Workshop on REDD+ MRV Roadmap

Workshop Report

22-24 February 2012
Paramaribo, Suriname

Table of Contents

LIST OF ACRONYMS **2**

1. INTRODUCTION AND BACKGROUND **3**

1.1 Status of REDD+ in Suriname 3
1.2 Status of MRV System in Suriname 3
1.3 Objective of the workshop 3
1.4 Methodology 3

2. PARTICIPANTS **4**

3. METHODS AND MATERIALS **6**

3.1 Presentations 6
3.1.1 Welcome and Introduction: Workshop on REDD+ MRV Roadmap *6*
3.1.2 UNFCCC and the Second National Communication *6*
3.1.3 Introduction to REDD+ *6*
3.1.4 REDD+ readiness and financial options: the case of the FCPF and UN-REDD *7*
3.1.5. Suriname's path to REDD+ Readiness *7*
3.1.6 Measuring, Reporting and Verification *7*
3.1.7 MRV Systems: Summary of country cases *7*
3.2 Working Groups 8
3.3 Material 8
3.4 Evaluation of the workshop 9

4. RESULTS **10**

4.1 Potential elements and principles for Suriname's carbon MRV system 10
4.2 Institutional capacities for different aspects of the MRVS 10
4.3 Activities towards the establishment of an MRV system 12

5. FACILITATOR'S SYNTHESIS AND RECOMMENDATIONS **15**

5.1 Main elements for an MRV system 15
5.2 Activities to be considered towards the creation of an MRV system for Suriname. 1

APPENDIX **3**

Appendix 1. Agenda 3
Appendix 2. List of Participants 5
Appendix 3. Copy of pre-workshop survey 6
Appendix 4. Copy and results of post-workshop survey 8

LIST OF ACRONYMS

ADEKUvS	Anton de Kom University of Suriname
ATM	Ministry of Labor, Technological Development and Environment
BUZA	Ministry of Foreign Affairs
CELOS	Centre for Agricultural Research in Suriname
CI	Conservation International
CIF	Climate Investment Funds
CSO	Civil Society Organization
FAO	United Nations Food and Agriculture Organization
FCPF	Forest Carbon Partnership Facility of the World Bank
FIN	Ministry of Finance
GEF	Global Environmental Facility
GLIS	Land registration and Land information system
GMD	Geology and Mining Department of Suriname
HFLD	High Forest and Low Deforestation
IPCC	Intergovernmental Panel on Climate Change
LBB	Suriname Forest Service
LVV	Ministry of Agriculture, Animal Husbandry and Fisheries
NAMAs	Nationally appropriate mitigation commitments or actions by developed country Parties
MRVM	Measurement, Reporting, Verification and Monitoring
MRVS	Measurement, Reporting and Verification System
NATIN	Nature Technical Institute
NGO	Non-Governmental Organisation
NH	Ministry of Natural Resources
PA	Participants Assembly
PC	Participants Committee
REDD	Reduced Emissions from Deforestation and Degradation
REDD+	Reduced Emissions from Deforestation and Degradation
RG	Resource Group
RGB	Ministry of Physical Planning, Land and Forest Management
RL/REL	Reference Level / Reference Emission Level
RO	Ministry of Regional Development
RPIN	Readiness Plan Idea Note
RPP	REDD Readiness Preparation Proposal
SBB	Foundation for Forest Management and Production Control
SNC	Second National Communication
TBI	Tropenbos International
ToR	Terms of Reference
UNFCCC	United Nations Framework Convention on Climate Change
VIDS	Association of Indigenous Village Leaders in Suriname
VSG	Association of Saramaka Authorities
WG	Working Group
WWF	World Wildlife Fund

1. INTRODUCTION AND BACKGROUND

1.1 Status of REDD+ in Suriname

As a high forest and low deforestation (HFLD) country, Suriname embarked on the REDD+ initiative for the possibility of getting financial compensation for its forest carbon stocks. Therefore, it is necessary that Suriname develops a national REDD+ strategy, which has to consider the development plans of the country. The REDD+ strategy should focus on a) sustainable forest management, b) reduction of emissions from deforestation, and c) conserving and enhancing forest carbon stocks.

Suriname is currently in phase 1 of the REDD+ strategy. In March 2009 it completed its first Readiness Plan Idea Note (RPIN) and created a first and second draft of the RPP in August 2009 and January 2010, respectively. The REDD Readiness Preparation Proposal (RPP) must be completed for PC13/PA5 in August 2012. Suriname is planning to implement the RPP between 2012 and 2016, and effectively be ready to apply for international funding after 2012.

1.2 Status of MRV System in Suriname

To participate in REDD+ mechanisms and to comply with the conditions of the Climate Change Convention a Measurement, Reporting and Verification System (MRVS) has to be in place. This is captured in component 4 of the RPP which is to design a monitoring system and will allow the country to be able to show commitment to reducing emissions from deforestation and conserving its forest carbon stocks.

It is necessary to have a framework on how an MRVS for Suriname should be developed: which components and players should be involved, and in which time frame. Furthermore, a budget needs to be calculated and potential funding sources should also be identified.

Activities already undertaken in relation to the MRVS include an initial overview of the steps towards an MRV, knowledge and information exchange with other countries such as Guyana, workshops and training, the creation of a forest cover map and capacity strengthening in forest cover assessment. An earlier workshop in August 2011 was held in partnership with CI-Suriname on MRV and RPP.

1.3 Objective of the workshop

To facilitate learning about Measurement, Reporting and Verification (MRV) systems for REDD+, and to jointly come up with steps to be taken for the REDD+ MRV roadmap to be presented to the policymakers of Suriname, relevant stakeholders and partners.

Specific objectives are to:
1. Provide an overview of climate change and REDD+ policies
2. Provide an overview on REDD+ readiness: the case of the FCPF and UN-REDD
3. Provide an overview of REDD+ MRV systems
4. Provide a space to discuss the drafting of a REDD+ MRV road map for Suriname

1.4 Methodology

This three day workshop consisted of one day of presentations one REDD+ and MRVS to ensure that all participants had acquired equal and necessary information with regards to the topics. (see appendix 1. agenda) The second and last day were working in two separate groups which focused on defining a potential MRV framework and MRV roadmap for Suriname. On the final day this information was consolidated and the next steps were identified in the MRV process.

Two surveys were done during the workshop, a pre-workshop survey (see appendix 3) to assess the prior knowledge level of participants and a post-workshop survey (see appendix 4) to assess the success and effectiveness of the workshop in achieving its objectives. The results of the first and second survey have been added to this report in chapters 2 and appendix 4, respectively.

2. PARTICIPANTS

The participants of the workshop were all working for a variety of different organizations and stakeholders, and their input was necessary for the technical formation of an MRVS. The stakeholders included governmental organizations and ministries, including ATM, RGB, SBB, LVV, RO, FIN, as well as representatives of NGOs, CSOs and research centers such as CI, TBI, VSG, VIDS and CELOS.

