MRV System Suriname
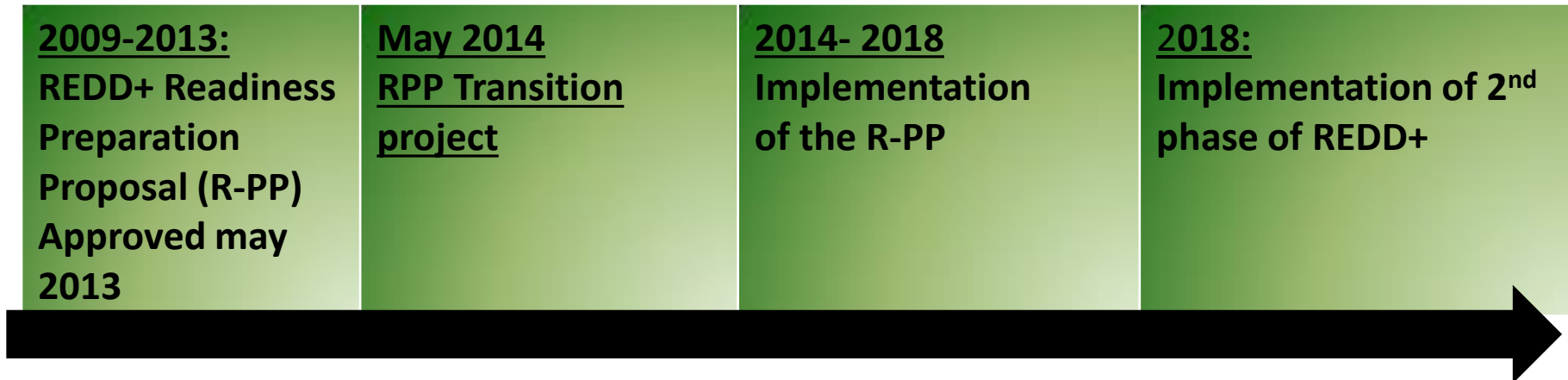
Priscilla Miranda – Panamá,
September 3, 2014

RPP Trajectory

2009-2013: REDD+ Readiness Preparation Proposal (R-PP) Approved may 2013	May 2014 RPP Transition project	2014- 2018 Implementation of the R-PP	2018: Implementation of 2nd phase of REDD+

- REDD+ readiness preparation proposal (R-PP): *Suriname will establish a* **National Forest Monitoring System that includes an MRV function** *(measurement, reporting and verification) in line with international REDD+ requirements, as well as monitoring functions for multiple purposes.*

- RPP-PRODOC: *"**The national forest and carbon monitoring system is set up in a participatory and rights-based manner" (3c).** Responsible institution: SBB*

MRV workshops 2012

Components of the MRV system:

