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SYNTHESIS

REDD+ Readiness progress across countries: time for reconsideration

Peter Akong Minang , Meine Van Noordwijk, Lalisa A Duguma, Dieudonne Alemagi, Trong Hoan Do, Florence Bernard, ...show all

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processes at the country level. Country performance for various functions was mixed. Progress was evident on planning and coordination, and demonstration and pilots. However, MRV and audits; financing; benefit sharing; and policies, laws and institutions face major challenges. The results suggest that the way national forest governance has been shaped by historical circumstances (showing path dependency) is a critical factor for progress in Readiness processes. There is need for a rethink of the current REDD+ Readiness infrastructure given the serious gaps observed in addressing drivers of deforestation and forest degradation, linking REDD+ to broader national strategies and systematic capacity building.

Policy relevance

Policy makers, researchers and analysts helping to plan and implement REDD+, environmental services and climate change would find this paper potentially helpful. The paper explores progress on REDD+ Readiness across four countries (Cameroon, Indonesia, Peru and Vietnam) and provides broad lessons, recommendations and examples across these countries for further improving REDD+. The paper also suggests an innovative, credible and universally applicable set of criteria and indicators derived through a systematic review that could serve further global comparative analysis of readiness for REDD+ and relevant national environmental services delivery systems, including climate change mitigation.

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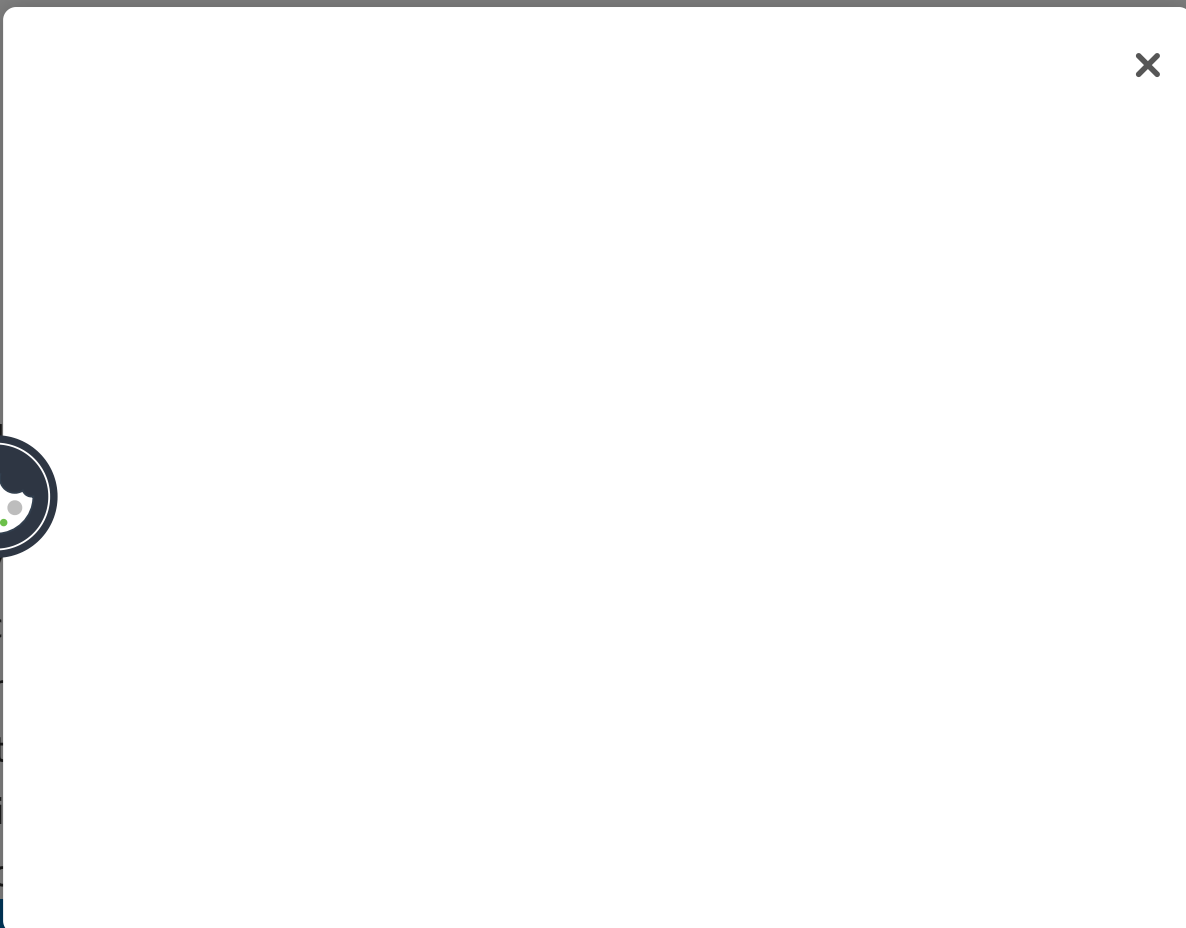
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reduction have been recognized for REDD+: 'reducing emissions from deforestation', 'reducing emissions from degradation', 'conservation of forest carbon stocks', 'sustainable management of forests', and 'enhancement of carbon stocks' (UNFCCC, 2010). They all lead to an increase, or at least to a reduction of an existing negative trend over time, of the total forest carbon stock (area \times carbon stock density), as reported in national GHG inventories. REDD+, to be achieved by a combination of national-scale and location-specific changes from the business-as-usual, is expected also to generate sustainable development co-benefits such as biodiversity conservation, improved water quality, and poverty reduction. For example, Minang, Duguma, Bernard, Metz, and van Noordwijk (2014) have argued that integrating agroforestry into REDD+ generates numerous co-benefits related specifically to the needs of households. Decision 1/CP16 of the UNFCCC on REDD+ has encouraged countries to initiate readiness and demonstration activities (UNFCCC, 2010). Actions aimed at developing technical and institutional capacity in developing countries are referred to as REDD+ Readiness. REDD+ Readiness activities of some sort are being carried out in more than 75 countries, with an estimated US\$7.2 billion committed to REDD+ since 2008 (Creed & Nakhooda, 2011).

