

Building Uganda's National Forestry Monitoring System (NFMS)

Part of Uganda REDD+ Readiness

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Presented John Begumana Ayongyera, 26th September

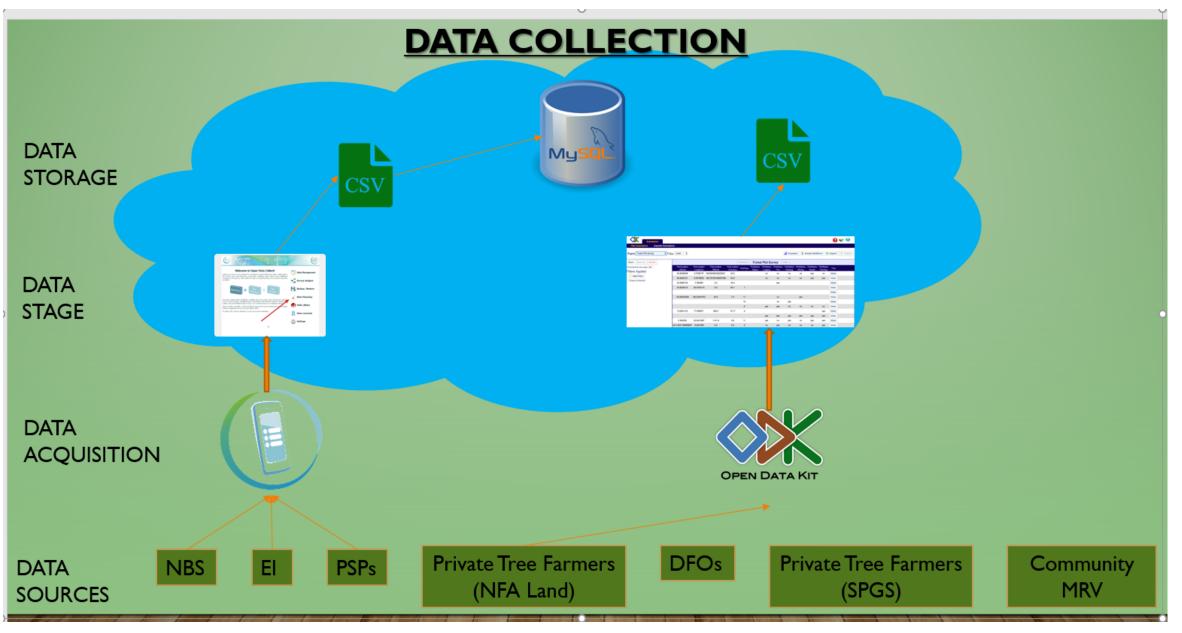
Key Partners in Developing Uganda's NFMS

- Financial Support
 - Government of Uganda
 - Forest Carbon Partnership Fund (FCPF)
 - the Austria Development Corporation
 - UNREDD- (UDP and FAO)
- Technical Support
 - FAO
 - UNREDD- (UDP and FAO)
 - Regional Centre for Mapping of Resources for Development (RCMRD)
 - Coalition of Rain Forest Nations (CfRN)
- In country Advisory and Technical Team
 - MWE \ FSSD
 - NFA Mapping and Forest Inventory team
 - REDD+ Task force
 - REDD+ National Technical Committee (NTC)
 - National Climate Change Advisory Committee (NCCAC)

Characteristics of Uganda's NFMS

- Uganda is building a NFMS by expanding stakeholder participation at same time maintaining a robust Measurement, Reporting and Verification (MRV) functionality.
- Wider stakeholder involvement in Measurement and Monitoring with differentiated responsibilities
 - Joint Forest Inventories together with other stakeholder, NFA taking the lead working together with UWA, Private Sector, NGOS
 - Training, testing of forest monitoring tools with local govt technical staff (DFO, DNR, DEO), Technical officers in MWE, Involvement communities in forest monitoring aspects.
 - However, Key and mandated institutions remain with core responsibility of:
 - Collection and assessment, over time, of forest area and forest area change (Activity Data (AD);
 - Undertaking of regular National Forest Inventories (NFI) to, collect information on forest carbon stocks and carbon stock changes, relevant for estimating emissions and removals and to provide emissions factors (EF);
 - Undertaking regular national forest GHG Inventories to support the sector reporting on anthropogenic forest-related GHG emissions by sources and removals by sinks to the to the CCD that then reports to the UNFCCC Secretariat;