REMOTE SENSING
Forest Cover
Monitoring Unit

x

FIELD DATA
Logging control
activities
National Forest
Inventory

=

National GHG
inventory and
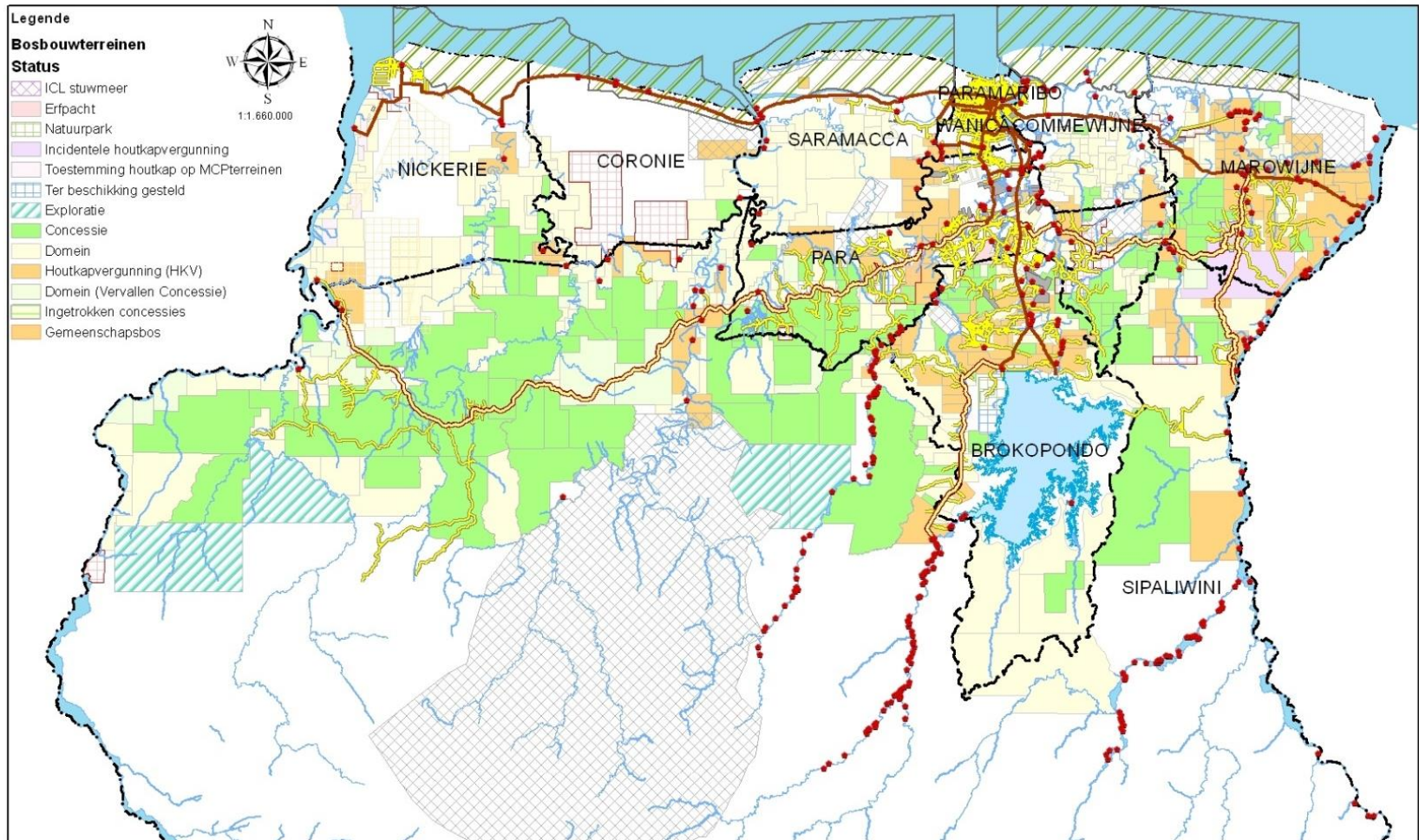REDD+
reporting,FNC,
SCN, FAO,ITTO,
MDG
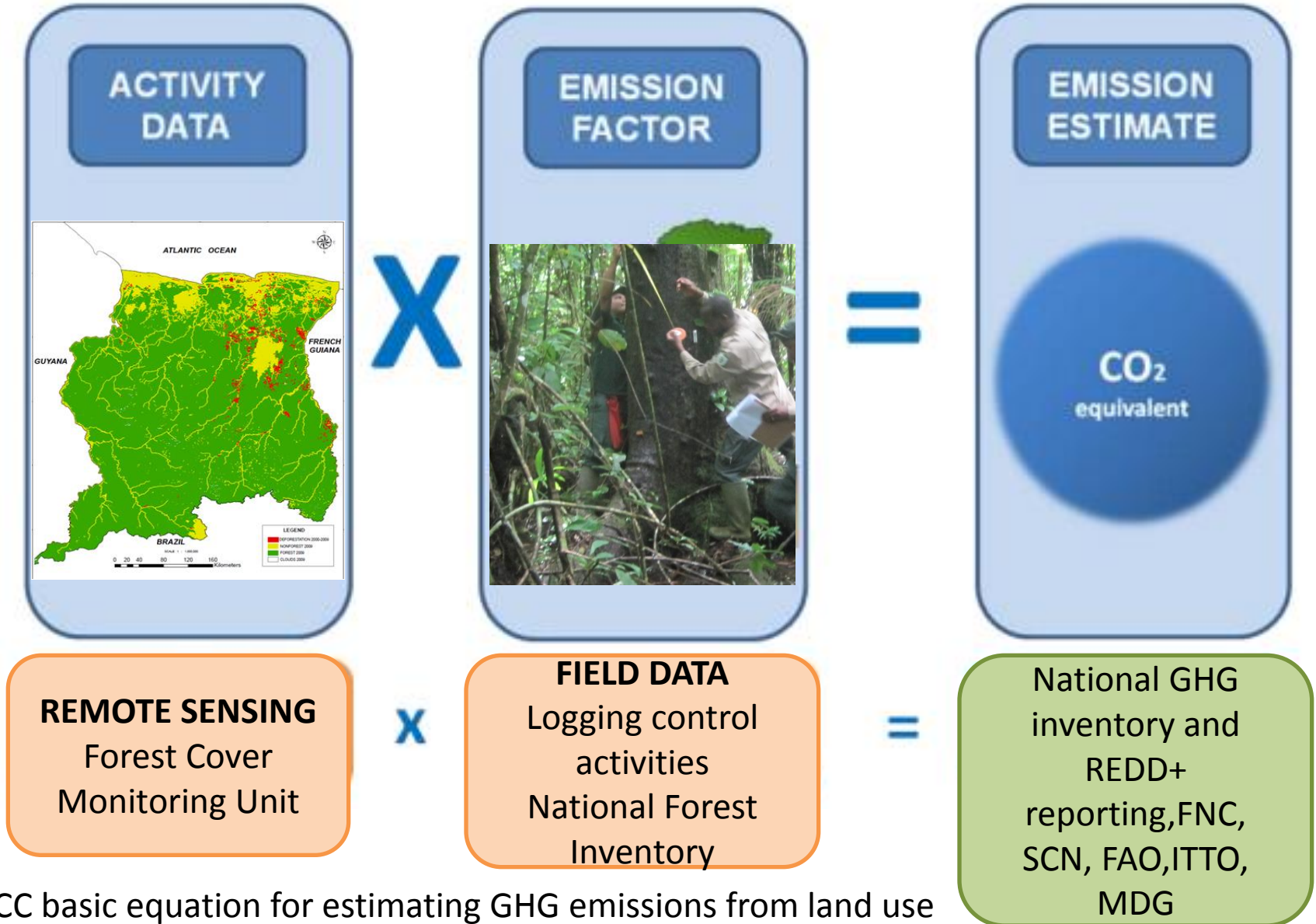
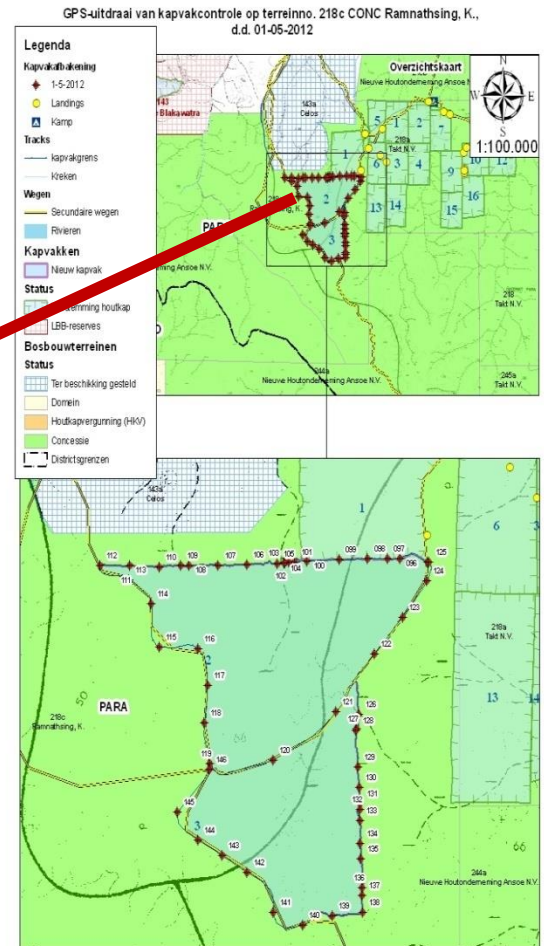IPCC basic equation for estimating GHG emissions from land use related activities: **Emissions = AD x EF**

