

National Forest Monitoring and REDD+ at FAO

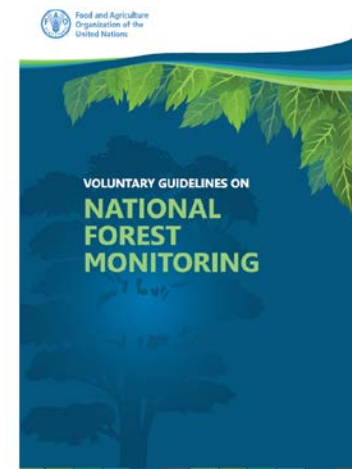
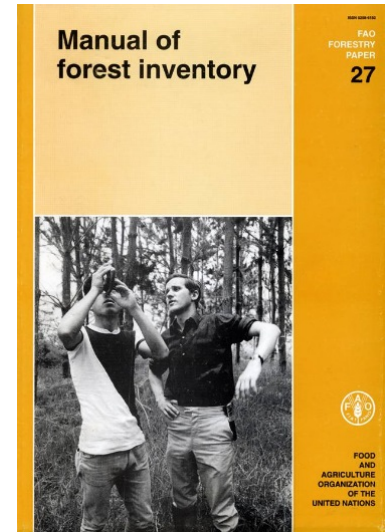
Julian Fox
National Forest Monitoring Team Leader (*a.i.*)
FAO Forestry Department
12 September 2017



National Forest Monitoring (NFM)



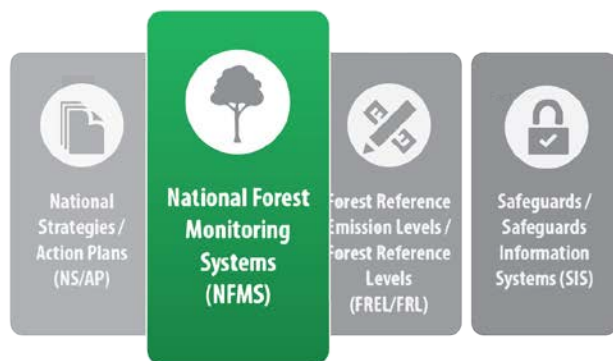
- NFM has a long history at FAO (from the 50's)
- Forest Monitoring has evolved through time;
 - Timber inventory
 - Biodiversity and socio-economic information
 - Most recently;
 - REDD+ *National Forest Monitoring Systems* (NFMS)
 - *Measurement Reporting and Verification* (MRV) of REDD+ actions
- 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 standards)
- **Knowledge Sharing** (e.g. south-south collaboration)
- **Institutionalized & 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



Collect



Collect
Mobile



Collect
Earth



Calc



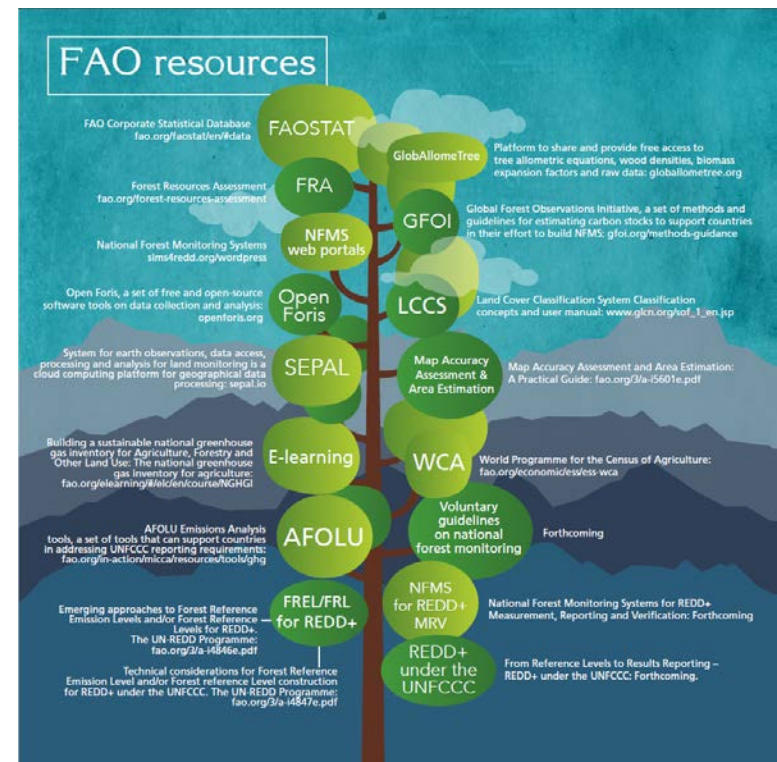
Geospatial
Toolkit

<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:

