

# **Climate Change mitigation - Role of forests and tree plantations**

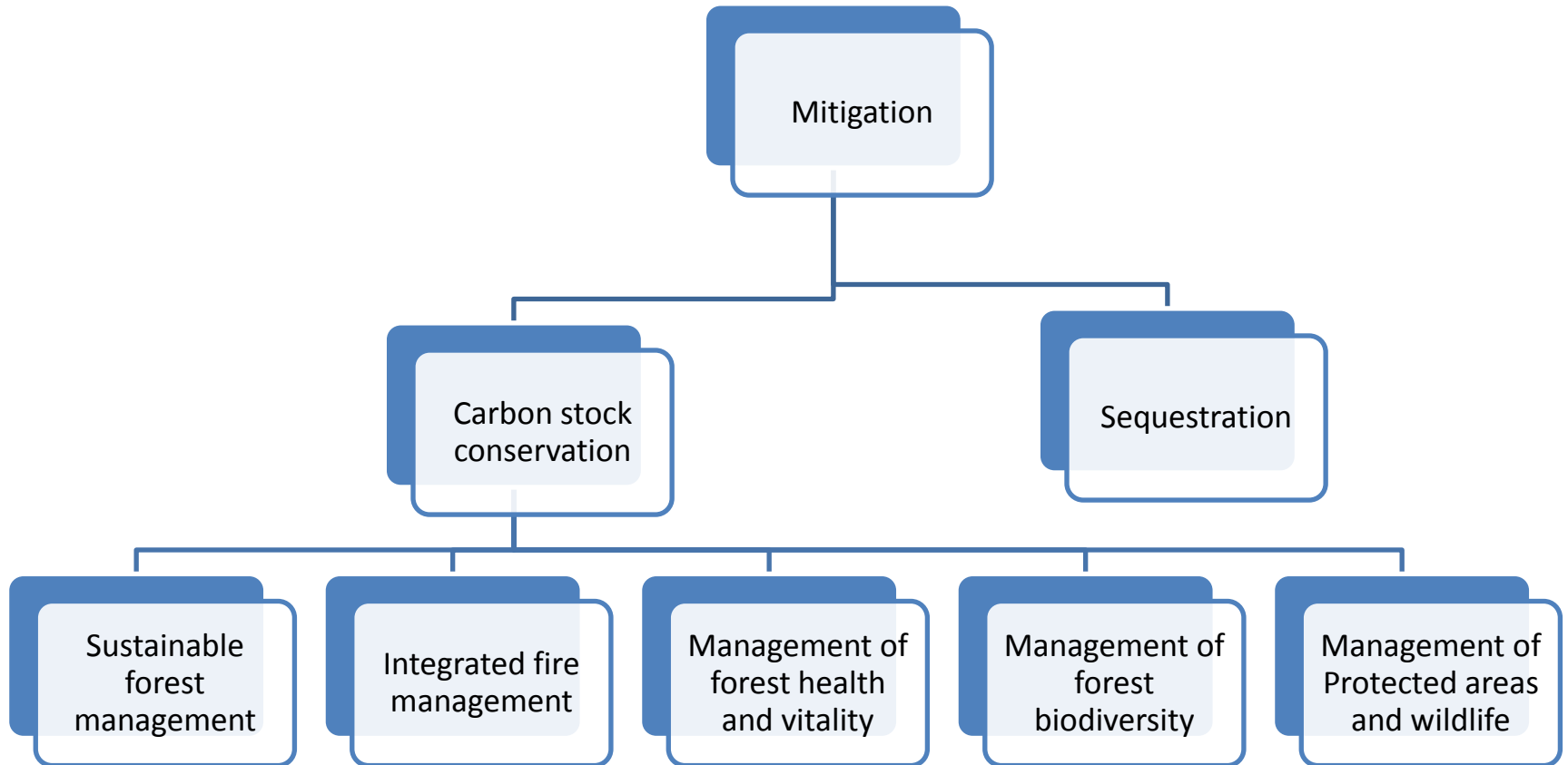
**GROUP-1**

# Dual Role

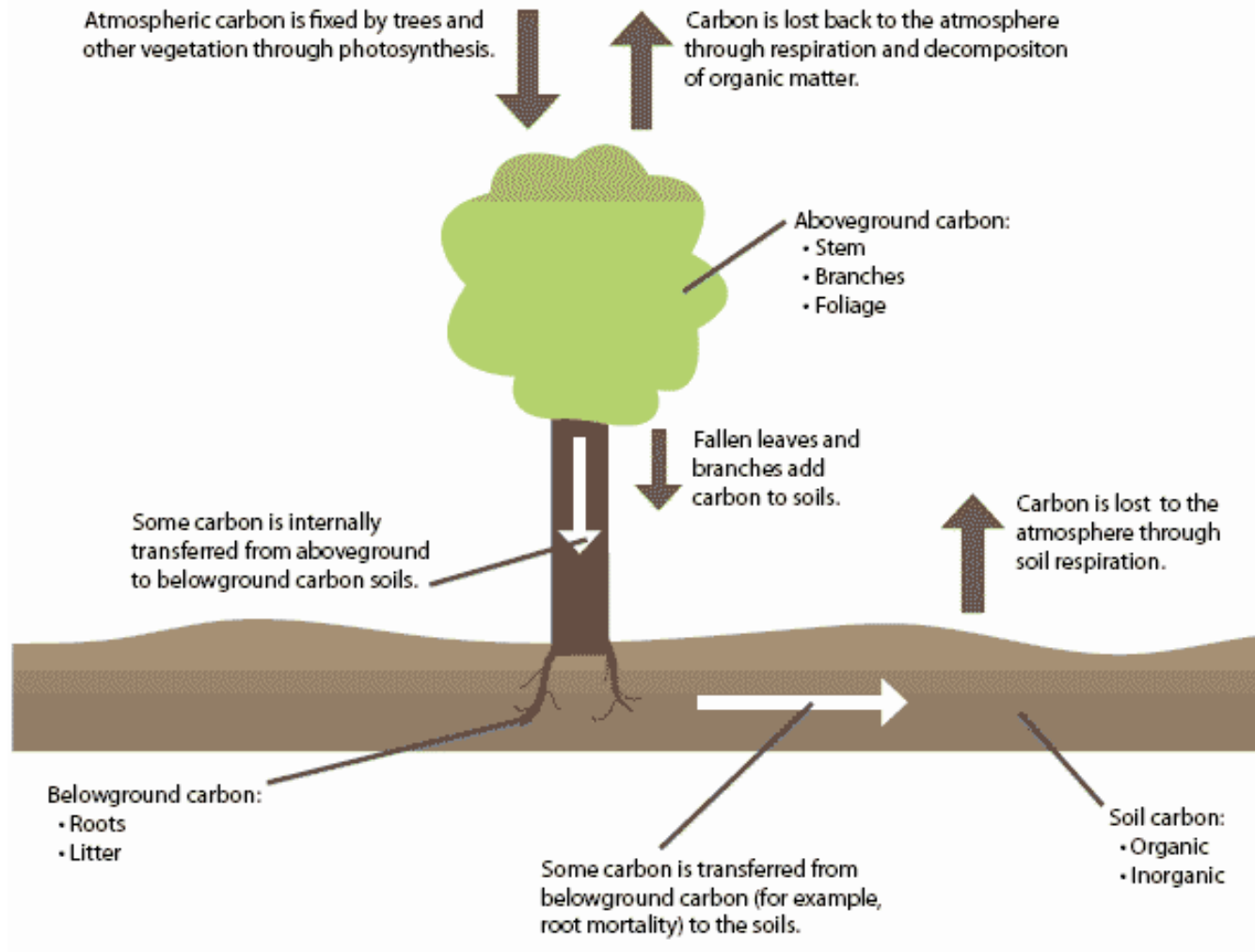


Perfect Vision Graphics 515.232.2093

# Forests - Climate Change Mitigation

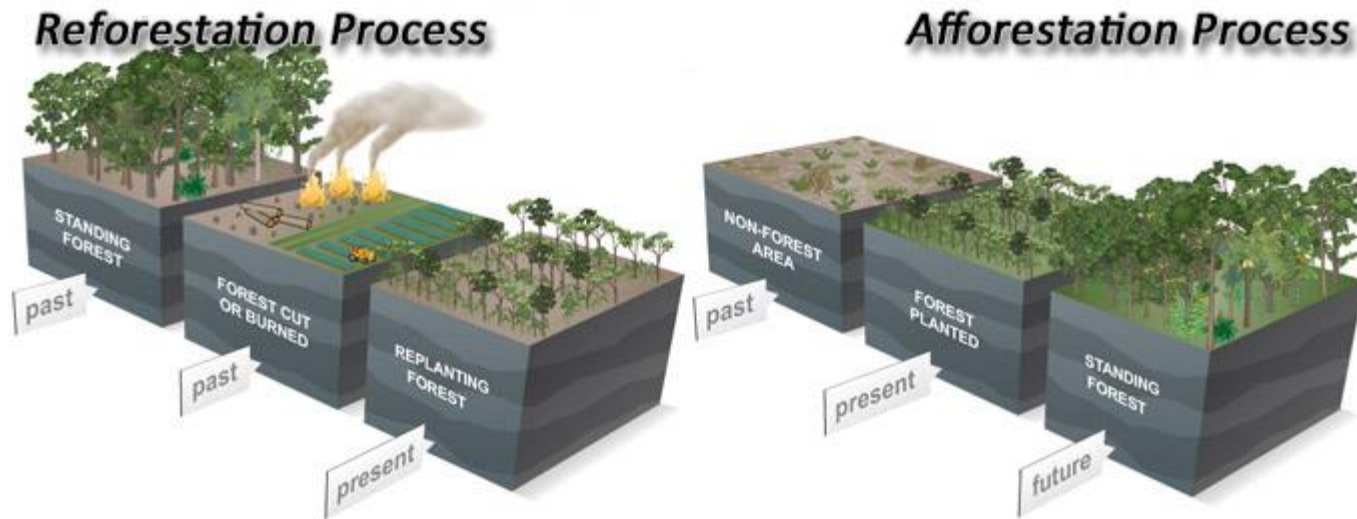


# Carbon Sequestration



# Strategies to Increase Carbon Sequestration

Afforestation, reforestation and forest restoration



# Strategies to Increase Carbon Sequestration

Increase of tree cover through agroforestry, urban forestry and tree planting



