National Forest Monitoring and REDD+ at FAO

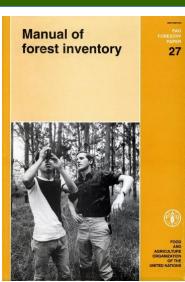
Julian Fox
National Forest Monitoring Team Leader (a.i.)
FAO Forestry Department
12 September 2017

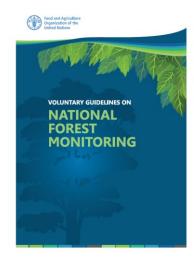


National Forest Monitoring (NFM)



- NFM has a long history at FAO (from the 50's)
- Forest Monitoring has evolved through time;
 - Timber inventory
 - Biodiversity and socio-economic information
 - Most recently;
 - REDD+ National Forest Monitoring Systems (NFMS)
 - Measurement Reporting and Verification (MRV) of REDD+ actions
- Work complimentary to FRA
- Over-riding objective: Strengthen national capacities for long term forest monitoring
- Over-riding motivation: Better information leads to better decisions, which leads to better actions in the forest sector and beyond







NFM country support



Broad technical support on NFM to all *FAO* member countries

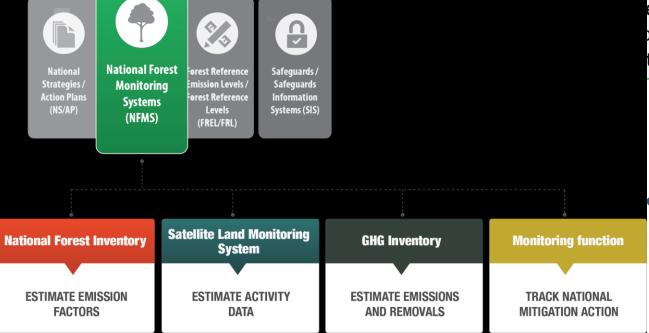
- Demand Driven
- Capacity Building
- Participatory process
- Address National and International Reporting Requirements

(harmonization to national and global

rds)

edge Sharing (e.g. south-south bration)

tionalized & Sustainable



Technical support to **REDD+** countries on **NFMS, FREL** and beyond



NFM tools



Open Foris Initiative: Free and Open Source Tools and Methods for Data Collection, Analysis and Reporting















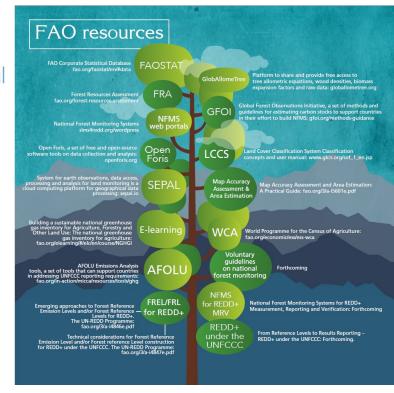
Geospatial Toolkit

http://www.openforis.org/

SEPAL Cloud-based Processing



https://sepal.io/



http://www.fao.org/3/a-i7210e.pdf



NFM country support



NFM team provides expert support and capacity building to over 70 countries: Global, regional and national programmes

- 1) National Forest Inventory
 - Active support to 36 countries
- 2) Satellite Land Monitoring Systems
- 3) Forest Reference (Emission) Levels and GHGi
 - Active support to 20 countries
- 4) Current and future global NFM projects









vironment, Nature Conservation











NFM publications

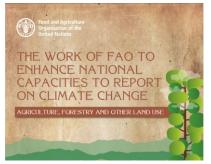


Recent publications

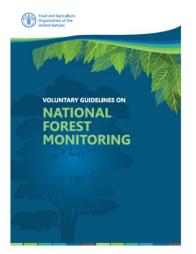
- From reference levels to results reporting: REDD+ under the UNFCCC
- The work of FAO to enhance national capacities to report on climate change
- Voluntary Guidelines for National Forest Monitoring

Forthcoming publications

- National Forest Monitoring Systems for REDD+
- Scientific papers & proceedings



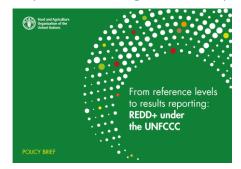
http://www.fao.org/3/a-i7210e.pdf



http://www.fao.org/3/a-I6767e.pdf



http://www.fao.org/3/a-i7163e.pdf



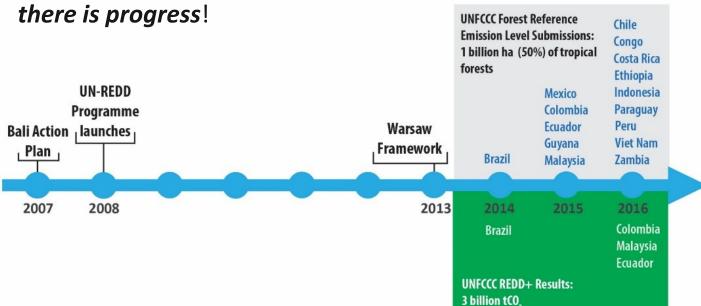
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NFM and REDD+