At the beginning of the workshop we asked the participants to fill out a questionnaire to have an idea of the expertise of the participants around REDD+ issues and MRV systems. Thirteen people filled out the questionnaire and the results are presented below. Figure 1 shows a description of the knowledge that the participants have of several topics related to REDD+ and MRV systems. It is important to note that the results highlight that the majority of participants think they know a little or somewhat about all of the issues.

We asked them to describe their understanding of REDD+ in general and also about the REDD+ process in Suriname. The answers given show that the process in Suriname is understood in a general way by more than half of the participants, while slightly fewer than half said that they understand some of the issues but not all of them. None of the participants said that they 'totally understand' the state of Suriname's REDD+ framework.

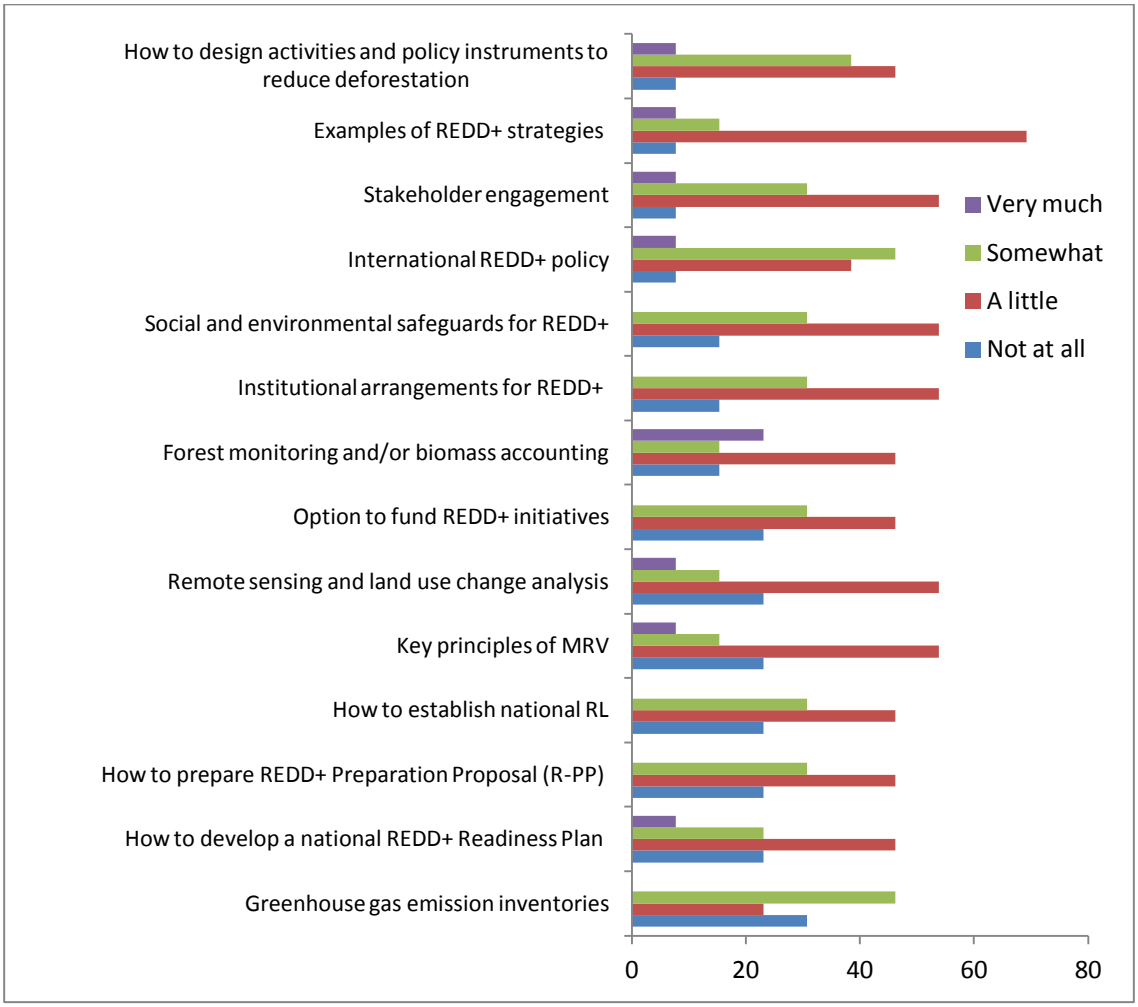


Figure 1. Results of a survey given to participants at the start of the workshop. Participants were asked to describe their level of knowledge regarding different REDD+ issues. Thirteen responses were received and the information is presented in percentage.

When asked about their understanding of the main issues regarding the construction of REDD+, only 15% responded they totally understand them, and one third said that they understand the general idea but not the details. See figure 2.

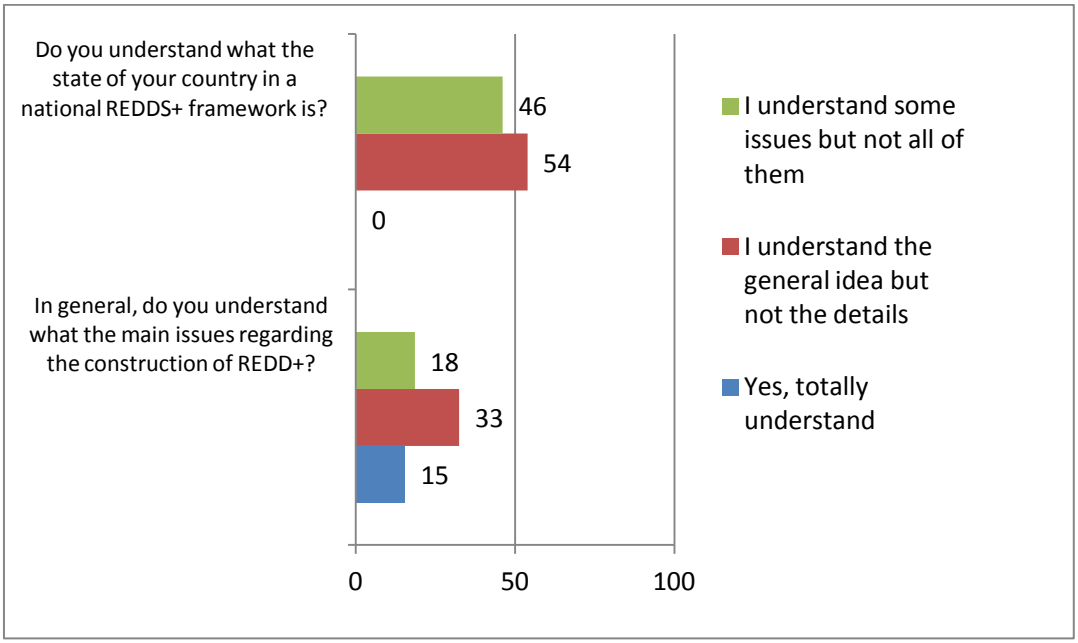


Figure 2. The pre-workshop level of understanding of participants regarding the state of Suriname's national REDD+ framework and of the main elements of the construction of a REDD+ mechanism. Thirteen people responded and the information is presented in percentage.

