



Pilot Project National Forest Inventory Current Situation

06-12-2012, Paramaribo



Some goals of a NFI

- Informing national policy on conservation and sustainable management of forests;
- Supporting land-use planning policies (rural development; agriculture; conservation etc.);
- Assisting in strategic planning of the forest sector (timber, non-wood products etc.);
- Basis for monitoring and reporting including international policy processes (UNFCCC; CBD) and/or REDD⁺/carbon markets.

Timeline

2009:

COP15

2010:

- Technical meetings;
- Austrian fact finding mission to Suriname.

2012:

- Introduction pilot NFI;
- MOU signing;
- Test flights aerial images;
- Workshop NFI;
- Flights aerial images pilot NFI;
- Aerial image interpretation in Austria;
- Preparations pilot NFI.

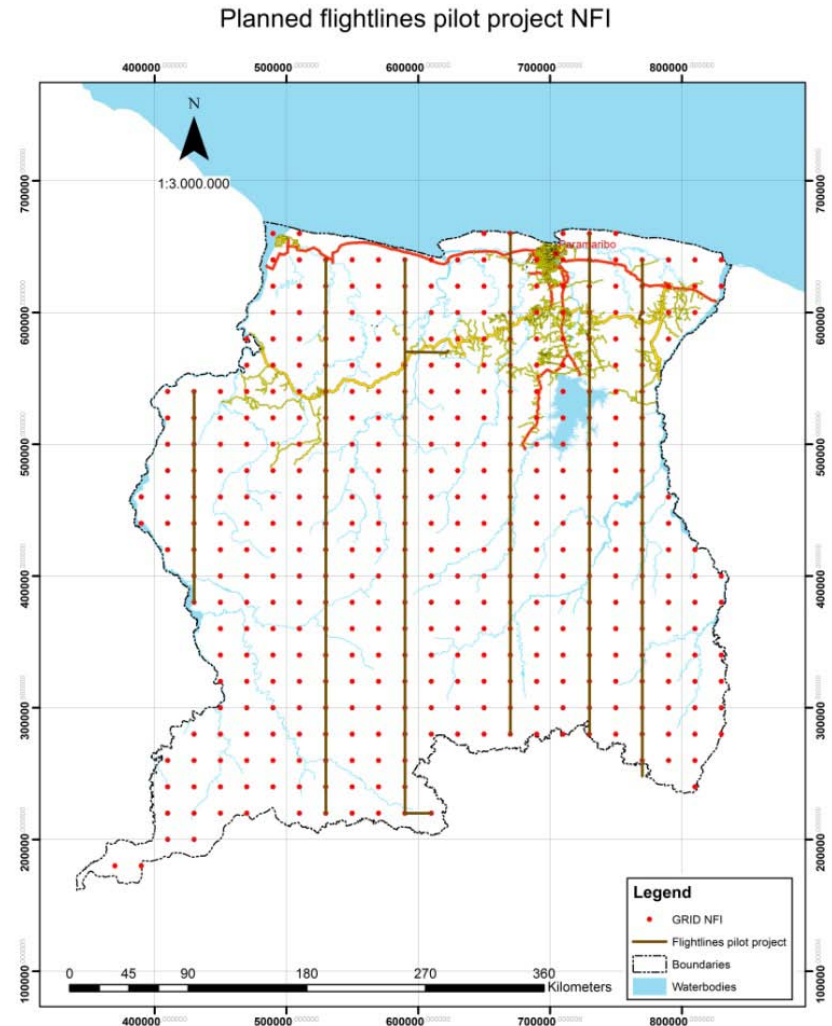
2013:

- Training field teams;
- Field data collection 30 SU's;
- Data processing, analysis, reporting and evaluation pilot project;
- Formulation follow up.



