



Ministry of Climate Change



# REDD+ Readiness (R-Package) PAKISTAN

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Ministry of Climate Change  
Government of Pakistan

# Outline of the Presentation

- Forestry Context of Pakistan
- REDD+ Readiness Assessment
- Documentary in National REDD+ Context
- Key Lessons from Readiness Process
- Component-wise Readiness Assessment
- Future Improvement Plan

# Forestry in Pakistan

# Forestry Sector in Pakistan

Forest Area  
= 4.78 M ha

68% rural  
population  
dependent on  
firewood.

0.41%  
contribution  
to GDP]

0.6 m  
employed in  
forestry

0.1 m  
associated  
with fuelwood  
collection and  
marketing

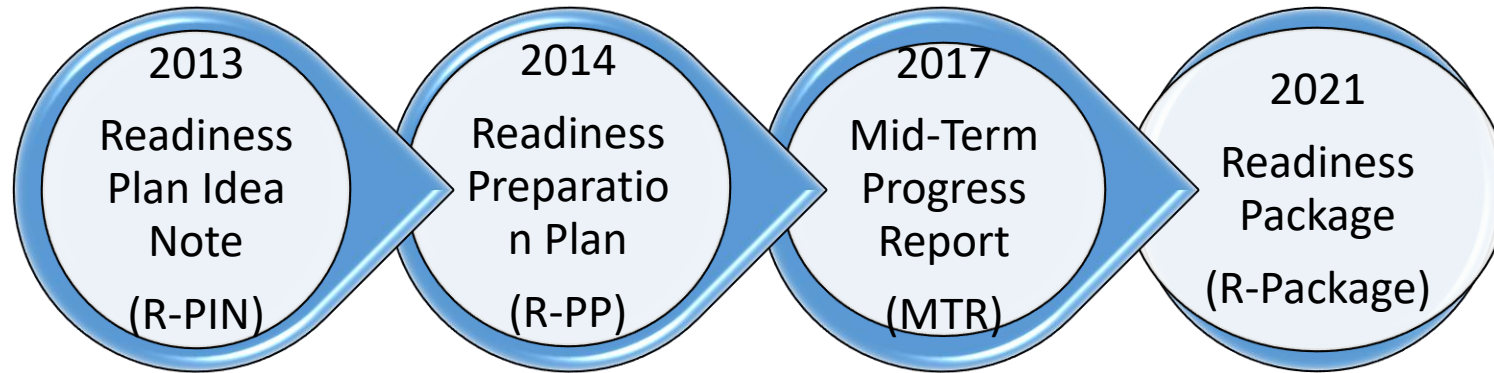
Wood demand  
is 40.93 m.m<sup>3</sup>  
(6.06 m.m<sup>3</sup> of  
timber and  
34.87 m.m<sup>3</sup> of  
fuelwood)

Forestry  
emissions  
are 10.39 MT  
CO<sub>2</sub> in 2015,  
projected to  
reach 29 MT  
CO<sub>2</sub> by 2030

- National Forest Policy 2017:
  - Promote tree cover
  - Maintenance of existing forests

# REDD+ Readiness Pakistan

# Evolution of Readiness Activities in Pak



## National Development Strategies and National Communications

2012	2014	2016	2018	2020	2021
National Climate Change Policy	Pakistan Development Vision 2025	INDC	Second National Communication	FREL	<ul style="list-style-type: none"> <li>▪ National REDD+ Strategy</li> <li>▪ Updated NDCs</li> </ul>

Initial FCPF Grant	USD 3.80 million
Addl: FCPF Grant	<u>USD 4.014 million</u>
<b>Total</b>	<b>USD 7.814 million</b>

# REDD+ Readiness Assessment Process

- FCPF Assessment Framework adopted
- Literature review
- Multistakeholder consultations in all provinces
- Key informant interviews
- National validation workshop
- Completeness check undertaken by FCPF Secretariat
- Presentation of PC for endorsement

# Multi-Stakeholder Self Assessment Process (Provincial Workshops)



*Azad Jammu & Kashmir*



*Gilgit Baltistan*



*Khyber Pakhtunkhwa*



*Punjab*



*Sindh*



*Balochistan*



# Consultations with Communities, Women representatives, CSOs



*FGD with forest communities at AJK*



*Women Group at Khyber Pakhtunkhwa*



*FGD with SAFI (CSO)*



*FGD with communities in Balochistan*

# National Validation Workshop



# REDD+ Readiness Assessment (Results)

# Short Documentary in National REDD+ Context



# Overall Readiness Assessment

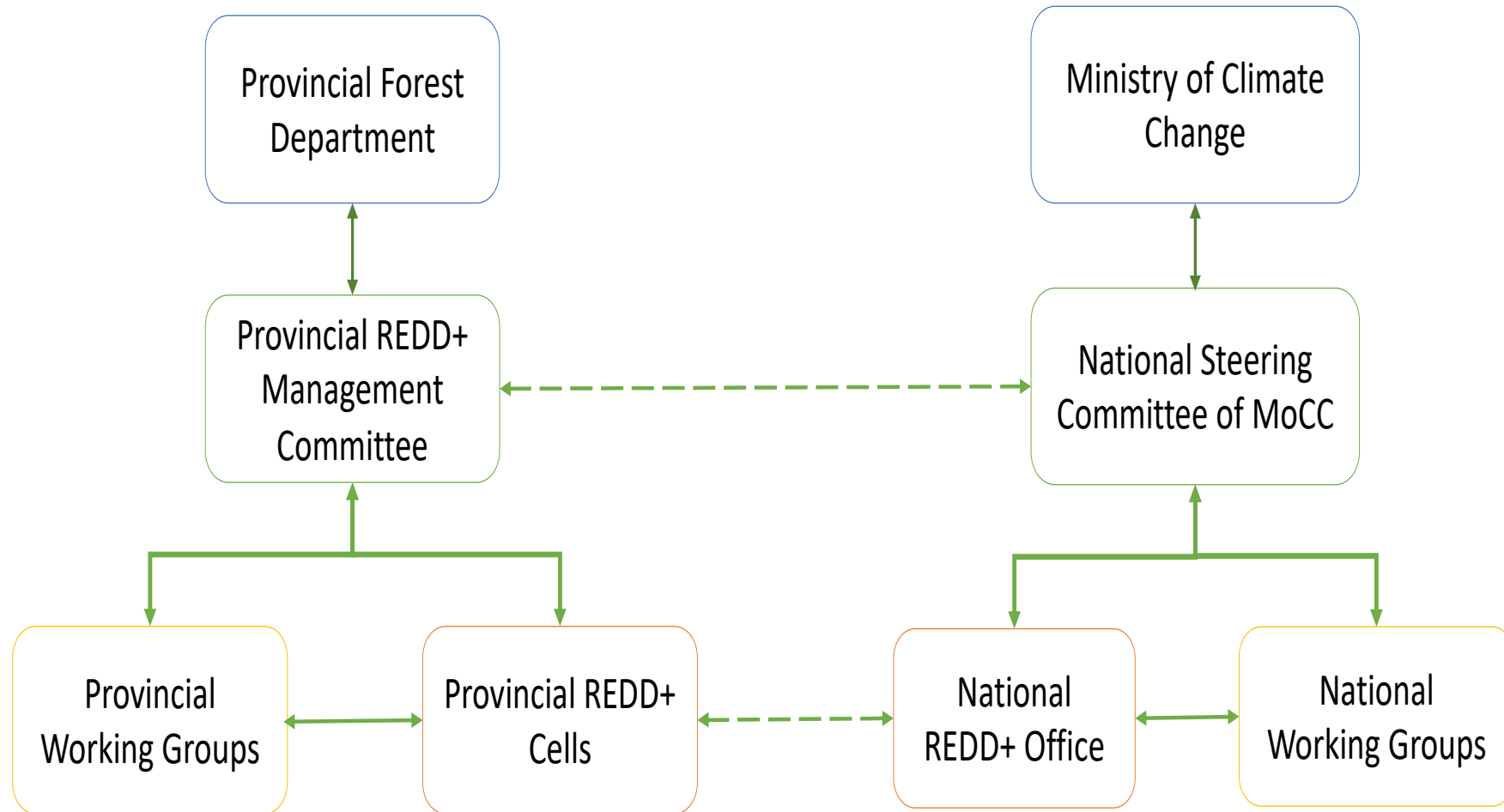
Components	Green	Yellow	Orange	REDD	Total
Component 1: Readiness Organisation and Consultation	8	2	0	0	10
Component 2: REDD+ Strategy Preparation	11	3	1	0	15
Component 3: Forest Reference Emission Levels	2	1	0	0	3
Component 4: Monitoring Systems for Forests and Safeguards	2	2	2	0	6
Overall	23	8	3	0	34

