions (Almeida et al., 2012; Sunderlin et al., 2008; White and Martin, 2003). 16 Tenure security is crucial to the effectiveness of REDD+ and other incentives that 17 challenge unsustainable models. For example, it could address the drivers of 18 deforestation (agricultural expansion) by attracting investments in agricultural 19 productivity in low-carbon regions, and forest degradation (logging) by promoting 20 community-based sustainable forest management (Sunderlin et al., 2008; Sayer et al., 21 2008); it could ensure permanence of emission reductions and prevent leakage by 22 promoting participation of *de facto* forest users (Cotula and Meyers, 2009); moreover, it 23 could provide legal certainty to the distribution of benefits and responsibilities in REDD+ 24 implementation by defining rights over land, forests and carbon (Angelsen, 2009; Cotula 25 and Meyers, 2009; Deininger et al., 2010; Knox et al., 2011; Mitchell and Zevenbergen, 26 2011). But under certain conditions tenure security can increase forest loss: e.g., the 27 promise of secure tenure rights on 'empty' forestlands may attract migration towards the 28 forest frontier (Pfaff et al., 2010); similarly, where secure tenure drives agricultural 29

intensification in the forest frontier, this may result, absent other policy interventions, in
 the continued conversion of forests (Carr, 2004). Removing perverse incentives of this
 kind is therefore as important to REDD+ as providing legal certainty to tenure.

4 Spatial planning introduces an element of collective rationality and resource efficiency in the way the territory is used. Two approaches are relevant for REDD+. The first is 5 6 segregation, a place-based approach that relocates harmful activities into less carbon 7 dense ecosystems. Spatial segregation is relevant for commercial drivers of land use change and is most suitable to protect relatively intact, remote areas with sparse 8 population. Indeed, it must consider infrastructure planning so as to prevent forest 9 access (e.g. building railways instead of roads, redesigning routes and planning 10 protective measures when new roads open access to forest areas). Examples of 11 12 segregation are the relocation of palm oil production onto degraded lands in Indonesia (Gingold et al., 2012; Ruysschaert et al., 2011) and land sparing through cattle 13 intensification in the Brazilian Amazon (Cohn et al., 2011). In contrast, spatial policies 14 that facilitate the integration of the human and natural subsystems at landscape level 15 16 are most relevant where local people are driving deforestation and should therefore be standard practice in densely populated forest frontiers. The aim of spatial integration is 17 to promote a transition towards ecological forms of land use which do not exclude 18 economic development (Geisler, 2010; Whatmore and Boucher, 1992). A participatory 19 planning process based on the registration of tenure rights and on the collective 20 negotiation of their restriction can more easily identify alternative development 21 opportunities at the landscape level and appropriate entry points for the best use of 22 REDD+ funds (Goodstadt and Rosário Partidário, 2009). An example of such approach in 23 the REDD+ context is provided by Fisher et al. (2011), whose empirical study in 24 Tanzania showed that helping local people use their resources more efficiently inherently 25 addresses the causes of forest loss. Not only does this lower the opportunity cost of 26 REDD+, but it can also reduce implementation and stabilisation costs by providing a 27 28 platform for stakeholder cooperation in carbon monitoring and protection, enhancing

coordination across sectors and levels of government and generating information that
 increases the accuracy of reference levels.

3

4 3.3. Financial governance

5 As explained in section 1, REDD+ privileges monetary incentives over repressive regulations to break with the unsustainable pattern of production and exploitation. 6 7 Investments in procedural and land governance are thus a necessary but insufficient 8 condition for reducing forest emissions. One of the main tasks of international REDD+ is to build a framework for the generation of dedicated financial resources (Parker et al., 9 2009). While this will likely be regulated by an international framework, the mechanisms 10 that deliver finance to national and sub-national entities will probably be country- or 11 even context-specific (Angelsen, 2009). In order to realise the change in development 12 patterns agreed in the planning process, a transparent and equitable distribution of 13 incentives among domestic stakeholders legitimated by secure tenure rights is key. Such 14 result cannot be achieved by merely deregulating or liberalising the flow of international 15 capital (Rankin, 2001); instead, public authorities can and should play a more active role 16 of intermediation (Zadek et al., 2009). This can be done through the establishment of a 17 dedicated financial infrastructure and the targeted provision of business development 18 services (BDS). 19

The financial infrastructure - i.e. the institutions, information, technologies and rules 20 enabling financial intermediation (World Bank, 2009) - influences how different actors 21 gain access to funds within a jurisdiction. REDD+ will probably need its own set of rules 22 and institutions to manage a combination of national and international grants, loans and 23 results-based payments, dedicated funds as well as other resources which can contribute 24 to the programme goals vis-a-vis a wide spectrum of potential beneficiaries. Its task 25 would be to distribute resources at scale, where they are most effective, through a 26 transparent process and at favourable conditions for the recipient (i.e. on a non-27 28 commercial basis) so as to promote compliance. Additionally, a dedicated financial infrastructure would have the capacity to combine different funding streams for realising
actions with multiple impacts (such as climate adaptation, biodiversity protection and
rural development) and leverage standard investments in low profitable activities which
are capable of delivering REDD+ objectives. These synergies would provide substantial
savings in all cost categories.

6 The shape of a financial infrastructure will change according to the chosen 7 implementation mechanism. In case of centralised management of REDD+ finance, resources could converge into a trust fund or 'green development bank' and be disbursed 8 (as grants or low-interest loans) by financial and micro-financial institutions across the 9 10 territory in such a way as to prioritise social and environmental protection over profitability (Rankin, 2001; Wenner et al., 2004; Vatn and Angelsen, 2009; Zadek et al., 11 12 2009). This could reduce opportunity and transaction costs, especially if the microfinancing model becomes economically sustainable, but particular emphasis should be 13 14 placed on establishing mechanisms that ensure transparency and accountability in REDD+ revenue management so as to prevent rent-seeking behaviour by government 15 16 officials. A well-known model of financial intermediation in the context of REDD+ is Brazil's Amazon Fund, a national funding entity that combines public and private 17 resources dedicated to forest-based climate mitigation (Zadek et al., 2010). Another 18 proposal relevant to REDD+ envisages the creation of a sustainability-oriented financial 19 20 infrastructure that taps into available private capital using standardised financing schemes (i.e. without creating a new asset class such as carbon), and is backed by 21 public resources (Munden et al., 2012). 22

If a country opts for a decentralised model of implementation, excessive private rents (see, for instance, the problem of 'carbon cowboys': Carbon Positive, 2009) could also be tackled by an authority that oversees the relations between local stakeholders and international investors, or a specialised ombudsman. Alternatively, regulation can establish a limit to the profit of intermediaries and impose an equitable redistribution of surpluses among stakeholders beyond that ceiling. Finally, where relocation of

commercial activities is necessary, public authorities could balance strict environmental regulations with favourable credit conditions or subsidies for relocating agri-businesses onto suitable low-carbon lands. It is crucial that these corrective measures be thought through and harmonised at the international level before market-based implementation is allowed: leaving them to the discretion of developing countries competing to secure foreign investments may cause a race to the bottom similar to other regulatory environments (Mehmet and Tavakoli, 2003).