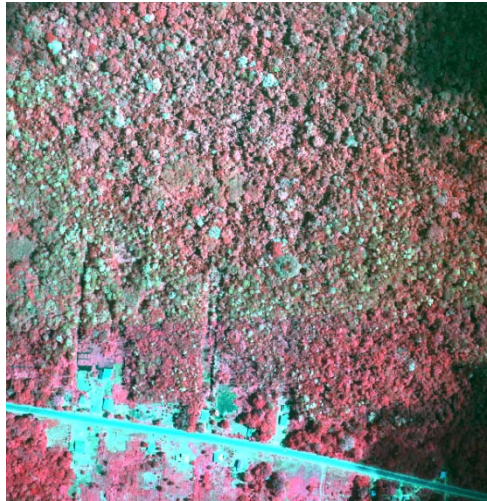
Planned flight lines pilot NFI

- Grid of 20x20km;
- Each grid point is a SU;
- Pilot NFI: - 6 flight lines (North-South; aerial images ADAM^c)
- field data collection of 30 SU's.

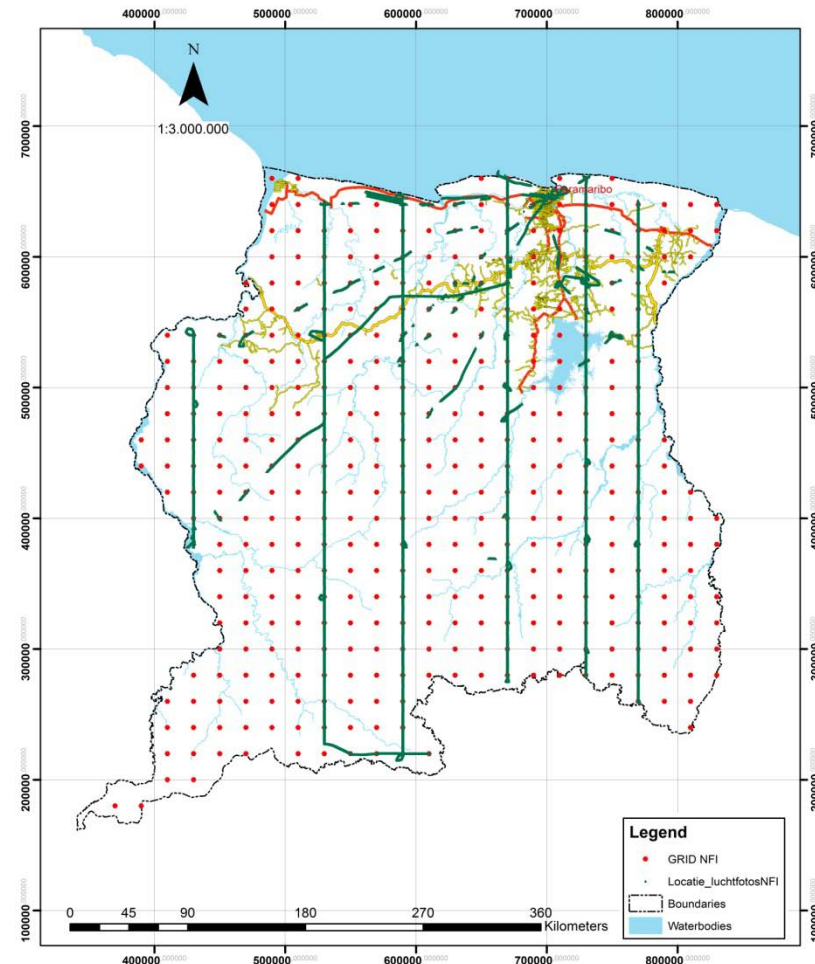


Aerial images pilot NFI

- Period: September 2012;
- Amount: - 6 flight lines (North-South);
 - some extra flight lines (e.g. carbon plots)
 - ± 6 TB data
 - (20. 000 orthophotos, 4 bands: RGB, NIR).



