

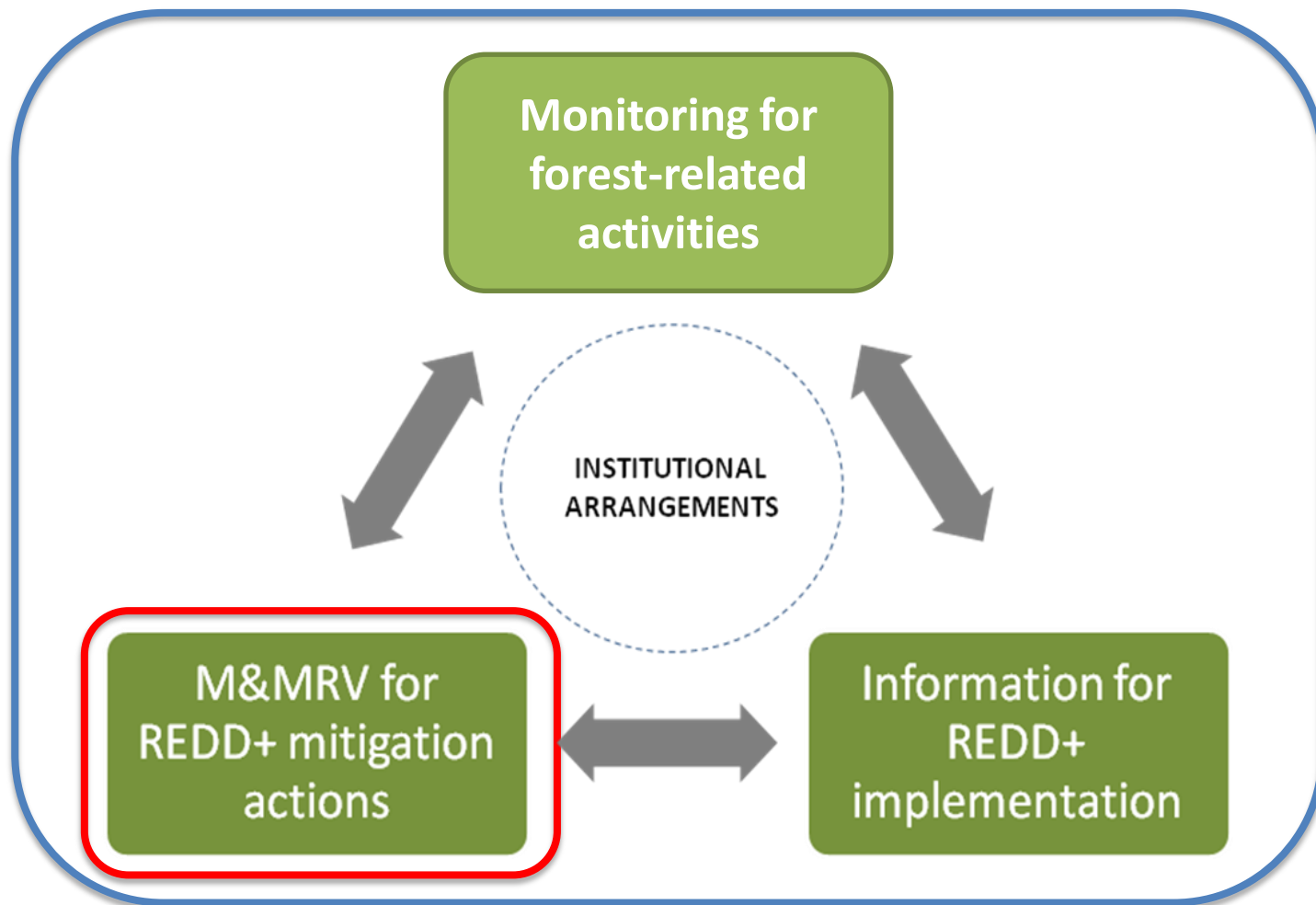
The Monitoring and Measurement, Reporting and Verification (M & MRV) Functions for REDD+ Mitigation Actions

UN-REDD
PROGRAMME

The United Nations Collaborative Programme
on Reducing Emissions from Deforestation
and Forest Degradation in Developing Countries