We finally asked the participants about the kind of support they could provide during the construction of an MRV system. Respondents indicated that the institutions that they represent could provide technical support, support during fieldwork, provide and compile data already generated, advise staff of other institutions and ministers, lead the MRV system and develop the reports and provide support through fundraising activities.

One respondent indicated concern with how the MRV system will include the participation of indigenous peoples and local communities.

3. METHODS AND MATERIALS

3.1 Presentations

In total seven presentations were given during the workshop and these focused on making sure that the participants had equal and adequate knowledge of REDD+ and MRV, in order for them to then discuss the framework for an MRV Roadmap for Suriname during the working groups.

The topics covered during the presentations include the status of REDD+ and MRV at UNFCCC negotiations, an introduction to REDD+, REDD+ readiness and financial options, the status of REDD+ in Suriname, an overview of REDD+ MRV systems and a summary of country cases.

3.1.1 Welcome and Introduction: Workshop on REDD+ MRV Roadmap

By Rene Somopawiro, Director Department of Research and Development SBB

Abstract: This presentation gave an introduction to the workshop and set out the aimed objectives and outcomes. It explained that one of the goals of the workshop is to achieve an equal level of knowledge among the technical officers and to increase capacity in relation to MRV and the other is collectively discuss who will take part in the completion of an MRV Roadmap and what components must such a group focus on. It gave a brief overview on the information provided and expanded on the role of the working group sessions in the following days.

3.1.2 UNFCCC and the Second National Communication

By Anuradha Khoen Khoen, Environmental Policy Officer ATM

Abstract: This presentation explained the international policy development with regards to the United Nations framework Convention on Climate Change and REDD+, and some of the national obligations and effects for Suriname. It gave a brief definition of climate change and greenhouse gases, and their effects. Furthermore it gave a timeline of the developments in climate change policy. It then focused on the aims of the UNFCCC and the obligations of countries under this treaty. The Kyoto Protocol and the emission targets captured under this Protocol for certain countries were expanded on. Various landmark climate conferences and their results were highlighted, particularly the Bali Action Plan which set out six pillars under the UNFCCC, including mitigation. REDD+ was explained as being a climate change mitigation strategy and a method to advance sustainable development. The funding options for REDD+ and current attempts at incorporating the REDD+ mechanism within the Kyoto Protocol, were discussed. Lastly, the presentation focused on Suriname and explained that the country was found to be vulnerable to negative impacts of climate change due to the low-lying coastal area, according to the First National Communication in 2005, a reporting obligation under the UNFCCC. Currently the Second National Communication, which includes an inventory of GHGs and a mitigation analysis, is set to be completed at the end of the year.

3.1.3 Introduction to REDD+

By Steven Panfil, Technical Advisor of REDD+ Initiatives, Global Change & Ecosystem Services, Science + Knowledge

Abstract: This presentation focused on introducing participants to the key elements and concepts of REDD+. It began by giving the definition of REDD+ and outlining the basic concept, which is that of tropical developing countries receiving financial incentives from other countries to reduce their emissions of GHG from the loss of forests (deforestation and degradation) and to preserve and enhance their carbon stocks. The benefits are linked to the abilities of countries to actually reduce their emissions below what would have happened in a baseline scenario and how much they can increase their carbon stocks above initial

levels. The presentation also briefly discussed the possible transitions between types of forest and non-forest land which have to be tracked using the MRV. Furthermore it focused on different aspects of the REDD+ mechanism including the scope, monitoring systems, reference levels, finance, distribution and impacts. It then outlined the three phases of REDD+ explaining that Suriname is currently in phase I 'readiness', which includes REDD+ strategy development, consultations and capacity building.

3.1.4 REDD+ readiness and financial options: the case of the FCPF and UN-REDD

By Mario Chacón Léon, Manager, Training and Capacity Building, Global Change + Ecosystem Services, Science + Knowledge

Abstract: This presentation focused a bit more on the previously mentioned phased approach of implementing REDD+ and the funding options and zooming in on phase I: the readiness phase. For each phase, the key elements of REDD+ were discussed: Scope, Reference level, REDD+ actions, Funding and MRV. The funding for phase I and II for example relies on initial support from international agencies, bilateral agreements and NGOs, while the funding of phase III will rely on compensation based on success on international rules, linked to compliance of carbon markets. The presentation also briefly discussed the financing needs for REDD+ readiness, where the distinction was made between the upfront capacity building costs (like consultation and community engagement) and the ongoing emission reduction costs (like forest protection costs). Furthermore, the different funding options for REDD+ readiness were discussed: such as the UNFCP, UNREDD, multilateral options (like GEF and CIF), bilateral programs (like Norway and Germany). Finally, the preparation of a REDD+ Strategy and Implementation Framework was discussed. Under the FCPF and UN REDD support, countries have to pass through the Formulation phase (RPIN and RPP) and the Preparation phase (R-Package). In addition, many countries are also starting pilot 'demonstration' REDD+ projects: this will help shape REDD+ by testing methodologies, setting standards and demonstrating emission reduction/removal potential.

3.1.5. Suriname's path to REDD+ Readiness

By Rene Somopawiro, Director Department of Research and Development SBB

Abstract: This presentation focused on Suriname's progress with regards to REDD+ and the formulation of the Readiness Preparation Proposal and within that the need for and work towards an MRVS. It started by reiterating some of the basic concepts of the REDD+ mechanism and the fact that Suriname is in phase 1. It flagged events that have taken place in the country with regards to REDD+, in particular the formulation of an RPIN in 2009 and a completion of a first and second draft of the RPP in 2009 and 2010 respectively. The RPP is set to be implemented between 2012 and 2016 and requires a budget of USD $21m. Component 4 of the RPP is design of an MRVS and the presentation highlighted various efforts already undertaken towards that goal. The next steps in the RPP were then identified including the fact that it must be completed for the FCPF Participants Committee 13 in August 2012.

3.1.6 Measuring, Reporting and Verification

By Steven Panfil, Technical Advisor of REDD+ Initiatives, Global Change & Ecosystem Services, Science + Knowledge

Abstract: This presentation gave further insight into the technical workings and components of the MRV system. It did this by first giving a brief background into MRV and explaining the way it should function within the three phases of REDD+. It then expanded on the importance and principles of MRV and highlighted that the MRV must follow IPCC guidelines. It then explained each component of the MRV system in greater details, starting with Measurement. For this, the basics of GHG accounting for REDD+ were outlined including the IPCC basic equation that emissions = AD * EF, or in other words the emissions are equal to the activity data multiplied by the emission factors. The three approaches towards calculating the activity data were then explained as were the three tiers of the emissions factors. For Reporting it was explained who this is done towards and what the reporting principles are, with particular focus on transparency. The role of Verification was also explained and that this is done by a UNFCCC Secretariat roster of experts. Lastly, the process as a whole was reviewed and key points reiterated.