The Cancún agreements laid out the principal elements for the development of REDD+ at the national level in paragraph 71 of UNFCCC Decision 1/CP16, as follows:



safeguards are being addressed and respected throughout the implementation of the activities, while respecting sovereignty.


A three-phased approach was adopted for REDD+ under the agreements reached in Cancún, Mexico, in 2010 (paragraph 73, Decision 1 CP.16), namely strategy development (Phase 1), early implementation (Phase 2), and performance-based actions (Phase 3) (see Figure 1a for a summary). Readiness actions such as planning, establishment of forest reference levels or reference emission levels, MRV and benefit-sharing frameworks, and safeguard information systems should be initiated in Phase 1. Other Readiness activities such as capacity-building, institutional and policy developments, demonstrations, piloting, and investments can be continued throughout Phase 1 and into Phase 2.

Figure 1 FCPF REDD+ Readiness process steps in relation to a phased approach to Readiness



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The large number of countries participating in REDD+ programmes (www.for... (www.ur... countries in terms of F; programmes orts 36 t to national

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Related research

countries). It is worth noting that some countries, such as Vietnam, the Democratic Republic of Congo (DRC), Indonesia, and Tanzania, receive both UN-REDD and FCPF support. A key feature of both programmes is the Readiness Package (R-Package). Completion of the R-Package marks a milestone in the Readiness process, i.e. a transition from the strategy development phase to the early implementation phase of REDD+ (Kipalu, [2011](#)). [Figure 1b](#) summarizes the FCPF programme steps that guide country processes (FCPF & UN-REDD, [2012](#); FCPF, [2013](#)).

In a critical review of the FCPF programme, Dooley, Griffiths, Martone, and Ozinga ([2011](#)) acknowledged substantial strengths regarding Measurement, Reporting, and Verification (MRV) of carbon and budgeting in the content of selected Readiness Preparation Proposals (R-PPs). The authors also acknowledged improvements in the consultation processes in R-PP development. However, they deplored the lack of a detailed analysis of drivers of deforestation and deficiencies in addressing governance failures, rights, safeguards, livelihoods, and multiple benefit issues. Even where incisive diagnostics are provided, there is no logical connection to actions proposed to remedy the situation.

While the UN-REDD programme shares the R-Package structure with the World Bank FCPF, it also has six interlinked work areas guiding the priorities of the support for national Readiness processes as part of a five-year programme strategy (UN-REDD, [2010](#)). T

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countries will contribute to learning, improvements, and further guidance on investments in REDD+ Readiness in the future.

2. Methods

This study was carried out in two steps using two sets of methods. A REDD+ Readiness assessment framework was developed in the first step. The second step constituted an application of the Readiness assessment framework in the four case-study countries mentioned above.