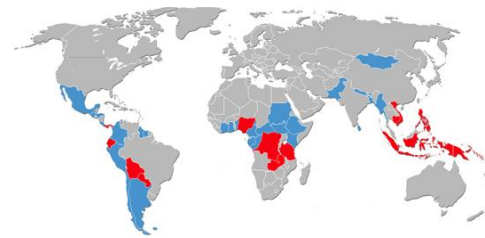
Information and Monitoring



A working paper that will include all three components will be submitted for PB9

Monitoring and MRV for REDD+

The Monitoring and Measurement, Reporting and Verification (M & MRV) Functions for REDD+ Mitigation Actions



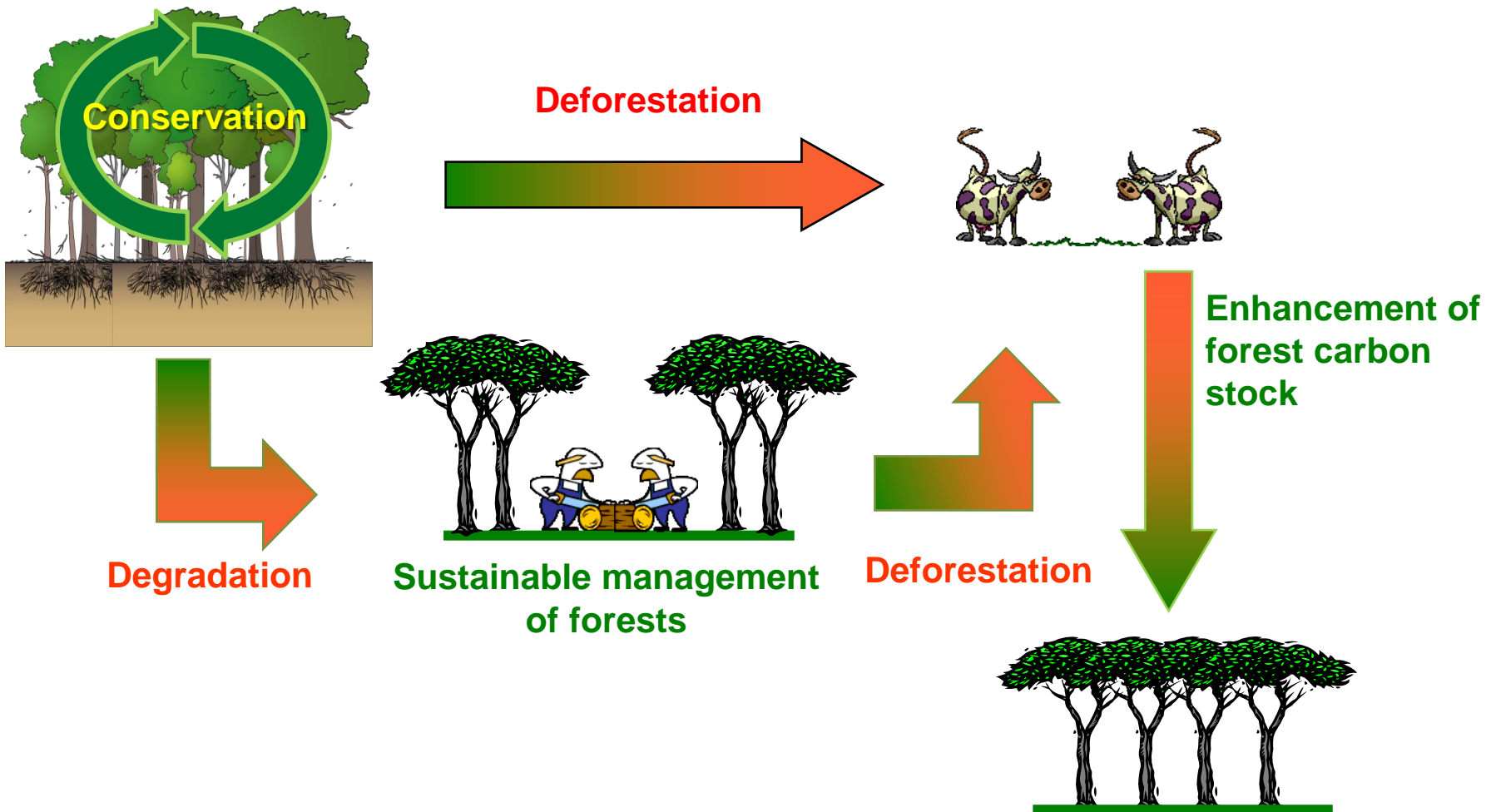
UN-REDD
PROGRAMME



Empowered lives.
Resilient nations.