# Key Lessons Learnt

- Lot of interest generated in federating units, who have initiated development of REDD+ projects (e.g. mangroves).
- IPCC standards adopted in forest monitoring systems
  - Definition of Forests
  - Definition of Degradation
  - Capacities build in SLMS and forest inventory
- UNFCCC compliance requirements for REDD+ completed
- Forest communities are willing to participate, if alternate incentives are provided to support their livelihood needs.
- Several forest restoration initiatives undertaken through domestic funds.

**Component 1:  
Readiness organisation and  
consultation**

# Sub-component 1a: National REDD+ management arrangements





## Sub-component 1a: National REDD+ management arrangements

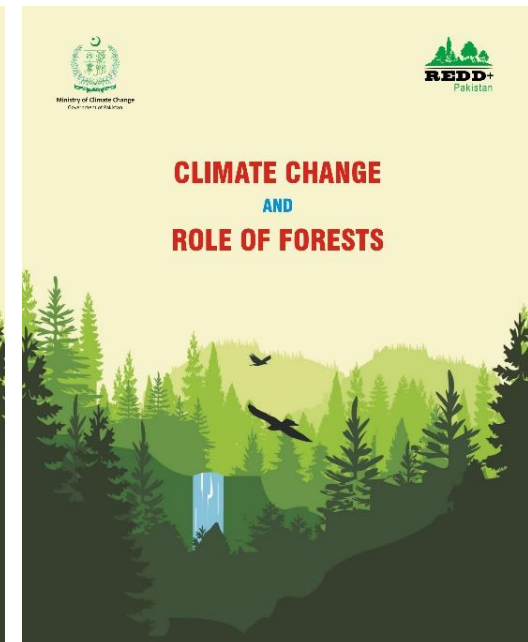
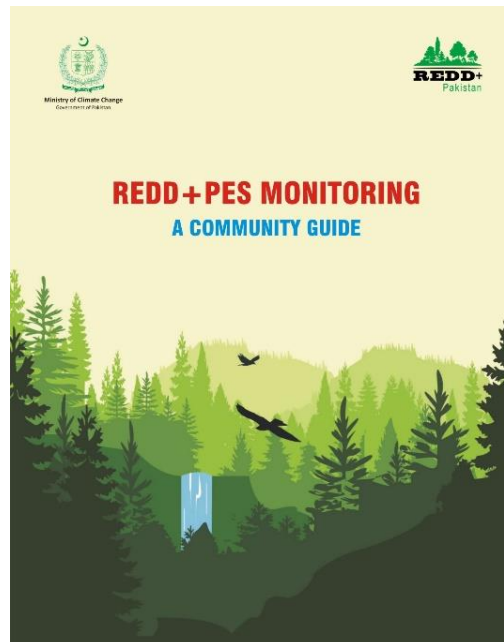
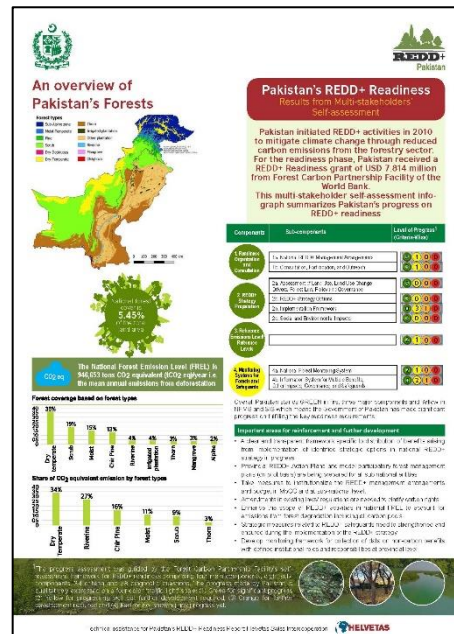
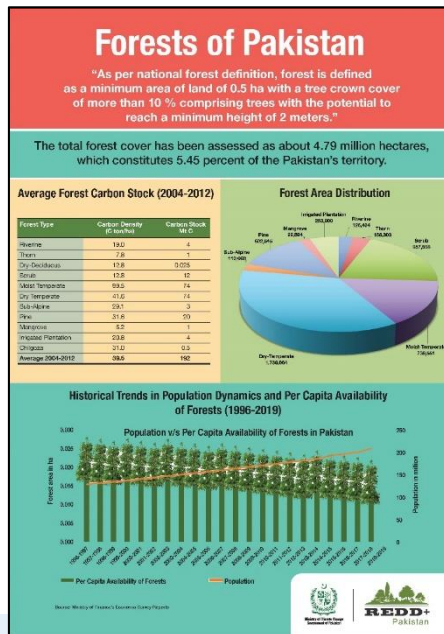
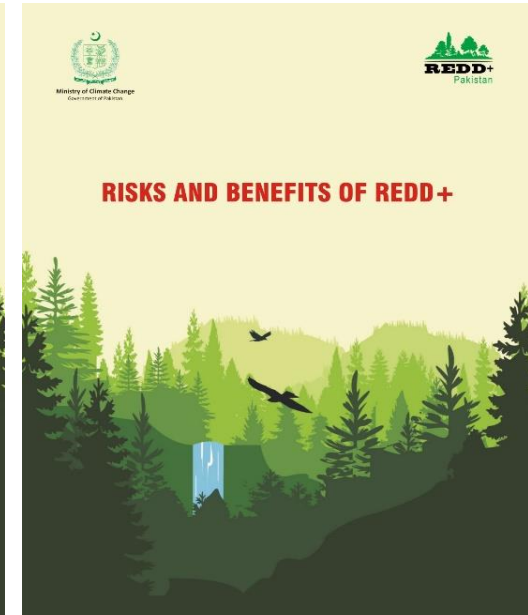
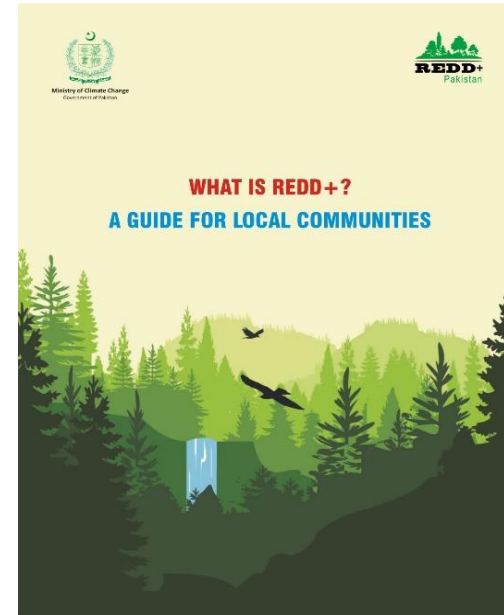
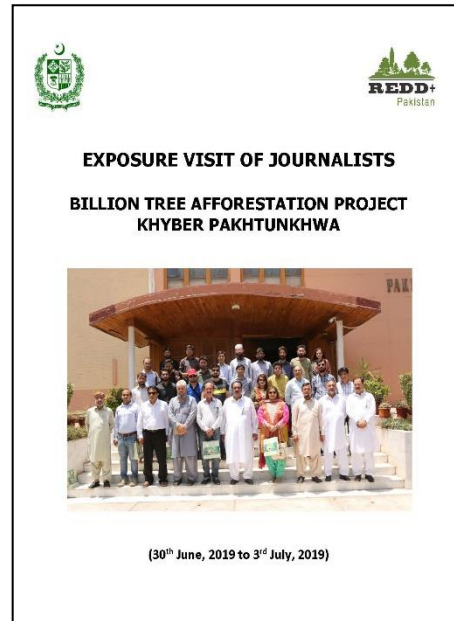
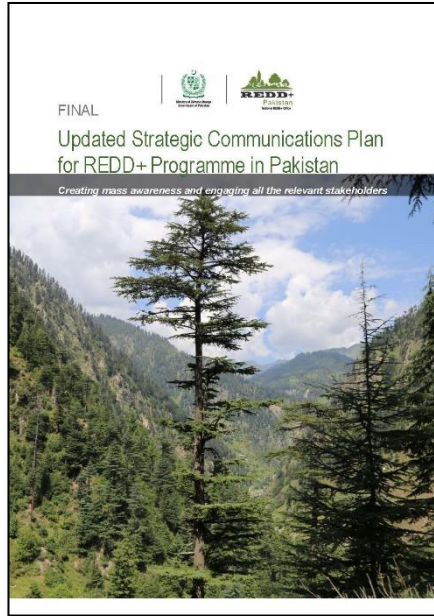
Criteria	Participatory Ranking
1. Accountability and Transparency	
2. Operating Mandate and Budget	
3. Multi-sector Coordination Mechanism and Cross-sector Collaboration	
4. Technical Supervision Capacity	
5. Funds Management Capacity	
6. Feedback Grievance and Redressal Mechanism	

Areas of Improvement
<ul style="list-style-type: none"> <li>■ FGRM not fully operational</li> <li>■ Women representation in WGs and PRMCs low</li> <li>■ Permanent REDD+ Offices</li> </ul>

## Sub-component 1b: Consultation, participation and outreach

Areas of Training / Seminars / Awareness Raising Events	# of Events	Participants		
		M	F	Total
Thematic Trainings (Satellite and Field based Forest Inventory, Monitoring, Safeguards etc.)	22	563	113	676
Awareness Raising (Sessions for communities, forest officials, students, journalists, women groups, private sector and parliamentarian)	61	1900	310	2210
Exposure visits of Forest Officers and Journalists	2	70	15	85
Meetings of National Steering Committee, REDD+ Working Groups and Provincial Mgt. Cs.	33	803	57	860
REDD+ Internship Program	2	31	29	60
<b><u>Grand Total</u></b>	<b><u>120</u></b>	<b><u>3367</u></b>	<b><u>524</u></b>	<b><u>3891</u></b>