Wide Stakeholder data collection and resource sharing



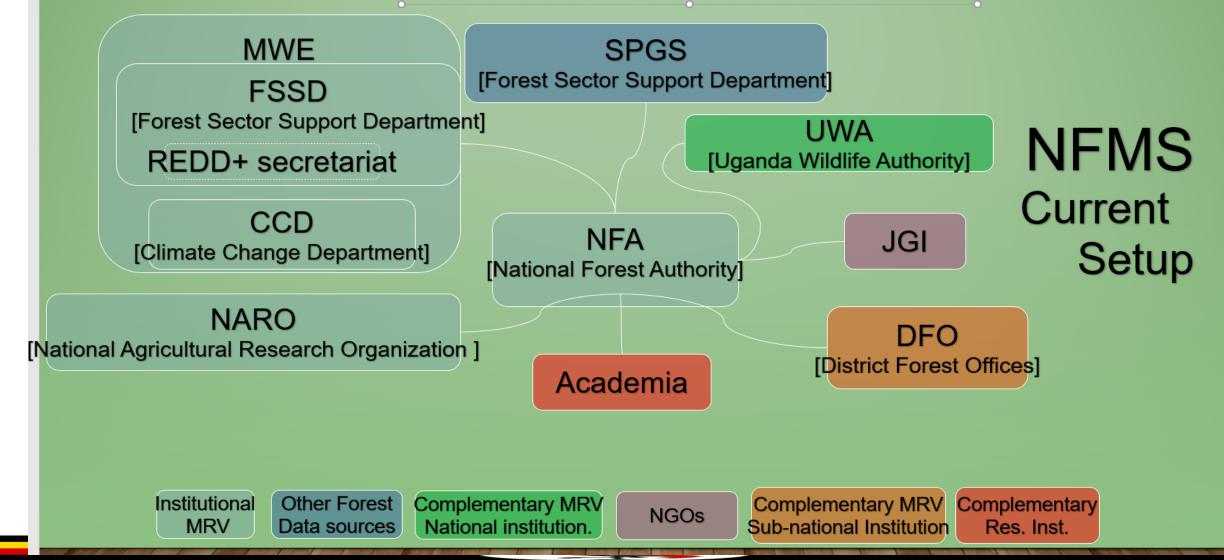
NFMS Supporting the monitoring functions

<u>Under national, regional and international</u> requirements and obligations and able to:

- Monitoring the performance of implementation of REDD+, NDC and other activities;
- Monitoring of the performance of national results-based actions that should be fully measured, reported and verified;
- Monitoring the performance of policies and measures from other sectors which have implications for REDD+