1) National Forest Inventory

- *Active support to 36 countries*

2) Satellite Land Monitoring Systems

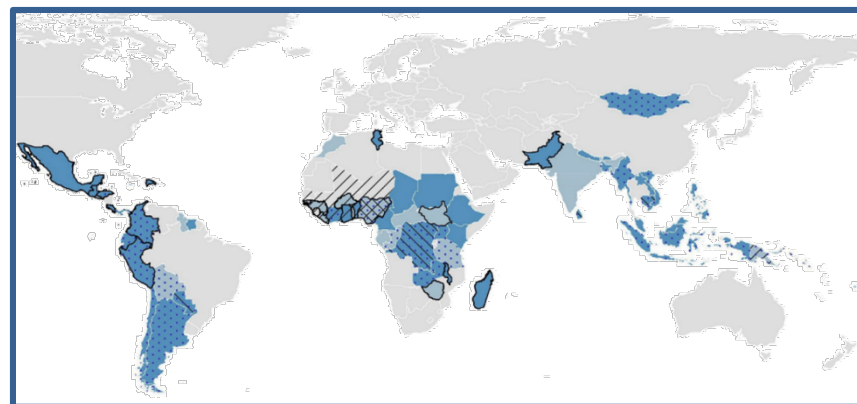
- *Active support to 40 countries*

3) Forest Reference (Emission) Levels and GHGi

- *Active support to 20 countries*

4) Current and future global NFM projects

Global, regional and national programmes



Supported by:



based on a decision of the German Bundestag



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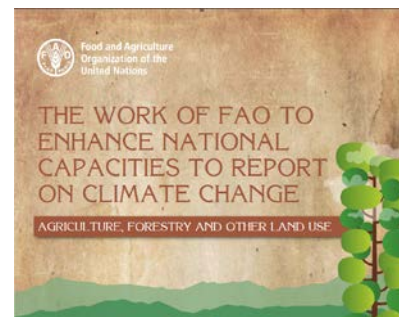


NFM publications

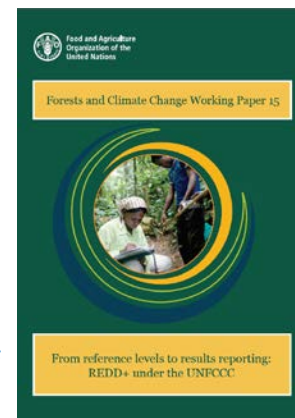


Recent publications

- *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*



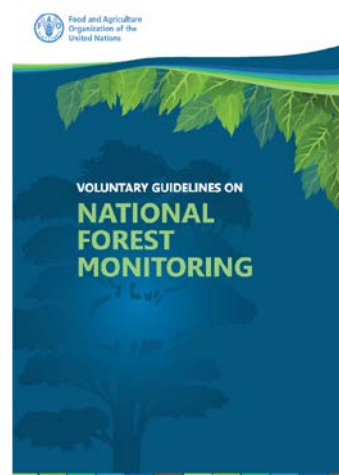
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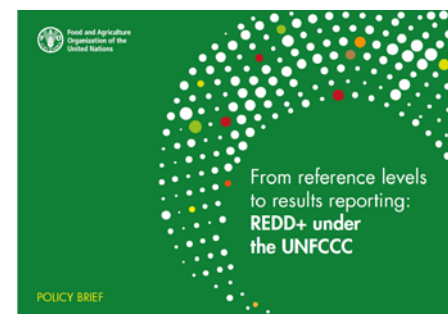
<http://www.fao.org/3/a-i7163e.pdf>