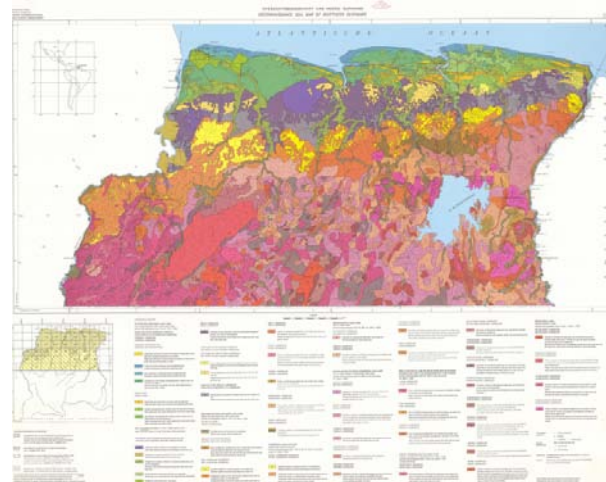
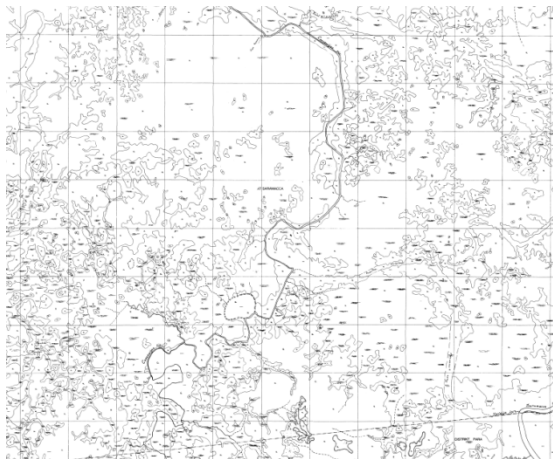
Location aerial images pilot project NFI



