





Mozambique

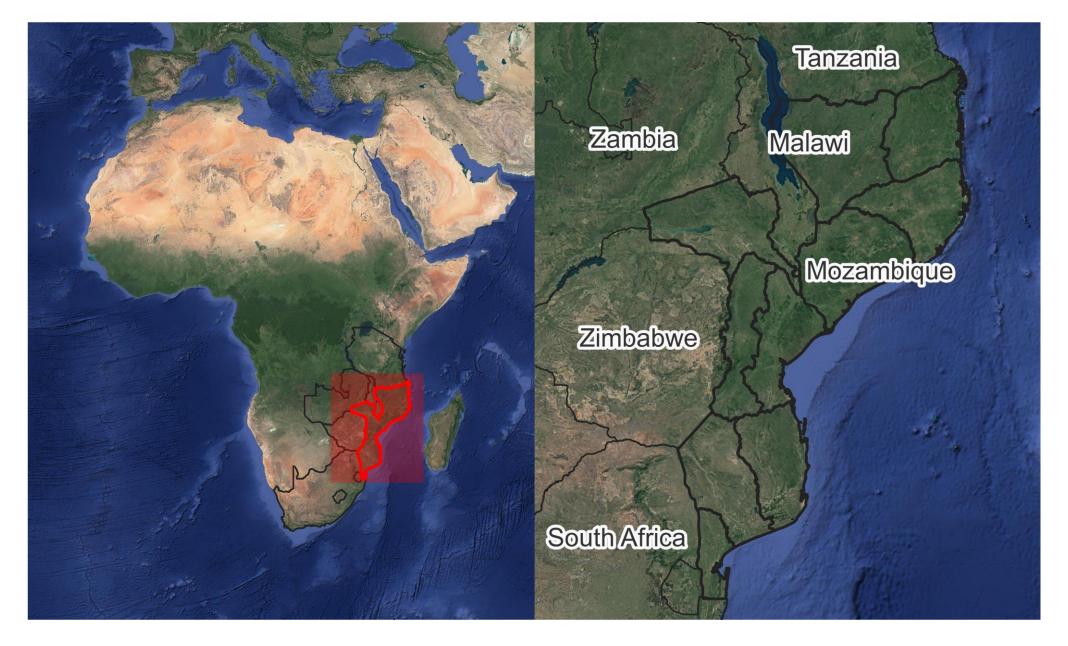
Strengthening Mozambique's NFMS for REDD+ and Climate Transparency

Muri Soares, MRV Unit of FNDS



Introduction







Introduction

Institutional Context

- NFMS of Mozambique:
 - National Directorate of Forests and Wildlife
 - MRV Unit for REDD+ of the National Fund for Sustainable Development
- National Directorate of Forests:
 Management of forest resources
- MRV Unit: Provides technical assistance for remote sensing and monitoring systems



NFMS Progress



Timeline

2016

- National REDD+ Strategy
- Establishment of MRV Unit for REDD+

2017

- Historical Activity Data (2001-2016)
- 4th National Forest Inventory

2018

- Land use and Land Cover Map (2016)
- National FREL (2003-2013)



2019

- Permanent Sampling Plots (PSP)
 Manual
 Establishment of 2 PSP
- Start of Annual mapping of deforestation (2017-present)

2020

- Start of Participatory MRV tool (2020-present)
- 1st ER Monitoring Report for Zambézia ER Program (FCPF)
- Establishment of 1 PSP

2021

- NFMS Document v1
- Establishment of 12 PSP

2022

1st Biennial Update Report with REDD+ Technical Annex 2nd ER MR for Zambézia ER Program Establishment of 10 PSP



2024

- Participatory MRV study on drivers of deforestation in Zambezia
- 2nd Biennial Update Report with REDD+ Technical Annex
- 3rd ER MR for Zambézia ER Program
- NFMS Document v2

2025

- Participatory MRV study on drivers of deforestation in Niassa and Nampula provinces
- 4th ER MR for Zambézia ER Program



GFOI Capacity Development Impact



Involvement with GFOI

- GFOI Plenaries: 2019, 2021, 2023
- 2017: REDD+ Compass MRV Action Plan
- 2019: Country Needs Assessment for NFMS
- 2024: Biomass Rapid Response Module

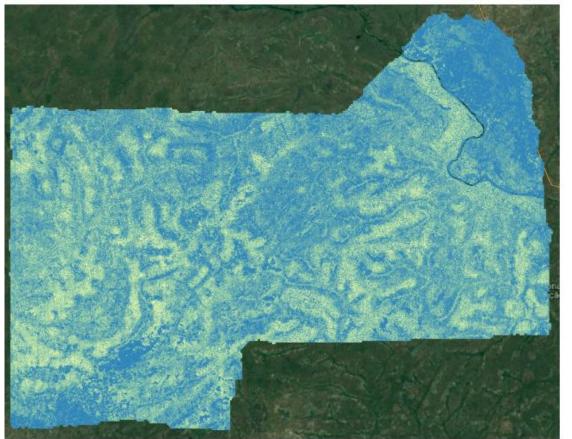


Biomass mapping

Collaborations

- Sylvera (WB/GoM funded)
 - Collection of in-situ and Lidar data
 - Production of locally calibrated biomass map
- GeoVille (WB funded)
 - Sentinel-2, Alos-2 Palsar-2 and Landsat Canopy Cover %
 - Mozambique NFI AGB estimates as training/validation data
- Wageningen
 - Using NFI plot data and ESA CCI Biomass maps
 - Model-assisted estimates aligned well with field-based estimates