Institutionalisation of NFMS with MRV functions

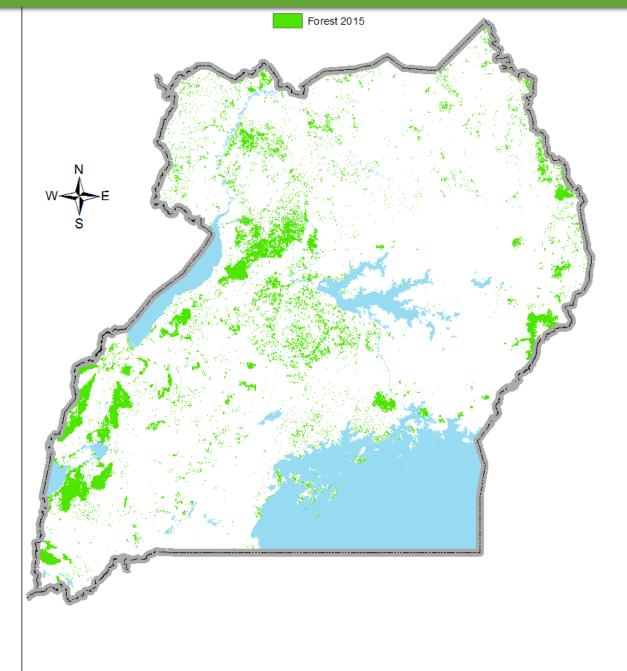
NON-HIERACHICAL STAKEHOLDER ASPECTS



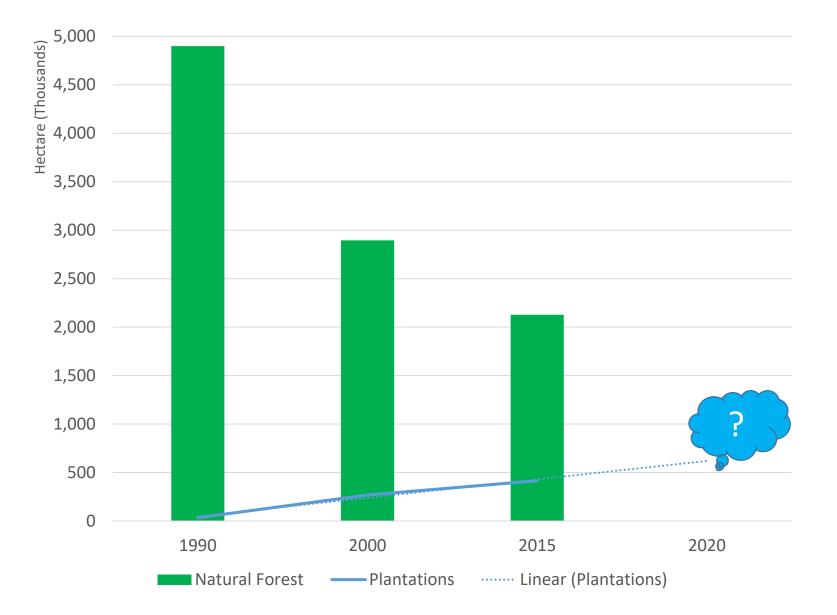
Key Outputs

- Understanding Where Deforestation is taking place
- Understanding Direct (Proximate) and indirect drivers of Deforestation and forest Degradation
- Assess Afforestation / Reforestation efforts

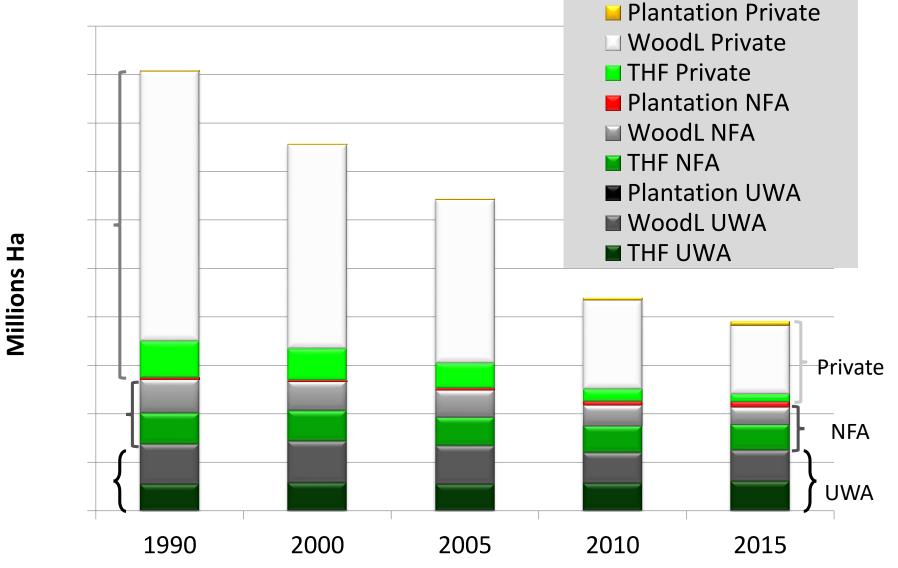
Time Series Maps on LUC Change and Forests