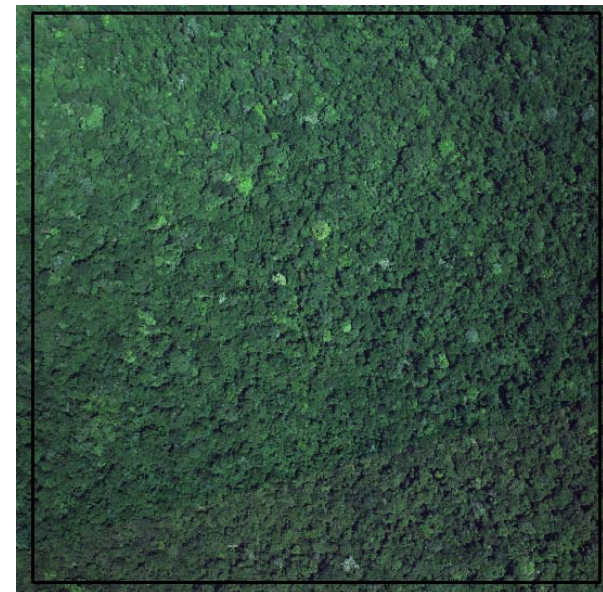
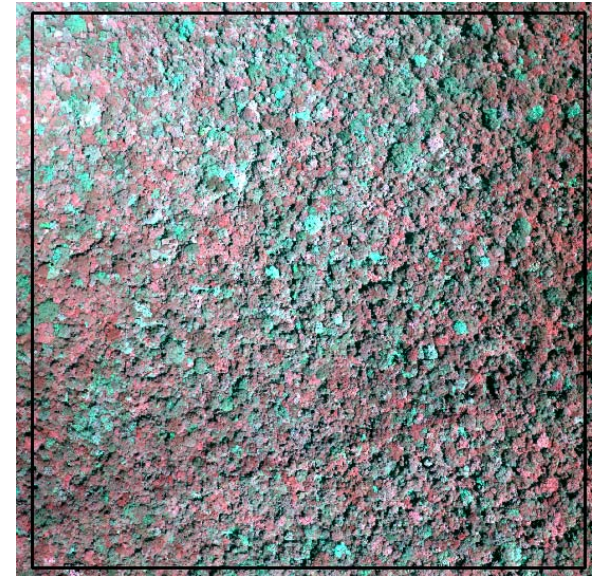
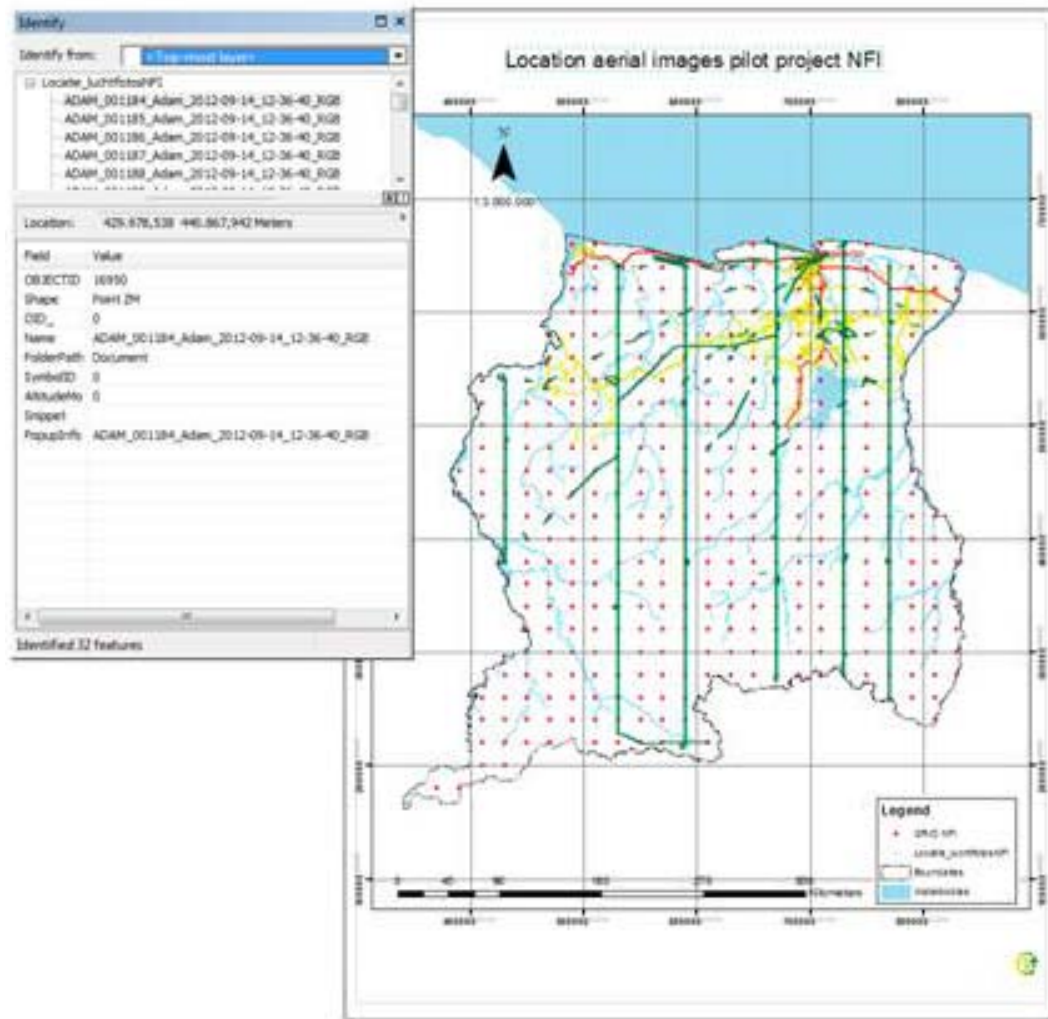
Aerial images interpretation

Sources of information:

- CBL (topographic) maps;
- Reconnaissance soil map of Northern Suriname (DBK, 1977);
- Ecosystems of the coastal plain (P.A. Teunissen, 1987);
- Forest cover map of Suriname (Ministry RGB, 2010);
- Field experience.



