



# The 'Monitoring' function of NFMS for REDD+: Going beyond MRV

# Bangkok

15<sup>th</sup> October 2013

# UN-REDD Functions of a NFMS (1)





# UN-REDD In contrast with MRV...



- Is crucial to establishing what particular activities (policies/measures) are effective at addressing drivers of Deforestation and Degradation
- Draws on a wide range of potential elements:
  - Satellite Land Monitoring System
  - Forest inventory for community forests and commercial forest management units
  - Management activity records
  - Records of use/sale of forest products and services
  - Social, economic and biodiversity assessments





 Information generation often falls to forest rights-holders and managers, including Indigenous Peoples and Local Communities, where applicable



### UN-REDD On forests and REDD+ activities

- National Forest Inventory plot data
  - generally fully or partially restricted. All NFI data should be made available for REDD+
- Land classification
  - maps showing land use, as interpreted from SLMS and ground truthing, must be readily accessible
- Forest management plans and activities,
  - including those under national REDD+ programme, voluntary projects
- Open channels for feedback and correction
- Information technology
  - makes transparency cheaper and easier (and makes restriction of

information harder)

### UN-REDD OF Congo (DRC Info system)





### UN-REDD Of Congo (DRC Info system)





### UN-REDD OF Congo (DRC Info system)





### UN-REDD OF Congo (DRC Info system)









- Voluntary REDD+ projects, REDD+ demonstration activities and, later on, implementation of REDD+ activities under phase 3,
  - all based on plans available on the open-access database
- This does not guarantee that these plans are followed
- Potential causes for failure to implement:
  - poor enforcement, insufficient resources, poorly designed plan, lack of consultation etc
- Continuous monitoring of implementation
  - allows identification of problems, and delivery of solutions
- Maintenance of physical records,

audits, site visits, SLMS

#### Forest Monitoring for REDD+: Deter (2004) OGRAMME





S05:18:00 O54:06:00

#### Forest Monitoring for REDD+: Deter (2004) OGRAMME





S05:18:00 O54:06:00

# Forest Monitoring for REDD+: Deter (2004)



# Forest Monitoring for REDD+: Deter (2004)

Brazilian Institute of Environment and Renewable Natural Resources (IBAMA) Field Control Document





# N-REDD <u>^ '3'. Monitoring the impact</u>



# of REDD+ activities on biomass

- NFI under the MRV function does not necessarily include plots covering all specific strategies for implementing **REDD+** activities
- SMF activities, for example, could include sustainable fuelwood/timber extraction in community-managed forest and in state-managed forest.
- Which strategy is more effective for REDD+, in terms of emission reductions?
- Which strategy is more cost effective for forest officials and managers (including IP/LCs) to invest in?
- Regular forest inventory by FMU; SLMS

#### Churia Forest Development UN-REDD PROGRAMME Project, Nepal





# UN-REDD4. Monitoring the impact of REDD+ () Indicators ()

- REDD+ activities will only be viable and sustainable in the long term if they have a neutral or net positive impact on local livelihoods
- Collection of data on such impacts, though not obligatory, is crucial to assessment of demonstration activities and to design of effective REDD+ strategies
- Records of use/sale of forest products and services, socioeconomic surveys
- Data may also be of use for Safeguard Information Systems



#### UN-REDD Costs, Benefits and Impacts PROGRAMME of Community Forestry in Cameroon



#### Sum cost -benefit scenarios : With CF and Without CF



# PROGRAMME

# Methods for

# Cameroon CB study



- random household questionnaires (25% village population), semistructured interviews stakeholders & beneficiaries, market surveys, observation
- Financial, economic and environmental cost and benefit analysis
- 2 scenarios extrapolated to 25 year CF period:
  - Scenario 1 = Current exploitation activities
  - Scenario 2 = "Without community forest' situation
- Distinction between financial and economic costs and benefits:
  - Financial: market priced costs and revenues from activities
  - Economic: Includes non-marketed incomes (incl. household consumption) & opportunity costs of activities: Biodiversity value, Carbon Release/Storage, Soil fertility Loss, Ground Water protection

« Costs, Benefits and Impacts of Community Forestry in Cameroon »,
V. Ingram, E. Beauchamp, G. Lescuyer, M. Parren, C. Njomgang, A. Awono, CIFOR, 2010

## UN-REDD Monitoring impact of REDD+



# activities on biodiversity indicators

- When biodiversity conservation is a stated objective of forest policy
- Expensive, intensive work
- Incorporate BD indicators into NFI, or conduct FMU/CF-specific monitoring
- Participatory monitoring including:
  - CF/FMU inventory
  - Indicator species surveys e.g. Timed Species Counts of birds
  - Sale/use records of products
  - Participatory mapping





# UN-REDD<br/>PROGRAMMETimed Species Counts of<br/>18 forest birds in NepalImage: Counts of<br/>Image: Counts of<br/>Image:

**Observations of indicator bird species in ChFDP area: June-Dec '05** 





# Summary



- National circumstances
- Not prescriptive
- Acquire information for designing, and improving, effective REDD+ strategies
- SLMS and community-based monitoring
- Generate information of relevance to SIS







#### **Ben Vickers**

#### ben.vickers@fao.org

### Thank You

Website: http://www.un-redd.org