M&MRV for REDD-plus

REDD+ mitigation activities as defined by Dec. 1/CP.16



MRV under UNFCCC

ARTICLE 4: COMMITMENTS

1. All Parties, taking into account their common but differentiated responsibilities and their specific national and regional development priorities, objectives and circumstances, shall:

(a) Develop, periodically update, publish and make available to the Conference of the Parties, in accordance with Article 12, **national inventories of anthropogenic emissions by sources and removals by sinks** of all greenhouse gases not controlled by the Montreal Protocol, **using comparable methodologies** to be agreed upon by the Conference of the Parties;

MRV therefore specifically addresses the need to compile and submit a National Inventory Report that includes a national GHG inventory (GHG-I) to assess the overall performance of a country in terms of mitigating climate change.

Monitoring under UNFCCC

ARTICLE 4: COMMITMENTS

2, b) *“In order to promote progress to this end, each of these Parties shall communicate, and periodically thereafter, and in accordance with Article 12, detailed information on its policies and measures referred to in subparagraph (a) above, as well as on its resulting projected anthropogenic emissions by sources and removals by sinks of greenhouse gases [...]. This information will be reviewed by the Conference of the Parties, at its first session and periodically thereafter, in accordance with Article 7;”*

The concept of “monitoring” under the Convention refers to the need for periodic information on the results obtained through national policies and measures, as per Article 4.2, paragraphs a) and b) of the Convention, which Parties adopt to mitigate and adapt to climate change.

REDD-plus: Decision 4/CP.15

Decision 4/CP.15: Methodological guidance for REDD-plus

Par. 1 *Requests* developing country Parties, to take the following guidance into account to **measurement and reporting**:

c) To use the most recent Intergovernmental Panel on Climate Change guidance and guidelines, **as adopted or encouraged** by the Conference of the Parties,

REDD-plus: Decision 1/CP.16

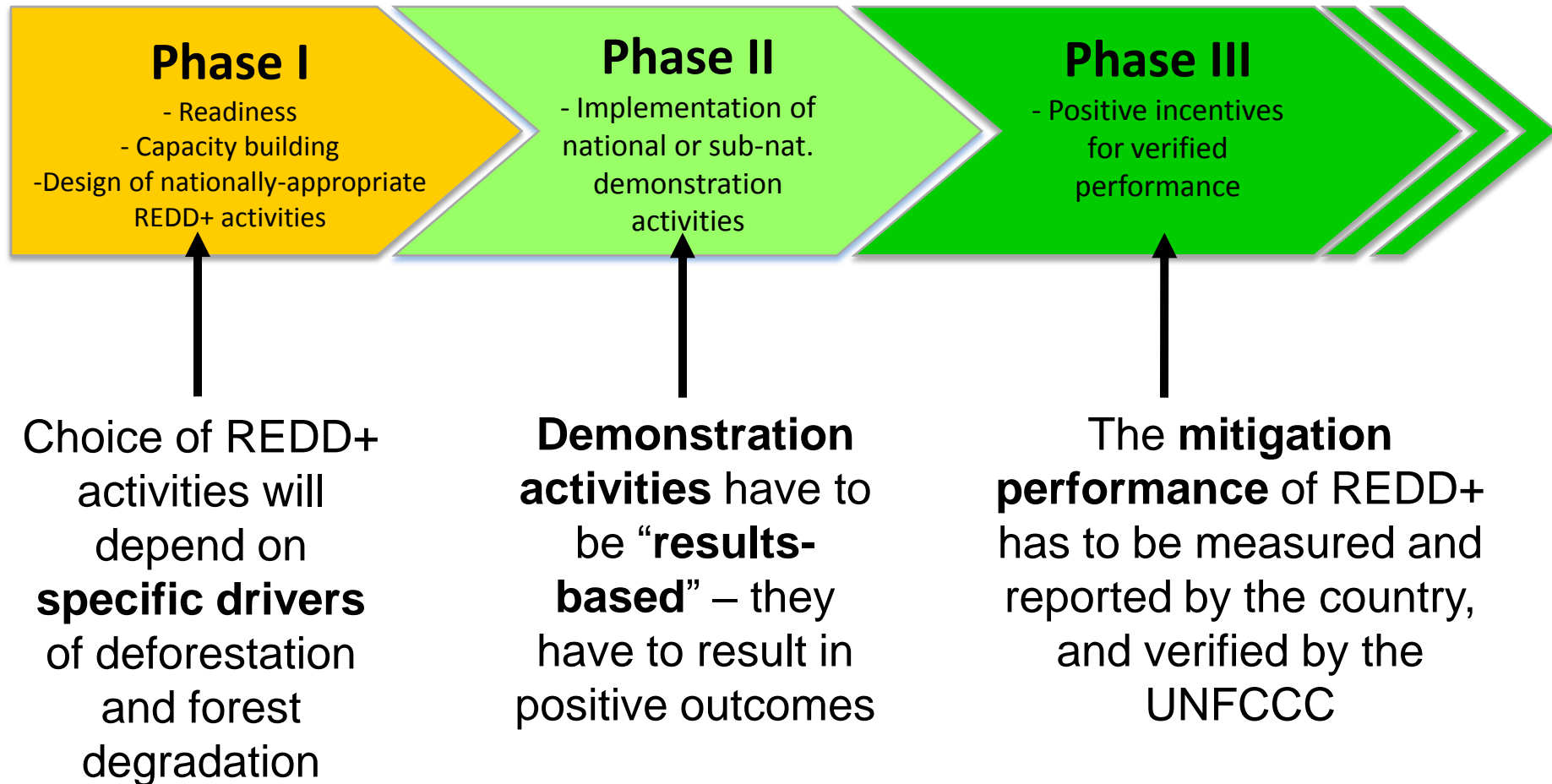
73. **Decides** that the activities undertaken by Parties referred to in paragraph 70 above should be implemented in phases beginning with the **development of national strategies or action plans, policies and measures, and capacity-building,**