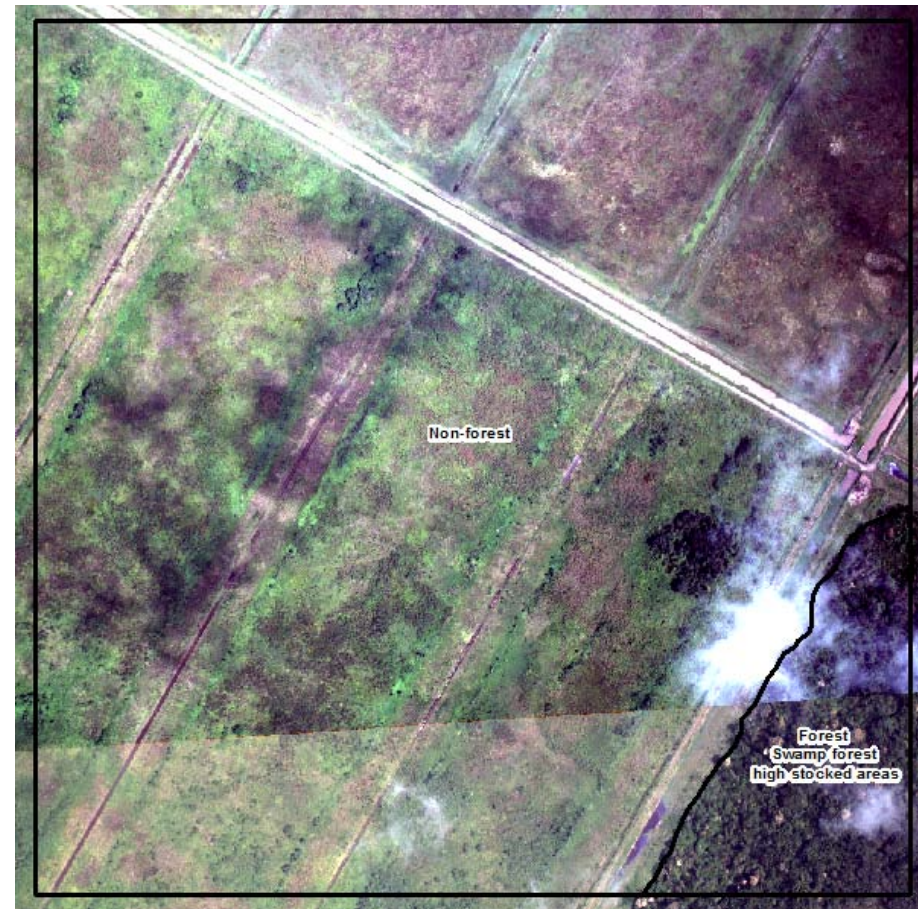
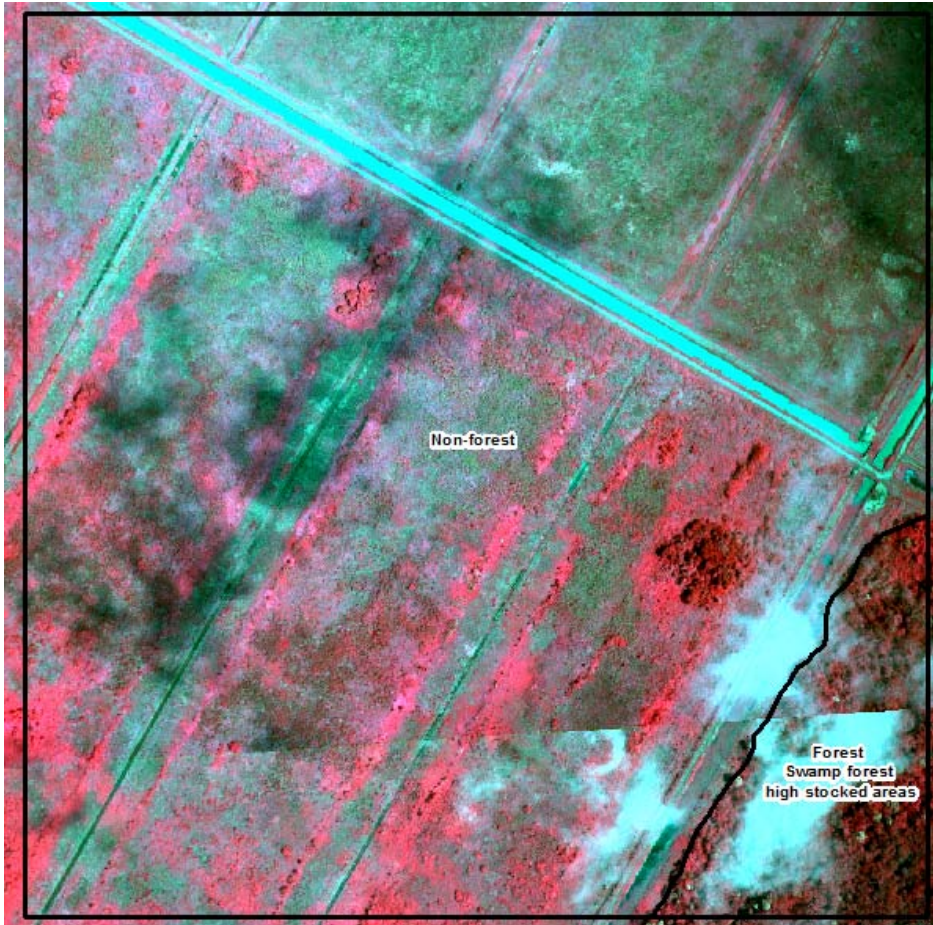
Aerial images interpretation