Finally, the financial governance system should also build the conditions for the efficient 8 and effective use of REDD+ incentives at the local level, for instance through 9 10 sustainability-oriented BDS (see Wenner et al., 2004). BDS lower opportunity costs by facilitating the development of remunerative economic alternatives to deforestation, 11 12 allowing a gradual shift from grant-based support to loans and the creation of an economic environment that reduces dependency from international assistance. This 13 14 deviation from the results-based disbursement of incentives acknowledges that, as explained in section 2, information gaps play a major role in fostering unsustainable 15 16 development models and require upfront investments in capacity building. BDS are important under any funding mechanism though their content should be tailored to the 17 recipients' preferences and circumstances. 18

19

20 4. Challenges in reforming governance through REDD+

Looking at past experience (Santiso, 2000), it is clear that REDD+ cannot singlehandedly solve governance problems across the tropics, and it is hard to predict how much difference it can make. A probabilistic (rather than deterministic) perspective is warranted: there is no certainty that international support will improve governance but chances will likely increase the more resources and political capital is invested.

Nevertheless, there is much that the international community can contribute in terms of technical, financial and political support. Technical assistance for governance reform is

1 important to improve problem diagnostic and the formulation of possible solutions, 2 especially in highly specialised areas such as land tenure, planning, financial infrastructure and the development of sustainable business models. Assistance to set up 3 credible monitoring of decision-making and outcomes is crucial to address procedural 4 5 governance problems (Global Witness, 2009). Financial assistance can cover the material costs and lost profits of implementing the reforms, such as establishing new institutions, 6 strengthening monitoring and enforcement capacity, relocating activities or intensifying 7 production in non-forested lands (see, for instance, the Ulu Masen project in Indonesia: 8 Rafli et al., 2007). 9

10 REDD+ most important contribution is that it can generate political momentum to move forward in this area. The implicit theoretical tenet in this discussion is that States are 11 12 self-interested actors which seek to maximise their individual utility, and participation in REDD+ is only possible if state interests are protected. As seen above, the programme 13 14 frames State interest in merely economic terms, i.e., whether participation will bring more benefits or constraints to the economy. Two further elements affecting the 15 16 acceptability of the programme are its international political significance (e.g. how much national sovereignty is eroded) and its consequences on the domestic political economy 17 (i.e. how participation shifts power among social groups and how this affects political 18 support). These interest variables are independent of each other or even conflicting: 19 20 political economy considerations may contrast with considerations about the overall economic benefit of participation; economic incentives may convince a government to 21 relinquish part of its sovereign control and so forth. Including governance reform in the 22 readiness phase arguably generates long-term economic benefits for developing 23 countries, yet these are too uncertain and distant in time; by contrast, international 24 pressure to reform national governance would be seen as an intrusion in domestic 25 affairs, while conferring tenure rights on local communities and empowering them with 26 favourable financial conditions may run against the interest of powerful domestic actors. 27 28 It is no surprise therefore that strong international overseeing of governance is opposed

1 by developing countries (Verchot and Petkova, 2010).

There are counter-arguments to this. Governance reform is often sought by stakeholders 2 that are losing out under current arrangements: empowering them reinforces domestic 3 4 pressure for change, which contributes to creating a sense of national ownership of the reform (Santiso, 2000). Because participation in REDD+ is voluntary and States are in 5 6 charge of their reform process, the international community would merely act as a willing counsellor and supporter. Moreover, financial incentives can be used 7 instrumentally as rewards for governance reform so that the rhetorical stick of political 8 pressure is matched by a very material carrot that - quite literally - pays the political 9 10 price of reform (as a comparable model, see: CPIA, 2010). In other words, the resultsbased ethos of the programme could be as well applied to governance assistance, 11 though some will have to be provided upfront. 12

Those resources that are delivered on a pay-per-result basis need an *ad hoc* (i.e. distinct 13 from carbon) metrics to measure governance performance. Intermediate financial 14 15 rewards could be awarded based on output indicators (e.g. strategies, policies and laws adopted, institutions created, population consulted etc). Participation in the third phase 16 17 of the programme, which is expected to deliver payments measured in billions of dollars (Eliasch, 2008), could be made conditional to the outcomes of governance reform (e.g. 18 some measure of the actual transparency of decision-making processes, the progress of 19 tenure clarification, the rule of law as perceived by stakeholders etc) but not on impacts 20 (i.e. quantified emission reductions), since improvements in governance do not directly 21 generate emission reductions. It is crucial that governance indicators are agreed 22 23 between donor and recipient countries through a participatory multilateral process which combines technical and political elements, such as those led by the UNFCCC subsidiary 24 bodies. 25

A further problem is that governance is known to change very slowly (Evans and Rauch, 1999; Wertz-Kanounnikoff and McNeil, 2012). Not only does this require a long-term international commitment to support the process, but it also creates a conflict with those

interested in progressing swiftly with REDD+ implementation. This problem must not be overstated: first, because – as said above – phase three of REDD+ will not be implemented at scale at least until 2020; second, because some countries are not too far from having the capacity to move to phase 3 (Estrada, 2012), chiefly Brazil (Wertz-Kanounnikoff and McNeil, 2012); finally, because there is scope to move ahead with REDD+ implementation even if some governance problems persist, as long as performance as a whole is deemed acceptable.

All in all, governance reform will be possible only if some support is found at all levels of 8 governance: the international community must be willing to invest time, financial 9 10 resources and political capital; national governments must have control over the process and objectives without being 'pushed' too hard; and stakeholders must feel that their 11 12 interests are protected or at least duly compensated. In this light, rather than an insurmountable constraint, the UNFCCC and other international fora are to be seen as 13 14 opportunities to raise the profile of these issues and to reinforce direct cooperation among willing actors, especially between the sub-national and international levels. 15

16

17 Conclusions

Substantial resources were invested in forest conservation in the past, with little success 18 (Sizer, 1994). This does not mean, as some have suggested (FERN, 2011), that 19 increasing financial resources for forest protection is unnecessary. But the provision of 20 incentives alone is unlikely to succeed, chiefly because the limitedness of regulatory 21 policies could greatly increase opportunity and transaction costs, while also allowing rent 22 seekers to capture much of REDD+'s resources. This paper reinforces the institutionalist 23 argument that REDD+ cannot be delivered by markets without previous investments in 24 national-level governance because rushing towards results-based payments for changes 25 in emission reductions would be a very inefficient and ineffective use of international 26 resources. Yet, at the same time, the analysis also corroborates the social equity 27 28 argument that effectiveness depends on whether investments reinforce a decentralised,

1 right-based approach to governance.

