



Food and Agriculture
Organization of the
United Nations



Support for the Design of the MRV System in the Framework of REDD+ Readiness in the Sudan (UTF/SUD/079/SUD)

Workshop on Institutional Arrangements and gap analysis,
1 March 2018, Khartoum

Overall Objective and context of the project

- The project “Support for the Design of the MRV System in the Framework of REDD+ Readiness in the Sudan” was signed on 15 August 2016.
- It is one of the four main components of the overall REDD+ programme in the Sudan.
- The overall objective of the project is: **“The Government of the Sudan has the data and capacities to monitor, report and verify REDD+ activities”**.

MRV in the context of REDD+

- An MRV system **is simply a set of institutional arrangements** (the people and organisations) and a technical system that supports all three elements of MRV.
- Importantly, the REDD+ Program of work is not separate from the National Green House Gas Inventory but part of it
- The NFMS relates to estimation of emissions specifically in relation to REDD+ activities using a combination of remote sensing and ground based data, where the specific types of data needed is nationally determined.
- Critical to REDD+ is determining the baseline for the country, referred to as the Forest Reference Emission Levels (FREL) or the Forest Reference Level (FRL). The FREL/FRL covers a historical period, often 10-15 years, to form the baseline

Outputs and key activities

Output 1: Institutional arrangements and data management systems to support the national MRV system are in place and operational

- Support to technical MRV working group
- Assessment of MRV gaps, arrangements and responsibilities
- Data management needs are assessed and equipment/systems/data are procured
- Development of a National Forest Monitoring System/MRV action plan

Outputs and key activities

Output 2: Capacities to regularly assess forest & land cover change are strengthened to produce activity data for REDD+

- **Define and agree on forest definition for REDD+**
- **Assessment of existing land and forest cover maps, change assessment and classification system**
- **Development of an updated forest and land cover map**
- **Develop a Satellite Land Monitoring System methodology and operational procedures, and create consistent time series of forest cover and assess change**