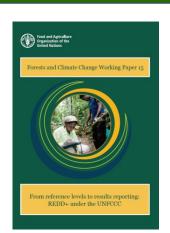
- UNFCCC REDD+ modalities completed and enshrined in Article 5 of the Paris Agreement
- Significant mitigation potential with political and financial backing over 70 forest countries actively engaged for REDD+
- Technological and institutional barriers to REDD+ have centered on countries being able to measure, report and verify REDD+ actions – but –





REDD+ MRV - Key observations

- Technological and institutional barriers to REDD+ MRV are being overcome
- Unprecedented transparency of countries' forest-sector data and information
- Technical assessment under the UNFCCC is key to improvement of countries' forest sector data



http://www.fao.org/3/a-i7163e.pdf

- Improved country data is contributing to informed forest sector policies, and contributes to SDG and NDC reporting
- Country data and the quality of submissions need to improve overtime to meet donor expectations for payment
- Further investment in REDD+ MRV readiness is necessary to improve country data and facilitate broad country participation in REDD+

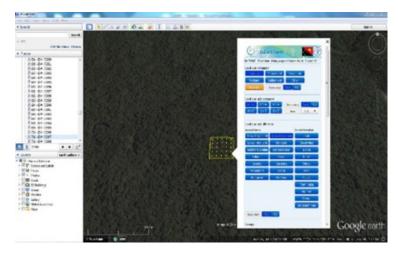






ACTIVITY DATA

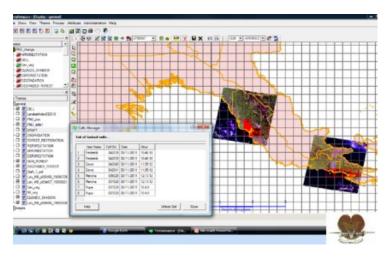
Robust system with in-country verification consisting of two different SLMS systems operated by two different government agencies (CCDA & PNGFA).



Collect Earth

Point sampling

Annual assessment of land use and land use change 2000-2016.



Terra PNG

Wall to wall mapping

Historical mapping (2000, 2005 & 2010) and 2016 recently completed





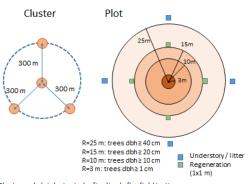




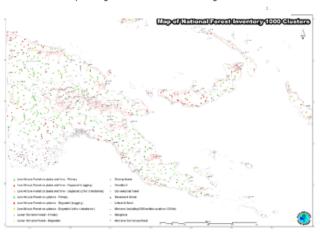
EMISSION FACTOR

National Forest Inventory

Trainings conducted. Methodologies established. Field measurement commenced in December 2015.



















TRANSPARENCY use information to public for ensuring the transparency of PNG REDD+ process. Web-portal was launched by the Prime Minister http://png-nfms.org/portal/ of PNG in 2016.





Web-portal was established for disseminating forest and land

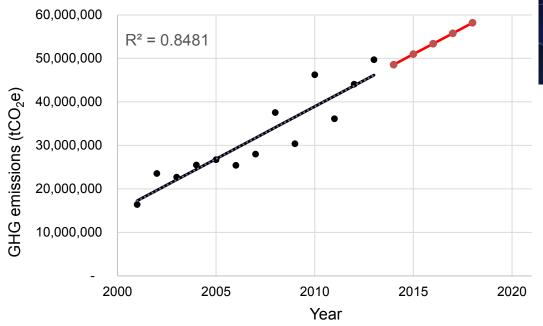








PNG's REDD+ Forest Reference Level





Submitted to UNFCCC in January 2017

Scale: National scale
Activities: Deforestation, forest
degradation, carbon
enhancement

Carbon pools: Above & below

ground biomass







Main streaming of Forest Monitoring in PNG



Web-portal and NFI was launched by the Prime Minister on 9th March 2016.









Thank You!

Financial support provided by



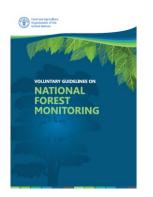








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