

Comisión Nacional Forestal

Towards REDD+ Implementation in Mexico *Development of National Forest Monitoring System*



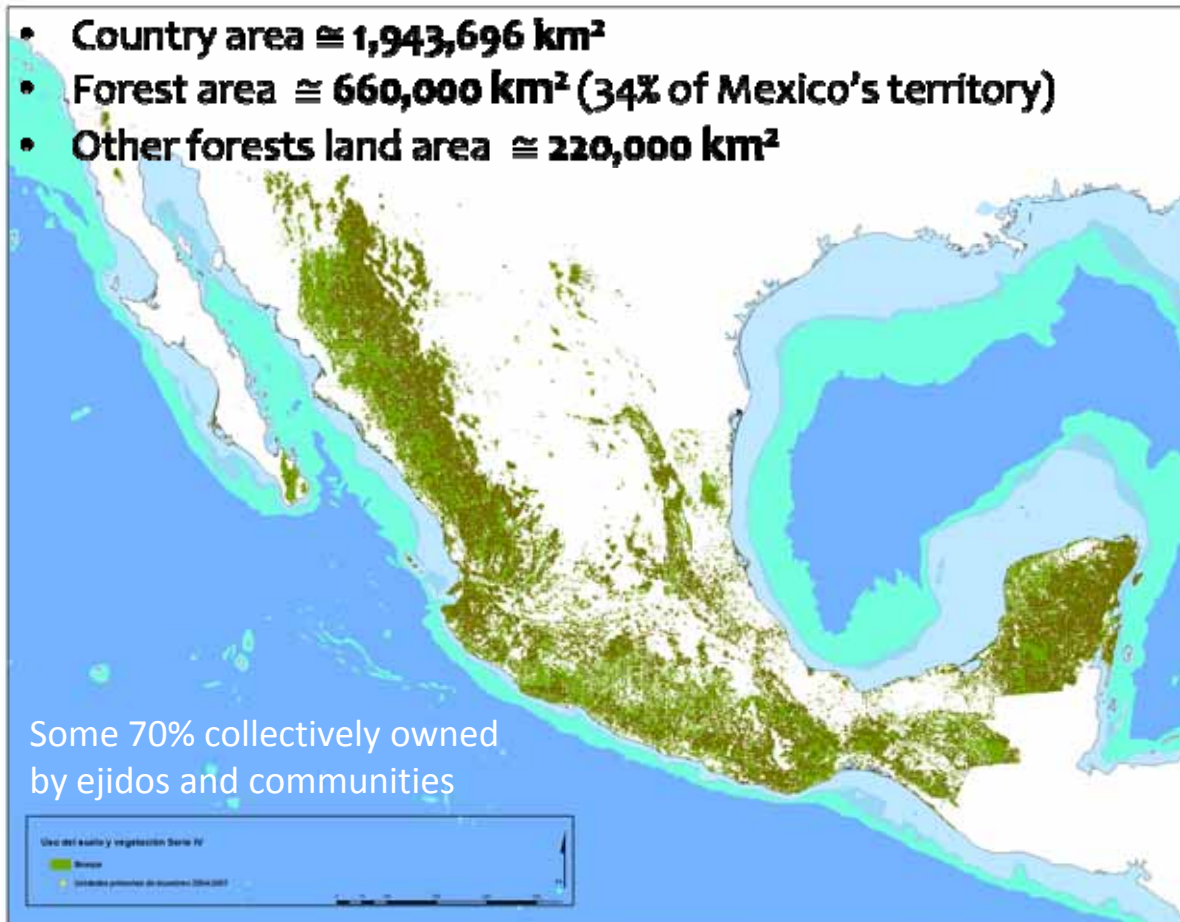
GOBIERNO
FEDERAL

SEMARNAT

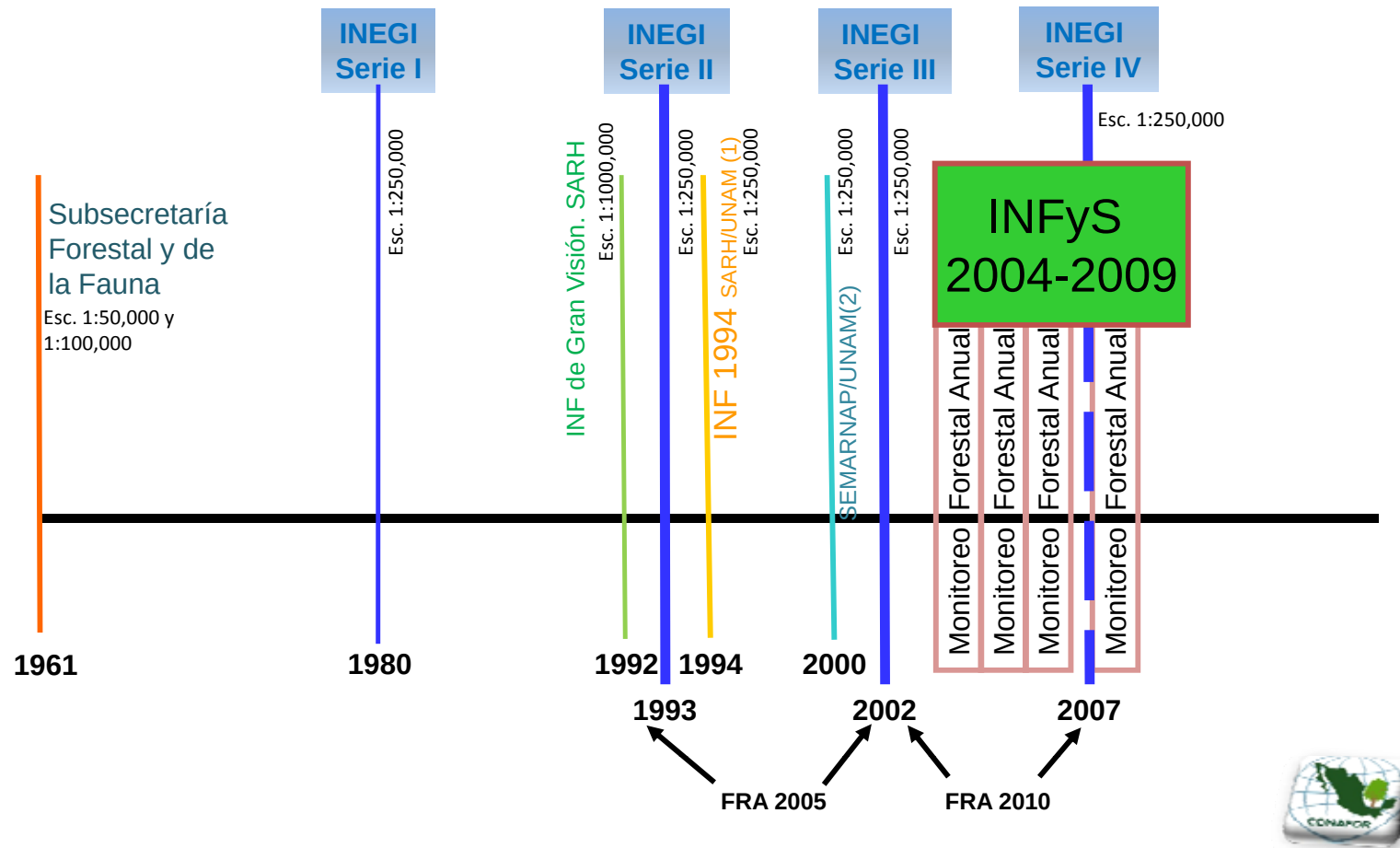
BACKGROUND

- **Country area $\cong 1,943,696 \text{ km}^2$**
- **Forest area $\cong 660,000 \text{ km}^2$ (34% of Mexico's territory)**
- **Other forests land area $\cong 220,000 \text{ km}^2$**