2.1. REDD+ Readiness assessment framework development

A framework for assessing REDD+ Readiness was developed based on a systematic review of the literature. Four sets of literature were targeted: (1) the Cancún UNFCCC agreement, and documentation and reports from REDD+ Readiness programmes including multilateral processes such as FCPF and UN-REDD literature, particularly the R-Package; (2) literature on country-level Readiness assessment, including from India, (Aggarwal et al., [2009](#)), Tanzania (Burgess et al., [2010](#)), Cambodia (Bradley, [2011](#)), and Ecuador, (MAE, [2012](#)); (3) literature involving key lessons from successful forest governance and reduced deforestation policy success stories; (4) literature on payment

for ecosystem services. The reviews, we designed, were divided into a total of nine sets as discussed in the following sections.

2.2. Country-level Readiness assessment

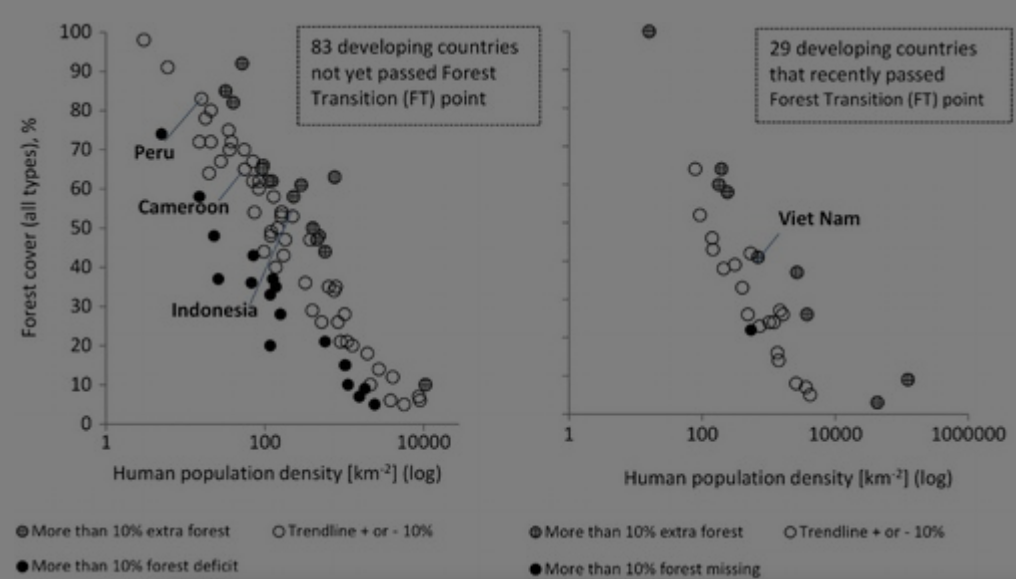
2.2.1. Case study countries

The four case study countries (Vietnam, Tanzania, Cambodia, and Ecuador) have been selected as part of the component of the project 'Transition to a low-carbon economy' involving a recovery of a geographical area.



using a data set provided by Köthke et al. (2013), shows the variation in forest cover against human population density for the four case-study countries, excluding outliers from the dominant trend lines. It shows three case-study countries (Cameroon, Indonesia, and Peru) before the forest transition and one (Vietnam) after this point. Vietnam is experiencing a net increase in forest cover, while Indonesia remains a high-forest, high-deforestation country. Cameroon and Peru are high-forest, low-deforestation countries.

Figure 2 Location of case-study countries along the forest transition (FT) as represented by forest cover versus human population density Source: Köthke, Leischner, & Elsasser (2013).



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In order to apply the REDD+ Readiness framework developed in the first phase of this study to assess Readiness in case-study countries, a mix of data collection methods were used, including interviews, focused group discussions, and a review of secondary evidence. First, a set of structured and semi-structured interviews were conducted with key informants based on the indicators of REDD+ Readiness processes. Secondary data and one to two focus group discussions per country were then used to triangulate and complement information from the key informants interviewed.

Key informants/respondents from governmental organizations and NGOs and universities engaged in and/or observing REDD+ activities took part as evaluators of Readiness level. These entities were selected strategically for the following reasons: (1) government institutions are often involved in formulating REDD+-related policies and strategies; (2) NGOs are widely engaged in implementing REDD+ projects; and (3) universities are engaged in REDD+ through research and training activities. As far as possible, specific evaluators from each entity were individuals responsible for REDD+ activities. In each country, between 7 and 20 key informants were interviewed, a number that was largely limited by the fact that REDD+ is a new, highly specialized, and multidisciplinary subject, and only a few individuals fully understand the detailed concepts.