Forthcoming publications

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



<http://www.fao.org/3/a-l6767e.pdf>

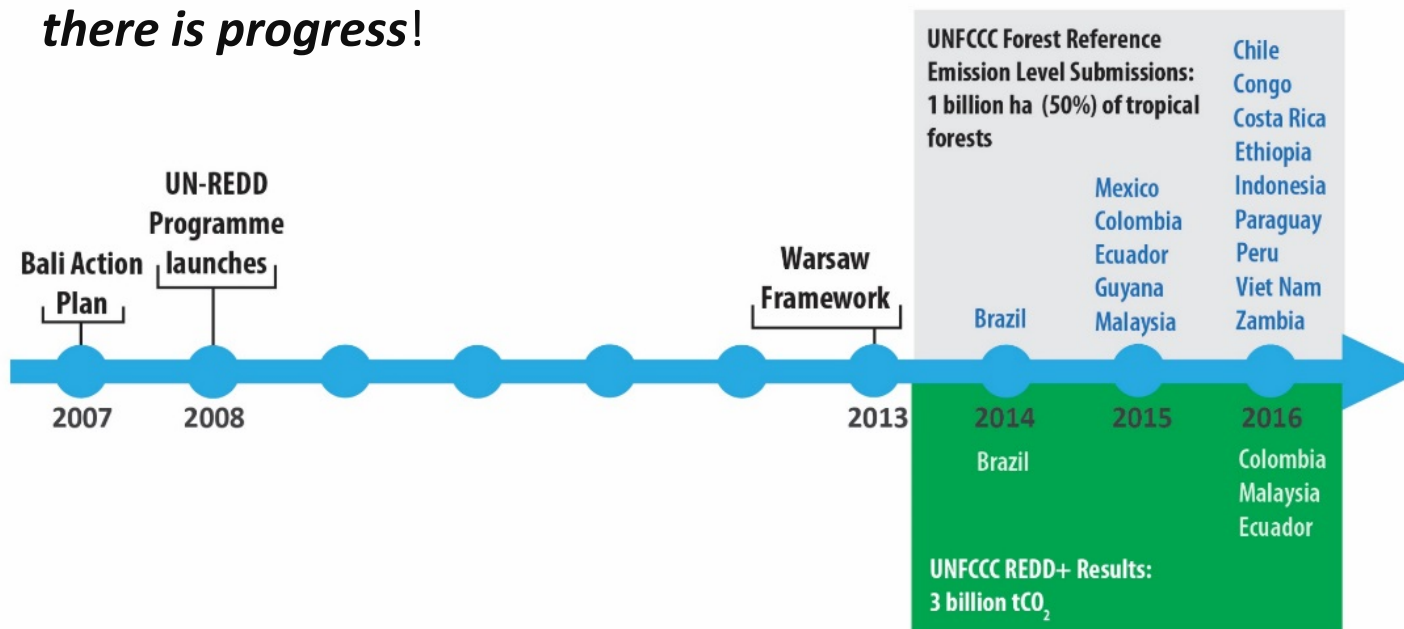


<http://www.fao.org/3/a-i7352e.pdf>

NFM and REDD+



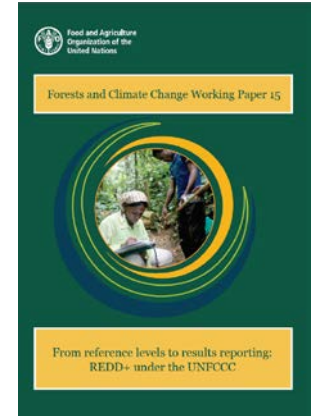
- UNFCCC REDD+ modalities completed and **enshrined** in Article 5 of the Paris Agreement
- **Significant** mitigation potential with political and financial backing - over 70 forest countries actively engaged for REDD+
- Technological and institutional barriers to REDD+ have centered on countries being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



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
- **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+



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

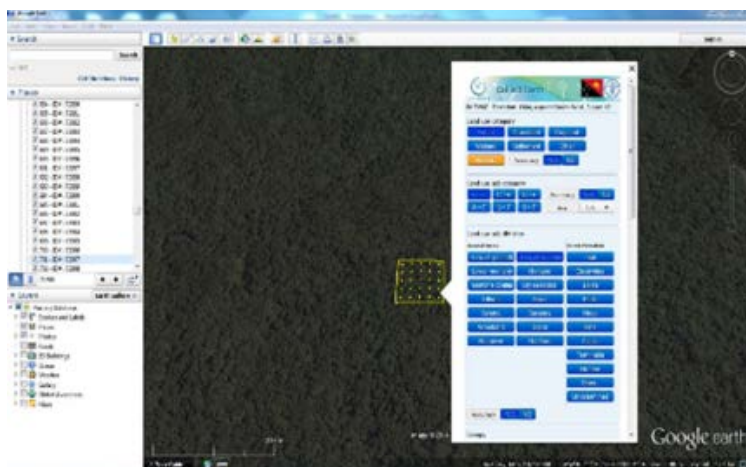


PNG MRV



ACTIVITY DATA

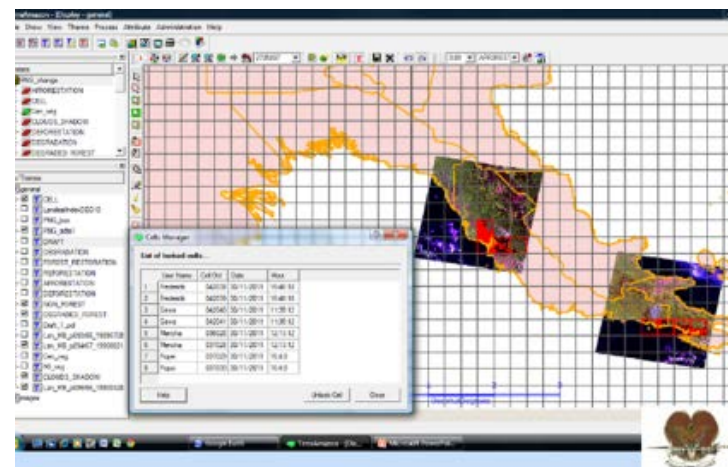
Robust system with in-country verification consisting of two different SLMS systems operated by two different government agencies (CCDA & PNGFA) .