Forest definition

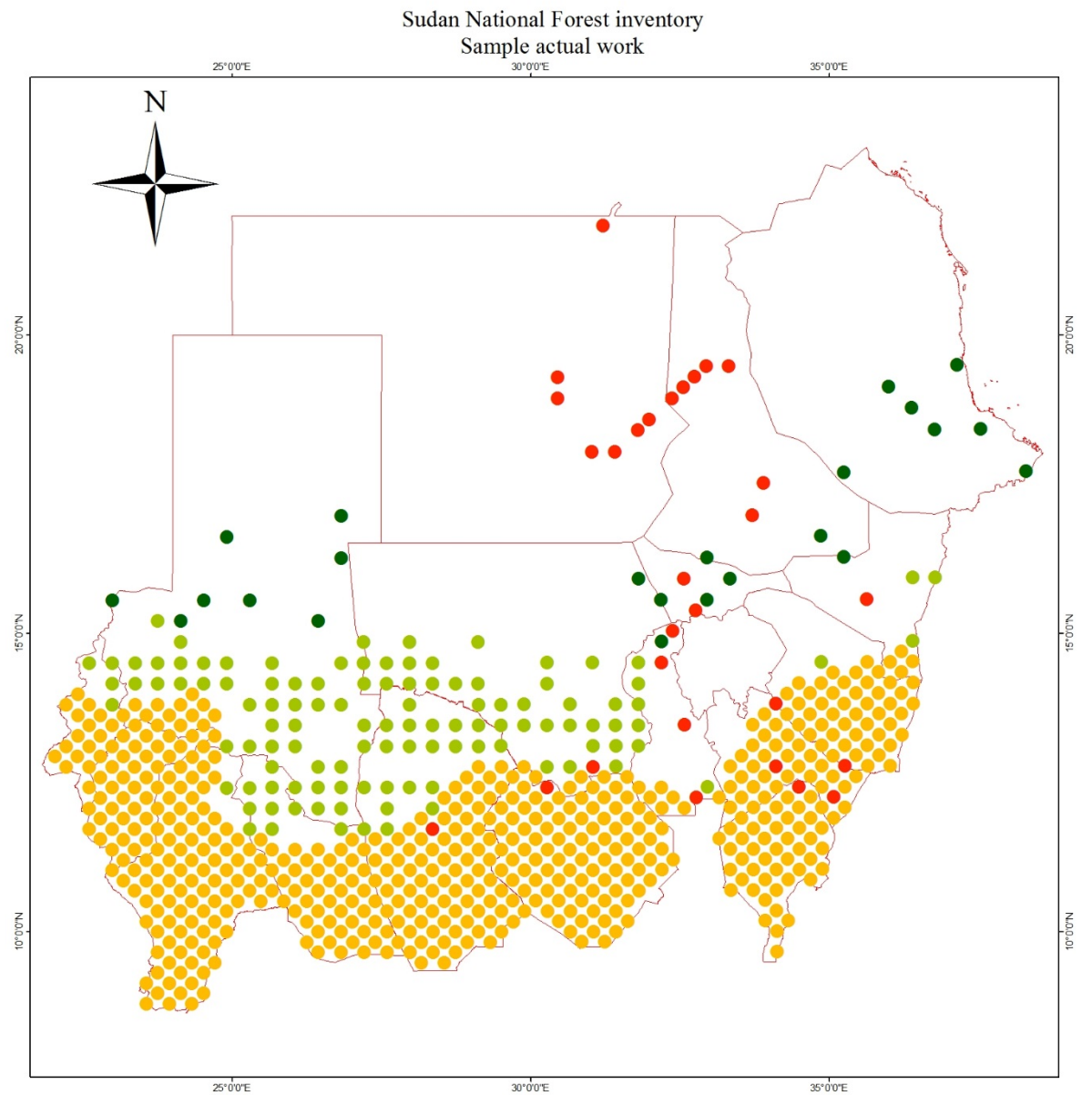
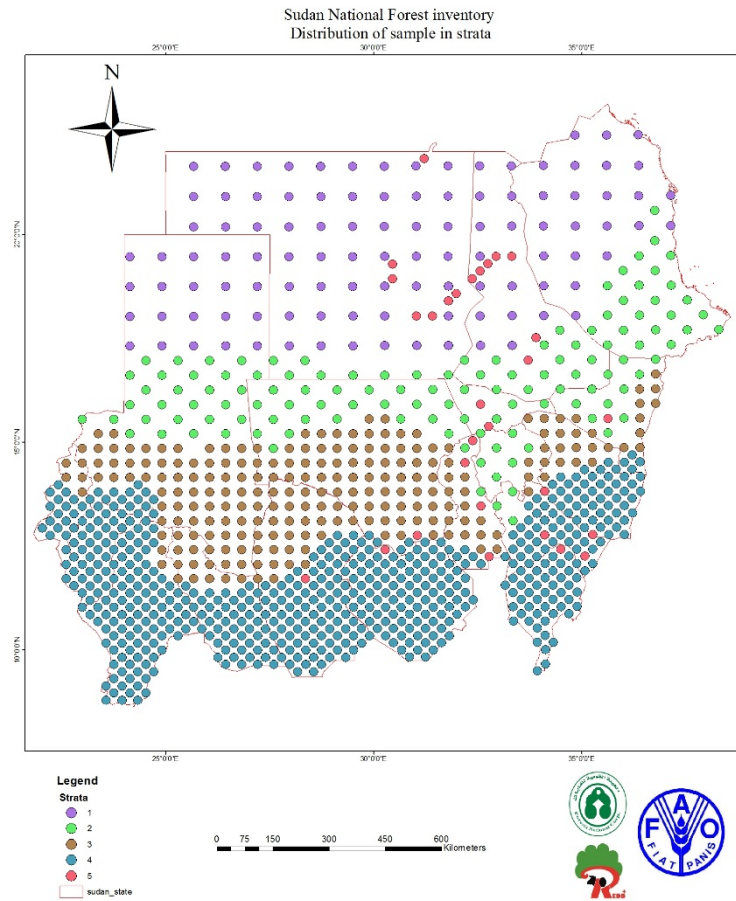
Forest means an area of land spanning **minimum 0.4 ha** with trees that have **attained**, or **have the potential to attain** at least **2 m in height** and a **minimum tree canopy cover of 10%**. It includes windbreaks and/or shelterbelts with a **minimum width of 20 m**.

Outputs and key activities

Output 3: National Forest Inventory is carried out to improve carbon and forest information, and capacities are built to update it regularly

- **Development of NFI needs and methodology, including the manual, consultation and testing**
- **Implementation of the National Forest Inventory**
- **Establishing a number of permanent sampling plots for periodic and systematic measurements of key parameters**
- **Various other activities.**

NFI Sampling Units



Phase II

Two main additional outputs are added in order to achieve the expected result:

- **Output 4.** FREL/FRL is developed according to UNFCCC requirements for REDD+
- **Output 5:** a GHG inventory and reporting process is developed for AFOLU sector including rangelands.
- **Additional activities for Output 2:**
 - Set-up of fire/desertification monitoring
 - Design of fire management strategy and action plan