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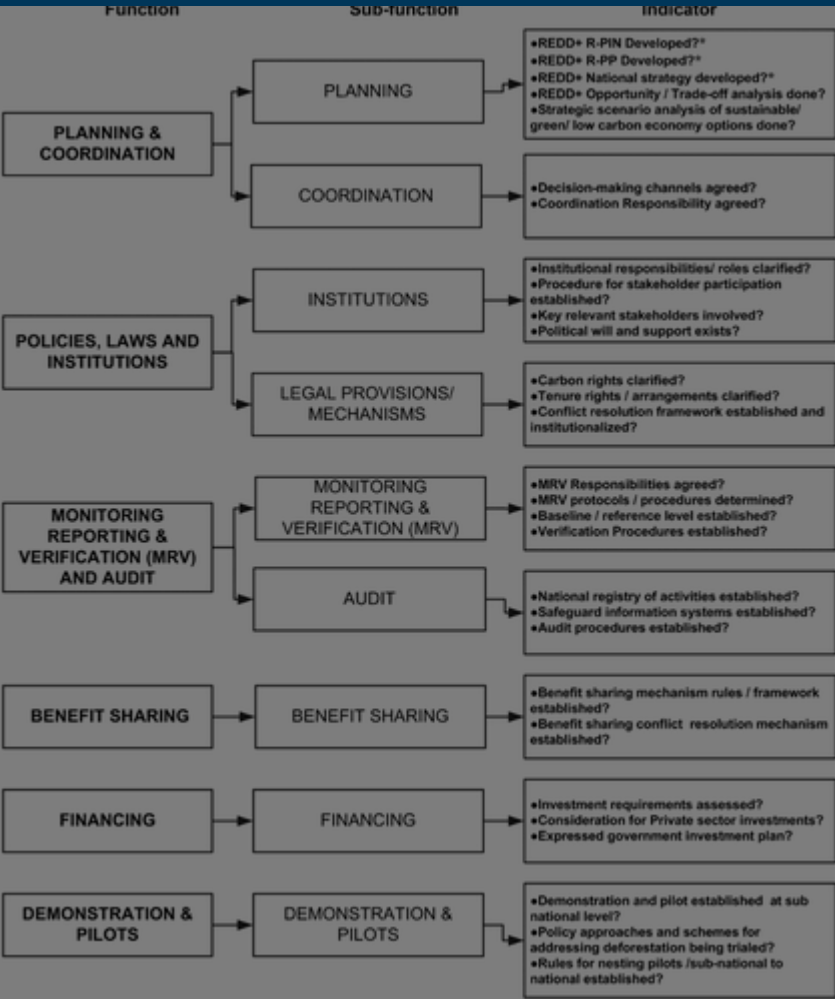


3. A framework for assessing REDD+ Readiness

Figure 3 summarizes the REDD+ Readiness assessment framework designed in this study. It includes six REDD+ functions: planning and coordination; policies, laws, and institutions; monitoring, reporting, and verification and audit; financing and investment; benefit sharing; and demonstrations and pilots. These are further split into subfunctions. In terms of operationalization, a set of 29 corresponding indicators were identified to represent these functions. In reality, these functions and indicators are interrelated and interdependent, but are represented separately in the figure and in the following text as a simplification aimed at improving understanding. They build on and derive from REDD+-related literature, notably FCPF and UN-REDD Readiness documents, reported Readiness country assessments to date, forest governance, and policy and payments for ecosystem services literature (see summary in Table 1). Each of these six functions, subfunctions, and corresponding REDD+ Readiness indicators are briefly discussed in the following paragraphs.

Figure 3 Readiness for REDD+ assessment framework Note: * indicates FCPF-specific indicators.





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Table 1 Summary of relevant Readiness assessment and salient national level REDD+ dimensions that inform the framework for assessment

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process (e.g. Indonesia). In order for these planning processes to be effective and efficient, coordination responsibilities and rules and channels for decision making need to be as clear as possible. Countries may opt for a coordinating national REDD+ agency or share responsibility among government departments.