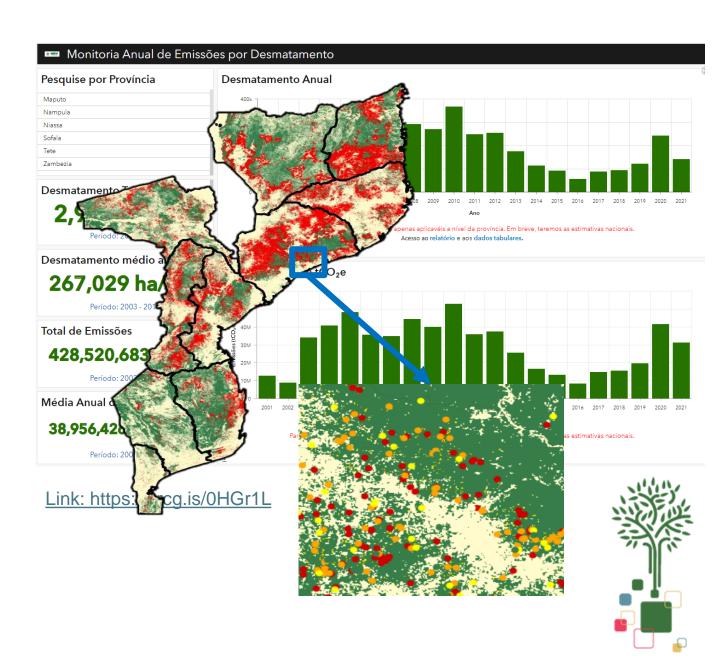




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Annual deforestation monitoring

- 2017 present
- Produces annual estimates of deforestation
- Used in:
 - FCPF ER Program Monitoring
 - ERs in landscape projects
 - Emission estimates at national, provincial and district level



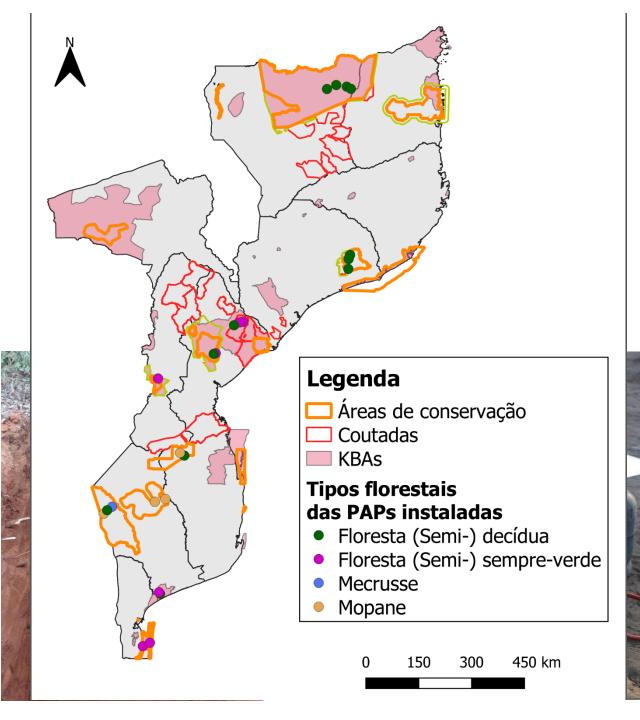
Permanent Sampling Plots



Link: https://bit.ly/localizacaoPAPsMOZ

Global Forest
Observations Initiative

Mozambique



Participatory MRV

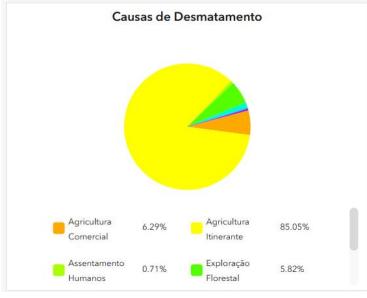


Pontos Verificados

1,353











Challenges & Emerging Needs



Challenges

- Rising deforestation in the country
 - Shifting agriculture
 - Population growth
 - Lack of technical assistance to farmers
- Consider long-term access when determining EO data sources
- Maintaining technical capacity and gradual improvements to NFMS



Emerging needs

- Development of locally calibrated national biomass map
- Monitoring of emissions from burned areas
- Continuous monitoring and expansion of permanent sampling plot network



Future Priorities & Recommendations



Future priorities

- FREL Update
- 5th NFI
- Mangrove monitoring subsystem



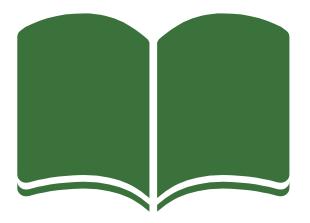
Recommendations

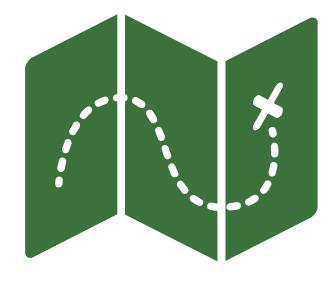
To Countries:

 Establish national MRV teams, ensure continuity

To GFOI:

- Guidelines for estimation of emissions from fires
 - Area estimation
- How to integrate forest degradation data from different sources
 - Partial deforestation, fires, timber extraction









Thank you

Muri Soares, MRV Unit