2 The absence of adequate information on current and alternative policy scenarios means 3 that a global quantitative estimate of the potential savings generated by investments in 4 governance cannot be provided. Such calculations are better framed within a national or 5 sub-national context, while at this level of analysis it is only possible to make some 6 general considerations. Some studies provide quantitative indications of readiness 7 investments that cover the material cost of some moderate policy reforms. For instance, a UNFCCC-commissioned report (2009) estimates readiness investments to be in the 8 range of US\$ 400-700 million a year compared to US\$ 3-6 billion a year for opportunity-9 10 cost compensation (for a total cost of roughly US\$ 4-7 billion). Other estimates put readiness costs even lower compared to other cost categories, particularly transaction 11 12 costs and rents (Eliasch, 2008; McKinsey, 2009). This suggests that even modest reductions in opportunity and transaction costs would likely offset any additional 13 14 investment in readiness. Moreover, readiness expenditures are bound to be higher at the beginning, when most far-reaching changes are envisioned, gradually diminishing over 15 16 time as governments strengthen their natural resource management capacity and practices. In contrast, the savings from reduced opportunity and transaction costs 17 continue to accrue over a much longer period (i.e. the time of operation of the 18 programme). Greater upfront investments therefore generate long-term economic 19 20 efficiency as well as a more balanced approach to the sustainable development of tropical regions. In other words, investing in governance would bring the cost of REDD+ 21 to peak earlier and at a lower level than the concurrent design, making the cost curve 22 downward sloping rather than upward sloping as in a business-as-usual REDD+ scenario 23 (i.e. as dictated by increasing commodity demand and population). 24

A further argument to support investments in procedural and land governance has to do with risk. If a global REDD+ mechanism fails to materialise after 2020, investments in carbon related technologies and institutions would be rendered useless, while investments in these areas would still have positive impacts on the environment and the

development of recipient countries (Westholm et al., 2011). This could, incidentally, still
 reduce forest emissions in the absence of an international legal framework.

Additionally, improving national governance systems could also alleviate potential 3 4 conflicts with the development agenda. The level of public resources mobilised to date 5 rings an alarm bell re the political commitment to reduce forest emissions: if REDD+ 6 pursues an aggressive conservation agenda disregarding, or even competing with other 7 policy objectives such as poverty alleviation and agricultural production, high-level political support could vanish altogether. In particular, it is likely that food security 8 concerns will aggravate in an increasingly crowded and hungry world battered by 9 10 extreme weather events, new pests and declining biodiversity (Beddington et al., 2011). Although our understanding of the ecosystem services provided by forests will increase 11 12 (as a driver of global change, as a buffer against extreme weather events and as a regulator of local climate), if governments perceive that food security is at risk as a 13 14 result of an 'unpredictable' food crisis, the political imperative to increase agricultural production would override any interest in protecting forests. The effect of these shocks 15 16 cannot be estimated in advance, but they should be considered at least at the theoretical level. A solid governance framework must thus harmonise REDD+ environmental 17 objectives with domestic sustainable development agendas, consistent with the shared 18 vision of the treaty (UNFCCC, 2010, paragraphs 6, 10, 48 and 65). 19

Finally, it must be stressed that the phased approach of the current design of REDD+ 20 21 can be maintained. In particular, as both the international legal framework for REDD+ and major forest carbon markets are not poised to be operational at least until 2020 22 23 (UNFCCC, 2011b), there is time to deal with the current problems in the readiness phase. In order to achieve this, readiness must be re-conceptualised. Its legal force 24 must be strengthened in the negotiating text, also ensuring that thorough monitoring 25 and verification is required and that progress to subsequent phases is conditional upon 26 27 advances in readiness. The magnitude of support must be reviewed upwards so as to ensure that not only the cost of building capacity in these areas is fully covered by 28

international sources, but also that reluctant governments have enough incentives to 1 2 implement politically difficult reforms. This can be done by providing results-based 3 payments for governance reform using *ad hoc* and agreed metrics based on outputs and outcomes. Thirdly, the timeframe for the implementation of readiness activities must be 4 5 reconsidered: readiness is not a transitory phase to allow the full implementation of REDD+, but rather a core pillar of the programme itself. As such, realistic objectives 6 7 must be set over the long term and support must be planned to continue also after a country has progressed enough to enter a post-readiness phase, thereby allowing the 8 gradual improvements in governance that can take several years. With regards to the 9 scope of readiness, developments in areas such as technology and MRV capacity could 10 be led by the private sector in the emerging voluntary and compliance markets. Donor 11 countries' priority until 2020 must be the provision of political, technical and financial 12 13 support in the three areas of governance described above, with a particular focus on empowering national stakeholders. The international community must not shy away from 14 the fact that, in many cases, reforming governance will mean changing the development 15 16 path of large sectors of the economy as well as the power distribution across society.

These changes might seem insufficient to some observers, for instance because they do 17 not question the decisive role of industrialised nations' insatiable demand for forest 18 commodities. To others, they may seem politically unrealistic in the ever tighter political 19 20 space left available in UNFCCC negotiations. Both arguments are valid, but it is here argued that reconceptualising readiness so as to promote genuine governance reforms in 21 developing countries stretches ambition to what is practically and politically achievable at 22 this stage. The proposed approach, in fact, is a step forward in ambition that builds on 23 the current organisational framework and that, by combining socially-equitable 24 institutionalism with the long-term use of market incentives, addresses the concerns of 25 most REDD+ actors (Hiraldo and Tanner, 2011). What is required is a moderate 26 ideological shift away from neoliberal principles of a scarcely regulated and privately-led 27 28 approach which are still strong in the REDD+ arena but increasingly anachronistic after

- 1 the global financial crisis. Only by wagering on the power of public policies to shape a
- 2 sustainable development path will UNFCCC Parties build the future success of REDD+.