Forest Trends 2000 to 2015



Forest Change by Tenure, Management and Forest Strata Level

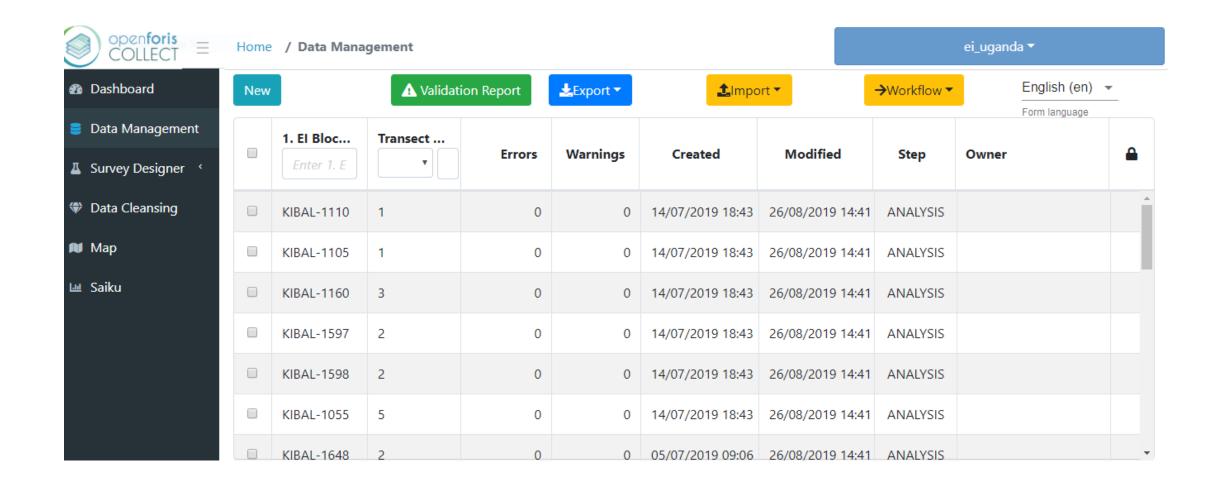


Level 2 = Woodland, Tropical High Forest and Plantations

Key Outputs

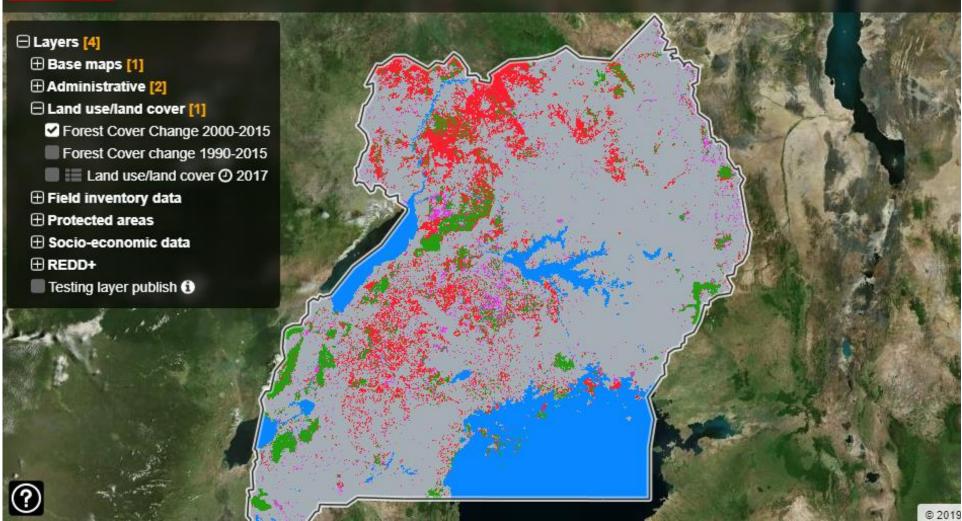
- Establishing data access, sharing mechanism
- 1) Access to Forest Inventory data to key MWE personnel, Final data access mechanisms, data security, user accesses rights yet to be finalised, tomcat.nfa-fmis.net/collect/
- 2) Access to technical information on data production processes and manuals (including blogs) via a wiki
- 3) Access key data that has informed REDD+ and Possibly REDD+ through WEB portal
- 4) Access to both spatial and attribute data through Geo-server service; Up coming

tomcat.nfa-fmis.net/collect/ (password needed)



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Uganda National Forest Monitoring System Portal



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Ministry of Water and Environment

Main Page

From ForestWiki NFA

NFA-ForestWiki... Uganda's One stop forestry information center...

...that focuses on information about forestry practice and research with a Ugandan perspective.

You will find scholarly and practice articles written by forestry practitioners, students, consultants and any interested parties.



National Forest Monitoring System

... the institutionalization of the National Forest Monitoring System (NFMS) ensures that NFA and the related institutions responses Forest Services, UWA) have the capacity to measure and report forest related carbon emissions by activity in a manner that is endeavor FAO's technical support has led to the establishment of this wiki as a repository of all knowledge that has been provide the capacity to measure and report forest related carbon emissions by activity in a manner that is transparent and verifia Monitoring System Portal. Uganda's capacity to measure carbon related emissions has also been enhanced by establishment

Forest Inventories

While executing its statutory mandate, NFA has over the years made effort to establish and monitor Uganda's forest stock through

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Way Forward

- To Remain actively participating in REDD+ and Support other related developments e,g NDC
 - Enhance the Monitoring aspects of NFMS,- use emerging technologies to;
 - Regular Assess Forest area change
 - Changes in carbon stocks (emission factors)
 - Estimate Emissions from biomass burning
 - Improved Analysis & reporting
 - National GHG information system
 - Analysis of drivers and factors of forest change
 - Establishment of reference emission level and regular updating
 - National and international reporting
 - Registry