3.1.7 MRV Systems: Summary of country cases

By Mario Chacón Léon, Manager, Training and Capacity Building, Global Change + Ecosystem Services, Science + Knowledge

Abstract: This presentation gave an overview of a few examples of practices by different countries with regards to the development of their national MRV systems. It started by first examining the websites which provide information on REDD+ to the public from Indonesia, Tanzania, Mexico, Peru and Guyana. It then looked at key outcomes for different countries with regards to MRV that they have identified. It particularly focused on Guyana and its current Roadmap. Lastly the presentation summarized this by explaining that the main elements for the MRV system are institutional arrangement, forest land and carbon accounting and monitoring, linking MRV with national GHG inventories and monitoring other benefits and impacts, and that MRV road maps from countries are focusing on the analysis of institutional arrangements, analysis of existing data and gaps and analysis of existing capacities and training programs.

3.2 Working Groups

Participants were sorted into two working groups to foster discussion. Each group addressed the same issues in two sessions and then the inputs from each working group were compiled during plenary sessions. Each working group had a facilitator and the inputs were recorded for further use.

Participants were broken down into the two groups, as listed below:

Group 1 Facilitated by Steven Panfil		**Group 2** Facilitated by Mario Chacon	
Name	**Organization**	**Name**	**Organization**
A. Moredjo	CI	T. Castillion	ATM
S. Jaggan	FIN	M. Playfair	CELOS
S. Patrick	RO	M. Sumter	RO
P. Seth	SBB	R. Somopawiro	SBB
R. van Kanten	TBI	R. Wijnerman	SBB
S. Kalpoe	LVV	C. Sanches	SBB
S. Crabbe	SBB	R. Simson	VSG
M. Sanches	SBB	H. Malone	
B. Pinas	RGB	P. Miranda	CI
L. Egerton	SBB		

The working groups met for two sessions on day 2 of the workshop. In session 1, 'Defining a potential MRV Framework for Suriname', the participants first developed a common understanding of the necessary understanding of an MRV system, including data requirements, and the necessary operational framework (institutional arrangements, legal issues, financial needs).

They then reviewed these components to identify existing capacities in Suriname and thereby also existing gaps. They then described the actions required to address these gaps.

In session 2, 'Develop an MRV Roadmap framework', the groups reviewed the list of required activities developed in session 1 in order to identify the institutions best placed to implement the proposed actions. The groups also described the necessary (human and financial) resources

On day 2 the inputs were from each working group were compiled during plenary to develop a single roadmap that described the needed actions, responsible institutions, timing, and resources needed to develop an MRV system for Suriname. The results of these sessions underwent further consolidation and are listed in chapter 4.

3.3 Material

The information provided during the workshop was delivered using Powerpoint presentations, which along with other key documents were passed on to participants via USB sticks. Documents pertaining to MRV from other countries were available during the workshop. Such as the Terms of Reference for Developing Capacities for a national Monitoring, Reporting and Verification System to support REDD+ participation of Guyana: Background, Capacity Assessment and Roadmap (Guyana Forestry Commission: November 13,

2009). All the material is derived from science-based information and documents made available through channels such as the UNFCCC, IPCC and FCPF.

3.4 Evaluation of the workshop

At the end of the workshop the participants were asked to evaluate the workshop. This was done for the use of the facilitators, with the objective of improving future workshops of this type. The questionnaire used for this survey and results are shown in Appendix 4.

4. RESULTS

4.1 Potential elements and principles for Suriname's carbon MRV system

The first working group session was designed to develop a common understanding of the key elements needed for Suriname's MRVS. Participants were asked to list a comprehensive set of elements and to categorize them by the main elements of MRV- Measurement, Reporting, Verification, and also any specific issues related to ongoing Monitoring or general issues relevant to the entire MRVS.

Following a working session in the small groups, a list of key elements for MRV was compiled with inputs from both groups. The results of this work are summarized in Table 1.

Table 1. Potential elements and principles for Suriname's carbon MRV system suggested by participants of the workshop

General/Overall MRV	Measuring	Reporting	Verification	Monitoring
Overall REDD+ Strategy • Institutional Capacity (Capacity Building Needs Analysis) • Human capacity in place • Institutions structured/arranged • Data tracing system • Empowerment and use of local knowledge for REDD+	**Activity data:** • National Definition of Forest • Baseline as starting point • Nat'l data base for land use • Forest classification (Land use classification) • Baseline Land use map (starting) • Assessment of historical deforestation and degradation • Assessment of drivers of deforestation / Analysis of drivers of deforestation • Quality Check of process **Carbon Inventory:** • Assessment of existing data • Carbon stock data base • Standard methodology for carbon stock assessment and inventory • Sampling Design (National design) • Community based • Quality Check of **processmeasurement**	• Reporting to relevant stakeholders (National and International) • System for feedback from stakeholders • Data Analysis system • Standard Reporting Format (using appropriate methods) • Designing Template for National Reporting • Creation of a Website	• Internal Verification • Local Validation of National Reports • International Verification by roster of experts (UNFCCC or third party)	• Land use map (updates) • Carbon inventory • Capacity Needs (Human and others) • Implementation of REDD+ Strategy • Data security • Policy Development (REDD+ Policy in Field Activities) • Scientific Development • Reference Level • Impacts on Communities • Data-Base • Other Impacts, governance, safeguards • Carbon Stock Change (new measurements)

4.2 Institutional capacities for different aspects of the MRVS

During the second workgroup session, participants were asked to identify the institutions with capacities that are relevant to the different elements described in the previous session. Following small group work, the results of both groups were compiled and are presented in Table 2.

Table 2. Suriname institutional capacities for different aspects of the MRV detected by the participants of the workshop

Element	Who can do it?
Measurement	
Activity Data	
National Definition of Forest	CELOS/ADEK, SBB, LBB
Baseline as starting point (Carbon stocks) Technical	CELOS/ADEK, SBB, LBB
Baseline as starting point (Carbon stocks) Political	RGB, ATM
National data base for land use	RO, LVV, RGB, NH, GLIS, Planureau, SBB, NGOs (WWF/TBIS/CI), CELOS/ADEK (NATIN)
Forest classification	SBB, CELOS
Land use classification	RO, Planbureau, LVV, RGB, GLIS
Baseline Land use map (starting)	CELOS, NGOs, SBB, RGB/GLIS, Planbureau, RO
Assessment of historical deforestation and degradation	CELOS, NGOs, SBB, RGB/GLIS, Planbureau,NH/GDM/ATM
Assessment of drivers of deforestation / Analysis of drivers of deforestation	RO, SBB, CELOS, NH, Ordening Goudsector, GMD, Planbureau, NGOs (WWF/TBIS/CI),
Carbon Inventory	
Assessment of existing data	SBB, LBB, ATM, METEO, Herbarium, LVV, private forestry sector, local communities, NGOs
Carbon stock data base (collection & management)	SBB, CELOS/ADEK, ATM, LVV, NH, METEO
Standard methodology for carbon stock assessment and inventory	SBB
Sampling Design (National design)	SBB, CELOS/ADEK, NGOs, LBB, private forestry sector, local communities, NGOs
Field measurement and research	SBB, LBB, RO, CELOS/ADEK, community based measurement system, private sector, NGOs
Reporting	
Reporting to relevant stakeholders (National and International)	BUZA, Min Fin, ATM, NGOs/Civil society, RO, RGB, SBB, CELOS/ADEK
System for feedback from stakeholders	ATM, NGOs, RO, RGB, SBB, CELOS/ADEK
Data Analysis system	ATM, NGOs, RO, RGB, SBB, CELOS/ADEK, ABS, NH
Standard Reporting Format (using appropriate methods)	CELOS/ADEK
Designing Template for National Reporting	ATM, NGOs, RO, RGB, SBB, ABS, NH
Creation of a Website	Kabinet van de President
Verification	Leaders of Measurement & Reporting, ATM
Internal Verification	National Group of experts
Local Validation of National Reports	National group of experts
International Verification by roster of experts (UNFCCC or third party)	UNFCCC or independent body