# Strategies to Increase Carbon Sequestration

Adoption of better **forest management** practices:

- Silvicultural treatment operation
- Species selection
- Modification of rotation

*How fast a tree can sequester and how long can it retain.....*

# Role of Trees Outside Forests (TOF)

- Storing carbon
- Halting land degradation
- Providing fuel substitute for fossil fuels
- Fixing Nitrogen to reduce the use of fertilizers.





**FORESTS  
MITIGATE**



**FORESTS HAVE  
SOCIOECONOMIC  
DIMENSION**



**FORESTS ARE  
AFFECTED BY  
CLIMATE CHANGE**

# Advantages of Mitigation through Forests

- Natural Process
- Co-Benefits
  - Employment & Income generation opportunities
  - Biodiversity
  - Watershed Conservation
  - Aesthetic & Recreational benefits
  - Products- Timber & Fibers
  - Other Ecosystem functions and services.

# Employment & Income generation opportunities



# Watershed Conservation



# Biodiversity



# Aesthetics and Recreational Benefits



# Products- Timber & Fibers



# Other Ecosystem functions and services

- **Pollination**
- **Bio control**





# Possible Negative Consequences

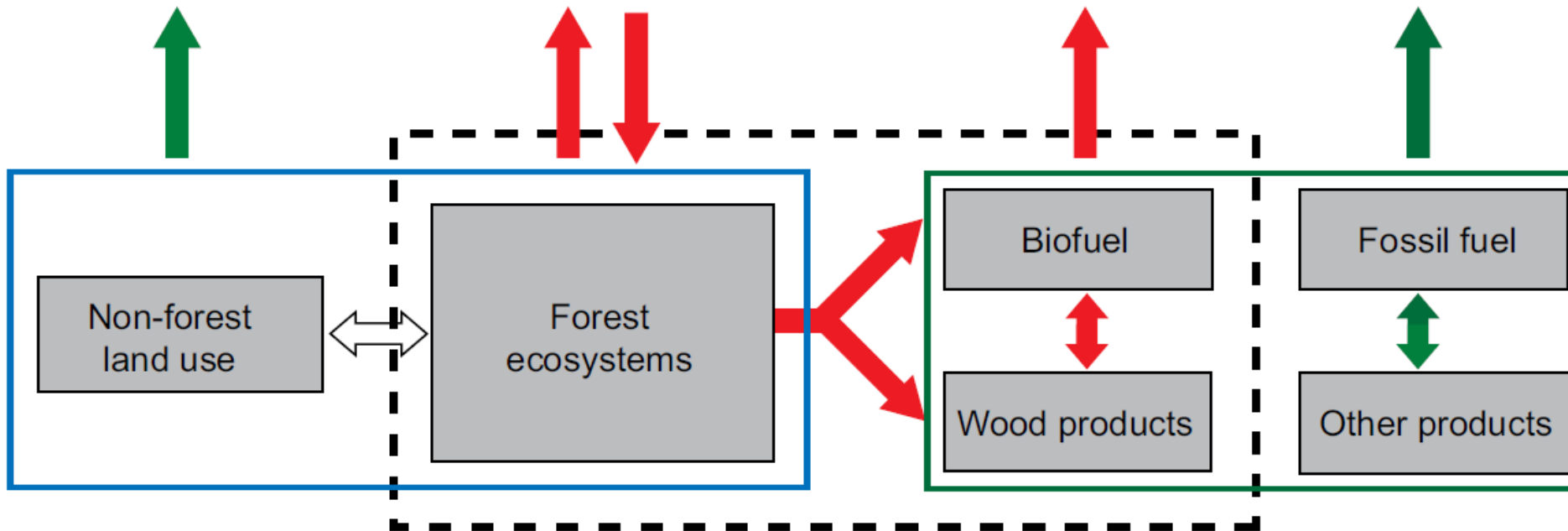
- Forest mitigation activities may alter
  - surface hydrology
  - Albedo

