

# Country experience

## Measurement Reporting and Verification Joint Workshop

*UN-REDD MRV Session*

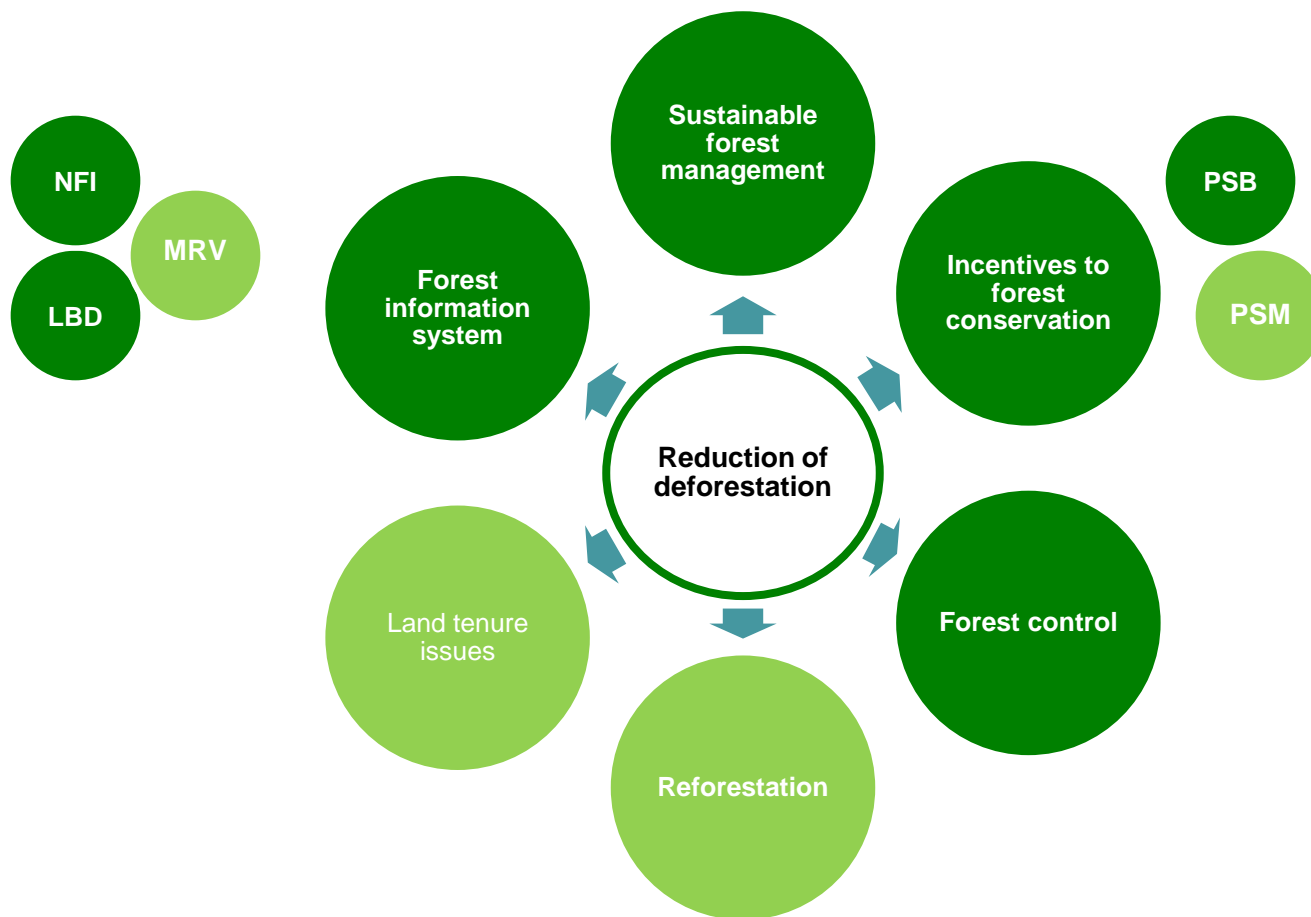
Zapopan, Jalisco, México  
23<sup>rd</sup> June 2010



# ECUADORIAN STRATEGY TO REDD+

Guillermo Sánchez R.