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1 References

Almeida, A., Hatcher, J., White, A., Corriveau-Bourgue, A., Hoffman, Z., 2012, What 2 Rights? A Comparative Analysis of Developing Countries' National Legislation on 3 Community and Indigenous Peoples' Forest Tenure Rights, Rights and Resources 4 Initiative, Washington, D.C. [available at 5 www.rightsandresources.org/documents/files/doc 4924.pdf] 6 7 8 Alston, L. J., Andersson, K., 2011, Reducing greenhouse gas emissions by forest protection: the transaction costs of REDD, National Bureau of Economic Research, 9 Working Paper 16756, Cambridge, MA [available at www.nber.org/papers/w16756]. 10 11 12 Angelsen A. (ed.), 2008, Moving Ahead with REDD: Issues, Options and Implications, Centre for International Forestry Research (CIFOR), Bogor, Indonesia. 13 14 Angelsen, A., Streck, C., Peskett, L., Brown J., Luttrell, C., 2008, What is the right scale 15 for REDD? The implications of national, subnational and nested approaches, Info brief 16 No. 15, CIFOR, Bogor, Indonesia [available 17 at http://unfccc.int/files/methods_science/redd/application/pdf/what_is_the_right_scale_fo 18 19 r_redd.pdf]. 20 Angelsen A., Brockhaus M., Kanninen M., Sills E., Sunderlin W. D. and Wertz-21 22 Kanounnikoff S. (eds), 2009, Realising REDD+: National strategy and policy options, CIFOR, Bogor, Indonesia. 23 24 Beddington, J., Asaduzzaman, M., Fernandez, A., Clark, M., Guillou, M., Jahn, M., Erda, 25

L., Mamo, T., Van Bo, N., Nobre, C. A., Scholes, R., Sharma, R., Wakhungu, J., 2011, *Achieving food security in the face of climate change: Summary for policy makers from the Commission on Sustainable Agriculture and Climate Change*, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen [Available at www.ccafs.cgiar.org/commission].

31

Blom, B. Sunderland, T., Murdiyarso, D., 2010, 'Getting REDD to work locally: lessons learned from integrated conservation and development projects', Environmental Science

```
1 & Policy, 13, 164–172.
```

2

Böttcher, H., Eisbrenner, K., Fritz, S., Kindermann, G., Kraxner, F., McCallum,
I., Obersteiner, M., 2009, 'An assessment of monitoring requirements and costs of
'Reduced Emissions from Deforestation and Degradation'', Carbon Balance and
Management, 4(7)

7

Boucher, D., 2008, *Out of the Woods: A realistic role for tropical forests in Curbing Global Warming*, Union of Concerned Scientists, Washington, DC [Available at
www.ucsusa.org/assets/documents/global_warming/UCS-REDD-Boucherreport].

11

Cadman, T., Maraseni, T., 2012 'The governance of REDD+: an institutional analysis in
the Asia Pacific region and beyond', Journal of Environmental Planning and Management
[Available online on 20 January 2012].

15

16 Carbon Positive, 2009, Indonesia warns of REDD carbon cowboys, Article from 17 26/10/2009, Illegal Logging Info [available at www.illegal-18 logging.info/item_single.php?it_id=3824&it=news]

19

Carr, D. L., 2004, 'Proximate Population Factors and Deforestation in Tropical
Agricultural Frontiers', *Population & Environment*, 25 (6), 585–612.

22

CMIA, 2011, *Response to the Munden Report*, Carbon Markets and Investors Association,
London.

25

26 CCBA, 2008, *Climate, Community and Biodiversity Standard, Version 2*, Climate, 27 Community and Biodiversity Alliance, Washington, DC [Available at www.climate-28 standards.org].

29

Clements, T., 2010, 'Reduced Expectations: the political and institutional challenges of REDD+', Oryx, 44(3), 309–310.

Cohn, A., Bowman, M., Zilberman, D., O'Neill, K., 2011, *The Viability of Cattle Ranching Intensification in Brazil as a Strategy to Spare Land and Mitigate Greenhouse Gas Emissions*, Working Paper No. 11, CGIAR Research Program on Climate Change,
 Agriculture and Food Security (CCAFS), Copenhagen, Denmark [Available at
 www.ccafs.cgiar.org].

6

Corbera, E., Estrada, M., Brown, K., 2010, 'Reducing greenhouse gas emissions from
deforestation and forest degradation in developing countries: revisiting the assumptions',
Climate Change, 100 (3-4), 355-388.

10

Cotula, L., Mayers, J., 2009, *Tenure in REDD – Start-point or afterthought?*, Natural
 Resource Issues, 15, IIED, London, UK.

13

14 CPIA, 2010, *Country Policy and Institutional Assessments 2010: Assessment* 15 *questionnaire*, Operations Policy and Country Services, The World Bank [Available at 16 www1.worldbank.org/operations/CPIA2010/CPIA10CriteriaA.pdf]

17

Dalal-Clayton, B., Dent, D., 1993, Surveys, Plans and People: A Review of Land
Resource Information and its Use in Developing Countries, Environmental Planning
Issues No 2, International Institute of Environment and Development, London.

21

Dalal-Clayton B., Dent, D., O., Dubois, 2000, Rural Planning in the Developing World
with a Special Focus on Natural Resources: Lessons Learned and Potential Contributions
to Sustainable Livelihoods - An Overview, Environmental Planning Issues No. 20,
International Institute of Environment and Development, London.

26

Deininger, K. W., Augustinus, C., Enemark, S., Munro-Faure, P., (eds), 2010, *Innovations in Land Rights Recognition, Administration, and Governance*, The World
Bank Publications, Washington, DC

30

Densham, A., Czebiniak, R., Kessler, D., Skar, R., 2009, Carbon Scam: Noel Kempff Climate Action Project and the Push for Sub-national Forest Offsets, Greenpeace International, Amsterdam.