Aerial images interpretation

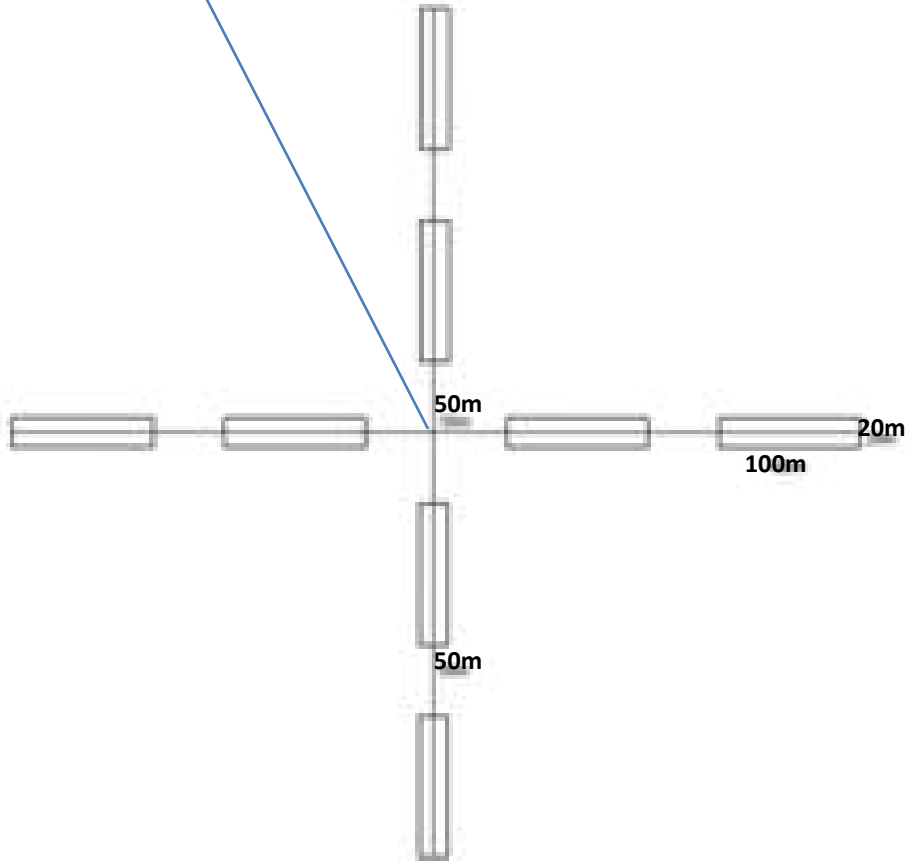
Level 1: land use	Level 2: forest types	Level 3: stocking-classes
Forest	High dryland forest	Temporarily non-stocked
	High xerophytic forest	Low stocked
	Low xerophytic forest	Medium stocked
	Bamboo forest	High stocked
	Liana forest	
	Mangrove forest	
	Marsh forest	
	Swamp forest	
Non-forest		