3.2. Policies, laws, and institutions

Enabling policies, laws, and institutional frameworks are needed for the implementation of REDD+. The national architecture for REDD+ would need policy instruments and institutions (norms, conventions, and legal rules) that govern actors (individuals and organizations) and regulate the relationships between them, especially regarding forest carbon management. This could be done by a single REDD+ policy or by strengthening a series of policy instruments for the same purpose. Boucher, Roquemore, and Fitzhugh (2013) have demonstrated that efficient policy enforcement and political will have significantly driven a reduction in deforestation in Brazil in recent years. Angelsen (2010) also provides examples of emission reduction policies. Among the long list of critical aspects of a policy and legal framework to be addressed by a REDD+-related mechanism are institutions (roles and responsibilities), participation and consultation rules, crediting and funding rules, rights to forests and carbon, taxes and state payments, benefit-sharing rules (Costenbader, 2009; Covington and Burling & Baker and McKenzie, 2009; Minang, Bressers, Skutsch, & McCall, 2007), and definitions of forests (

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ensuring the credibility of carbon measurements. The rules and systems for ensuring such safeguards and the verification of emissions need to be set up during the Readiness phase. Transparent, replicable, and accessible systems for carbon measurement and reporting are at the core of such credibility. Audit (periodic evaluations of systems and operations) and verification (of emission reductions) procedures are needed to ensure such credibility. FONAFIFO et al. (2012) and Swallow and Goddard (2013) present interesting examples of national-level verification for Costa Rica and jurisdictional-level audit infrastructure from the Province of Alberta in Canada, respectively. Establishment of a national registry of REDD+ activities has been advanced as an important Readiness activity, especially in the context of a nested approach to REDD+ (Minang & van Noordwijk, 2013).

Related to MRV is the task of establishing forest reference emission levels (gross emissions) or forest reference level (net emissions) estimated from forests within a reference time period. Decisions have to be made and a process designed to either establish a reference level as a first step to a reference emission level or do the reference emissions level straight away if required data and or capacity exist.

3.4. Financing

Addressing REDD+ financing has become increasingly necessary within the REDD+ Readiness process, as REDD+ finance mechanisms remain uncertain and financial flows fall far below what is needed (Minang et al., 2011; Swallow & Goddard, 2011; Streck, 2011). The private sector can play a key role in financing private-sector REDD+ activities, which are seen as key ways of generating additional income for forest owners and communities (Knight et al., 2010). The challenge is to ensure that financing in our Readiness phase is sufficient to cover the costs of the activities.

3.5.

While REDD+ activities have the potential to reduce forest degradation and deforestation, they have also been criticized for leaving it to the market to determine whether reduction targets (and hence income) are met. As a result, the market may not be able to provide the necessary financing, and the market should not

process can be resolved so that incentives do not generate perverse reactions (Costenbader, [2011](#); Lindhjem, Aronsen, Bråten, & Gleinsvik, [2009](#); Torres & Skutsch, [2012](#)). Examples of specific rules in the design of benefit-sharing mechanisms include formulae for allocating benefits, eligibility for benefits, maintaining transparency in the process, timing of payment, and responsibilities of actors in the benefits-sharing process at multiple levels. In countries where emission reduction targets have been set at the national level – such as Indonesia – there is emerging evidence that consideration is being given to distributing these targets across subnational levels (Dewi, Johana, Ekadinata, & Putra, [2013](#)).

3.6. Demonstration and pilots

Demonstration and pilots at all levels have been recognized and supported as part of REDD+ Readiness processes. A key reason for this is to foster ‘learning by doing’ and to enable adaptive management with REDD+. Demonstration projects or activities exist largely at the subnational level, while pilots could involve national-level systems. Demonstration projects have been documented in terms of their diversity (scale and type of REDD+ activity) and in terms of lessons being learned from these processes across the globe (Cerbu, Minang, Swallow, & Meadu, [2009](#); Cerbu, Swallow, & Thompson, [2011](#); Sills, Madiera, Sunderlin, & Wertz-Kanounnikoff, [2009](#)). However, emphasis should also be placed on specific trials of incentives aimed at addressing