Monitoring	
Land use map (updates)	same as reporting
Carbon inventory	
Capacity Needs (Human and others)	
Implementation of REDD+ Strategy	
Data security	
Policy Development (REDD+ Policy in Field Activities)	
Scientific Development	

Reference Level	
Impacts on Communities	
Data-Base	
Other Impacts, governance, safeguards	
Carbon Stock Change (new measurements)	
Support with capacity building	ADEKUvS, NATIN, TBI, CI, WWF

During this session, the importance of strong political and legal support for an institutional framework for MRV was discussed. Participants discussed the need to explore which existing institution should coordinate the national MRV system, and/or explore the option of creating an independent agency. Participants discussed some of the key inputs needed before final decisions can be made regarding the most appropriate institutional framework for Suriname's MRVS. These include: the analysis of institutional capacities, a clear definition of the role of local communities, the establishment of a strong and clear legal framework for REDD+ including MRV and the consolidation of political support. Participants suggested that lead institutions will need to be designated for several roles, including: organization of a capacity building process, collection and analysis of land use activity data, carbon inventories, reporting and verification, and other activities linked to the REDD+ national strategy.

4.3 Activities towards the establishment of an MRV system

During the afternoon session of Day 2, participants broke into the two working groups and were asked to compile a list of the activities required to achieve each of the required elements of the MRV system. Work done by each group was compiled into a single list and the results are presented in the "Activities" column of Table 3.

Activities	Outcomes
Development of Roadmap document	
An analysis of other existing MRV roadmaps, IPCC guidelines and other relevant documents.	
A detailed description of all of the elements needed for a functional MRV system and a timeframe for achieving them.	
Define leaders of the sub-working group (define a scheme/organigram)	
Review the MRV section of the RPP	
Identify members of Resource Group (to be informed of the roadmap and consulted when necessary)	
An assessment of different REDD+ strategies and their effects on measurements. A translation of the strategy into a workplan, which examines where measurements will be taking place.	
A cost analysis of the MRV design and implementation	
Develop a fundraising strategy	
Review the methodologies that we are implementing now	Designing methodologies based on the methodologies that we already have
Determine the definition of forest and other lands to include in the REDD+	
Developing a training plan based on capacity needs	Trained people
Reviewing the national policies and legal framework	Legal support for the MRV system
Analyzing an institutional capacities and responsibilities	Established operational framework
Design consultation and awareness plan	consultation and awareness plan designed
- Private sector	
- Civil Society	
- Government	
Assess all the available data/information and determine gaps	Overview of available data and gap determined
- The maps, technical reports, carbon inventories, etc.	
An assessment of current capacities and capacity needs.	
- On knowledge and skills	A capacity building plan.
- On resources	List of necessary resources
Presenting to ATM and RGB	

Table 3. Activities, towards the establishment of an MRV system for Suriname, proposed during working group discussions.

During the morning session of Day 3, participants jointly organized the activities into three steps.

Step 1 includes the activities required to formally establish an MRV Working Group. For these activities, suggestions were made for organizations that should be responsible for the activities, and target deadlines were also established. For some of the activities, specific outcomes were also described. Table 4 summarizes this information.

Table 4. Main activities, responsible and deadline under step 1, towards the establishment of an MRV system for Suriname.

Activity	Responsible	Deadline
Developing and distribution of workshop report	SBB and CI	March 10
Preparing and distribution of a letter to ministers and leaders of other relevant organization. The letter will describe the value of an MRV system for Suriname, inform about the MRV working group in process of conformation and to request ministers and other organization the assignation of a focal point for MRV process	Develop draft: SBB Present letter: ATM/RGB	March 17
Determining the terms of references for MRV working group Including a description of competencies needed by members of Working Group	SBB with CI	March 17
Appoint an institution responsible for development of the MRV System (A government institution that the WG reports to)	ATM/RGB	March 17
A chair of the WG and leaders of the sub-working groups are defined	ATM/RGB	April 30

Step 2 includes the activities for which the working group is expected to be responsible. A key responsibility is the establishment of a REDD+ MRV Road Map, and a deadline of September 30, 2012 was proposed for this output. Several of the other activities described in Step 2 are elements of this MRV Road Map.

Step 3 is the implementation of the MRV Road Map, which is the detailed set of activities that must be undertaken before the operation of Suriname's MRV system can being. This Step is expected to occur between October 2012 and 2016.

Step 4 is the full operation of the MRV system, and is expected to begin in 2016.

5. Facilitator's Synthesis and Recommendations

Section 4 of this report presents the results of the working groups and plenary sessions. Section 5 was prepared after the workshop by the facilitators from Conservation International as a synthesis of the workshop results and information that was provided during the presentations from Day 1. This section is intended to clarify some of the results from the working groups focusing on the main elements for an MRV system and also presents a summary of the key activities to be considered during the creation of an MRV system for Suriname.

5.1 Main elements for an MRV system

Table 5 provides a more detailed description of the key elements of an MRV System for REDD+. This table was made based on working group discussions, the summary of the results presented in table 1, and notes taken by the facilitators of the workshop. This table includes technical language that is used under the UNFCCC and in IPCC publications. Missing elements were also incorporated, specifically those regarding GHG inventories and monitoring for social and environmental impacts and safeguards.

Table 5. Elements of an MRV System for Suriname, based on inputs from workgroup sessions