1 2 Dimitrov, R. S., 2005, 'Hostage to norms: institutions and global forest politics', Global Environmental Policy, 5 (4), 1-24. 3 4 Eliasch, J., 2008, Climate Change: Financing Global Forests, The Eliasch Review, Office 5 of Climate Change, London. 6 7 8 Emerson, K., Nabatchi, T., Balogh, S., 'An Integrative Framework for Collaborative 9 Governance', Journal of Public Administration Research and Theory, 22, 1–29. 10 Estrada M., 2012, Comparative Study on REDD+: Recommendations for Action, 11 12 Silvestrum, The Netherlands. 13 European Commission, 2009, Stepping up international climate finance: A European 14 blueprint for the Copenhagen deal, Communication from the Commission to the 15 European Parliament, the Council, the European Economic and Social Committee and the 16 Committee of the Regions, SEC(2009) 1172, Brussels 17 18 European Commission, 2010, Summary Report on the work carried out by European 19 Climate Change Programme (ECCP) group on Climate Policy for Land Use, Land Use 20 Change and Forestry (LULUCF), Directorate-General Climate Action, Brussels [Available 21 22 at http://ec.europa.eu/clima/events/0029/summary_eccplulucf_en.pdf]. 23 European Commission, 2011, Questions and answers on use of international credits in 24 25 the third trading phase of the ΕU ETS, Brussels [Available at http://ec.europa.eu/clima/policies/ets/linking/docs/q_a_20111114_en.pdf]. 26 27 Evans, P., Rauch, J., 1999, 'Bureaucracy and Growth: A Cross-National Analysis of the 28 Effects of "Weberian" State Structures on Economic Growth', American Sociological 29 Review, 64 (5), 748-765. 30 31 FAO, 2010, Global forest Resource Assessment 2010: Main report, FAO Forestry Paper 32 163, Food and Agricultural Organisation of the United Nations, Rome. 33

1

FAO, 2011, Framework for assessing and monitoring forest governance, Food and
Agricultural Organisation of the United Nations and the World Bank Programme on
Forests Rome, 2011 [Available at www.fao.org/docrep/014/i2227e/i2227e00.pdf].

5

FERN, 2011, Carbon Markets will not deliver for Southern governments, forests and
people, NGO briefing, Brussels [Available at
www.fern.org/sites/fern.org/files/carbonleaflet_25nov.pdf].

9

FIP, 2012, Brazil Investment Plan for the Forest Investment Program (FIP) v.3, Meeting
of the FIP Sub-Committee, Forest Investment Programme, Washington, DC.

12

Fisher, B., Lewis, S. L., Burgess, N. D., Malimbwi, R. E., Munishi, P. K., Swetnam, R. D.,
Turner, R. K., Willcock, S., Balmford, A., 2011, 'Implementation and opportunity costs of
reducing deforestation and forest degradation in Tanzania', *Nature Climate Change* 1,
161–164.

17

Fogarty, D., 2011, Special report - How Indonesia crippled its own climate change, 16
August, Reuters Africa, Singapore [Available at
http://af.reuters.com/article/idAFTRE77F12W20110816].

21

Forsyth, T., 2009, 'Multilevel, multiactor governance in REDD+: Participation, integration
and coordination', in: A. Angelsen, M. Brockhaus, M. Kanninen, E. Sills, W. D. Sunderlin,
S. Wertz-Kanounnikoff (eds), 2009, *Realising REDD+: National strategy and policy options*, CIFOR, Bogor, Indonesia.

26

French, W., Natarajan, L., 2008, Some Perceptions of Latin America Planning Priorities:
An analysis of responses to the Self-Diagnostic Assessment of the Capacity for Planning
Worldwide, GPN Self Diagnostic Tool Briefing Note, The Royal Town Planning Institute,
London.

31

32 Geisler, M., 2010, 'Must Biodiversity Hot-Spots Be Social Not-Spots? Win-Win Ecology as 33 Sustainable Social Policy', Consilience: The Journal of Sustainable Development, 4 (1), 1 119–133.

2

Gibbs, H. K., Ruesch, A. S., Achard, F., Clayton, M. K., Holmgren, P., Ramankutty, N.,
Foley, J. A., 2010, 'Tropical forests were the primary sources of new agricultural land in
the 1980s and 1990s', PNAS, 107 (38), 16732-16737.

6

Gingold, B, Rosenbarger, A., Muliastra, Y. I. K. D., Stolle, F., Sudana, I. M., Manessa, M.
D. M., Murdimanto, A., Tiangga, S. B., Madusari, C. C., Douard, P., 2012, How to identify
degraded land for sustainable palm oil in Indonesia, Working Paper, World Resources
Institute/Sekala, Washington D.C. [available online at
http://wri.org/publication/identifying-degraded-land-sustainable-palm-oilindonesia].

12

Global Witness, 2009, *Building confidence in REDD: Monitoring beyond carbon*, Global
Witness, London.

15

Goers-Williams, L., Davis, C., Lupberger, S., Daviet, F., 2012 (and previous versions from 2009, 2010, and 2011), *Getting Ready: A Review of the World Bank Forest Carbon*

18 Partnership Facility Readiness Preparation Proposals, Working Paper, World Resource

19 Institute, Washington, DC [Available at http://www.wri.org/publication/getting-ready]

20 +

Davis, C., Nakhooda, S., and Daviet, F., 2009, *Ready or Not? A Review of the World Bank Forest Carbon Partnership R-Plans and the UN REDD Joint Program Documents*,
Working Paper, World Resource Institute, Washington, DC.

Davis, C., Nakhooda, S., and Daviet, F., 2010, *Getting Ready: A Review of the World Bank Forest Carbon Partnership Facility Readiness Preparation Proposals*, Working Paper,
World Resource Institute, Washington, DC.

Davis, C., Williams, A., Goers, L., Daviet, F., and Lupberger, S., 2010, *Getting Ready with Forest Governance: A Review of the World Bank Forest Carbon Partnership Facility Readiness Preparation Proposals*, Working Paper, World Resource Institute, Washington,
DC.

Goers, L., Williams, A., Daviet, F., Davis, C., and Lupberger, S., 2010, *Getting Ready with Forest Governance A Review of the World Bank Forest Carbon Partnership Facility Readiness Preparation Proposals and the UN-REDD National Programme Documents*, Working Paper, World Resource Institute, Washington, DC. Goers Williams, L., Larsen, G., Lupberger, S., Daviet, F., and Davis, C., 2011, *Getting Ready with Forest Governance A Review of the World Bank Forest Carbon Partnership Facility Readiness Preparation Proposals and the UN-REDD National Programme Documents*, Working Paper, World Resource Institute, Washington, DC.

5

Goodstadt, V., Rosário Partidário, M., 2010, 'Spatial planning and environmental
assessments', in: P. Sukhdev (ed.), *TEEB - The Economics of Ecosystems and Biodiversity for Local and Regional Policy Makers*, Report [available at:
www.teebweb.org/ForLocalandRegionalPolicy/LocalandRegionalPolicyMakersChapterDrafs
/tabid/29433/Default.aspx]

11

Gregersen, H., El Lakany, H., Karsenty, A., White, A., 2010, *Does the opportunity cost Approach indicate the real cost of REDD+? Rights and realities of paying for REDD+*,
Rights and Resources Initiative, Washington, DC.

15

Gregersen, H., Contreras, A., 2010, *Rethinking Forest Regulations: From simple rules to systems to promote best practices and compliance*, Rights and Resources Initiative,
 Washington, DC.