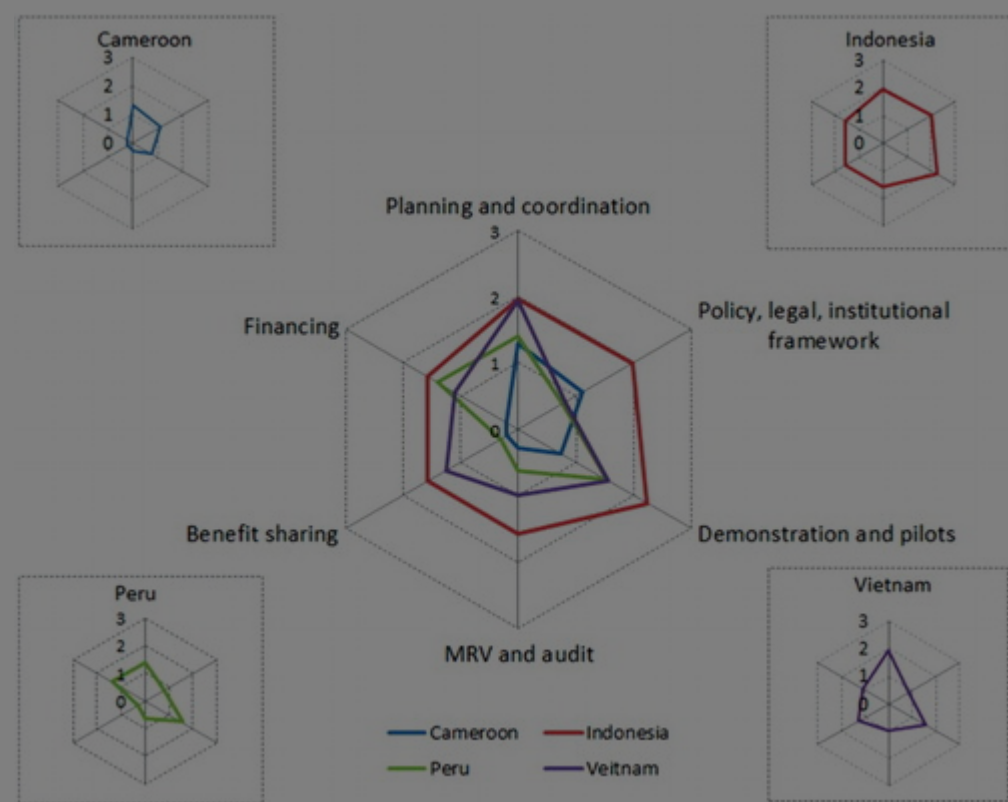


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Figure 4 Spider-web diagram of REDD+ Readiness from the four study countries



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Table 2 Highlights of progress in REDD+ Readiness in case-study countries

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Change, DNPI). Cameroon, Vietnam, and Peru have only carried out indicative opportunity costs at a subnational level. No evidence of strategic scenario analysis relating to low-carbon economies was found in any of the countries. Decision processes and responsibilities regarding REDD+ were found to be mostly clear in all countries, although there was evidence of coordination challenges where multiple institutions were involved. This is true in Indonesia, where several institutions are involved, including the National REDD+ Task Force (Satgas REDD) in the President's Office, the Ministry of Forestry, the Ministry of Environment, DNPI, and the National Planning Bureau.

Regarding the policy, legal, and institutional frameworks, Indonesia was rated highest because it has developed both a Nationally Appropriate Mitigation Action (NAMA)¹ (Presidential Instruction 61 and 71 of 2011) and a REDD+ policy (P 68/2008 and P 30/2009) and has enacted and implemented a moratorium on logging within the context of REDD+. Rights and tenure issues, however, have remained largely unresolved (van Noordwijk et al., [2013](#)). The rights issues referred to here included both forest tenure and carbon rights. Whether or not stakeholders participate adequately in REDD+ processes has been largely contested by non-governmental actors and communities in all countries.

In relation to MRV and audit, discussions remain at an exploratory level in most countries. Cameroon has been particularly challenging in terms of MRV design. Cameroon has been particularly challenging in terms of MRV design.

In terms of MRV and audit, discussions remain at an exploratory level in most countries. Cameroon has been particularly challenging in terms of MRV design. Cameroon has been particularly challenging in terms of MRV design.



al., [2010](#)). It differentiates the impact of different kinds of forest on water provision and quality. Meanwhile, Cameroon, Indonesia, and Peru are at very early stages of consideration regarding benefit sharing.

In terms of financing, Indonesia and Peru have succeeded in negotiating \$1 billion and \$50 million, respectively, through bilateral and multilateral arrangements, but little or no sustained corresponding government investment or commitment were found. Vietnam has specifically created a working group on private-sector involvement with a view to enabling investments from the private sector. No evidence of any attempt at a fully fledged country-level assessment of REDD+ investment needs was found.