Some 70% collectively owned
by ejidos and communities

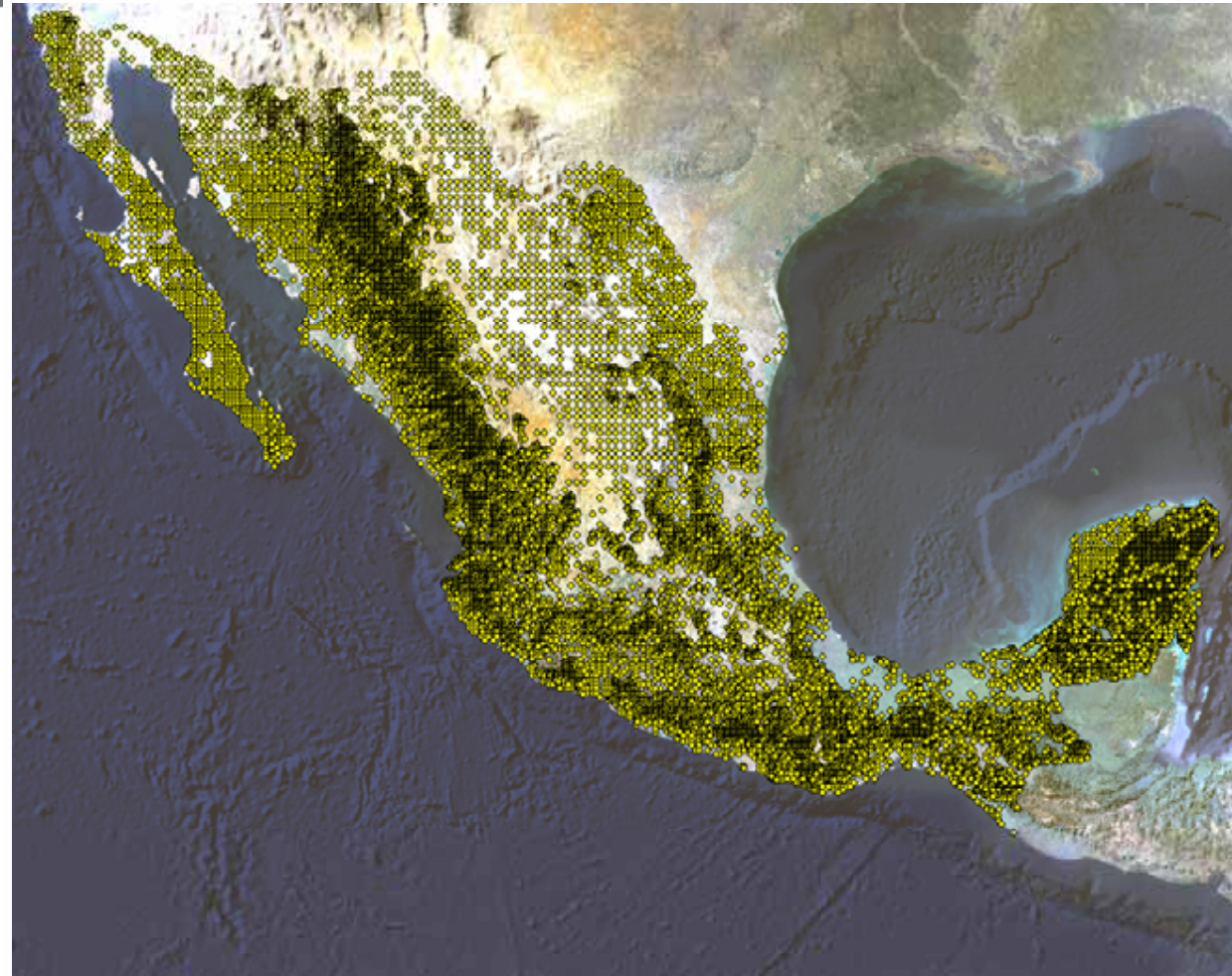


Historical efforts in forest monitoring



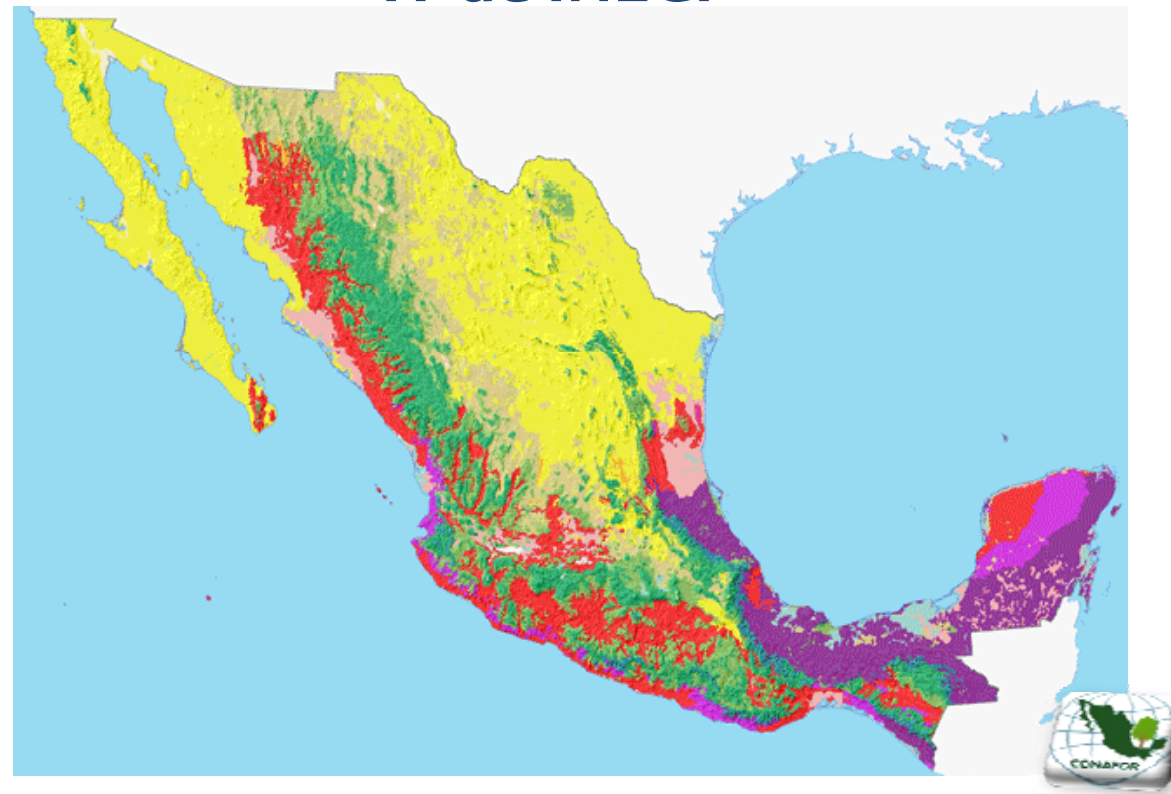
Inventario Nacional Forestal y de Suelos 2004-2009

Permanent Sampling Plots



Inventario Nacional Forestal y de Suelos 2004-2009

Información de Uso del Suelo y Vegetación Serie II, Serie III y Serie IV de INEGI