19

Groosman, B., 2000, 'Pollution Tax', in: B. Bouckaert, G. De Geest (eds.), 2000, *Encyclopedia of Law and Economics*, Edward Elgar Publishing, Cheltenham, UK.

22

Gullison, R. E., Frumhoff, P. C., Canadell, J. G., Field, C. B., Nepstad, D. C., Hayhoe, K.,
Avissar, R., Curran, L. M., Friedlingstein, P., Jones, C. D., Nobre, C., 2007, 'Tropical
forests and climate policy', Science, 316, 985–986.

26

Hall, R., 2010, *REDD: the realities in black and white*, Friends of the Earth International,
Amsterdam.

29

Hansen, C. P., Lund, J. F., Treue, *T.*, 2009, 'Neither fast, nor easy: the prospect of
Reduced Emissions from Deforestation and Degradation (REDD) in Ghana', International
Forestry Review, 11 (4), 439-455.

```
Hiraldo, R., Tanner, T., 2011, The Global Political Economy of REDD+: Engaging Social
1
     Dimensions in the Emerging Green Economy, Occasional Paper 4, UNRISD, Geneva,
2
3
     Siwtzerland.
4
     Humphreys, D., 2001, 'Forest negotiations at the United Nations: explaining cooperation
5
     and discord', Forest Policy and Economics 3, 125-135.
6
7
     Humphreys, D., 2006, Logjam, Earthscan, London.
8
9
     Humphreys D., 2009, 'Discourse as ideology: Neoliberalism and the limits of
10
     international forest policy', Forest Policy and Economics, 11, 319–325.
11
12
     Kaimowitz, D., 2003, 'Forest law enforcement and rural livelihoods', International
13
     Forestry Review, 5 (3), 199-210.
14
15
16
     Kanowski, P. J., McDermott, C. L., Cashore, B. W., 2011, 'Implementing REDD+: lessons
17
     from analysis of forest governance', Environmental Science & Policy, 14.
18
     Karsenty, A., 2009, Deforestation and climate change: acting on the causes. What the
19
     (carbon) market cannot do..., Perspectives No 1, CIRAD, Montpellier.
20
21
     Karsenty, A., Ongolo, S., 2012, 'Can "fragile states" decide to reduce their deforestation?
22
     The inappropriate use of the theory of incentives with respect to the REDD mechanism',
23
     Forest Policy and Economics, 18, pp. 38-45.
24
25
     Kaufmann, D., Kraay, A., Mastruzzi, M., 2010, The Worldwide Governance Indicators:
26
     Methodology and Analytical Issues, Policy Research Working Paper 5430, The World
27
28
     Bank, Washington, D.C.
29
     Kindermann, G., Obersteiner, M., Sohngen, B., Sathaye, J., Andrasko, K., Rametsteiner,
30
     E., Schlamadinger, B., Wunder, S., Beach, R., 2008, 'Global cost estimates of reducing
31
```

carbon emissions through avoided deforestation', PNAS, 105 (30), 10302-10307.

1 2 Klooster, D. J., 2002, 'Toward Adaptive Community Forest Management: Integrating Local Forest Knowledge with Scientific Forestry', Economic Geography, 78 (1), 43–70. 3 4 Knox, A., Caron, C., Miner, J., Goldstein, A., 2011, 'Land tenure and payment for 5 environmental services: challenges and opportunities for REDD+', Land Tenure Journal 6 7 2, 17-55. 8 9 Krahmann, E., 2003, 'National, regional and global governance: one phenomenon or many?', Global Governance 9, 323-346. 10 11 Larson, A. M., Cronkleton, P., Barry, D., Pacheco, P., 2008, Tenure Rights and Beyond: 12 Community Access to Forest Resources in Latin America, CIFOR, Bogor, Indonesia. 13 14 McKinsey & Company, 2009, Pathways towards a Low-Carbon Economy: Version 2.0 of 15 the Global Greenhouse Gas Abatement Cost Curve, McKinsey & Company [Available at 16 https://solutions.mckinsey.com/ClimateDesk/default.aspx]. 17 18 Mehmet, O., Tavakoli, A., 2003, 'Does foreign direct investment cause a race to the 19 20 bottom?', Journal of the Asia pacific Economy, 8 (2), 133-156. 21 22 Miller, M., Mylenko, N., Sankaranarayanan, S., 2009, Financial Infrastructure: Building 23 Access through Transparent and Stable Financial Systems, Financial Infrastructure Policy and Research Series, World Bank, Washington, D.C. 24 25 Mimicopoulos, M. G., Kyi, L., Sormani, N., 2007, Public Governance Indicators: A 26 Literature Review, ST/ESA/PAD/SER.E/100, United Nations Department of Economic and 27 Social Affairs, New York. 28 29 Mitchell, D., Zevenbergen, J., 2011, 'Toward Administration Systems to Support Climate 30 Change Mitigation Projects', Land Tenure Journal 2, 57-78. 31

Molnar, A., Liddle, M., Bracer, C., Khare, A., White, A. Bull, J., 2007, *Community-based forest enterprises in tropical forest countries: status and potential*, ITTO, RRI and Forest
 Trends, Washington, DC [Available at
 www.rightsandresources.org/documents/files/doc_3453.pdf].

5

6 MoU, 2009, Memorandum of Understanding between the Government of the Cooperative 7 Republic of Guyana and the Government of the Kingdom of Norway regarding 8 Cooperation on Issues related to the Fight against Climate Change, the Protection of 9 Biodiversity and the Enhancement of Sustainable Development, Joint Concept Note on 10 REDD+ cooperation between Guyana and Norway, pp. 11-2 [Available at 11 www.regjeringen.no/upload/MD/Vedlegg/Internasjonalt/miljosamarbeid_utviklingsland/ 12 mou_norway_guyana.pdf].

13

2011, L., REDD and Forest Carbon: Market-Based Critique 14 Munden, and The Munden [Available 15 Recommendations, Project, New York at www.mundenproject.com/forestcarbonreport2.pdf]. 16

17

Munden, L., Holmgrem, P., Reeve, R., Riggs, P., Prabhu, R., Bowie, B., Deljurie, B., 18 Subbakrishna, S., Cheney, E., 2012, INARI: A Proposal for Financing Sustainable Land 19 20 Use Scale, The Munden New York [Available at Project, at 21 www.fao.org/docrep/016/ap076e/ap076e.pdf].

22

Olsen, N., Bishop, J., 2009, *The Financial Costs of REDD: Evidence from Brazil and Indonesia*, International Union for the Conservation of Nature (IUCN), Gland,
 Switzerland.