Collect Earth

Point sampling

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



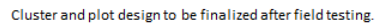
Terra PNG

Wall to wall mapping

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



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





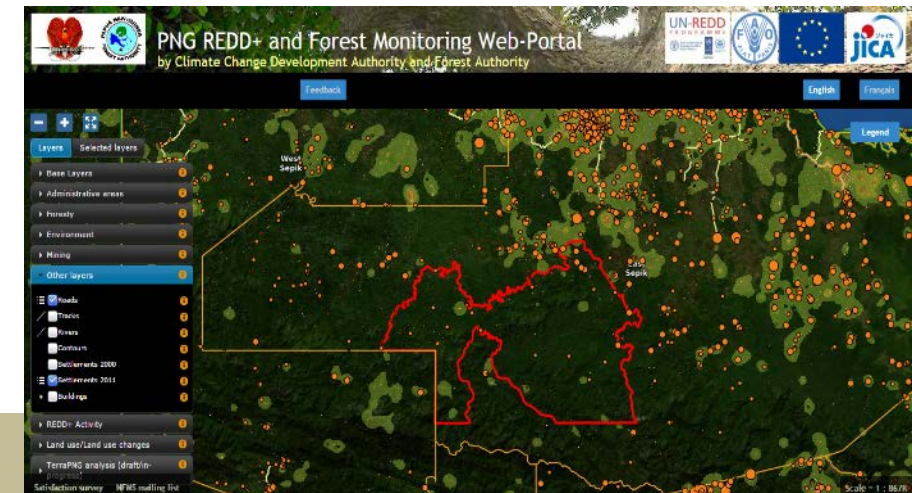
PNG MRV



TRANSPARENCY

<http://png-nfms.org/portal/>

Web-portal was established for disseminating forest and land use information to public for ensuring the transparency of PNG REDD+ process. Web-portal was launched by the Prime Minister of PNG in 2016.

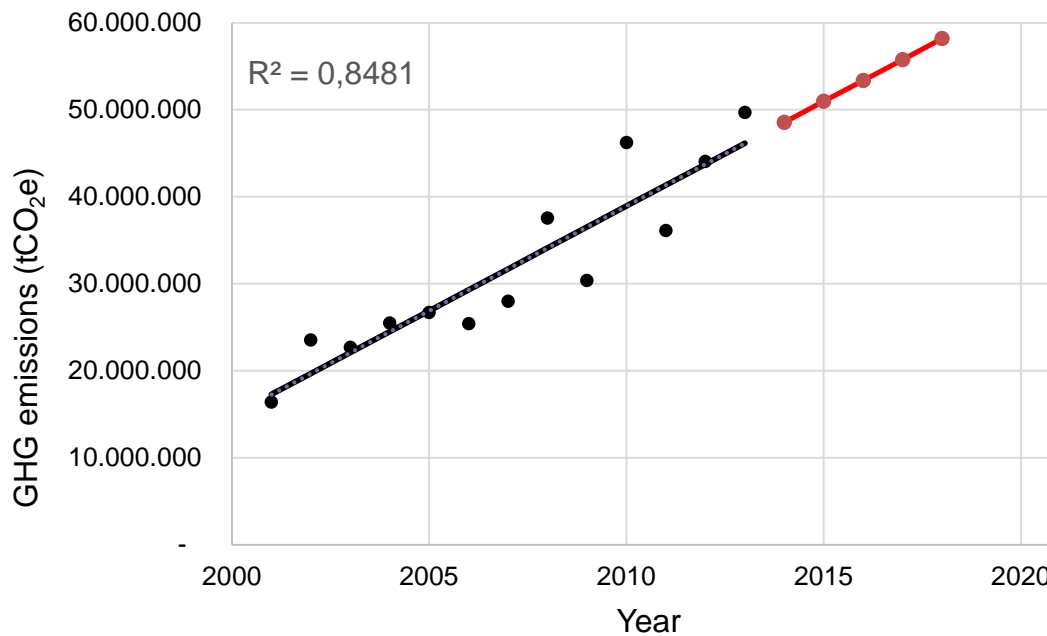




PNG MRV



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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UN-REDD
PROGRAMME



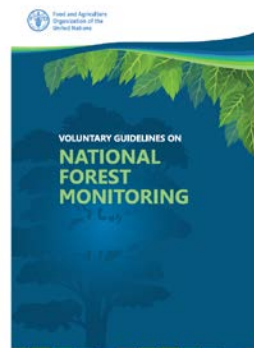
Food and Agriculture
Organization of the
United Nations



Empowering lives.
Protecting nature.



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



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