followed by the **implementation of national policies and measures** and national strategies or action plans that could involve further capacity-building, technology development and transfer and **results-based demonstration activities,**

and evolving into results-based actions that should be fully **measured, reported and verified;**

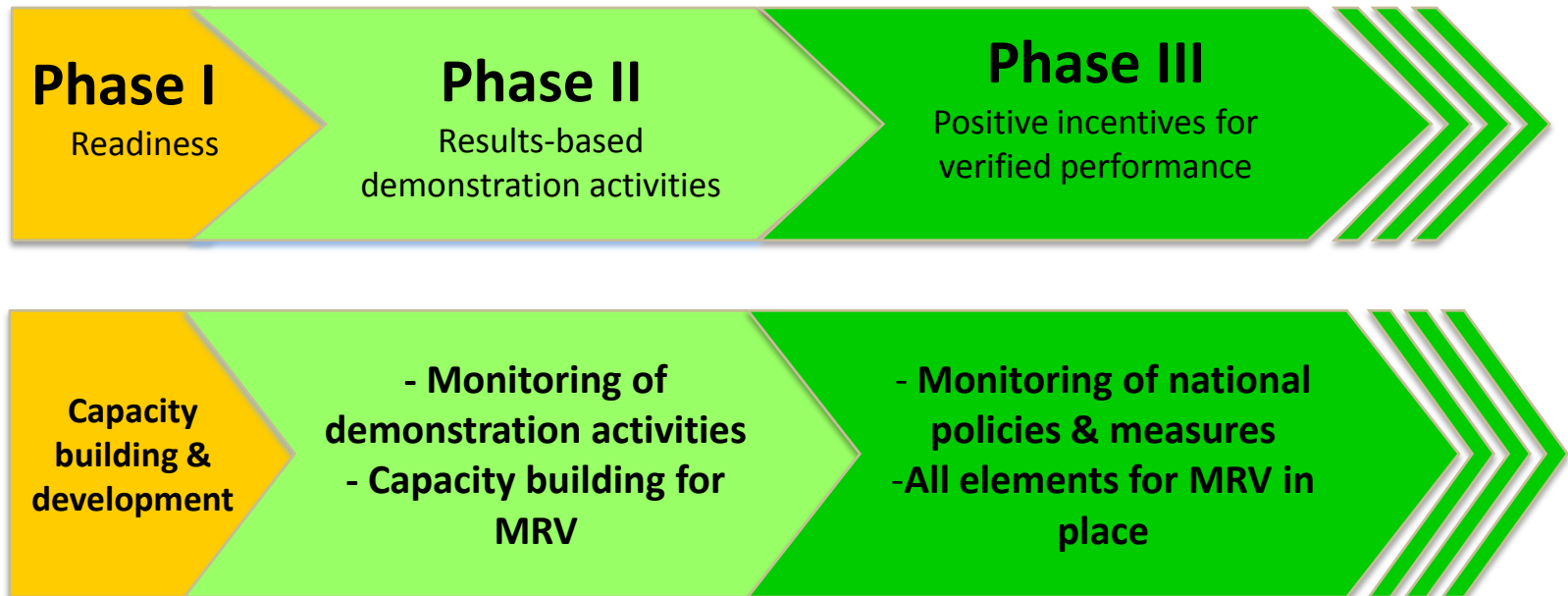
The REDD-plus Phases

REDD+ PHASES



REDD-plus and M&MRV

REDD+ PHASES



Monitoring result-based demonstration activity



Distribution per Operational Levels* - BNDES

Level	Amount of the Support/Requested (In US\$ thousand)	Total Value of the Projects (In US\$ thousand)	Number of Projects
1 - Contracted	119,751	226,966	13
2 - Approved	5,854	5,855	3
3 - Under Analysis	41,974	50,664	13
4 - Eligible	25,818	29,638	13
5 - Consultation Letter	42,676	54,445	1
6 - In Perspective	196,985	217,864	23
Sum of the levels 1, 2, 3 & 4	193,397	313,122	42
Totals	433,058	585,432	66

Monitoring result-based demonstration activity

Ministério da Ciência e Tecnologia Destaque do governo

PRODES

Português
English
Español

Recompor Imagens Satélite Cartografia Mapas Temáticos Tamanho da Tela

Mosaico NASA LandSat 2000 (AMS)/Nenhuma N15:00:00 O30:00:00

10 km

S30:00:00 O90:00:00

OBT **DPI**

Consulta Cenas Individuais

Selecione Ano: 2000 a 2010

e/ou selecione Orbita/Ponto (*)

Estado/Região: TODOS