# Knowledge Products on REDD+



## REDD+ Documentaries



## Social/digital Media Platforms

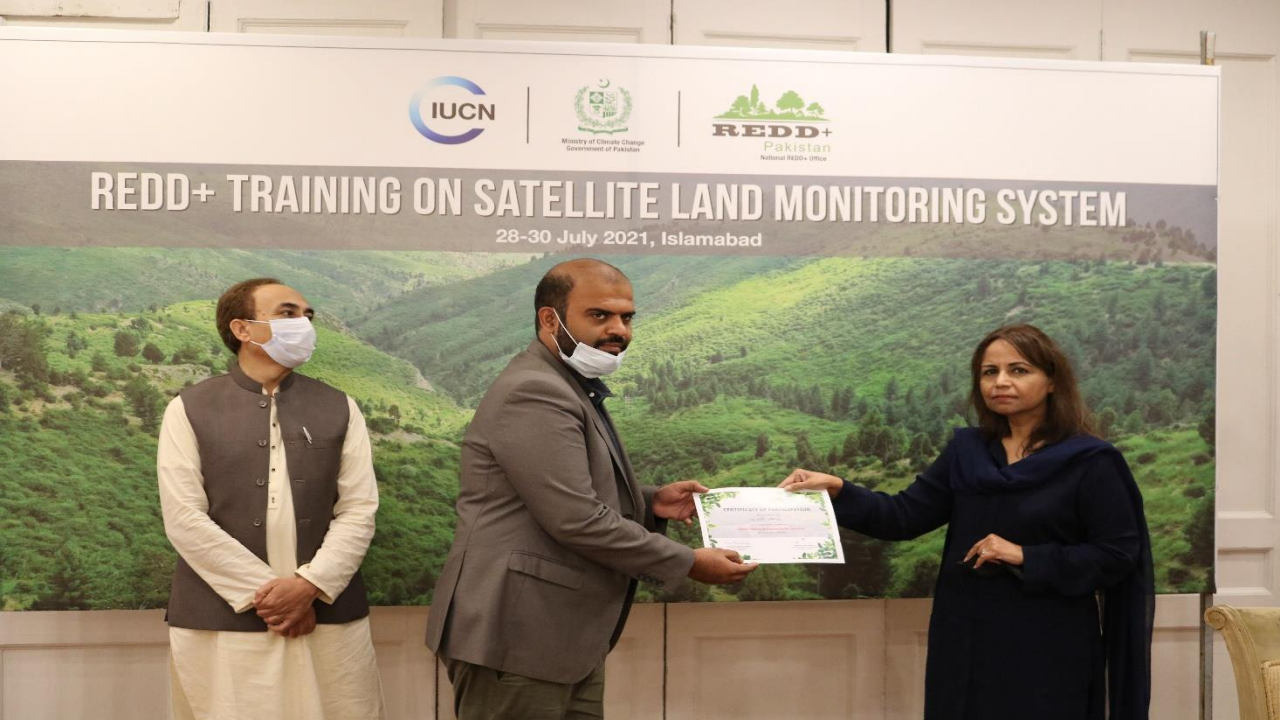
Social Media	Group Name	Link
	Friends of Forests PK	<a href="https://twitter.com/FOForestPK">https://twitter.com/FOForestPK</a>
	Friends of Forests (FOF)	<a href="https://www.facebook.com/groups/1630906273591789/">https://www.facebook.com/groups/1630906273591789/</a>
	Friends of Forests Pak	Created by Digital Campaign and Communication Officer.

## Project Websites

[www.redd-pakistan.org](http://www.redd-pakistan.org)

[www.reddpakistan.org](http://www.reddpakistan.org)

[www.nfm.pak.org](http://www.nfm.pak.org)





## Sub-component 1b: Consultation, participation and outreach

Criteria	Participatory Ranking
7. Participation and Engagement of Key Stakeholders	Green
8. Consultation Processes	Green
9. Information Sharing and Accessibility of Information	Green
10. Implementation and public disclosure of consultation outcomes	Yellow

Areas of Improvement
<ul style="list-style-type: none"> <li>• Enhance outreach at community level</li> <li>• Extension material in regional languages</li> <li>• Enhance awareness among local communities</li> </ul>

# **Component 2: REDD+ Strategy Preparation**



# National REDD+ Strategy

## National Vision for REDD+

“Forests in Pakistan provide ecosystem services and livelihood support on a sustainable basis”

## Guiding Principles for REDD+

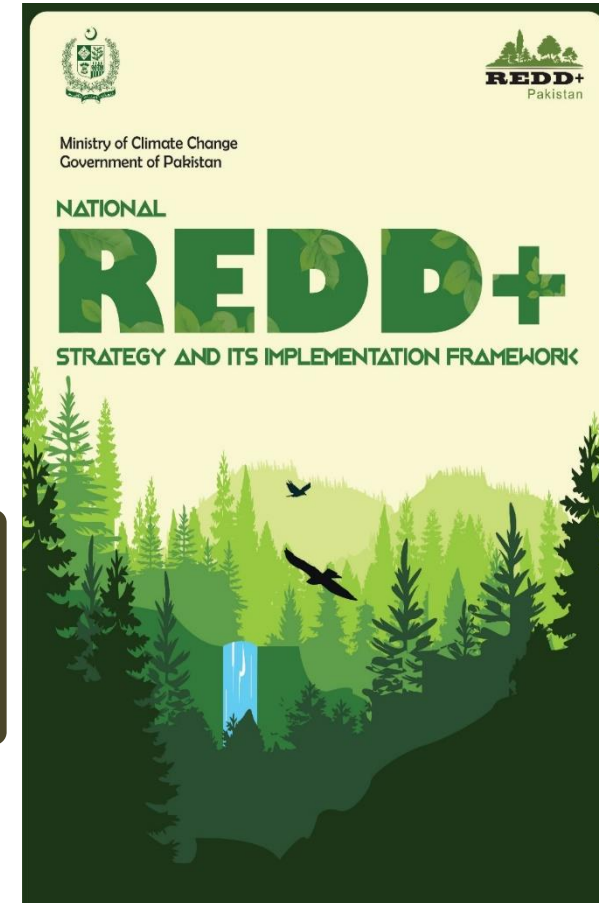
Legal, Institutional  
and Policy  
Foundation

Vision

Strategic Objectives

Strategy Options

Roadmap for  
Implementation



# PRIORITISED DRIVERS OF DEFORESTATION AND FOREST DEGRADATION

Direct Drivers

1. Commercial Agriculture

2. Infrastructure Development

3. Encroachments

4. Surface Mining

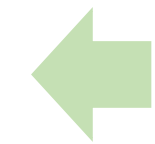
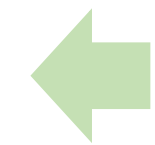
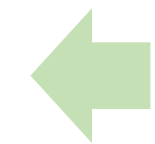
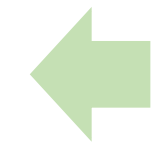
5. Unsustainable Timber Extraction



DEFORESTATION



DEGRADATION



1. Unsustainable Wood Extraction

2. Small-scale Agriculture

3. Overgrazing

4. Forest Fires

5. Water Scarcity (Riverine&mangrove)

## Strategic Objectives

Reducing GHG Emissions & Enhance carbon stocks

Sustainable Livelihoods

Sustainable Ecosystem Services

Institutional, legal, and economic conditions

Awareness & Capacity building

# Sub-component 2b: REDD+ Strategy options

## Strategic Options

Restoration, Reforestation and afforestation

Sustainable Forest Management

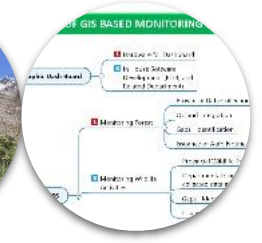
Payment for Ecosystem Services

Introduction of efficient alternative energy sources

Sustainable Tourism and Ecotourism



On-going Actions



❖ Billion Tree Afforestation Project (1.2 Billion planted)

❖ Ten Billion Tree Tsunami Programme (3.29 Billion plants until 2023)

❖ Mangrove Restoration (300% increase in area)