Policy needs

- Payment for environmental services



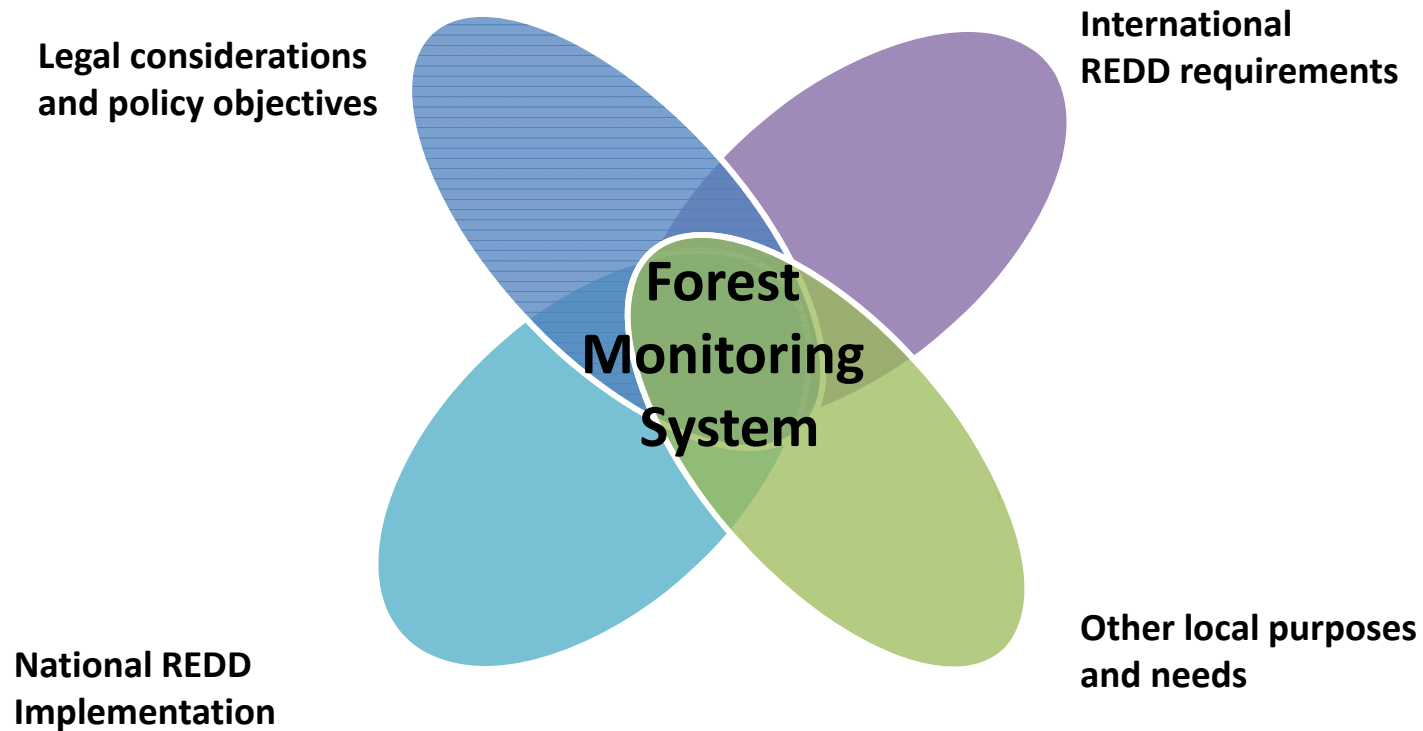
REDD Implementation

- Recognition of spatial diversity in the country
 - Social, biological, economic > drivers of DD & +
- Focus on generic causes & policy enablers
 - Policy coordination efforts (agriculture)
 - Enhance “power” (budget)
 - Information for decision making
 - Capacity building (governance – incl. Communities & Municipalities)
- Compatibility with legal framework (CC)
 - Targets, policy evaluation, adaptation goals, new institutions – registry, 3 years to develop MRV

Implications for MRV design

- Enhance “smarter” policies
 - Assess drivers at relevant scales
 - Inform multiscale interventions
 - Multiple themes
- Become a policy tool
 - Accessibility
- Address “new” issues
 - Degradation in the broad sense
- Contain costs
 - Use existing institutions, combine mandates
 - Step-wise approach

Design elements



ACTIVITY DATA: BASE LINE

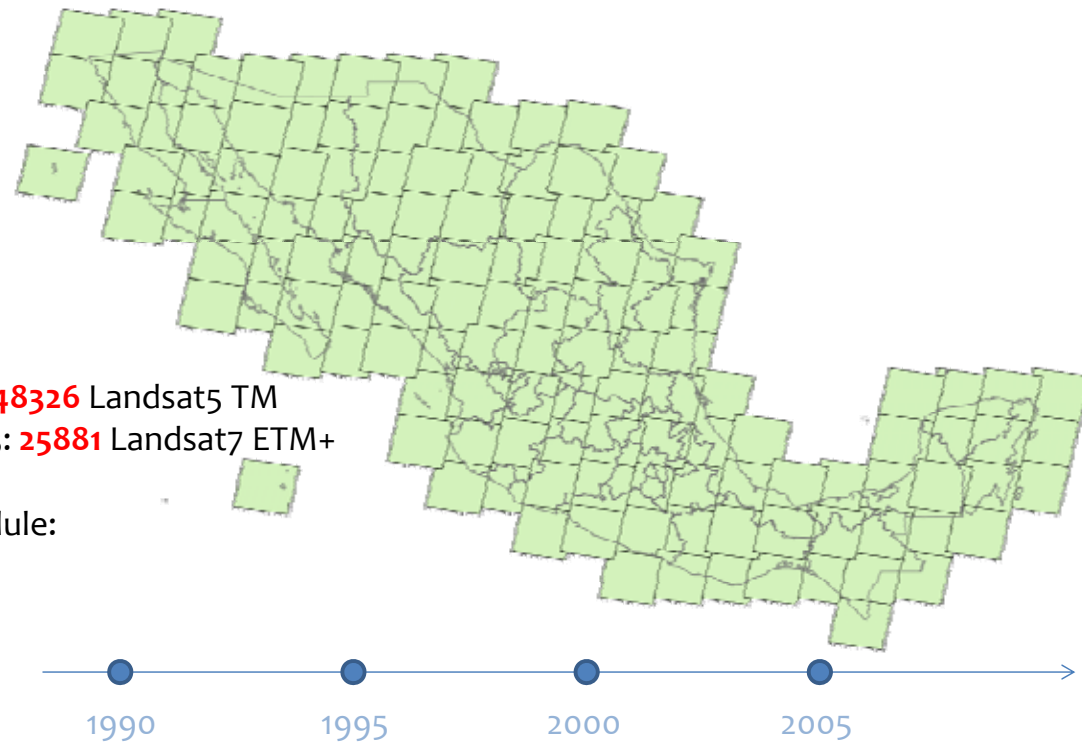
Images needed for 1 full coverage: 135

Images available in USGS:

1982-11-13 - 2011-11-15: **48326** Landsat5 TM
1999-06-30 - 2011-12-13: **25881** Landsat7 ETM+

2012/2013 processing schedule:

1990: 784
1995: 3012
2000: 4206
2005: 4068
8 TB



ACTIVITY DATA: MONITORING 2011-2013, RAPIDEYE

2 coverages / year, rainy and dry season

Maximum 10 % cloud cover

Co-registration accuracy: min. 2 pixels

Geo-location accuracy: 25 m

No. of tiles:

2011: 3988+3988

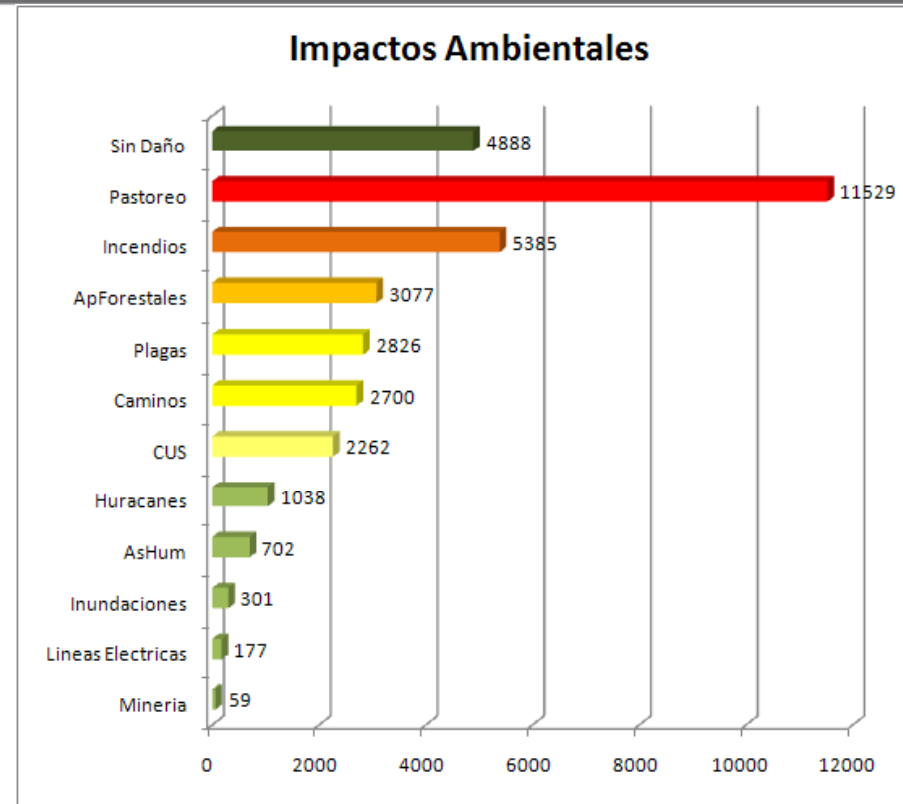
2012: 3988+3988

2013: 3988+3988

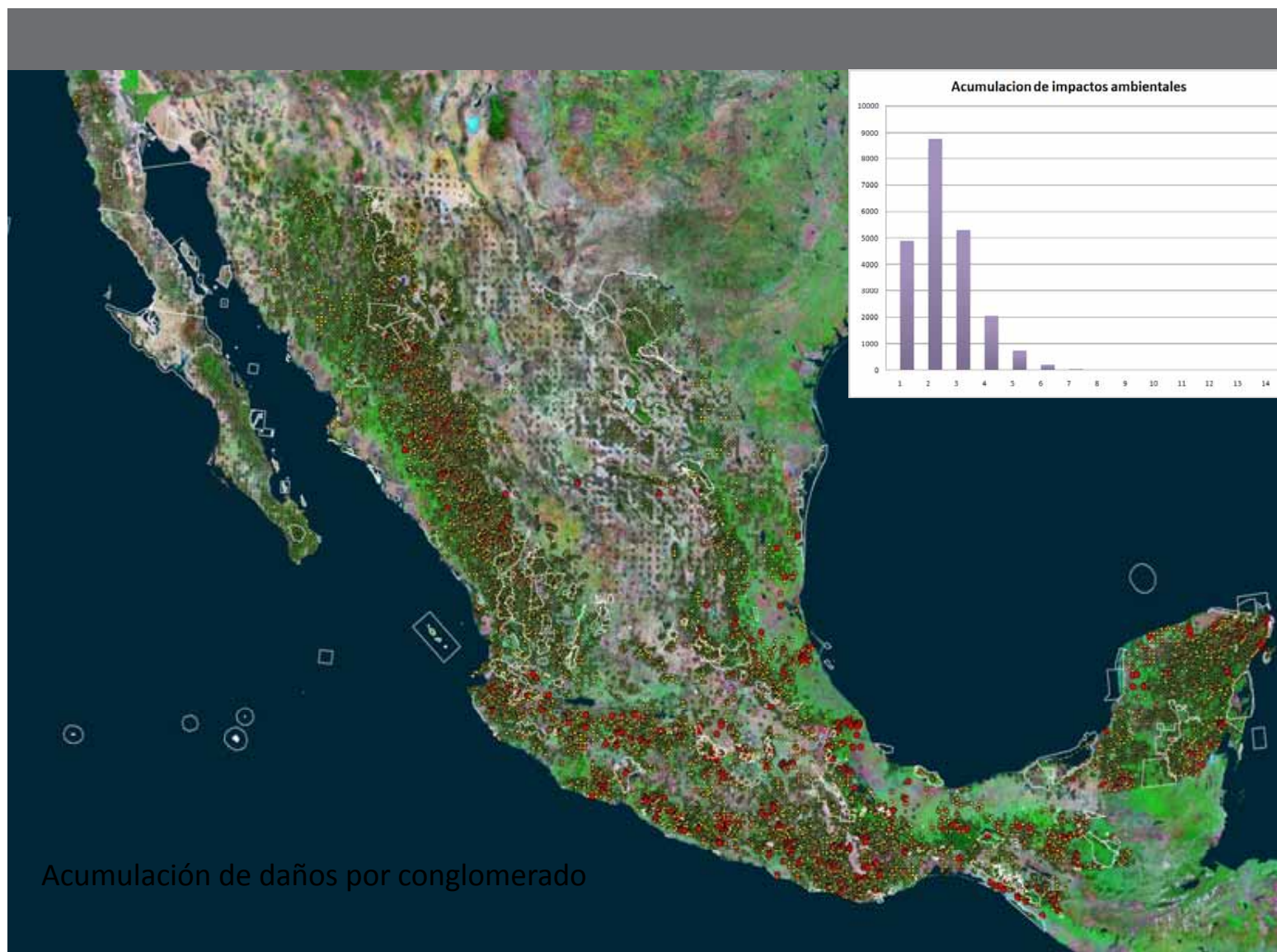
23,928

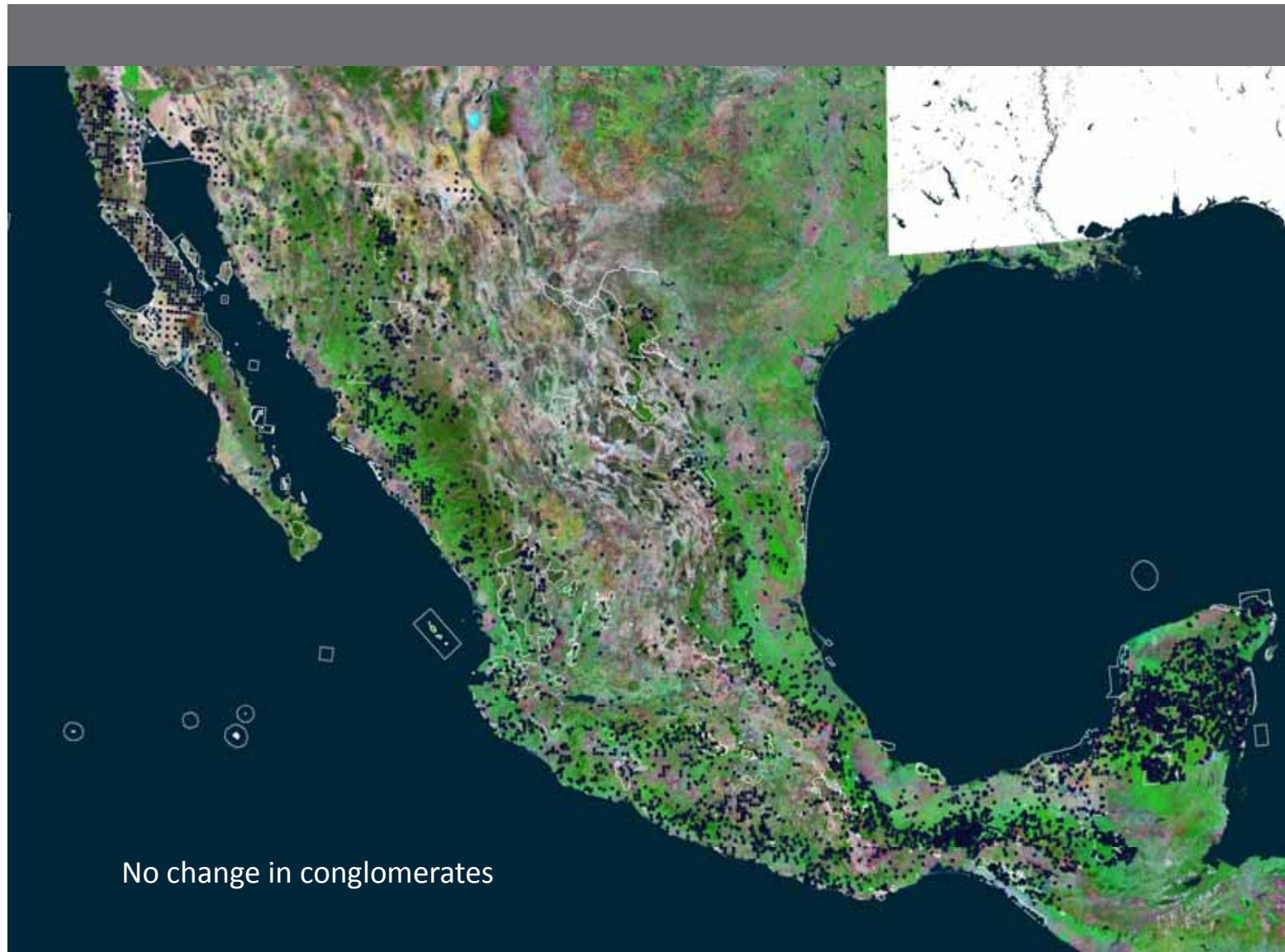
6 TB



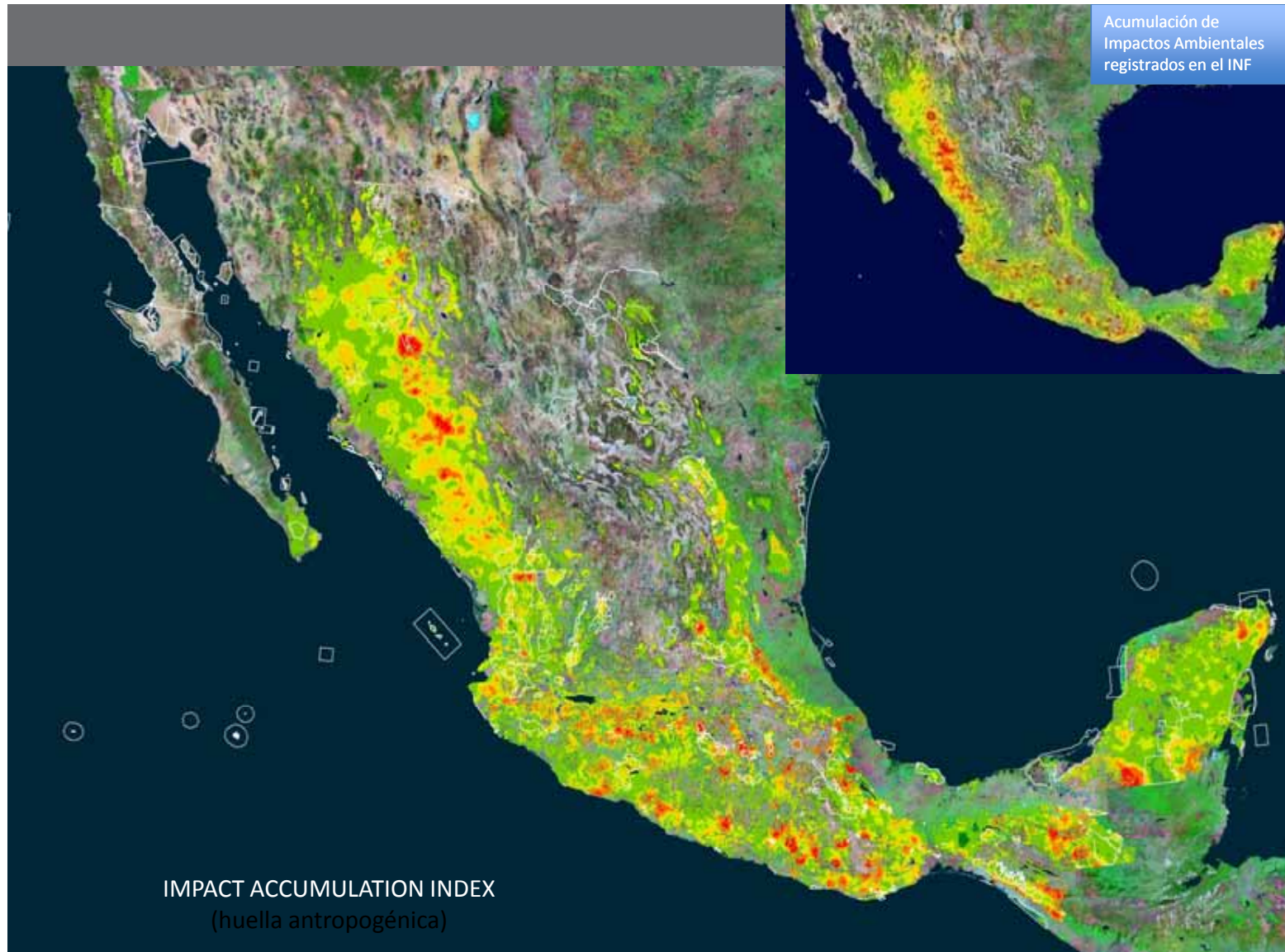