General Elements and Principles	Measuring	Reporting	Verification	Monitoring
• The MRVS is part of the overall national REDD+ strategy, strategy which is linked to the NAMAs. • The MRVS will be linked to the national systems for providing information on safeguards and co-benefits, and the construction, adjustment and monitoring of national reference levels. • The MRV system will be established taking into consideration UNFCCC policy recommendations. • Methodological issues regarding GHG emission inventories will follow guidance and guidelines provided by the IPCC. • The MRVS activities will be linked to the entities leading UNFCCC national communications. • The MRV institutional/operational framework will coordinate all the activities taking into account the effective engagement of indigenous peoples and local communities. • The main elements of the MRVS can include: ○ A permanent program to create and update institutional and stakeholder's capacities, incorporating local knowledge from indigenous peoples and communities ○ A national carbon inventory system ○ A national satellite forest monitoring system ○ A Green House Gas Inventory and reporting and verification system ○ A REDD+ data base ○ A robust sata tracing system that facilitates verification should be in place	**Activity data:** • Assessment of land use and land use change by using satellite and remote sensing, including forest inventories. ○ Clear national definition of forest and other land uses comparable with UNFCCC and IPCC guidance ○ Forest classification and other land use classification comparable with IPCC guidance ○ Assessment of drivers of deforestation ○ Assessment of historical deforestation, degradation and other land use changes ○ Develop a land use change matrix • Maps of historical deforestation, degradation, land use maps to provide the starting reference point. • A centralized data base that stores land use information centrally, and in a way that is compatible across sectors **Emission factors** • Standard of methods and procedures for carbon stock assessment and inventory comparable with UNFCCC and IPCC guidance ○ Sampling design ○ Assessment of country potential for carbon conservation and carbon enhancement ○ Community based measurement validation of the quality of the data • Develop carbon stocks assessments **GHG inventories** • Preparation of GHG inventories linked to national communications	• Transparent procedures to report at international level based on UNFCCC and IPCC procedures • Transparent procedures to report at national level (stakeholders: ministers, private sector, academia, local communities, etc.) ○ Standard reporting format (using appropriate methods) according to different stakeholders ○ System for feedback from stakeholders • Creation of a website to inform results to a more general audience • Other reports: technical and scientific papers, congress, seminar, donors, etc.	• Local validation of national and international reports • International Verification by roster of experts (UNFCCC or third party)	• Develop and test monitoring protocols for: ○ Community based measurement and monitoring ○ Updating of land use and land use change maps and matrix ○ Updating carbon inventory and carbon stock change (new measurements) ○ Updating GHG inventories ○ Monitoring data security (backup system) ○ Independent body monitoring process ○ Support adjusting reference level Other relevant issues: • Implementation of REDD+ Strategy (REDD+ Policy in Field Activities) • Impacts on environment and local communities • Database • Governance and safeguards • Capacity Needs (Human and others)

5.2 Activities to be considered towards the creation of an MRV system for Suriname.

Table 6 categorizes key activities that are part of MRVS development. This table summarizes the working group discussions (the content presented in Table 3) and includes other information provided by the facilitators. The activities described in Table 6 may also be useful (together with Table 3) in developing the Terms of Reference for Suriname's MRV Working Group.

Table 6. Main activities, responsible and deadline under step 1, towards the establishment of an MRV system for Suriname.

	Activities	Description
Administration and organizational issues	Definition of activities of the chair of the WG and sub-working groups	Responsibilities and roles are well defined.
	Define coordination meetings and workshops	Facilitate the development of the MRV road map
	Estimation of budget and definition of a work plan	
	A cost analysis of the MRV design and implementation	
	Develop a fundraising strategy	
	Presenting results to ATM and RGB	
Institutional framework	Identify members of Resource Group (to be informed of the roadmap and consulted when necessary)	A Resource Group was conformed. This group will be conformed mainly by focal points from main institutions and stakeholder participating of the MRV system
	An analysis of other existing MRV roadmaps, UNREDD, FCPF, IPCC guidelines and other relevant documents. The revision includes results of MRV road map workshop held in February 2011.	Literature review to support the development of the MRV road map
		A detailed description of all of the elements needed for a functional MRV system and a timeframe for achieving them.
	Review the MRV section of the RPP	Carbon MRV section of the FCPF-RPP was improved.
	Assess institutional capacities for MRV and capacity needs (including human capacities and resources needed)	Responsibilities and roles of the institutions and stakeholder that will be implementing the system
	Develop and implement a capacity building plan based on capacity needs	Staff of MRV stakeholders are trained
	Reviewing the national and international policies and legal framework	Political and legal support for the MRV system
	Design and implement a consultation and awareness plan for multiple stakeholders (Government, Civil Society, Private sector, etc.)	Consultation and awareness plan designed
	Define institutional and operational framework	Institutional and operational framework is created
Methodological issues	Assess current carbon data and land use information and determine gaps of information.	Inventory of activity data, emission factor and ongoing projects working in this issues, collect missing information
	Develop and implement a plan to fill information gaps	
	Review of MRV relevant methodologies that have being taking in place in Suriname and compare then with international guidelines (UNFCCC, IPCC, UN REDD, FAO, FCPF, GOFC/GOLD, etc.)	AN MRV methodology and procedures are designed
	Determine the definition of forest and other lands to include in the REDD+	
	An assessment of different national REDD+ strategies and their effects on the designing of the MRV system	Support the national REDD+ strategy, especially in those field related to the overall monitoring system
	Analyzing the participation of the MRV system during development of RLs/RELs	
	Analyzing the inclusion of other monitoring issues	

	as part of the carbon MRV framework (governance, safeguards, co-benefits)	
Parallel implementation activities	Develop forest inventories and carbon stocks assessments (incorporating ongoing projects)	Support the national REDD+ strategy, test methodologies and prepare for the greenhouse gas inventory development and reporting process
	Develop land cover/land use change analysis and projections assessments (incorporating ongoing projects)	
	Preparation reporting and verification systems	
	Supporting RLs/RELs development	

APPENDIX

Appendix 1. Agenda

Day 1. Status of REDD+ and MRV systems at the international and national level		
Time	**Topic**	**Responsible**
08:30-09:00	Participants registration	
09:00-09:30	**Welcome and Introduction** ○ Introduction of the participants ○ Objectives of the workshop ○ Concept and structure of the workshop ○ Survey on technical capacities of the participants	Pearl Jules Rene Somopawiro
09:30-10:15	**Status of REDD+ and MRV at UNFCCC negotiations** 30 min presentation + 15 min discussion	Anuradha Khoen Khoen
10:15-10:30	**Coffee break**	
10:30-11:15	**Introduction to REDD+** 30 min presentation + 15 min discussion	Steven Panfil
11:15-12:00	**REDD+ readiness and financial options: the case of the FCPF and UN-REDD** 30 min presentation + 15 min	Mario Chacon
12:00-13:00	**Lunch**	
13:00 – 14:15	**Status of REDD+ in Suriname (FCPF and UN REDD)** 30 min presentation + 15 min discussion	Rene Somopawiro
14:15 – 15:15	**Overview of REDD+ MRV systems** - Main elements of an MRV system and country examples 45 min presentation + 15 min discussion	Steven Panfil / Mario Chacon
15:15 – 15:45	**Review of the day, final comments and preparation for day 2.**	Mario Chacon / Steven Panfil
15:45 – 16:00	**Coffee break (end of day 1)**	

Day 2. Designing an MRV: institutional architecture and national capacities		
Time	**Topic**	**Responsible**
08:30-08:45	Review of the agenda, comments and questions	Steven Panfil / Mario Chacon
08:45-10:45	**Defining a potential MRV Framework for Suriname** **Workings groups** We will break into 2-3 working groups to facilitate discussion. Each group will address the same issues and then we will compile inputs from each working group during plenary sessions. Participants will first develop a common understanding of the necessary components of an MRV system, including data requirements, and the necessary operational framework (institutional arrangements, legal issues, financial needs) They will then review these components to identify existing capacities in Suriname, and thereby also identify gaps. They will then describe actions required to address these gaps	
10:45-11:00	**Coffee break**	
11:00-12:30	Group presentations and discussions	
12:30-13:30	**Lunch**	
13:30-15:30	**Develop an MRV Roadmap framework** We will form 2-3 groups. Groups will review the list of required activities developed in the morning session to identify the institutions best placed to implement the actions and will also describe the resources (human and financial) needed.	
15:30-16:00	**Review of the day, final comments and preparation for day 3.**	