Finally, for the function demonstrations and pilots, Indonesia and Vietnam had official pilots (i.e. pilots established and sponsored by the national REDD+ or forest programme), while Cameroon and Peru had none. In terms of NGO-, community-, and/or private sector-sponsored projects, all four countries have several. These projects have varied definitions and are at different stages, and it is therefore challenging to make comparisons or scale up into subnational-/national-level REDD+ designs. However, several counts are given for those initiatives: Indonesia, between 44 and 77; Peru, 35; Cameroon, 31; Vietnam, 30. The only country that has attempted to regulate demonstration projects is Indonesia (regulation number P 68/2008). Under the regulation, individual investors or groups of actors can initiate demonstration activities



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First, Readiness speed and effectiveness depend on country history and motivations. Second, Readiness processes, participation, and ownership are contested. Third, contrary to the limitations of forest definition and eligibility set out in REDD+, Readiness reveals a necessity for cross-sectorial dynamics at multiple scales. Fourth, Readiness has largely not addressed drivers of deforestation and forest degradation or rights and tenure. Finally, Readiness has so far only paid lip service to capacity-building. We elucidate on each of these points in the following paragraphs.

5.1. National circumstances are a principal determinant of progress in Readiness

Despite the UN-REDD and FCPF having a strong influence on Readiness processes in many countries, the pace, effectiveness, and efficiency recorded in terms of progress in REDD+ Readiness are diverse and mixed. We find that national circumstances (i.e. governance, capacity, history of involvement in payments for ecosystem services, political will, available resources, etc.) determine the choices, the decision-making processes, and eventually overall progress in Readiness. There is a very striking correlation between environmental governance performance based on the Environmental Performance Index (EPI) (Emerson et al., [2012](#)) and the results of progress on REDD+ Readiness from this study. Emerson et al. ([2012](#)) showed that Indonesia had the highest EPI (52.29) in 2012 of the four countries, and the EPIs of Peru and Vietn respectively. Cameroon ee years also sho ne same order, w heroon last (see [Fig](#) ngly influence ame World Bank FC A po the EPI could be ectly related to forest take a great contribu nesia has well as The abili nesia has well as been ab



secure bilateral funds from Norway, FIP, UN-REDD, and FCPF. Peru has been able to secure FIP, UN-REDD, and FCPF funding, while Cameroon has secured funds only from the FCPF. This perhaps suggests that the ability to mobilize financial resources is an important variable, i.e. in addition to governance and political will. Gupta et al. (2013) suggest similar patterns of progress and challenges in legal and institutional designs for REDD+ in a comparative study on the same countries used here. Kanowski, McDermott, and Cashore (2011) have also suggested that REDD+ performance is likely to be influenced by forest governance context.

5.2. History and motivations behind choices

The performance and Readiness trajectories of the four countries suggest a certain path dependency on forest, natural resource management history, and motivations. Path dependency refers to the fact that decisions and choices are influenced by, or limited by, past decisions and choices (or institutional entrenchments), even though past circumstances may no longer be relevant. For instance, progress and advancement in Indonesia can be attributed to two factors: (1) REDD+ thinking and planning started early (in 2006–2007) with the Indonesia Forest Carbon Alliance (IFCA, 2008), thereby enabling forward thinking on relevant issues such as REDD+ policy and MRV; (2) as a major emitter, Indonesia made a commitment to work towards reducing its emissions as host of the Bali UNFCCC Conference of the Parties (COP), with a target

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society and government, with the former claiming participation has been insufficient and the latter vice versa. In Peru, the degree to which indigenous communities have been excluded and/or not adequately considered remains a big issue for REDD+ (Robiglio, Armas, Silva, & White, [forthcoming](#)). In a few cases, shared/contested ownership of Readiness processes between government departments, notably the ministries of environment, agriculture, and other relevant/related government departments, has slightly affected perceptions and progress in Readiness.

5.4. Cross-sectoral dynamics at multiple scales

The fact that drivers of deforestation largely originate from outside the forests (Boucher et al., [2011](#); Geist & Lambin, [2002](#)) has compelled Readiness processes to recognize cross-sectoral horizontal as well as vertical collaborations. In Cameroon, for example, the national REDD+ committee is composed of representatives from government departments such as forestry, environment, agriculture, and planning (Alemagi, Minang, Feudjio, & Duguma, [2014](#)). The same is true for the compositions of REDD+ national committees in Peru (Robiglio et al., [2014](#)). Aggarwal et al. ([2009](#)) suggest the same for India.