❖ Ecosystem Restoration Initiative

❖ Sustainable Land Management Program

❖ SFM – Improve mgt of High Value Forests

# Roadmap: Key Policy and Measures

Development of Provincial REDD+ Action Plans

Strengthen REDD+ capacities and awareness

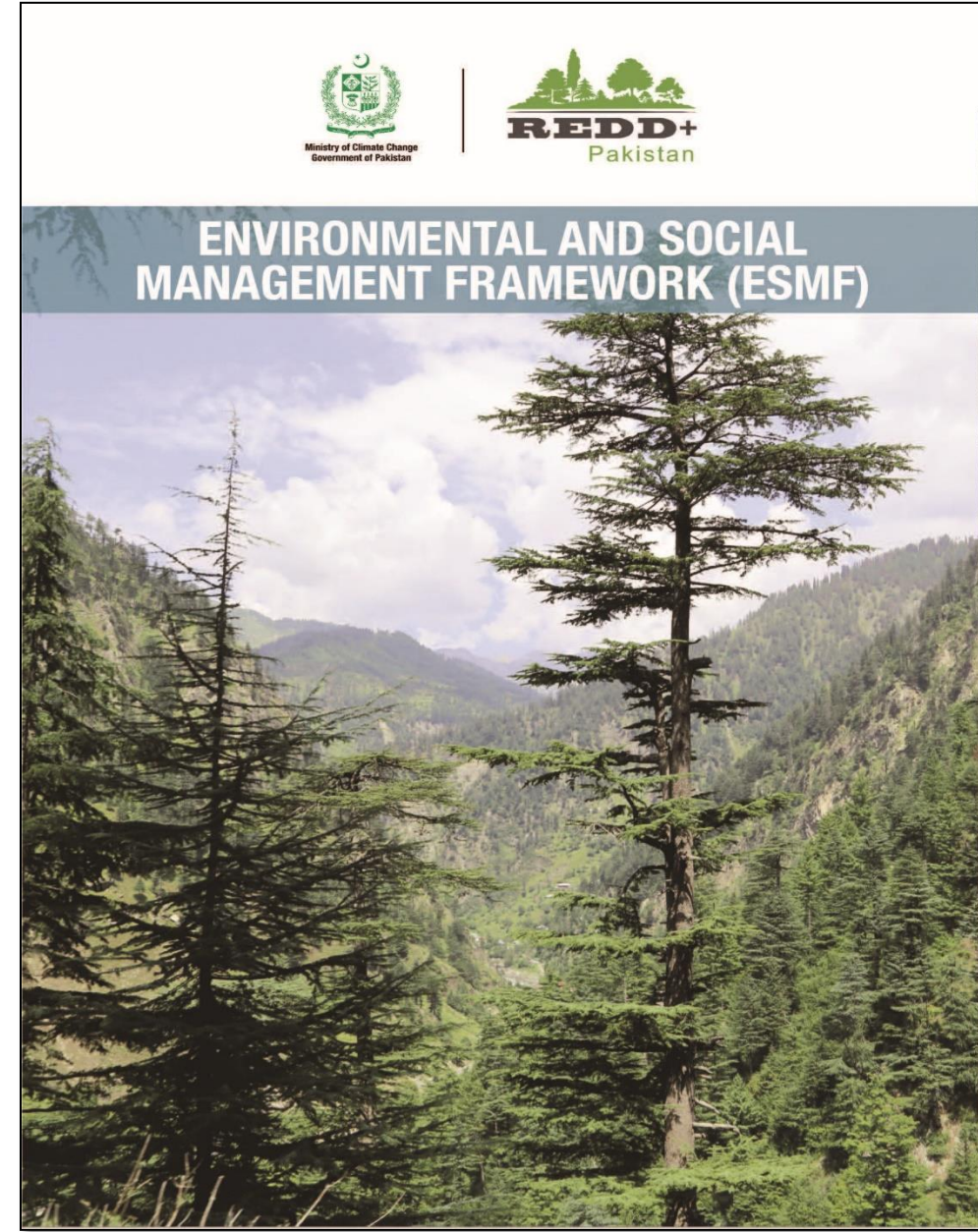
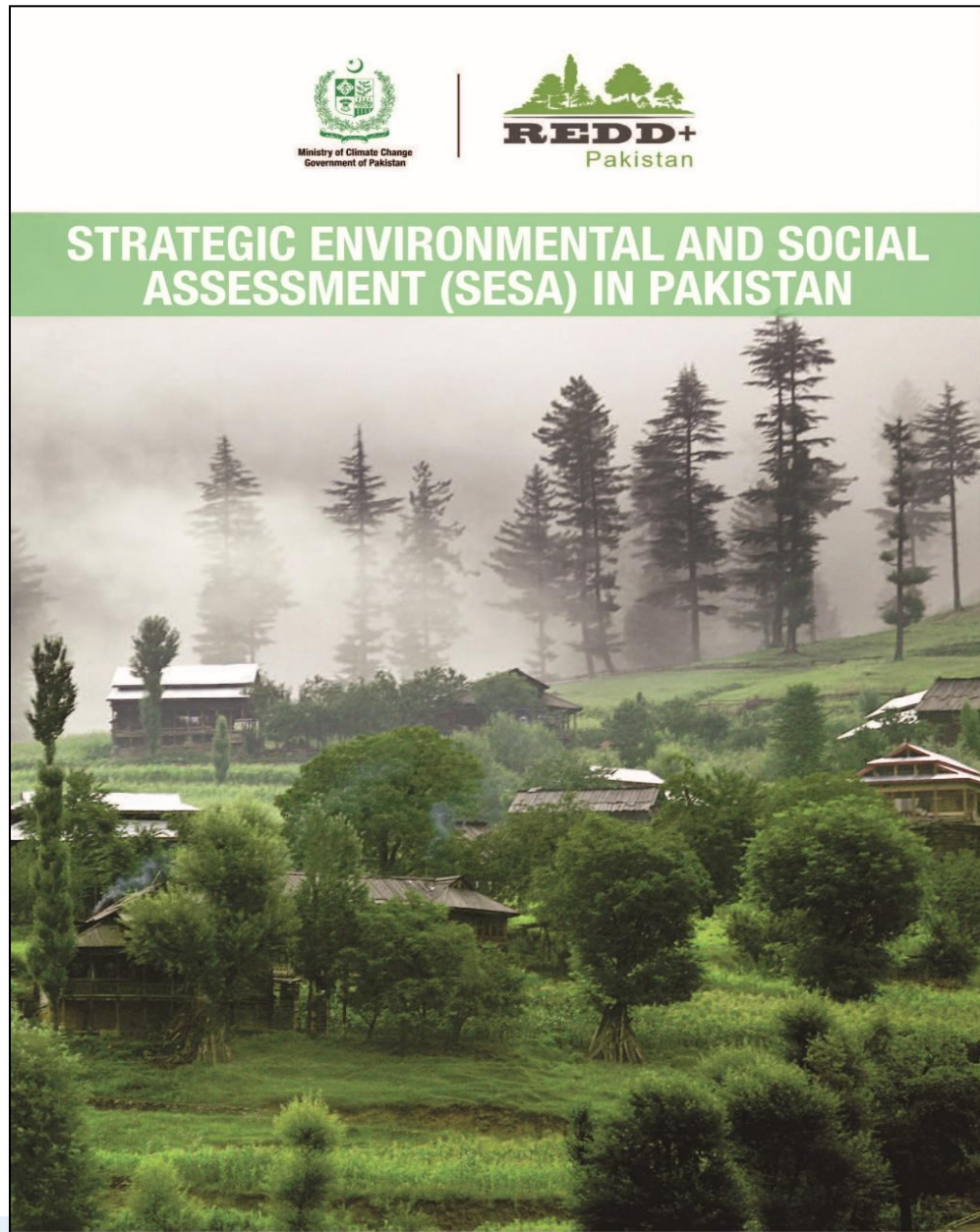
Strengthening policies, laws and regulations