# Elements of REDD+ strategy



# NATIONAL FOREST INVENTORY



## Key variables to optimize the NFI design

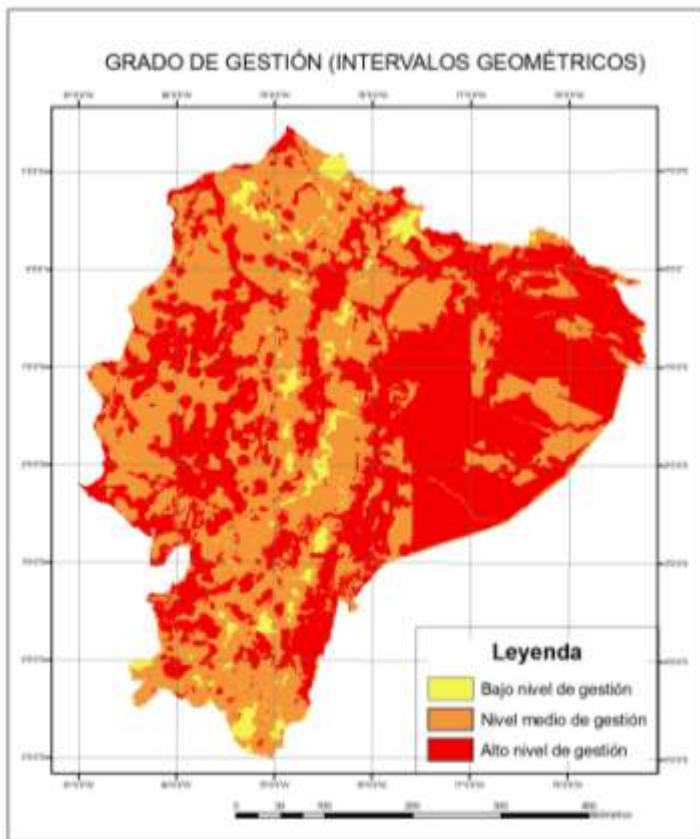
- 1. **Above-ground biomass** } DBH, height, specie, wood density.
- 2. **Below-ground biomass** } Conversion factor using bibliography.
- 3. **Dead wood** } Base diameter  $\geq 10$  cm, state of decomposition, specie, stumps.
- 4. **Litter** } Collection of litter
- 5. **Soil carbon matter** } Yassu model