MRV related activities
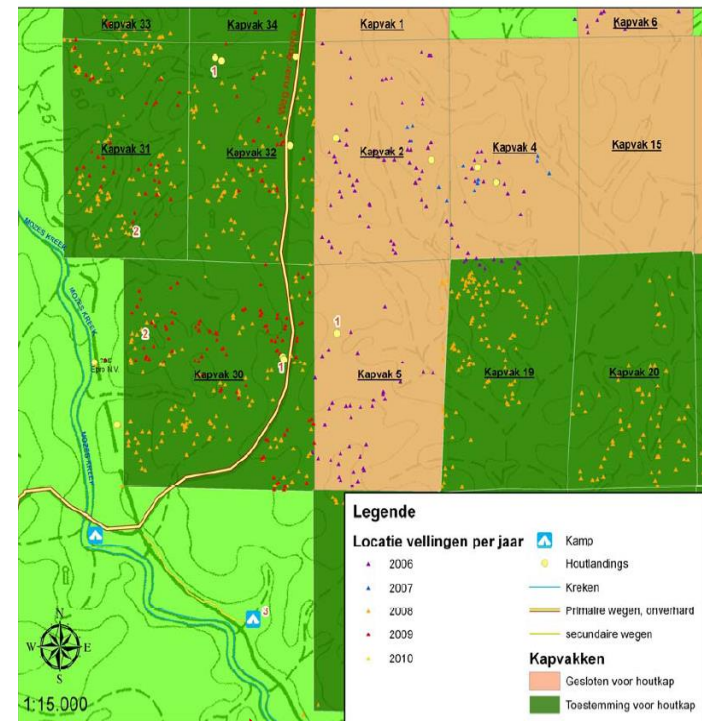## Sustainable Forest Management 1998

Timber cutting license
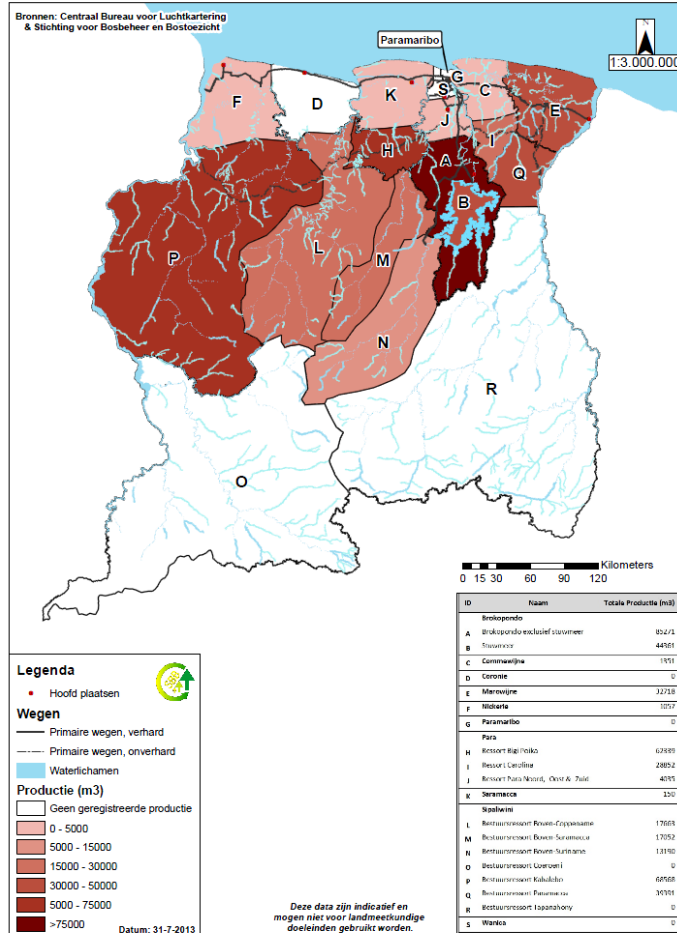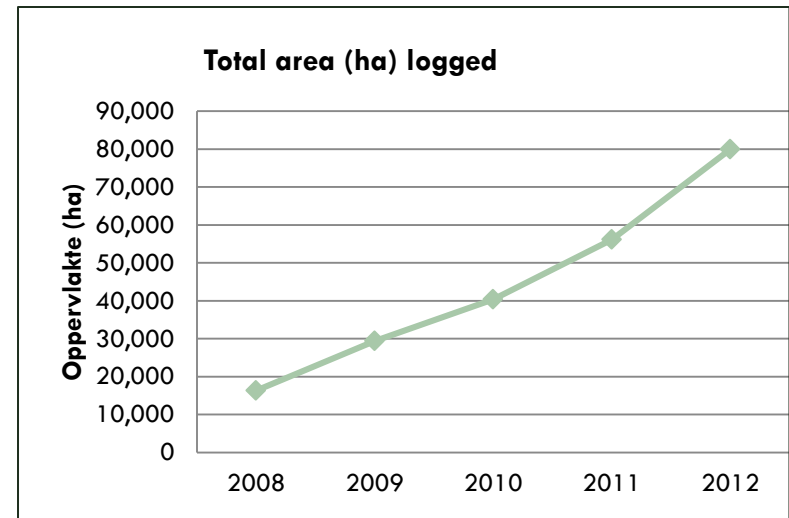
Monitoring logging activities GIS/GPS