Day 3. Discussion on drivers of deforestation and forest degradation		
Time	**Topic**	**Responsible**
09:00-09:15	Review of the agenda, comments and questions	Mario Chacon / Steven Panfil
09:15-10:40	**Group presentations and discussions Develop an MRV Roadmap framework**	
10:40-11:00	**Coffee**	
11:00-12:30	**Draft future actions** In plenary, we will compile inputs from each working group to develop a single roadmap that describes the needed actions, responsible institutions, timing, and resources needed to develop an MRV system for Suriname.	Mario Chacon / Steven Panfil
11:30-12:30	**Review of the day and next steps** To incentive the participation of the institutions attending the workshop to conform an MRV working group to oversee official adoption and implementation of the MRV road map.	
12:30-12:45	**Closing session**	Armand Moredjo Pearl Jules Rene Somopawiro
12:45	**Lunch**	

Appendix 2. List of Participants

	Name	Organization	Tel.	Email
1	P. Jules	SBB	483131	pearl_jules@hotmail.com
2	R. Somopawiro	SBB	483131	
3	B. Lakhisaran	SBB	483131	
4	I. Hasselnook	SBB	483131	
5	S. Crabbe	SBB	483131	sarah_crabbe@yahoo.com
6	R. Wijnerman	SBB	483131	ryanflwijnerman@hotmail.com
7	S. Panka	SBB	483131	seanpanka@yahoo.com
8	R. Jagessar	SBB	483131	shah25@liv.com
9	L. Egerton	SBB	483131	
10	M. Sanches	SBB	483131	morissa761@yahoo.com
11	C. Sanches	SBB	483131	charrosan@hotmail.com
12	A. Moredjo	CI	421305	amoredjo@conservation.org
13	P. Miranda	CI	421305	pmiranda@conservation.org
14	B. Pinas	Min. RGB	8724875	bpinas@natuurbeheer.sr.org
15	A. Khoen Khoen	Min. ATM	420960	anuradha.khoenkhoen@atm.gov.sr
16	T. Castillion	Min. ATM	420960	theresa.castillion@atm.gov.sr
17	C. Mans	Min. ATM	420960	cheryll.mmans@gmail.com
18	S. Jaggan	Min. Fin.	471108 ext 241	sagita.jaggan@finance.gov.sr
19	S. Kalpoe	Min. LVV	8596963	brewmaster_sur@hotmail.com
20	P. Sotong	Min. RO	8741510	a4868@hotmail.com
21	M. Sumter	Min. RO	7214112	mayra.sumter@gmail.com
22	M. Playfair	CELOS		
23	R. van Kanten	Tropenbos	532001	ptl_tropenbossruriname@yahoo.com
24	M. Esseboom	CELOS		
25	N. Donoe	VSG	8686068	crasje1@hotmail.com
26	R. Simson	VSG	8541904	natesimmy@hotmail.com
27	J. Artist	VIDS	8630072	joseeartist@yahoo.com
28	Mario Chacon*	CI		mchacon@conservation.org
29	Steven Panfil*	CI		spanfil@conservation.org
30	Roald Tjon-Kon-Fat**	CI		r.tjonkonfat@conservation.org

* Facilitator of the workshop

** Logistics support and report editor

Appendix 3. Copy of pre-workshop survey

REDD+ MRV Road Map –Workshop - , February 22nd to 24th 2012. Paramaribo, Pre-workshop questionnaire

1. **In general, do you understand what the main issues regarding the construction of REDD+?**

   ( ) Yes, totally understand
   ( ) I understand the general idea but not the details
   ( ) I understand some issues but not all of them

2. **Please let us know the level of your knowledge in the next areas. Place an "X" in the box that matches your answer for each**

Topic	Not at all	A little	Somewhat	Very much
International REDD+ policy	☐	☐	☐	☐
How to develop a national REDD+ Readiness Plan	☐	☐	☐	☐
How to prepare REDD+ Preparation Proposal (R-PP) for Forest Carbon Partnership Facility (FCPF)	☐	☐	☐	☐
How to establish national reference emission levels for REDD+	☐	☐	☐	☐
Forest monitoring and/or biomass accounting	☐	☐	☐	☐
Greenhouse gas emission inventories	☐	☐	☐	☐
Key principles of carbon accounting and Monitoring, Reporting and Verification (MRV)	☐	☐	☐	☐
Remote sensing and land use change analysis	☐	☐	☐	☐
Stakeholder engagement in developing the REDD+ strategy	☐	☐	☐	☐
Examples of REDD+ strategies at the National Scale (country experience)	☐	☐	☐	☐
Institutional arrangements for REDD+	☐	☐	☐	☐
How to design activities and policy instruments to reduce deforestation	☐	☐	☐	☐
Social and environmental safeguards for REDD+	☐	☐	☐	☐
Option to fund REDD+ initiatives	☐	☐	☐	☐
Other (please specify) _____	☐	☐	☐	☐

3. Do you understand what the state of your country in a national REDD+ framework is?

( ) Yes, totally understand
( ) I understand some issues but not all of them
( ) I understand the general idea but not the details

4. Please describe how your institution could participate in REDD+ during the construction of an MRV system.

5. What is your goal for this workshop?

Appendix 4. Copy and results of post-workshop survey

REDD+ MRV Road Map Workshop
Feb 22-24, 2012
Paramaribo, Suriname

Post-workshop questionnaire

1. **Please rate the workshop in terms of its success in meeting its objectives: (Unsuccessful, somewhat successful, successful)**

   Objective

- Provide an overview of climate change and REDD+ policies.
- Provide an overview on REDD+ readiness : the case of the FCPF and UN-REDD
- Provide an overview of REDD+ MRV systems
- Provide a space to discuss and draft a REDD+ MRV road map for Suriname.

