

# FAO work on National Forest Monitoring and REDD+

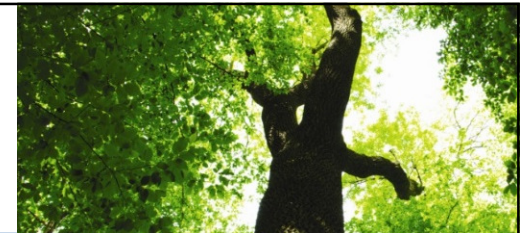
Julian Fox

National Forest Monitoring Team  
FAO Forestry Department

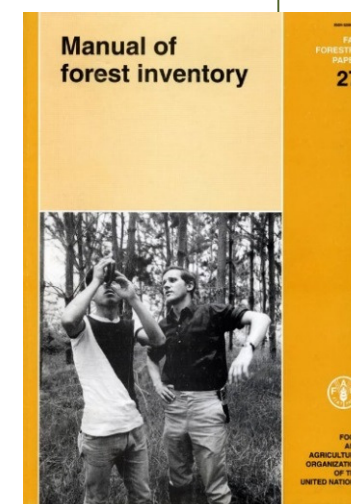




# National Forest Monitoring (NFM)



- Forest Monitoring has a **long history** at FAO
  - Global Forest Resource Assessment (FRA)
  - National Support
- 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



- 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

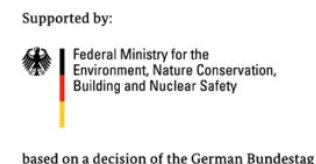
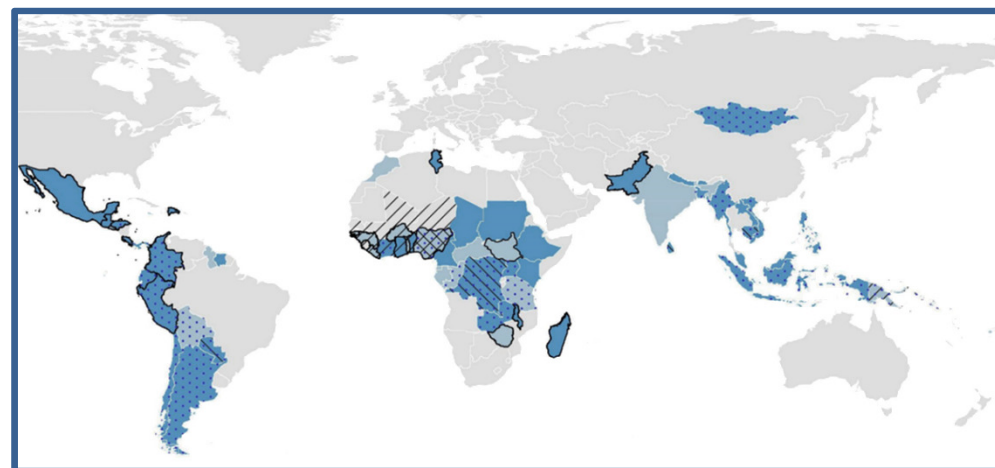
# FAO REDD+/NFM country support



REDD+/NFM cluster provides expert support and capacity building to over 70 countries through a network of 80 experts:

*Global, regional and national programmes*

- National Forest Inventory
  - *Active support to 25 countries*
- Satellite Land Monitoring Systems
  - *Active support to 40 countries*
- Forest Reference (Emission) Levels and Green House Gas inventory
  - *Active support to 20 countries*





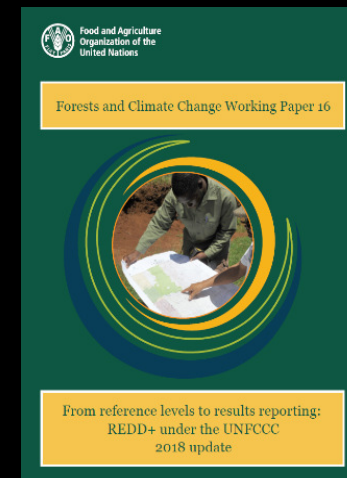
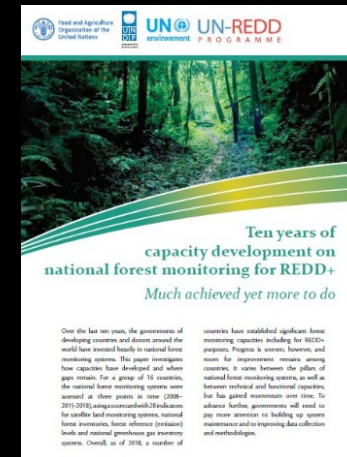
Organisation des Nations Unies  
pour l'alimentation et l'agriculture

# REDD+ MRV: where are we now?

Transformation in NFM systems and capacity with accelerated progress in the past 3 years

Progress in countries' ability to measure and report emission reductions or enhancements for REDD+ with 38 Forest Reference Emission Levels/Forest Reference Levels (FREL/FRLs) submitted to the UNFCCC (FAO 2018)

FREL/FRL and REDD+ results undergo Technical Assessment/analysis under the UNFCCC - a key step in advancing the **transparency** and **accuracy** of country data and information







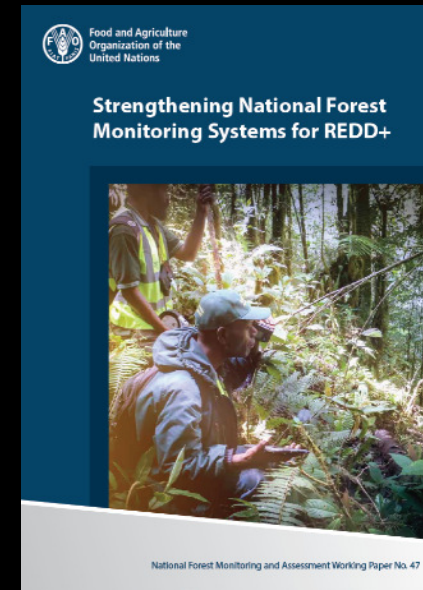
## MRV: where do we need to go?

Despite the advances: NFM capacity and systems need to be further strengthened toward operational MRV for **accurate** and **transparent** data and information

- Strong NFM capacities and systems is a functional precondition for countries to access REDD+ results-based payments and to support national decision making processes

*Better information => Better decisions =>  
Better actions*

- Next generation MRV for spatially explicit tracking of emissions and removals





Organisation des Nations Unies  
pour l'alimentation et l'agriculture

# Open Foris



Collect

Easy and flexible  
survey design and  
data management



Collect  
Mobile

Intuitive data  
collection and  
validation in the field



Collect  
Earth

Innovative land  
assessment through  
freely available  
satellite imagery



Calc

Efficient and  
collaborative data  
analysis and results  
dissemination



SEPAL

System for earth  
observation, data  
access, processing,  
analysis for land  
monitoring

Migration to online cloud-based environments such as SEPAL and Collect Earth Online

*Open Foris Online* project to 2020

[Openforis.org](http://Openforis.org)



OPENFORIS