GPS-uitdraai van kapvakcontrole op terreinno. 218c CONC Ramnathsing, K., d.d. 01-05-2012

Monitoring logging activties

Production statistics

Type of Cutting Compartment	Amount	Area (ha)
Extensive mananegement	346	62453
Intensive management	220	22571
Totall	683	85024
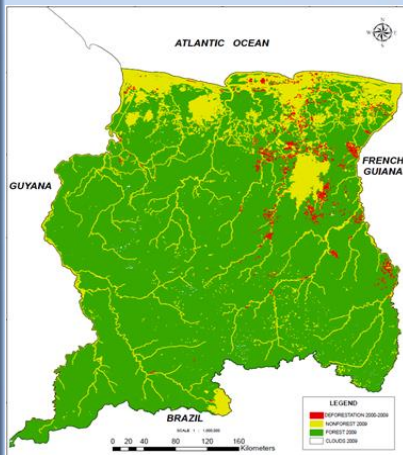
ACTIVITY DATA × EMISSION FACTOR = EMISSION ESTIMATE

CO₂ equivalent

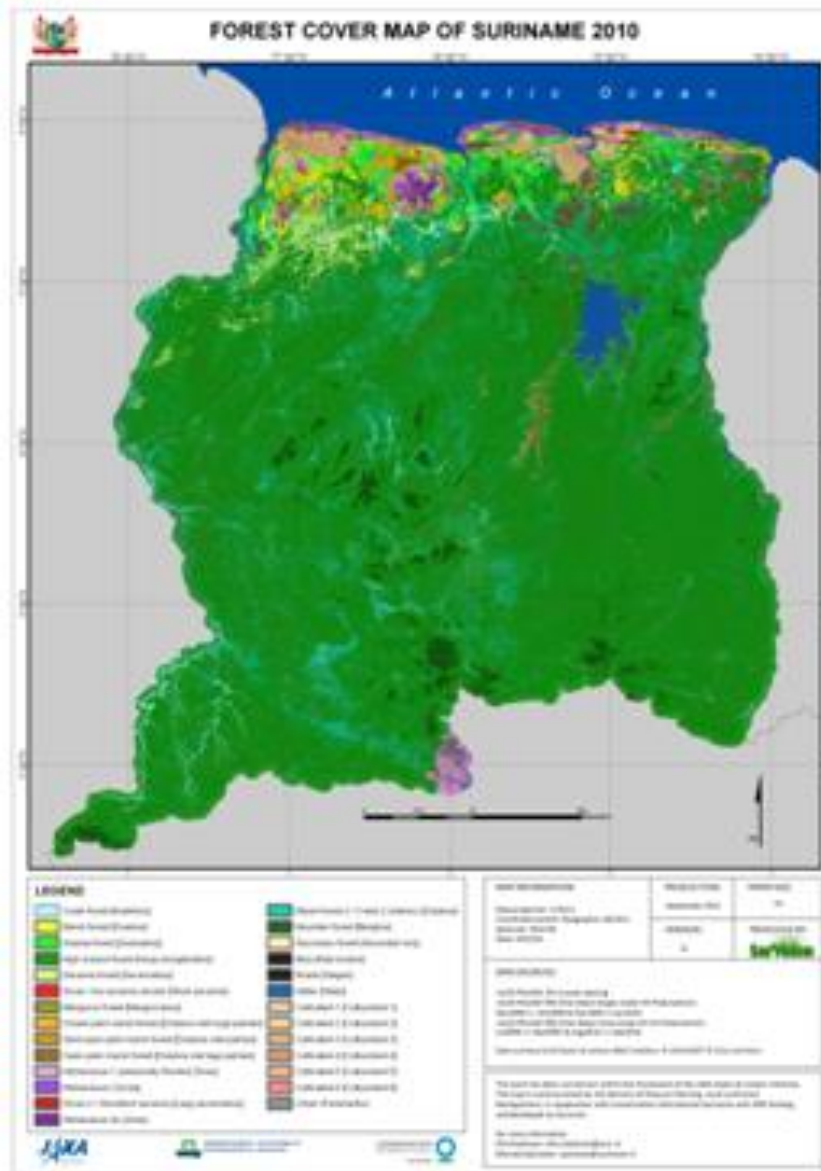**REMOTE SENSING** Forest Cover Monitoring Unit

FIELD DATA (logging)Control activities

National Forest Inventory

National GHG inventory and REDD+ reporting,FNC, SCN, FRA,ITTO, MDG

Forest Cover Map 2010

- Min RGB, CI/KfW and local institutions

- Capacity Building

- Basis to update the Map of 1998

- Basis for Spatial planning training

Forest cover Monitoring Unit to provide up to date information about forest cover changes using modern technology