Very little evidence of how national-level emission reduction targets will be implemented on the ground has been found in REDD+ Readiness to date. Yet, REDD+ would have to be implemented on the ground by land and forest users and through the government. In Indonesia, Presidential Instruction No. 10/2011 provides incentives for project-level REDD+ and national level information on the integrity of REDD+ organization, and part of the path towards

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Although there were policies in countries, and any such



general as not sufficiently paying attention to drivers of deforestation (Brown & Bird, 2008; Dooley et al., 2011). Part of the problem in some countries is that some NGO-led and sometimes private sector-led projects preceded national REDD+ Readiness programmes, so there are difficulties in retrofitting these projects into the national system. However, even in Indonesia, where rules have been developed, these projects do not systematically identify, design, and test incentives, as recommended in the Bali decisions. There is a need to drastically shift the focus of Readiness processes to the core business of REDD+, i.e. addressing drivers of deforestation and forest degradation. Brazil's great success in reducing deforestation, which is largely due to improved policy enforcement and political will over the last few years (Boucher, Roquemore, & Fitzhugh, 2013), is evidence that a focus on policies is equally important for REDD+ Readiness.

5.6. Paying lip service to capacity-building?

One definition of Readiness refers to the development of the key competencies required for implementing REDD+ (Brown & Bird, 2008), yet in all four countries little has been found that points to any strategic development of knowledge and skills through training and/or of the development of specialized institutions, agencies, or units. Some training has occurred in all countries, but they have been ad hoc and opportunistic for the most part. There is, however, some action being taken by UN-REDD through a needs/capacity assessment carried out in 2010 (UN-REDD & FCPF, 2012). T order to

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functions was mixed. Progress was evident on planning and coordination; and demonstration and pilots. However, MRV and audits; financing, benefit sharing; and policies, laws and institutions face major challenges. The results suggest that the path dependency of national forest governance, as shaped by history and circumstances, is a critical factor for progress in Readiness processes.

6.1. Implications for Readiness assessment

Despite the successful application of the framework, a number of points have to be taken into account in future applications.

- First, it must be recognized that the numbers/spider representations of Readiness derived from self-assessments can be subjective. While they give a useful picture, it is advisable to use them alongside insights from narratives constructed from semi-structured interviews, focus group discussions, and a review of secondary evidence. This provides for useful triangulation and a more complete picture of Readiness.
- Second, the framework should be used as a guide and a flexible instrument for REDD+ Readiness assessment. It would be advisable for the FCPF- and UN-REDD-specific process indicators relating to R-PINs and R-PPs indicated in [Figure 3](#) to be removed or modified if the framework is used for countries that are not part of the FCPF and UN-REDD partnerships. Nonetheless, the framework built from a functions

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management. Early engagement and motivation for green growth is driving Indonesia further ahead with Readiness processes and demonstrations, while Cameroon's mixed forest reform performances have spilled over into the Readiness field. Vietnam's heralded reforestation progress continues to drive REDD+, enabling the country to stand out with one of the most advanced REDD+ benefit-sharing mechanisms defined so far. While issues of tenure and rights remain unresolved in all four countries, contentious indigenous peoples' rights and overlapping rights have remarkably punctuated the REDD+ Readiness landscape in Peru. These examples show that REDD+ Readiness needs to treat linkages between REDD+ and broader strategies more seriously if REDD+ is to succeed.

- The findings from this study point to a need to rethink the national-level focus of Readiness. Currently, little attention and or value is given to subnational-level processes. This view of REDD+ is very limiting given that, ultimately, REDD+ will be implemented on the ground. Issues such as nesting local agro-ecological variabilities into national plans, sharing the national burden of emission reductions intra-state (although benefit sharing is being considered), internal financing of REDD+, and enabling environments for REDD+ delivery at subnational levels that are currently not high on finance and technical support agenda at the international level have also received very little attention in the REDD+ Readiness process. Yet, these issues are crucial and necessary for an effective and efficient REDD+.

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Acknowledgements

Financial support for the Reducing Emissions from All Land Uses (REALU) project from the Norwegian Climate and Forest Initiative (NICFI) and NORAD is acknowledged, as is technical assistance from the CGIAR research programmes on 'Forests, Trees and Agroforestry' (FTA). We are also grateful to the three anonymous reviewers for the constructive comments that helped improve this article.

Notes

1. The NAMA concept was accepted by the UNFCCC in the Bali COP alongside REDD+, and refers to any set of policies and actions undertaken by countries as part of efforts to reduce GHG emissions, potentially across all economic sectors. Such actions are expected to be appropriate and respond to specific country circumstances, including development priorities, equity issues, and capabilities. Subsequently, debate has emerged on the extent to which NAMAs should reflect the common but differentiated responsibilities of all UNFCCC Parties, and whether or not it should be voluntary, part of commitments, and/or conditional on financial support from global mechanisms.

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