Addressing/resolving land tenure conflicts

Strengthen National and Subnational monitoring systems for forests and safeguards

Strengthen Cross-Sectoral Coordination

# Sub-component 2d: Social and environmental impacts



# Subcomponent 2a: Evaluating land use, land use change drivers, forest law, policy and governance

## Sub-component 2b: REDD+ Strategy options

Criteria	Participatory Ranking
11. Assessment and analysis	
12. Prioritization of direct and indirect drivers/barriers to forest enhancement	
13. Links between drivers/barriers and REDD+ activities	
14. Action plans to address natural resource rights, land tenure, governance	
15. Implications for forest law and policy	
16. Selection and prioritization of REDD+ strategy options	
17. Feasibility Assessment	
18. Implications of strategy options on existing sectoral policies	

Areas of Improvement
<ul style="list-style-type: none"><li>▪ Spatial assessment of drivers of deforestation</li></ul>
<ul style="list-style-type: none"><li>▪ Develop carbon rights &amp; benefit sharing mechanism</li></ul>

## Subcomponent 2c: Implementation framework

## Sub-component 2d: Social and environmental impacts

RAF Criteria	Participatory Ranking
19. Adoption and Implementation of Legislation/Regulations	Yellow
20. Guidelines for Implementation	Yellow
21. Benefit Sharing Mechanism	Yellow
22. National REDD+ registry and system monitoring REDD+ activities	Orange
23. Analysis of social and environmental safeguard issues	Green
24. REDD+ strategy design with respect to impacts	Green
25. Environmental and Social Management Framework	Green

Areas of Improvement
<ul style="list-style-type: none"> <li>▪ REDD+ actions at provincial levels</li> <li>▪ Develop REDD+ financial modalities</li> <li>▪ National REDD+ Registry made operational</li> </ul>
<ul style="list-style-type: none"> <li>• SESA need to take into account sub-national actions</li> <li>• Gaps identified in existing PLRs that need to be addressed</li> </ul>

**Component 3:  
Reference Emission Level /  
Reference Level**

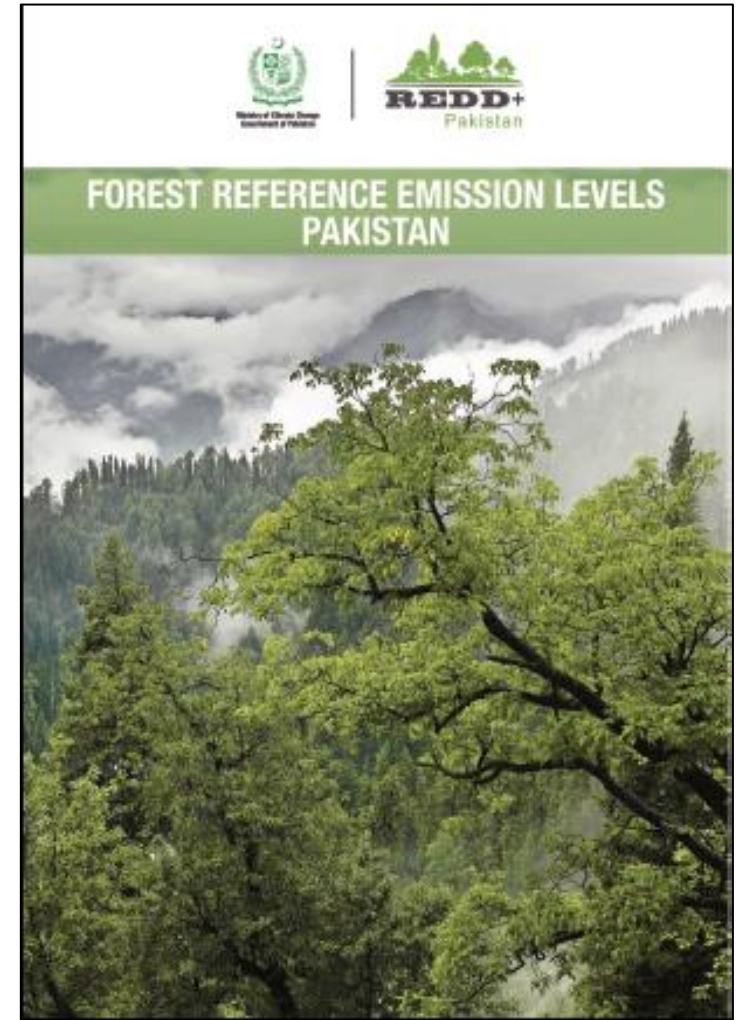


# Forest Reference Emission Levels (FREL / FRL)

- National FREL developed for Deforestation
- Assessed as “transparent, complete and in overall accordance with the guidelines contained in the annex to decision 12/CP.17”
- FREL uploaded at UNFCCC REDD+ Web Platform