Aerial images interpretation

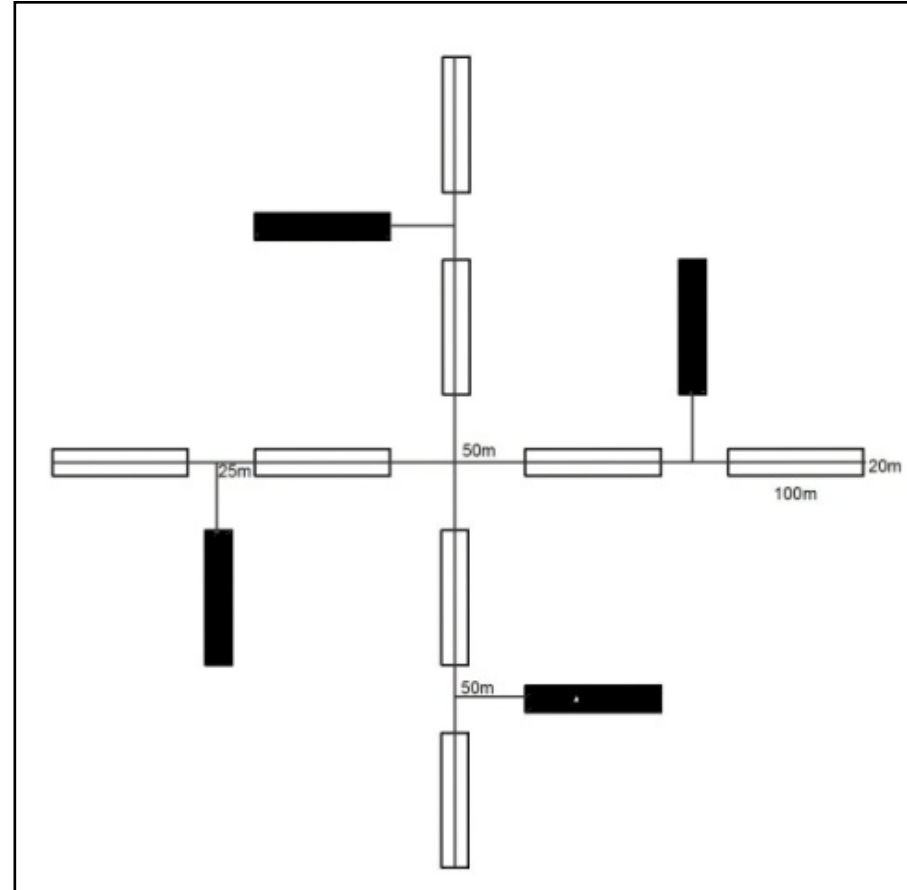


Fieldwork

SU center point



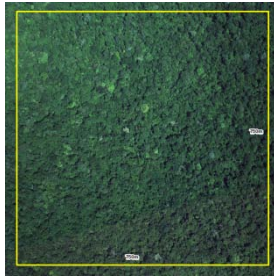
Normal NFI plot design



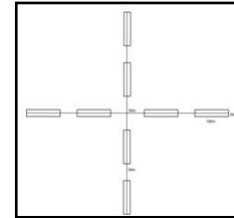
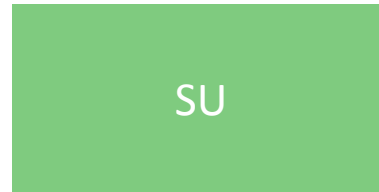
Plot design

NFI plot design collecting
of additional data

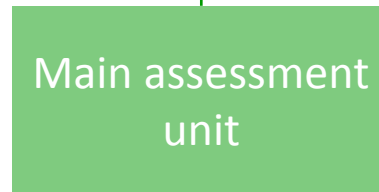
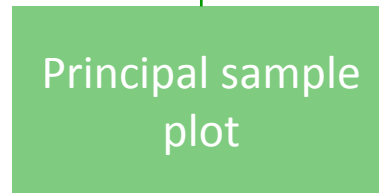
Fieldwork