26

Pagiola, S., Bosquet, B., 2009, *Estimating the Costs of REDD at the Country Level*, *Version 2.2*, Forest Carbon Partnership Facility, The World Bank, Washington, DC
[Available at www.forestcarbonpartnership.org/fcp/sites/...org/.../REDD-Costs-22.pdf].

30

Palmer, D., Fricska, S., Wehrmann, B., 2009, Towards improved land governance, Land
 Tenure Working Paper 11, FAO/UN-HABITAT, Rome.

33

Parker, C., Brown, J., Pickering, J., Roynestad, E., Mardas, N., Mitchell, A. W., 2009, *The*

Little Climate Finance Book: a guide to financing options for forests and climate change,
 Global Canopy Programme, Oxford.

3

Peskett, L., Brockhaus, M., 2009, 'A review of realities, opportunities and challenges', in:
A. Angelsen, M. Brockhaus, M. Kanninen, E. Sills, W. D. Sunderlin, S. WertzKanounnikoff (eds), *Realising REDD+: National strategy and policy options,* CIFOR,
Bogor, Indonesia.

8

9 Pfaff, A., Sills, E. O., Amacher, G. S., Coren, M. J., Lawlor, K. and Streck, C., 2010,
10 Policy Impacts on Deforestation Lessons Learned from Past Experiences to Inform New
11 Initiatives, Nicholas Institute Report, Duke University.

12

Phelps, J., Webb, E. L., Agrawal, A., 'Does REDD+ threaten to recentralise forest
governance?', Science, 328, 312-313.

15

Plan Vivo, 2011, 'How Financing is Reaching the Ground', Conference presentation, in: *Eleventh RRI Dialogue on Forests, Governance and Climate Change: Status and Role of Public and Private Finance to Reduce Forest Loss and Degradation*, 12 October 2012,
London [Available at www.rightsandresources.org/documents/files/doc 2695.pdf].

20

Portela, R., Wendland, K. J., Pennypacker, L. L., 2008, 'The idea of market-based
mechanisms for forest conservation and climate change', in: C. Streck, R. O'Sullivan, T.
Jason-Smith, R. Tarasofsky (eds.), *Climate change and Forests: Emerging Policy and Market Opportunities*, Brooking Institution Press, Baltimore.

25

PRP, 2009, *An Emergency Package for Tropical Forests*, Prince's Rainforest Project,
London.

28

Rafli, T. P., Usher, G., O'Niles, J., 2007, Reducing Carbon Emissions from Deforestation
in the Ulu Masen Ecosystem, Aceh, Indonesia: A Triple-Benefit Project Design Note for
CCBA Audit (Resubmitted December 29, 2007), Aceh, Indonesia.

32

33 Rankin, K. N., 2001, 'Governing development: neoliberalism, microcredit, and rational

```
1
     economic woman', Economy and Society, 30 (1), 18-37
2
     REDD+ Partnership Database: http://reddplusdatabase.org. Last accessed: April 2012.
3
4
5
     Rival, L., 2012, 'Sustainable Development through Policy Integration in Latin America: A
     comparative approach', Development, 55 (1), 63-70.
6
7
     Robledo, C, Blaser, J., Byrne, S., Shmidt, K., 2008, Climate Change and Governance in
8
     the Forest Sector: An overview of the issues on forests and climate change with specific
9
     consideration of sector governance, tenure, and access for local stakeholders, Rights and
10
     Resources Initiative, Washington, DC.
11
12
     Ruysschaert, D., Darsoyo, A., Zen, R., Gea, G., Singleton, I., 2011, Developing Palm-oil
13
     Production On Degraded Land: Technical, economic, biodiversity, climate, legal and
14
15
     policy implications, Report, YEL/PanEco/ICRAF, Sumatera Utara, Indonesia.
16
     Sandbrook, C., Nelson, F., Adams, W. M., Agrawal, A., 2010, 'Carbon, forests and the
17
     REDD paradox', Oryx, 44 (3), 330-334.
18
19
     Santiso, C., 2001, 'Good Governance and Aid Effectiveness: The World Bank and
20
     Conditionality', The Georgetown Public Policy Review, 7 (1), 1-22.
21
22
     Sayer, J., Mcneely, J., Maginnis, S., Boedhihartono, I., Shepherd, G., Fisher, B., 2008,
23
     Local Rights and Tenure for Forests: Opportunity or Threat for Conservation?, Rights and
24
25
     Resources Initiative, Washington, DC.
26
     Scott, J., 2000, 'Rational Choice Theory', in: G. Browning, A. Halcli, F. Webster, 2000,
27
     Understanding Contemporary Society: Theories of The Present, Sage Publications,
28
     London.
29
30
     SES, 2010, REDD+ Social & Environmental Standards, Version 1, REDD+ SES
31
32
     Secretariat, Washington, DC [Available at: www.redd-standards.org/documents].
```

1 2 Sheng, Y. K., What is Good Governance?, United Nations Economic and Social Commission for Asia and the Pacific, [Available 3 Bangkok at www.unescap.org/pdd/prs/ProjectActivities/Ongoing/gg/governance.pdf]. 4 5 Skutsch, M. M., McCall, M. K., 2010, 'Reassessing REDD: governance, markets and the 6 7 hype cycle', Climatic Change 100, 395-402. 8 Sikor, T., Stahl, J., Enters, T., Ribot, J. C., Singh, N., Sunderlin, W. D., Wollenberg, L., 9 2010, 'REDD-plus, forest people rights and nested climate governance', Global 10 Environmental Change, 20. 11 12 Sizer, N., 1994, Opportunities to Save and Sustainably Use the World's Forests Through 13 International Cooperation, World Resource Institute, Washington, DC [Available at 14 http://archive.wri.org/publication_text.cfm?id=2691] 15 16 Stern, N., 2007, Stern Review: The Economics of Climate Change, HM Treasury/Cabinet 17 Office: CUP, Cambridge. 18 19 20 Streck, C., O'Sullivan, R., Jason-Smith, T., Tarasofsky, R. (eds.), 2009, Climate change and Forests: Emerging Policy and Market Opportunities, Brooking Institution Press, 21 22 Baltimore. 23 Sunderlin, W. D., Hatcher, J., Liddle, M., 2008, From Exclusion to Ownership?: 24 25 Challenges and Opportunities in Advancing Forest Tenure Reform, Rights and Resources Initiative, Washington, DC. 26 27 Tacconi, L., Downs, F., Larmour, P., 2009, Anti-corruption policies in the forest sector 28 and REDD+, in: A. Angelsen, M. Brockhaus, M. Kanninen, E. Sills, W. D. Sunderlin, S. 29 Wertz-Kanounnikoff (eds), 2009, Realising REDD+: National strategy and policy options, 30 31 CIFOR, Bogor, Indonesia. 32 Tacconi, L., Mahanty, S., Suich, H., (eds), 2010, Payments for Environmental Services, 33

Forest Conservation and Climate Change: Livelihoods in the REDD?, Edward Elgar,
 Cheltenham, UK.