Total 22,019 conglomerados en el INF



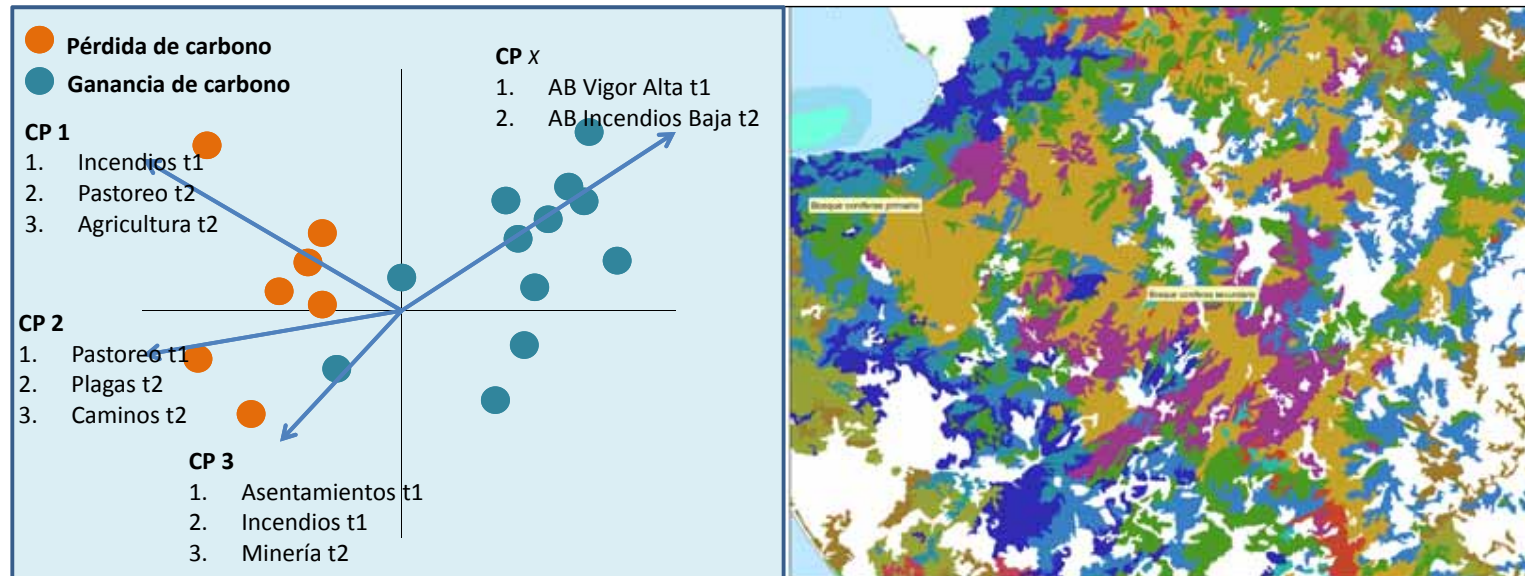




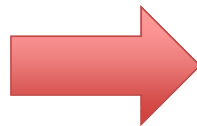


NATIONAL CHANGES IN CARBON STOCKS

ASSOCIATED WITH DEGRADATION AND REDD +



CP 1
1. Incendios t1
2. Pastoreo t2
3. Agricultura t2

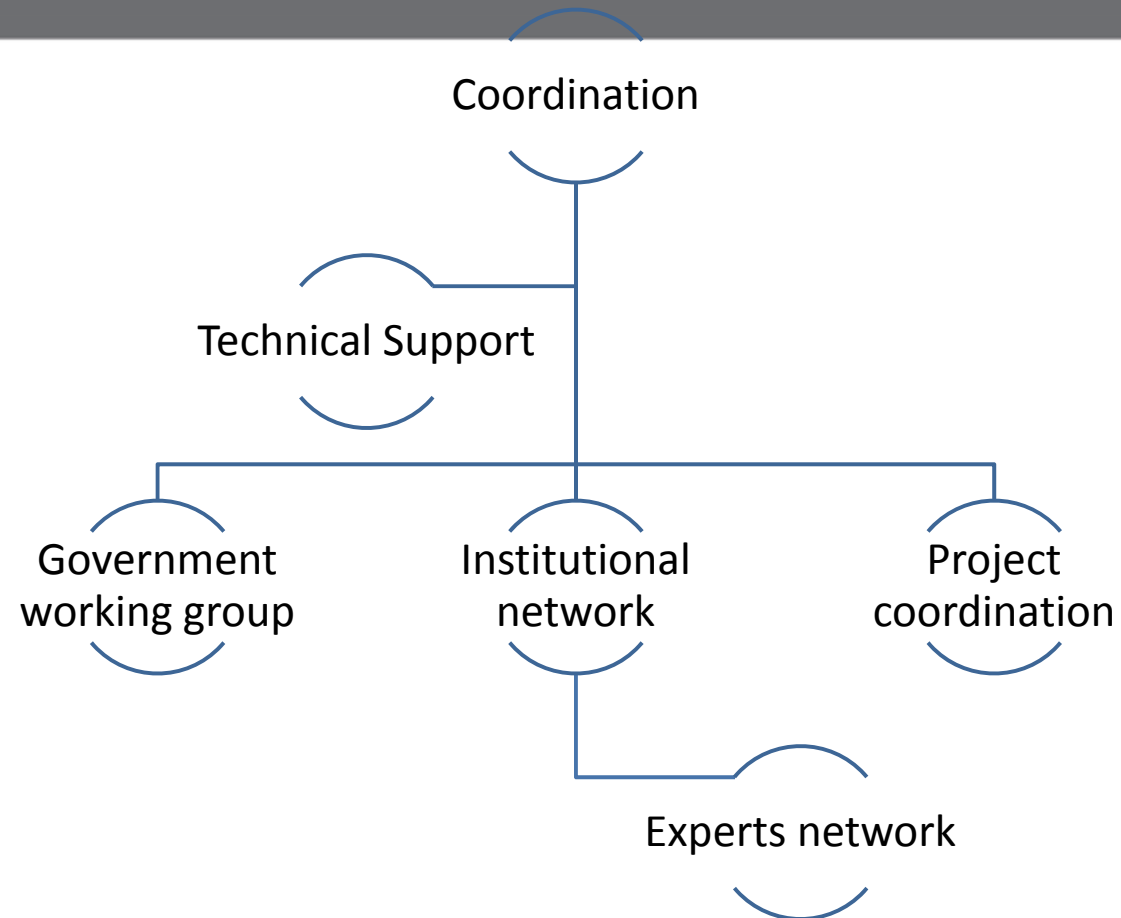


-20 ± 4 ton C ha⁻¹ año⁻¹

Challenges

- Learn from past experiences
- Coordinate MRV development efforts
- Use REDD thrust as useful “fuel”
- Evolve with national thinking
- Incorporate community approaches
- Connection across sectoral systems

COLLABORATIVE PLATFORM



Consolidate institutional arrangements



GRACIAS

MÉXICO