2. **Please rate the quality of the training materials (Day 1)**

   Powerpoint slide layout (Unclear, somewhat clear, clear)
   Provide any additional comments or suggestions:

   Powerpoint slide content (Unclear, somewhat clear, clear)
   Provide any additional comments or suggestions:

3. **Please rate the quality of the facilitation in the working group sessions (Day 2)**
   (Poor, Adequate, Excellent)

   Provide any additional comments or suggestions:

4. **Rate the relevance of the workshop to your professional responsibilities**
   (Not relevant, Somewhat relevant, Very relevant)

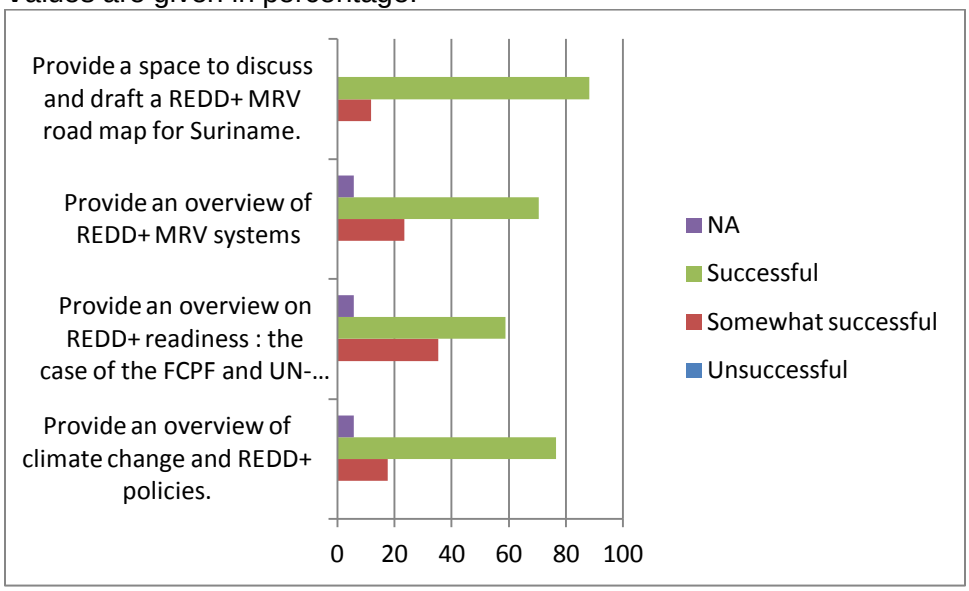
5. **What aspects of the workshop were the most useful for you?**

6. **What aspects of the workshop should be improved?**

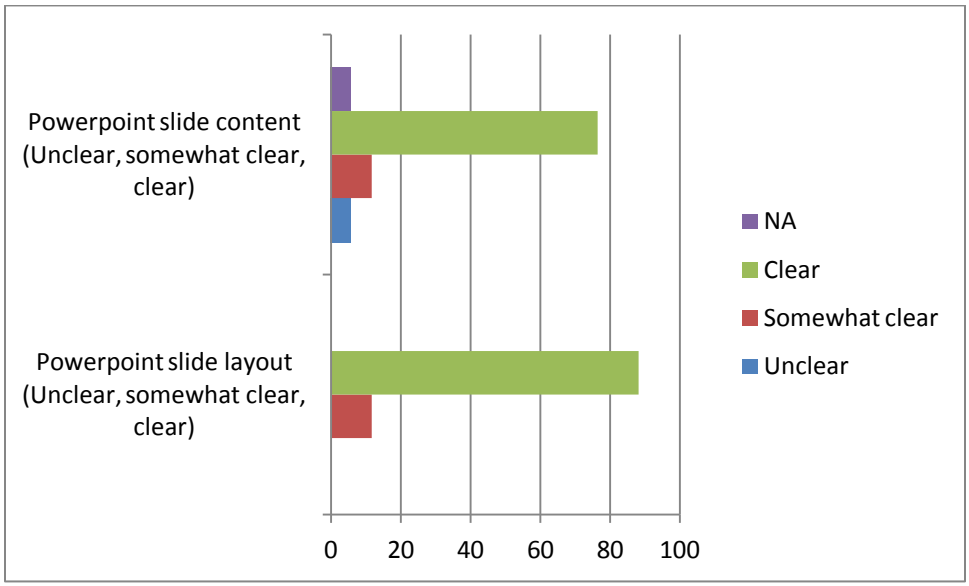
7. **Other Comments or suggestions:**

Summary Workshop evaluation results based on 17 answers

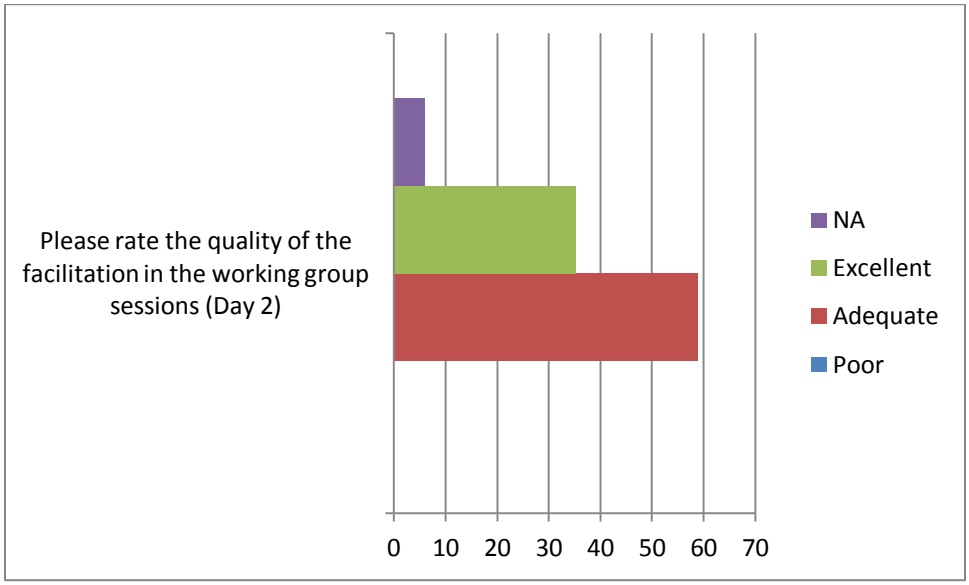
Please rate the workshop in terms of its success in meeting its objectives. Values are given in percentage.



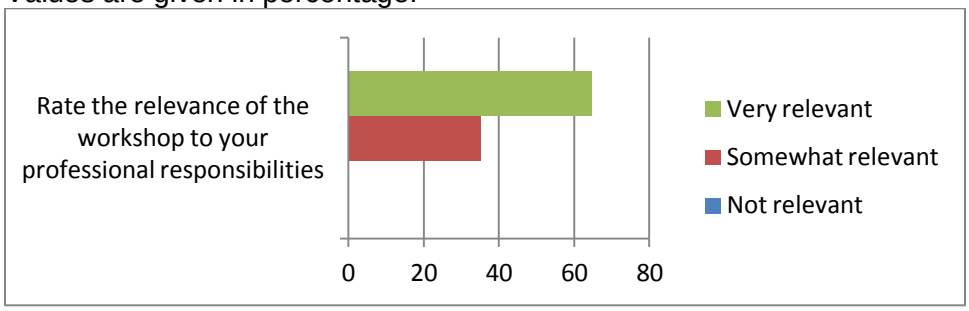
Please rate the quality of the training materials (Day 1). Values are given in percentage.



Please rate the quality of the facilitation in the working group sessions (Day 2). Values are given in percentage.



Rate the relevance of the workshop to your professional responsibilities. Values are given in percentage.



What aspects of the workshop were the most useful for you?
Working sessions/discussions, construction of an MRV roadmap, facilitation process, knowing more about the work of other ministries

What aspects of the workshop should be improved?
Reporting, presentations, last day activities were unclear, workshop should be longer, improve the guiding of group sessions to save time, improve CC policies, ensure the participation of each participant

Other comments
Excellent job, good outcomes, more detailed information for next trainings.