Technical focal point:
Ministry of Physical Planning, Land and Forest Management
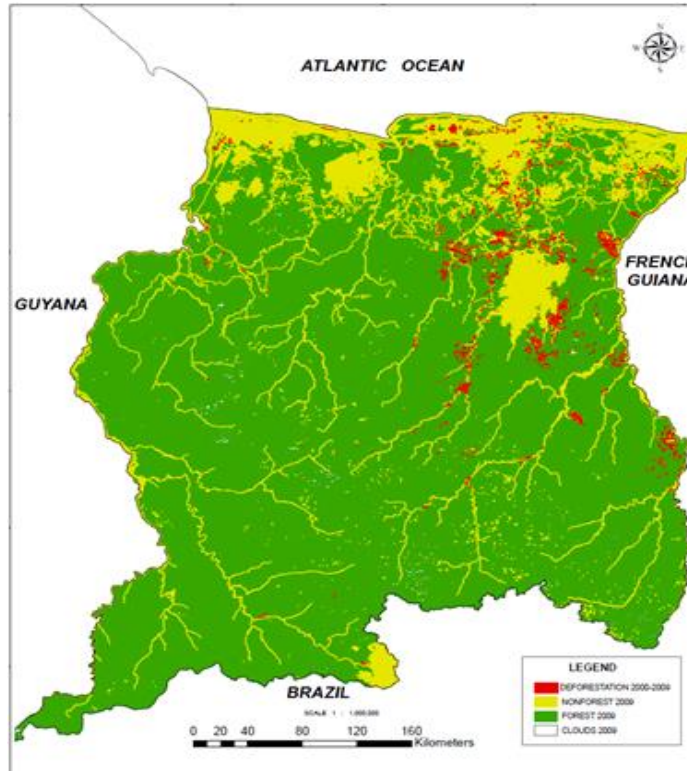
Implementing Agency: SBB
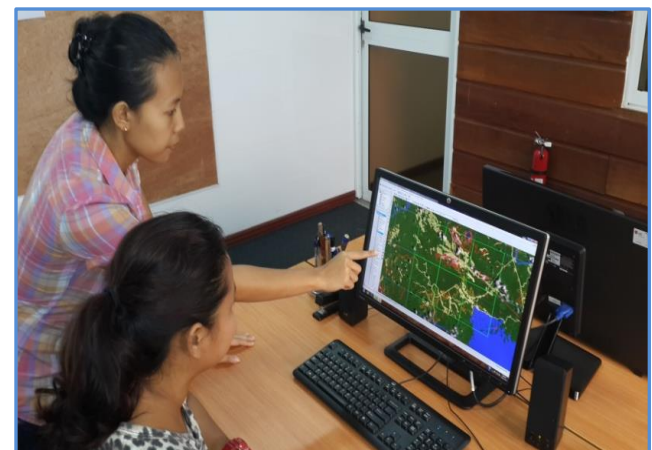
Done so far in terms of collecting activity data

Prelimenary results:
Appr: 0,02% deforestation/yr
Forest cover: 94%
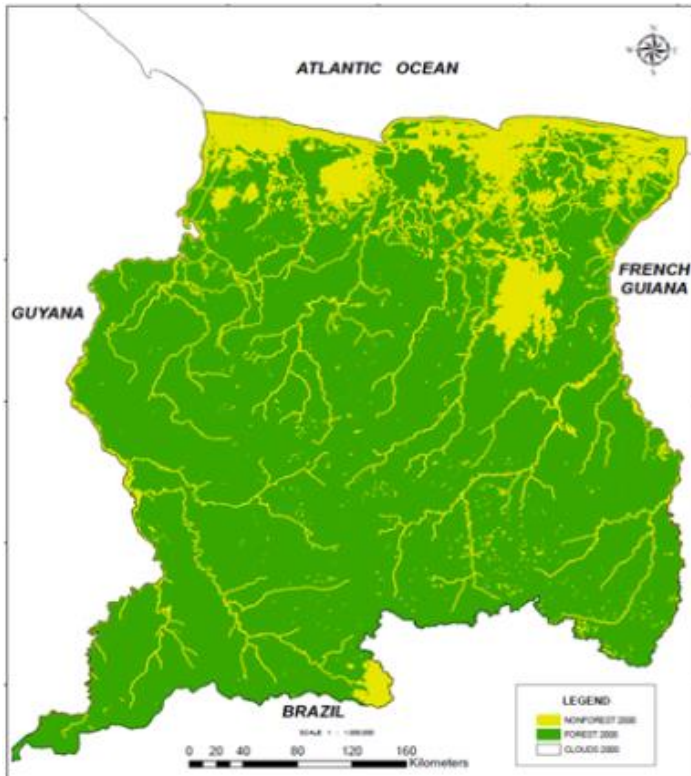
Forest cover
Base map 2000

Deforestation Map
2000-2009

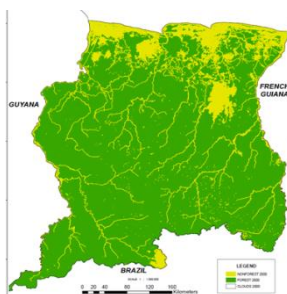**Future plans:**
Forest cover mapping and change monitoring

Classification system

Agree on national definitions of forest, non-forest and different layers of sub-classes
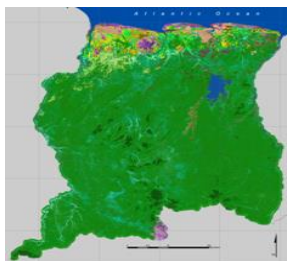
Benchmark map forest / non-forest