Município (opcional)

Consultar

(*) Segundo grade Landsat TM

Consulta Mosaicos Estaduais

Selecione Ano: 2000 a 2010

Estado/Região: Toda Amazonia Legal

Download

Desmatamento nos Municípios

Desmatamento nas Unidades de Conservação

Download dos dados (sem interface gráfica)

Acessórios

Ajuda...

Descrição das Classes

Classes Sisprodes x Spring

Home PRODES

Dúvidas, comentários e sugestões:
prodes@dpi.inpe.br

Monitoring result-based demonstration activity



The MRV elements for REDD-plus

MEASUREMENT

ACTIVITY DATA

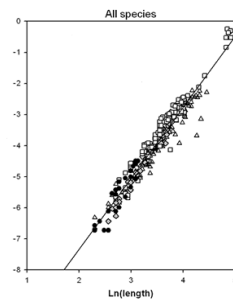
Satellite land monitoring system



x

EMISSION FACTOR

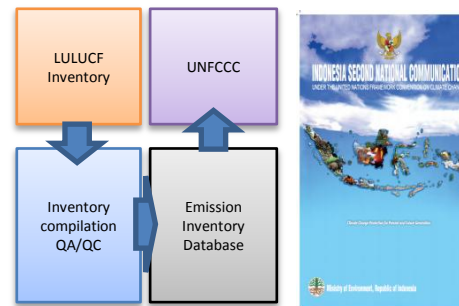
National Forest Inventory



REPORTING

=

REDD+ GHG Inventory



VERIFICATION



UNFCCC Secretariat
Roster of Experts



REDD-plus: Decision 4/CP.15

Decision 4/CP.15: Methodological guidance for REDD-plus

Recognizing the need for full and effective engagement of indigenous peoples and local communities in, and the potential contribution of their knowledge to, monitoring and reporting of activities relating to decision 1/CP.13, paragraph 1 (b) (iii)

Par. 3) *Encourages*, as appropriate, the development of guidance for **effective engagement of indigenous peoples** and local communities in **monitoring and reporting**;

UN-REDD view on Participatory Monitoring

Participatory monitoring :