## REDD+ WEB PLATFORM

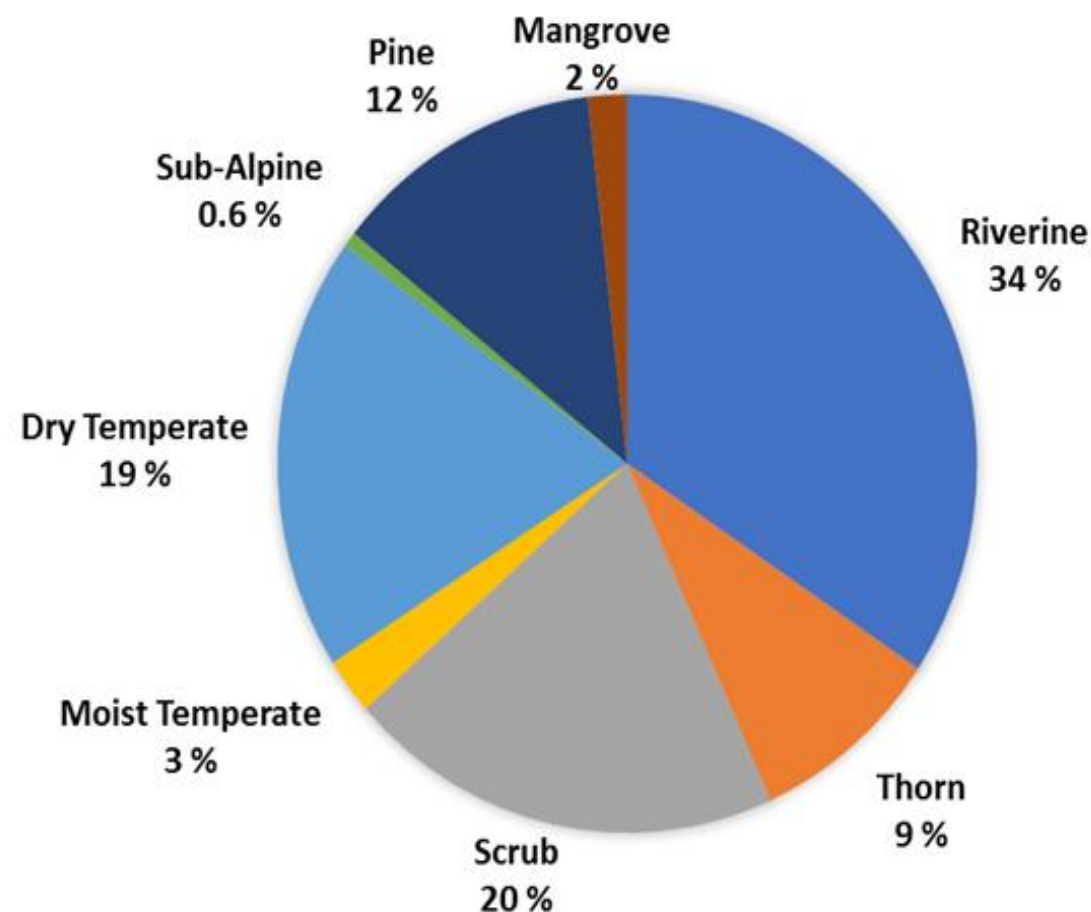
[https://redd.unfccc.int/files/1.unfccc\\_frel\\_pakistan\\_final\\_with\\_proofread\\_final.pdf](https://redd.unfccc.int/files/1.unfccc_frel_pakistan_final_with_proofread_final.pdf)



# Forestry Sector in Pakistan

Total Forest Area	4.78 M ha
Average Annual deforestation	11,000 ha
Annual emissions from deforestation	0.96 Mt CO <sub>2</sub> -e
Total Emissions from LULUCF	10.39 Mt CO <sub>2</sub> -e (Source: SNC)
Mean forest carbon stock	192 Mt

## Deforestation by Forest Types



# Component 3: Reference Emission Level / Reference Level

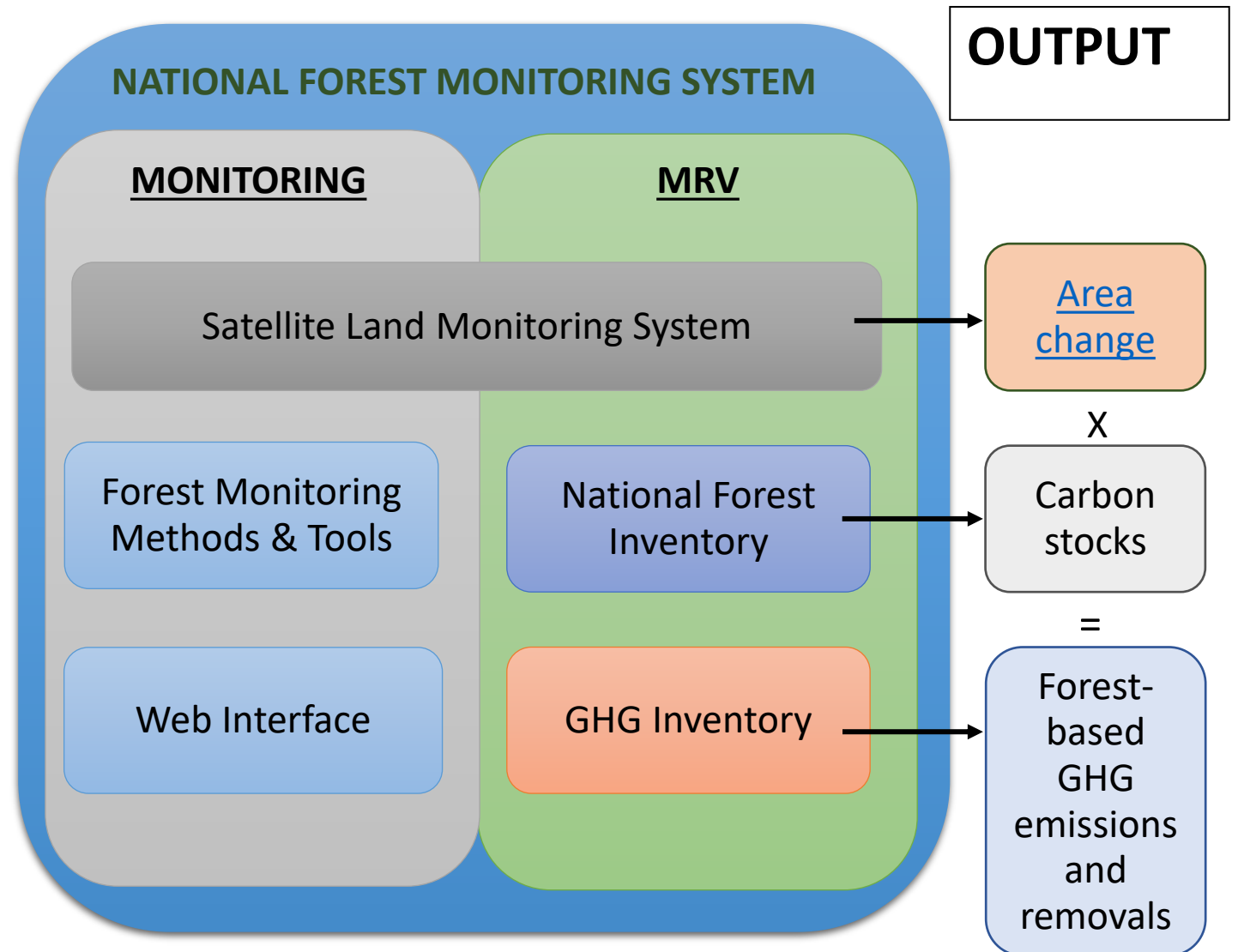
RAF Criteria	Participatory Ranking
26. Demonstration of Methodology	Green
27. Historical use data and adjusted for national circumstances	Yellow
28. Technical Feasibility of the Methodological Approach and consistency with UNFCCC/ IPCC and guidelines	Green