*BUT No conclusive studies.*

# Forest sector mitigation strategies evaluation

Minimise net emissions to the atmosphere

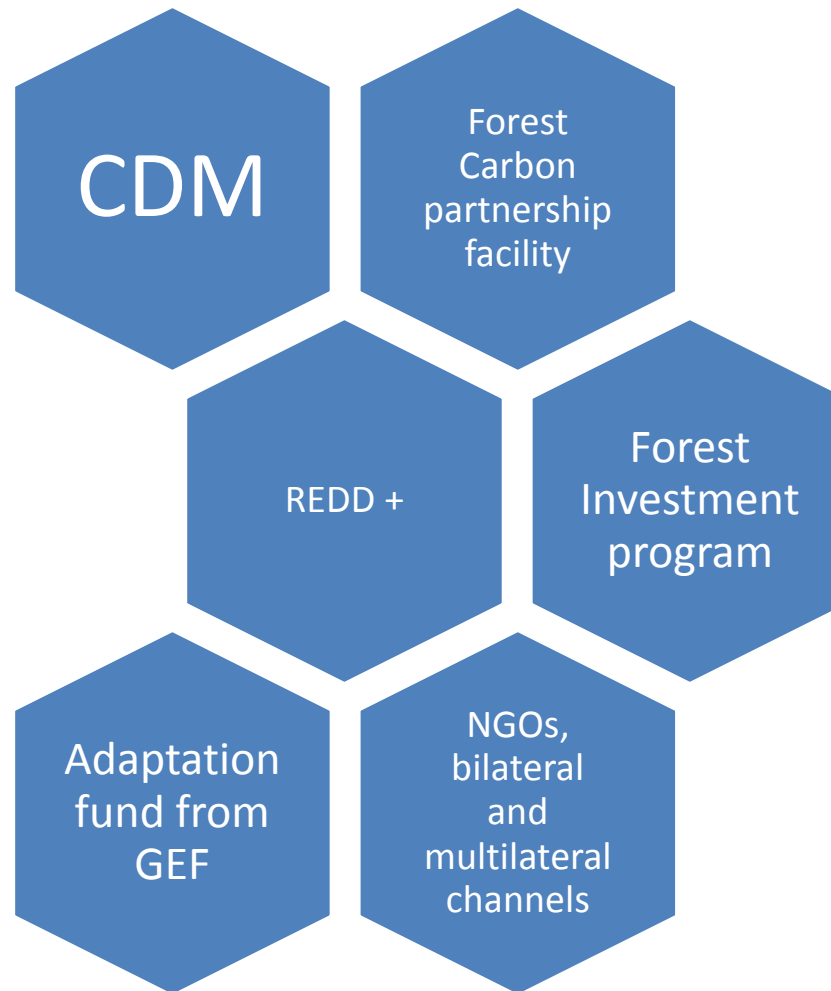
Maximise carbon stocks



***Forest sector mitigation strategies need to be assessed with regard to their impacts on carbon storage in forest ecosystems on sustainable harvest rates and on net GHG emissions across all sectors.***

***Ref: IPCC AR4***

# Financing Mitigation



# Conclusions

## Short term

- Simplified methodologies
- Develop local market
- CSR

## Long term

- Research on the impacts of carbon sequestration through forests over long term

**Thanks for your attention...!!!**



**Any Queries ??**

## About

The Readiness Fund

The Carbon Fund

FCPF Brochure

## Resources

- Download the FCPF Information Card ([English](#), [Español](#))
- Download the FCPF brochure: ([English](#), [Español](#), [Français](#))
- Download the FCPF Introduction ([English](#), [Español](#), [Français](#))

[Home](#) > [About FCPF](#)

## About FCPF

The Forest Carbon Partnership Facility is a global partnership of governments, businesses, civil society, and Indigenous Peoples focused on reducing emissions from deforestation and forest degradation, forest carbon stock conservation, the sustainable management of forests, and the enhancement of forest carbon stocks in developing countries (activities commonly referred to as REDD+).

### The four strategic objectives of the FCPF:

- ▶ To assist countries in their REDD+ efforts by providing them with financial and technical assistance in building their capacity to benefit from possible future systems of positive incentives for REDD+.
- ▶ To pilot a performance-based payment system for REDD+ activities, with a view to ensuring equitable benefit sharing and promoting future large-scale positive incentives for REDD+.
- ▶ Within the approach to REDD+, to test ways to sustain or enhance livelihoods of local communities and to conserve biodiversity.



# Forest Investment Program



*In Mexico, FIP \$18 million is supporting a project to build capacity and develop exclusive lines of financing for community forestry enterprises and ejidos. Photo by Talli Nauman/TRF*

## FIP SEMI-ANNUAL OPERATIONAL REPORT



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