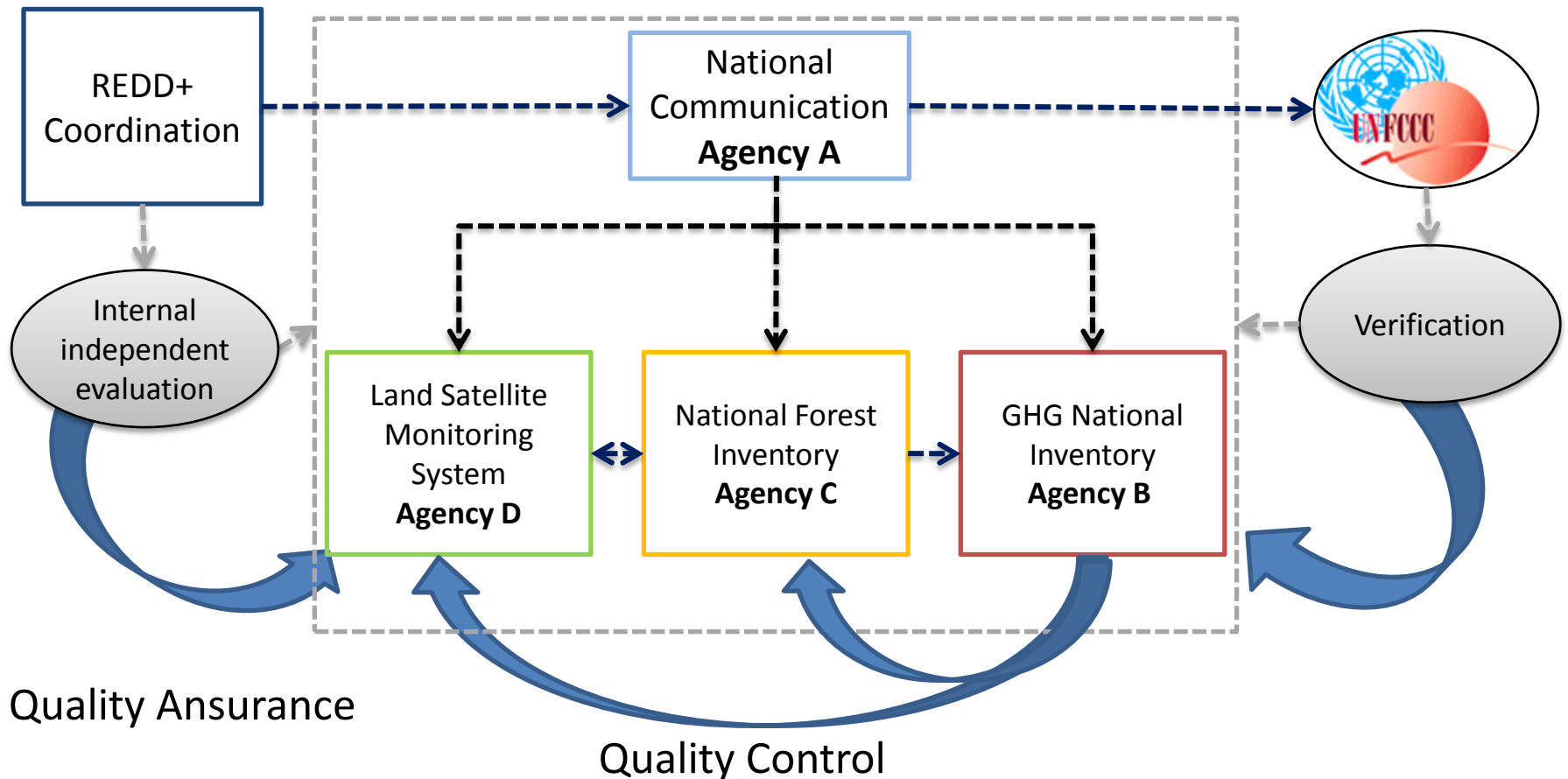
- Should be part of a comprehensive strategy to provide full and effective participation to indigenous peoples and local communities
- Leads to multiple benefits (e.g., local community empowerment, cost-effectiveness of data collection, decrease in risk of reversals)
- Can be a key feature of intra-national benefit distribution schemes
- Can serve as a means to validate data collected and reported as part of the National Forest Monitoring System

Participatory monitoring activities can include:

- Measurement of basic forest properties related to C stocks/removals (e.g., tree count, species, DBH)
- Information on how the safeguards are being addressed/respected

Institutional Arrangements

Potential scheme for National Forest Monitoring Systems





**T
h
a
n
k

y
o
u**