Areas of Improvement
<ul style="list-style-type: none"><li>■ Assess emissions from degradation and removals from enhancement activities</li><li>■ Use approach 3 for historical assessment of AD</li></ul>

# **Component 4: Monitoring Systems for Forests and Safeguards**

# 4. National Forest Monitoring System (NFMS)

- ❖ National definition of forest and degradation notified
- ❖ Monitoring Institutions and roles identified
- ❖ Standards and methodologies:
  - Satellite Land Monitoring System (SLMS)
  - National Forest Inventory
  - National GHG Inventory (Forestry sector)





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## User Manual Training of Trainers

### Green House Gas Inventory (GHG-I)



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## User Manual Training of Trainers

### Satellite Land Monitoring System (SLMS)



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## User Manual Training of Trainers

### National Forest Inventory (NFI)



# Strengthening of National and Sub-National Forest Monitoring Systems



GIS Plotter



Remote Sensing Drone



Laser Vertex



Tree Increment Borer



Handheld GPS



Laptop



Soil Auger



Video Conferencing System



DSLR Camera



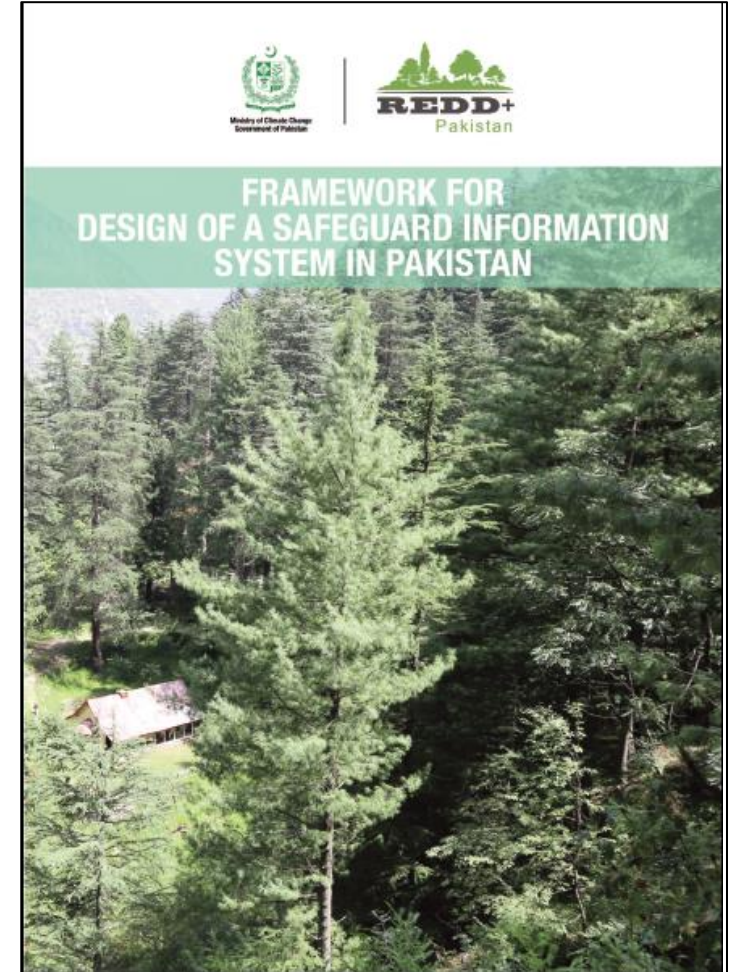
Diameter Measuring tape



Crown densitometer

# Safeguards Information System

- Safeguards Information System and a Feedback & Grievance Redressal Mechanism developed
- SIS web-portal developed (<https://reddpakistansis.com/>)
- <https://www.redd-pakistan.org/wp-content/uploads/2021/08/REDD-FGRM-in-Pakistan-1.pdf>






# NFMS Web Portal Launched (www.nfms.pak.org)


The screenshot shows the homepage of the Pakistan NFMS web portal. The browser address bar displays '192.168.11.203'. The navigation menu includes 'Data', 'Maps', 'REDD+', and 'About'. A search bar is located in the top right corner. The main content area features a large 'Welcome' heading and a paragraph explaining the platform's purpose: 'This is a platform for sharing information, related to Pakistan REDD+ project. Reducing emissions from deforestation and forest degradation (REDD+) is a global initiative to mitigate carbon emissions and to support countries for their efforts in conservation, sustainable management of forests, and enhancement of forest carbon stocks.' A link for 'Have questions?' is provided below the text.

## Discover the available datasets.

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- ENVIRONMENT
- FARMING
- IMAGERY BASE MAPS EARTH COVER
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**11 Maps**  
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**4 Documents**  
[Explore documents »](#)

[Explore all datasets](#)

# Subcomponent: 4a. National Forest Monitoring System

## Subcomponent 4b - Information System for Multiple Benefits, Other Impacts, Governance, and Safeguards

RAF Criteria	Participatory Ranking
29. Documentation for Monitoring Focus	Green
30. Demonstration of early system implementation	Yellow
31. Institutional arrangements and capacities	Green
32. Identification of relevant non-carbon aspects, and social and environmental issues	Yellow
33. Monitoring, reporting and information sharing.	Orange
34. Institutional arrangements and capacities – Multiple benefits and safeguards	Orange

### Areas of Improvement

- Project based inventories
- Define data generation and sharing protocols
- Develop SMART indicators for non-carbon benefits
- Enhance HR capacity and make operational forest monitoring systems

# Future Plan for Improvement

Component 1: Readiness Organisation and Consultation	<ul style="list-style-type: none"><li>▪ Sustainable REDD+ institutions</li><li>▪ FGRM implementation</li><li>▪ Enhance gender integration</li></ul>
Component 2: REDD+ Strategy Preparation	<ul style="list-style-type: none"><li>▪ Legalise carbon rights</li><li>▪ Benefit Sharing Mechanism</li><li>▪ National REDD+ registry</li></ul>
Component 3: Forest Reference Emission Levels	<ul style="list-style-type: none"><li>▪ Improve FREL/FRL using stepwise approach</li><li>▪ Assess forest degradation and enhancement of carbon stock</li></ul>
Component 4: Monitoring Systems for Forests and Safeguards	<ul style="list-style-type: none"><li>▪ Permanent setup and operationalize regular forest inventories</li><li>▪ M&amp;E system for multiple benefits, impacts governance and non carbon benefits</li></ul>

*Thank You*