SUa



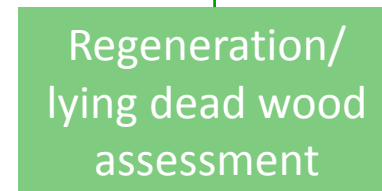
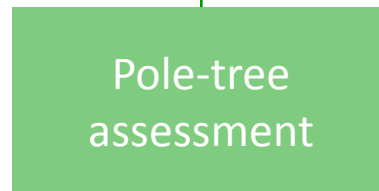
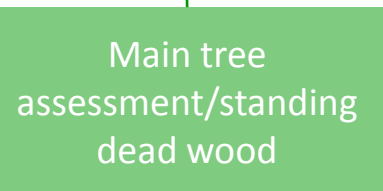
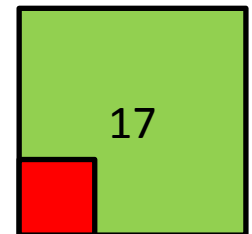
SUf



19	20
17	18
15	16
13	14
11	12
9	10
7	8
5	6
3	4
1	2

100m

20m

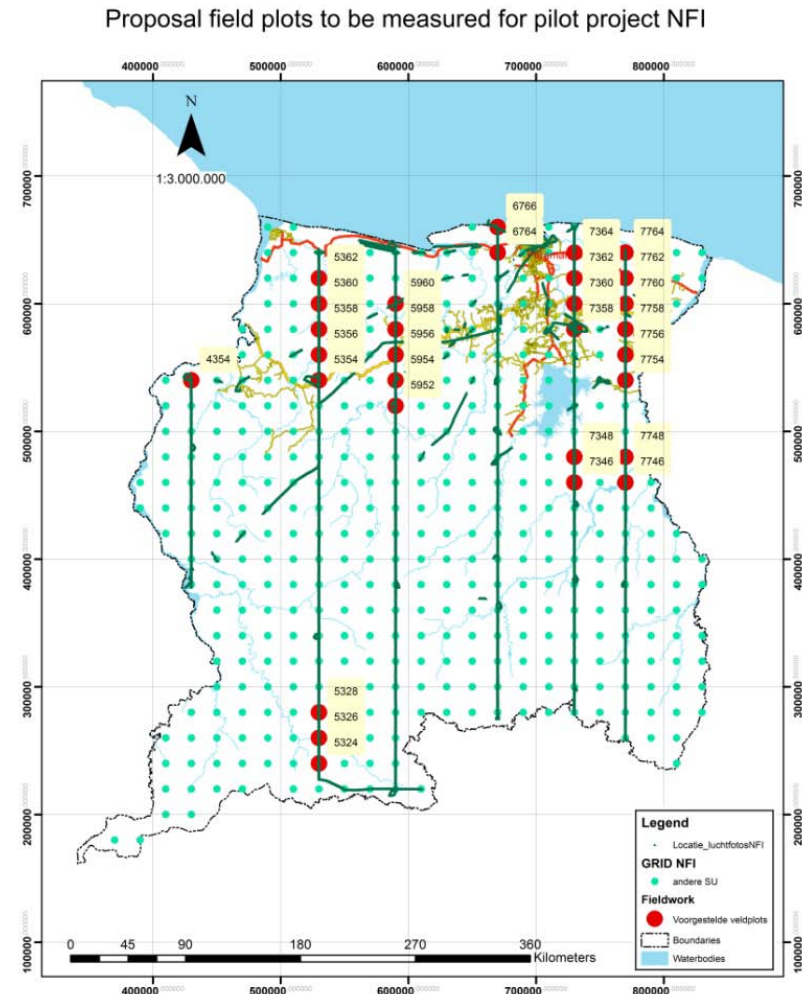


Assessment of the parameters

Unit	Parameters
Principal sample plot	Trees with dbh $\geq$ 20cm
	Standing dead wood
Four main assessment plots (10x10m)	Pole trees (10cm $\geq$ dbh < 20cm)
	Lianas (dbh $\geq$ 5cm)
	Palm trees
Four subplots (5x5m)	Regeneration (stem height > 1.3m & dbh < 10cm)
	Lying dead wood

Planning

- January 2013: training field teams;
- First half 2013: data collection 30 SU's, data processing, data analysis, reporting & evaluation pilot project;
- Formulation follow up.





THANK YOU...