

Table 3: MRV road map – objectives and expected key results for different phase

	National strategy (2010/11) →	Country readiness (2011/12) →	Implementation (post 2012) →
Objectives	Gather and integrate information & fill data gaps for national REDD opportunities, scoping and policy development	Develop capacities, conduct historical monitoring, and implement a (minimum) IPCC Tier 2 national forest carbon monitoring, establish the reference level and report on interim performance	Establish consistent and continuous MRV supporting national REDD+ actions and international IPCC GPG-based reporting and verification
Key results and national capacities developed	<ol style="list-style-type: none"> 1. Comprehensive MRV roadmap developed and national MRV steering body operational 2. Improved national capacities on LCDS, REDD, IPCC-LULUCF, and carbon dynamics 3. Framework and capacities to demonstrate REDD implementation and interim performance 4. All data available and accessible (including acquisition of new forest carbon data) on drivers and processes needed for developing a national REDD policy and interim implementation plan 5. Established communication and participation mechanism to involve relevant stakeholders nationally and internationally 6. Approaches for setting reference levels, linking MRV and policy, and MRV co-benefits and synergies are explored and defined 	<ol style="list-style-type: none"> 1. Capacities in place for consistent and continuous acquisition and analysis of key data for Tier 2 nationally and Tier 3 for demonstration/activity sites including international reporting using IPCC LULUCF; uncertainty assessment MRV improvement plan developed 2. Reference level established based on historical data, and future developments using internationally accepted methods 3. All data available and accessible for an updated national REDD implementation plan 4. Regular reporting on REDD demonstrations and interim performance 5. Continued engagement with key national stakeholders for REDD implementation and assuring long-term sustainability of MRV capacities (i.e. universities) 6. Monitoring system explored to cover key variables for other ecosystem services 	<ol style="list-style-type: none"> 1. IPCC key category analysis and assessment for Tier 3 approaches completed and implemented (if desired) 2. Independent international review of full MRV system completed 3. Capacity in place and implementation to deliver verification and compliance assessment for REDD results-based compensation 4. National data infrastructure of forest greenhouse gas inventory and assessment in place for regular reporting 5. Implementation plan to use new and proven technologies to reduce uncertainties and increase efficiency of MRV system 6. Framework developed that links REDD into LCDS monitoring, reporting and verification system

Table 4: MRV road map – specification of activities for gap filling

	National strategy →	Country readiness →	Implementation →
Objectives	Gather and integrate information & fill data gaps for national REDD opportunities scoping and policy development	Develop capacities, conduct historical monitoring, and implement a (minimum) IPCC Tier 2 national forest carbon monitoring, establish the reference level and report on interim performance	Establish consistent and continuous MRV supporting national REDD+ actions and international IPCC GPG-based reporting and verification
Data gap filling	<ul style="list-style-type: none"> Gather, evaluate and integrate existing data sources on the national level Acquire additional data (if needed) to analyze (the carbon impact) of all relevant historical forest change processes and drivers (i.e. using satellite data, initial carbon stock assessments and ancillary information) Assessment of historical and current processes of forest carbon change for formulating national REDD policy strategy and related MRV priorities, and respond to an initial set of interim performance indicators 	<ul style="list-style-type: none"> Establish mechanisms and partnerships with relevant data sources (i.e. satellite data) to facilitate availability to Guyana in a consistent and continuous way Data gathering and analysis of drivers and factors of forest carbon change to support an assessment of future driver activities and related/projected forest carbon changes Collect data for a first comprehensive uncertainty assessment of the different measurement and monitoring components 	<ul style="list-style-type: none"> Conduct an IPCC key category analysis Assess opportunities and data gaps to move towards Tier 3 on the national or sub-national (if desired) Foster and support REDD activity-based monitoring by different actors as part of national framework
Eligibility gap filling	<ul style="list-style-type: none"> Develop a national REDD strategy Involvement of all relevant stakeholders at the national and sub-national level – set up a sustained two-way communication mechanism Participation in international REDD and REDD readiness processes Scope a framework for immediate demonstration actions and interim performance indicators that will respond to an international REDD mechanism 	<ul style="list-style-type: none"> Continued involvement of all relevant stakeholders at the national and sub-national level Provide an assessment of carbon emissions (and removals) as historical reference level and expectations/forecasting future development Develop a national implementation plan and related policies to encourage REDD actions by relevant stakeholders Implement and evaluate REDD implementation activities, and report performance for interim indicators 	<ul style="list-style-type: none"> Implement an international review of the MRV system Prepare regular interactions and reporting on REDD implementation activities and on the IPCC LULUCF inventory Verification and compliance assessment comparing performance against the reference level
Capacity and institutional gap filling	<ul style="list-style-type: none"> Complete an comprehensive assessment of existing data and capacities considering international and national MRV requirements Set up a national MRV coordination mechanism to steer the capacity 	<ul style="list-style-type: none"> Build sustained capacities to conduct regular and consistent forest and forest area change monitoring using remote sensing and GIS Establish capacities and implement a systematic national forest carbon measurement and 	<ul style="list-style-type: none"> Continuous training and improvement for institutions and activities providing data and analysis for the REDD MRV system, Build a national spatial data

	<p>development and assign roles and responsibilities</p> <ul style="list-style-type: none"> • Develop capacities to monitor given a set of interim performance indicators • Engage in general capacity building on REDD, IPCC-LULUCF, terrestrial carbon dynamics and key standard methods • Interaction with local actors and key implementation bodies on their role for MRV 	<p>monitoring system, i.e. through permanent sample plots.</p> <ul style="list-style-type: none"> • Scope and evaluate a sub-national, activity-based measurement program, to monitor key REDD implementation actions • Training and implementation of reporting (IPCC LULUCF) including an institutional framework • Develop and implement an uncertainty assessment and a long-term improvement plan for the MRV system • Scope the involvement of national/regional higher-education institutions 	<p>infrastructure for IPCC LULUCF reporting and REDD implementation</p> <ul style="list-style-type: none"> • Develop additional monitoring capacities (if needed, to go for Tier 3) • Build a system for verifying REDD actions on the national level using MRV data and other information, link MRV of transactions • Develop and implement an uncertainty assessment and a long-term improvement plan for the MRV system • Implement capacities in higher-education institutions on REDD MRV for university curricula
Methodological gap filling	<ul style="list-style-type: none"> • Interaction and partnership with national and international research organizations on key issues • Exploration of methods and approaches for establishing reference levels • Evaluate concepts for linking MRV, REDD policy and implementations • Explore potential co-benefits and synergies of the carbon measurements with other monitoring needs 	<ul style="list-style-type: none"> • Interaction and partnership with national and international research organizations on key issues • Develop frameworks for interlinked implementing REDD policies and MRV and linking MRV of actions and MRV of transactions • Exploration of evolving technologies for REDD MRV • Assess the requirements of monitoring carbon variables and relevant information for other ecosystem services 	<ul style="list-style-type: none"> • Foster activities to reduce uncertainties and increase efficiency of MRV system • Implement evolving technologies into regular REDD MRV activities • Finalize exploration of REDD MRV and implementation including broader ecosystem services and environmental accounting procedures and make recommendations.



Activity completed



Activity to be completed



GSF Activity