3

4 UNDP, 1997, Governance for sustainable human development: a UNDP policy document,
5 United Nations Development Programme, New York [Available at
6 http://mirror.undp.org/magnet/policy].

7

8 UNFCCC, 2009, *Report of the Informal Working Group on Interim Finance for REDD*+ 9 (*IWG-IFR*), Discussion Document, Bonn.

10

UNFCCC, 2010, Decision 1/CP.16, The Cancun Agreements: Outcome of the work of the
 Ad Hoc Working Group on Long-term Cooperative Action under the Convention, UNFCCC
 Conference of the Parties, Cancun.

14

UNFCCC, 2011a, Draft decision -/CP.17, Outcome of the work of the Ad Hoc Working
Group on Long-term Cooperative Action under the Convention, UNFCCC Conference of
the Parties, Durban.

18

UNFCCC, 2011b, Draft decision -/CP.17, Establishment of an Ad Hoc Working Group on
the Durban Platform for Enhanced Action, UNFCCC Conference of the Parties, Durban.

21

Van der Werf, G. R., Morton, D. C., DeFries, R. S., Olivier, J. G. J., Kasibhatla, P. S.,
Jackson, R. B., Collatz, G. J., Randerson, J. T., 2009, 'CO₂ emissions from forest loss',
Nature Geoscience, 2, 737-738.

25

Vatn, A., Angelsen, A., 2009, 'Options for a national REDD+ architecture', in: A.
Angelsen, M. Brockhaus, M. Kanninen, E. Sills, W. D. Sunderlin, S. Wertz-Kanounnikoff
(eds), 2009, *Realising REDD+: National strategy and policy options,* CIFOR, Bogor,
Indonesia.

30

Verchot, L. V., Petkova, E., 2010, The state of REDD negotiations: Consensus points,
 options for moving forward and research needs to support the process, An update
 following COP 15 in Copenhagen, CIFOR, Bogor, Indonesia.

1

2

3	lessons from Amazonas, IIED, London.
4	
5 6 7 8	Wendland, K., 2008, <i>Rewards for ecosystem services and collective land tenure: lessons from Ecuador and Indonesia</i> , Tenure Brief No. 9, University of Wisconsin Land Tenure Centre, Madison, United States.
9 10 11 12	Wenner, M. D., Wright, N., Lal, A., 2004, 'Environmental Protection and Microenterprise Development in the Developing World A Model Based on the Latin American Experience', Journal of Microfinance, 6 (1), 95-122
13 14 15 16 17	Wertz-Kanounnikoff, S., Angelsen, A., 2009, 'Global and national REDD+ architecture: Linking institutions and actions', in: A. Angelsen, M. Brockhaus, M. Kanninen, E. Sills, W. D. Sunderlin, S. Wertz-Kanounnikoff (eds), 2009, <i>Realising REDD+: National strategy</i> <i>and policy options,</i> CIFOR, Bogor, Indonesia.
18 19 20 21	Wertz-Kanounnikoff, S., Kongphan-anpirak, M., 2009, <i>Emerging REDD+: A preliminary</i> survey of demonstration and readiness activities, Working Paper No. 46, CIFOR, Bogor, Indonesia.
22 23 24	Wertz-Kanounnikoff, S., McNeill, D., 2012, 'Performance indicators and REDD+ implementation', in: A. Angelsen, Brockhaus, M., Sunderlin, W. D., Verchot, L. V., (eds.), <i>Analysing REDD+: challenges and choices</i> , CIFOR, Bogor, Indonesia.
25 26 27 28 29 30	Westholm, L., Sabine Henders, M. O., Mattsson, E., 2011, <i>Learning from Norway: A review of lessons learned for REDD</i> + <i>donors</i> , Focali, Oslo [Available at www.focali.se/en/articles/artikelarkiv/learning-from-norway-a-review-of-lessons-learned-for-redd-donors].
31 32 33	Whatmore, S., Boucher, S., 1993, 'Bargaining with nature: the discourse and 'practice' of environmental gain', Transactions of the Institute of British Geographers, New Series 18 (2), 166-178.

Viana, V.M., Grieg-Gran, M., della Mea, R., Ribenboim, G., 2009, The costs of REDD:

```
1
2
     White, A., Martin, A., 2002, Who owns the world's forests? Forest tenure and public
     forests in transition, Forest Trends, Washington, D.C.
3
4
     Williamson, I., Enemark, S., Wallace, J., Rajabifard, A., 2010, Land Administration for
5
     Sustainable Development, ESRI Press Academic, Redlands, California.
6
7
8
     World Bank, 2006, Strengthening Forest Law Enforcement and Governance: Addressing
9
     a Systemic Constraint to Sustainable Development, Report No. 36638, The World Bank,
                          DC
                                       [Available]
10
     Washington,
                                                          at
                                                                               www.illegal-
     logging.info/uploads/Forest Law FINAL HI RES 9 27 06 FINAL web.pdf].
11
12
     Miller, M., Mylenko, N., Sankaranarayanan, S., 2009, Financial Infrastructure: Building
13
     Access Through Transparent and Stable Financial Systems, The World Bank, Washingto,
14
15
     DC.
16
     World Bank, 2011a, Estimating the opportunity costs of REDD+: A training manual,
17
     Version
                1.3,
                        The
                                World
                                          Bank,
                                                   Washington,
                                                                    DC
                                                                           [Available
18
                                                                                        at
19
     http://wbi.worldbank.org/wbi/Data/wbi/wbicms/files/drupal-
20
     acquia/wbi/OppCostsREDD+manual.pdf].
21
     World Bank, 2011b, Readiness Preparation Proposal Template, Version 6 Working Draft,
22
     The World Bank Forest Carbon Partnership Facility, Washington, DC.
23
24
     Zadek, S., Forstater, M., Polacow, F., Boffino, J., 2009, Radical Simplicity in Designing
25
26
     National Climate Institutions: Lessons from the Amazon Fund, Climate Policy Briefing
     Series, Briefing No. 2, AccountAbility, London.
27
28
     Zadek, S., Forstater, M., Polacow, 2010, The Amazon Fund: Radical Simplicity and Bold
29
     Ambition - Insights for Building National Institutions for Low Carbon Development,
30
31
     Fundaciòn AVINA, Panama City, Panama.
```