Accuracy assessment and improvement of base map 2000 in line with new definitions
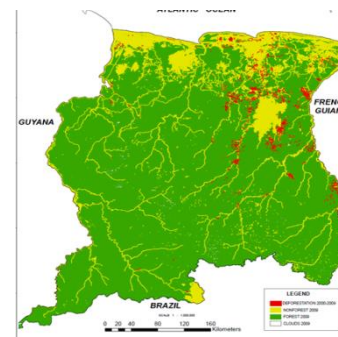

Land Use - Land Cover map

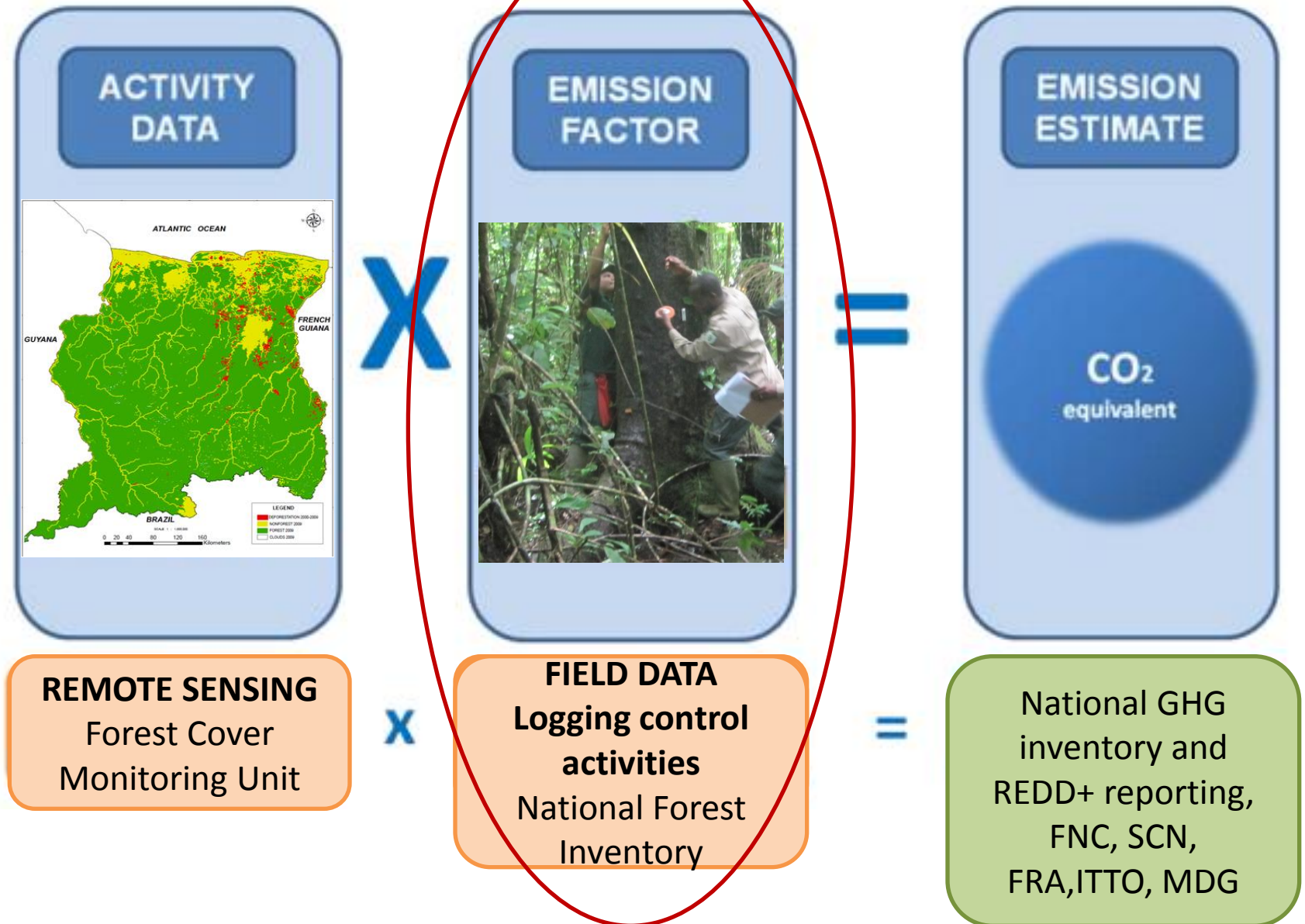Detailed map for 2013 of all the agreed classes

Periodic wall-to-wall monitoring of change:
Deforestation, Forest regeneration, Forest degradation

Develop a solid methodology and deliver the following mapping products:

- Deforestation maps every two years
- Regeneration maps less frequently
- Degradation maps starting from 2017

Components of the MRV system:

ACTIVITY DATA

EMISSION FACTOR

EMISSION ESTIMATE

X

=

CO₂ equivalent

REMOTE SENSING
Forest Cover
Monitoring Unit

x

FIELD DATA
Logging control activities
National Forest Inventory

=

National GHG inventory and REDD+ reporting, FNC, SCN, FRA,ITTO, MDG

Forest Carbon Assessment Project 2012
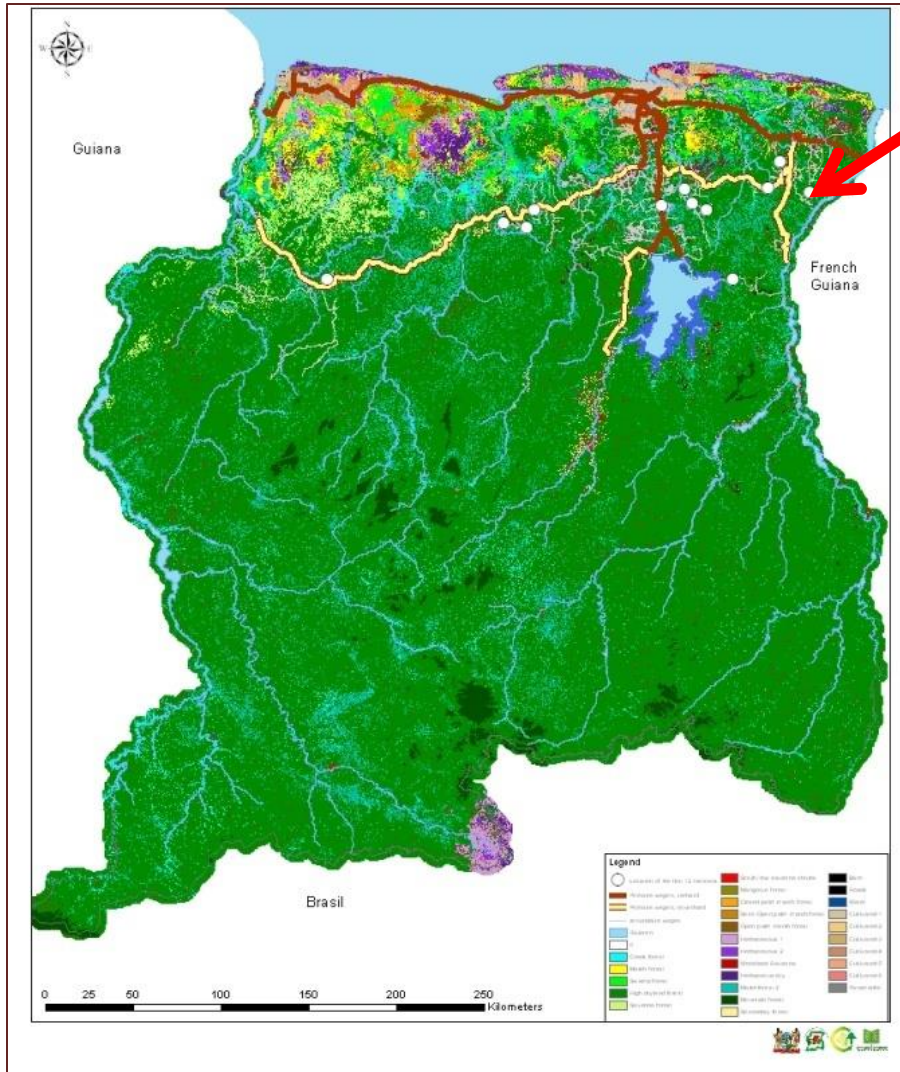
- 12 transects
- capacity building
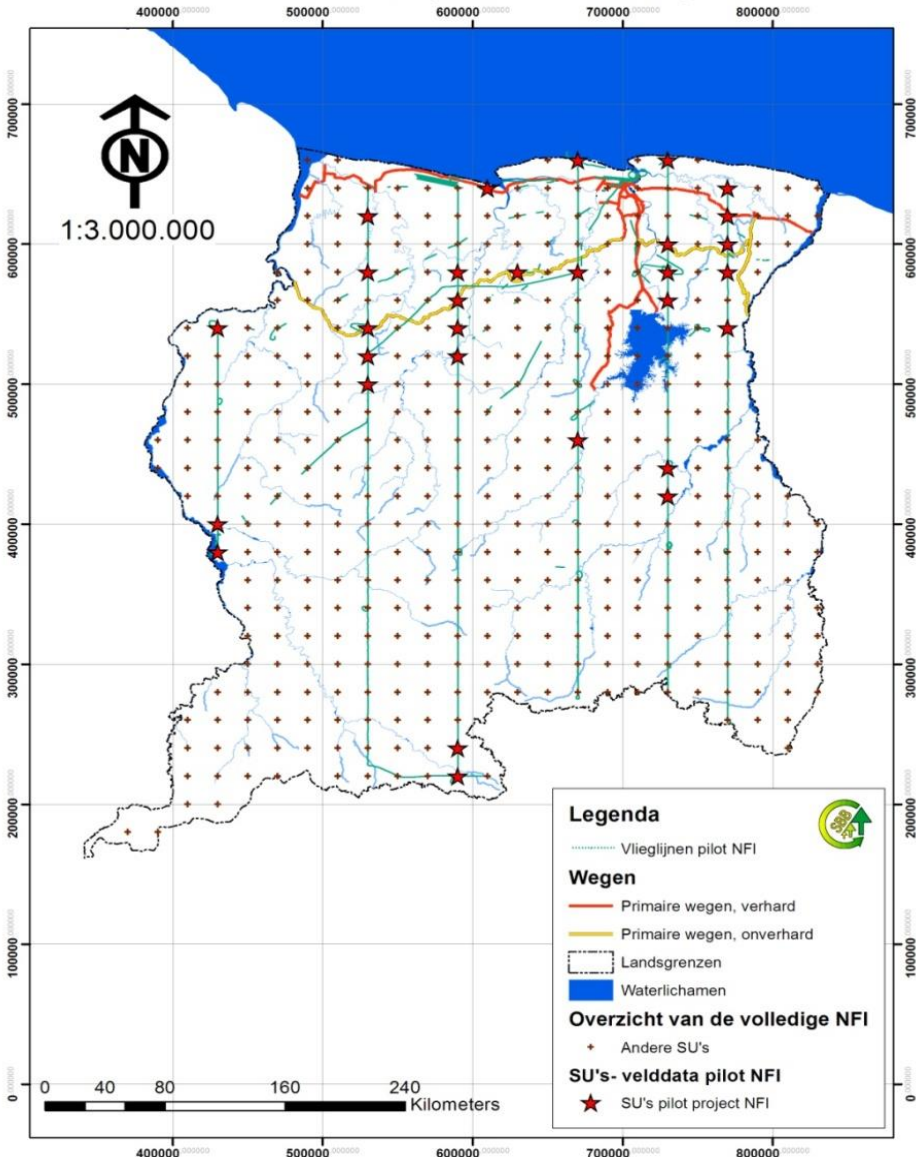- Methodology
- First hand/inhouse information
- Experience

Field data collection
Pilot project National Forest Inventory

Overzicht van de Sampling Units van het pilot project NFI

Legenda

- Vlieglijnen pilot NFI

Wegen
- Primaire wegen, verhard
- Primaire wegen, onverhard
- Landsgrenzen
- Waterlichamen

Overzicht van de volledige NFI
- Andere SU's

SU's- velddata pilot NFI
- SU's pilot project NFI

- 29 sample units
- Capacity Building
- New Methodology (Ortho Photos and ground truthing)
- Basis for Comprehensive multi
- purpose Forest Inventory

Next steps:
More field data collection through a multi-purpose National Forest Inventory
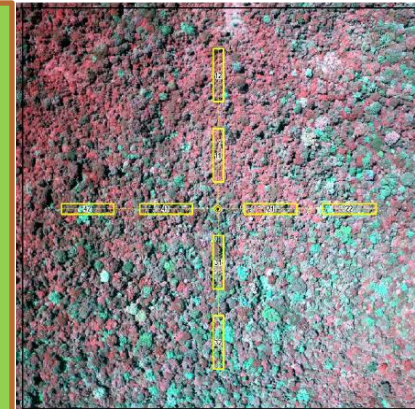
Continue Capacity building, research and consultations

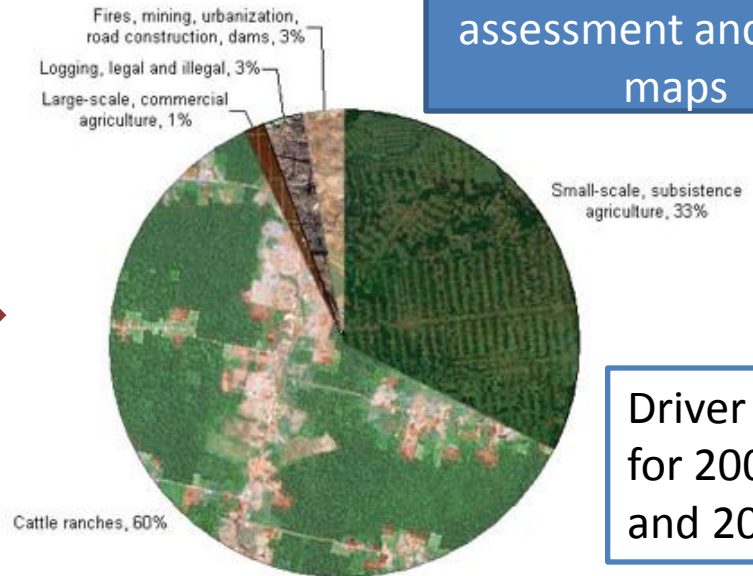# Tools for policy-making, land use planning and REDD+

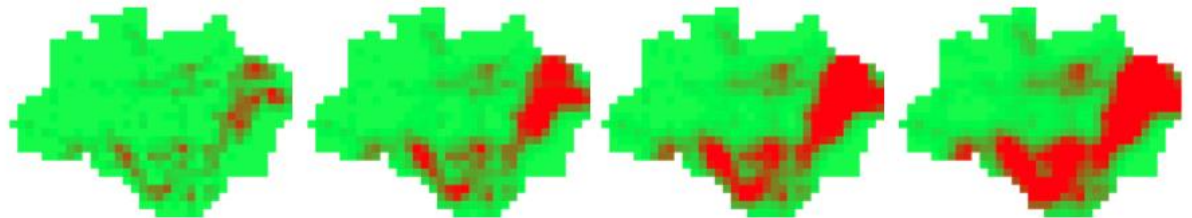## Qualitative assessment of national drivers of deforestation

Understanding the past – present – future causes of deforestation in Suriname

Quantitative assessment and driver maps

Fires, mining, urbanization, road construction, dams, 3%

Logging, legal and illegal, 3%

Large-scale, commercial agriculture, 1%

Small-scale, subsistence agriculture, 33%

Cattle ranches, 60%

Driver maps for 2000, 2009 and 2013

Methodology for monitoring drivers

and

Tool for modelling future deforestation

and

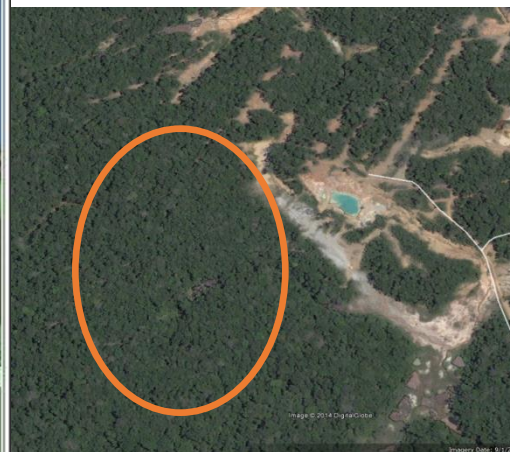## Suitability map for sustainable forest management

Tools for taking action against
Unplanned deforestation and forest degradation

Monitoring of forest fires

Community-based and participatory forest monitoring

Near real time monitoring using remote sensing

Deforestation alerts to enable rapid response

Agriculture – Hinterland (shifting cultivation)

❏ Individual fields

❏ Pattern and extend

Shifting cultivation