# Stratification (a)

## Managed and Unmanaged land



## All Ecuadorian land is under some kind of management

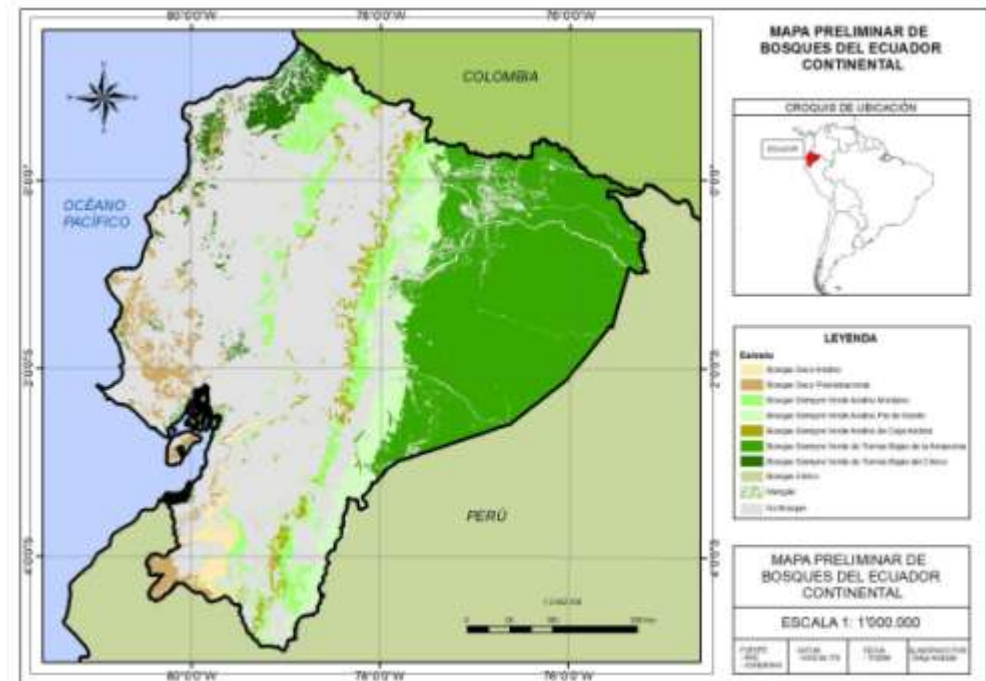


# Stratification (b)

## Land stratification

Código Nivel I	Nivel I (BPC)	Código Nivel II	Nivel II	Nivel III
1	Bosque	8	Bosque Nativo	Bosque siempre verde de tierras bajas de la Amazonia
				Bosque siempre verde de tierras bajas del Chocó
				Bosque seco Pluviosazonal
				Bosque Semipreviado Andino de Pa de Minda
				Bosque Semipreviado Andino Mesoandino
				Bosque Semipreviado Andino de Cajas Andino
				Bosque Seco Andino
				Manglar
Morichales				
2	Áreas agropecuarias	9-14	Plantación forestal (bosque plantado)	Agroforesterias
				Cultivos anuales
				Cultivos semipermanentes
				Cultivos permanentes
				Pasto cultivado
				Mixtos agropecuarios (asociaciones)
3	Vegetación arbustiva y herbácea	15-16	Vegetación arbustiva	Herbales
				Vegetación herbácea
4	Campos de agua	17-18	Pantanos	Naturales
				Artificiales
				Zonas pobladas
5	Zonas antropicas	19-20	Infraestructuras	Agropecuaria
				Social
				Transporte y comunicación
6	Otras áreas	21-22	Áreas sin cobertura vegetal	Áreas inundadas
				Grutas
				Selva industrial
				Selva natural
				Playas
				Resacas de arena
7	Sin información			Alfrescos nevados

## Forest Strata based on possible carbon stocks

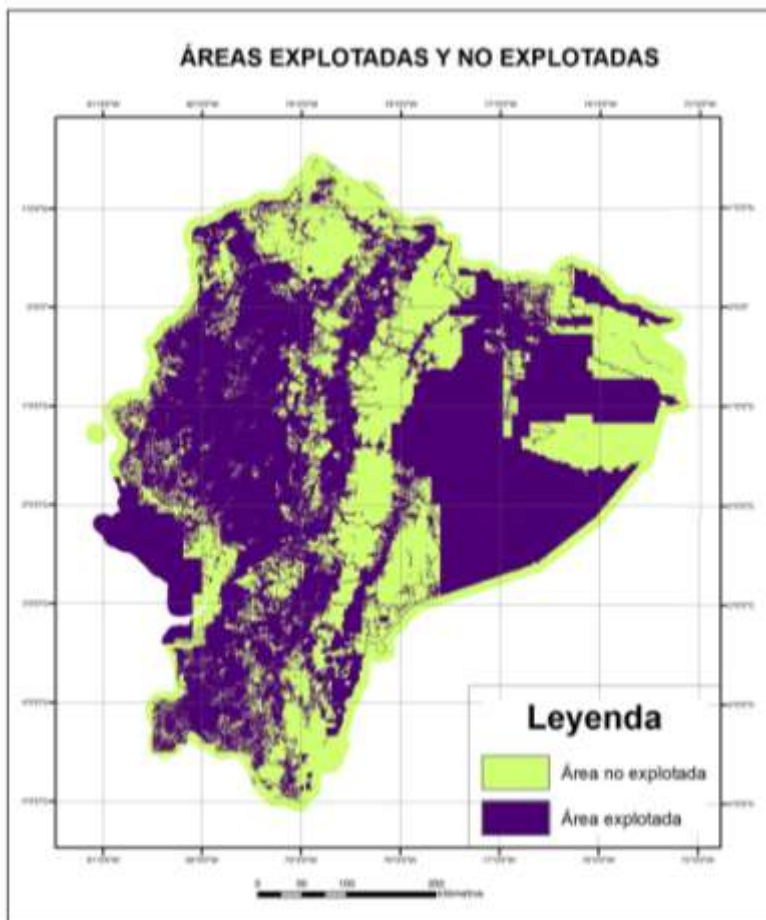




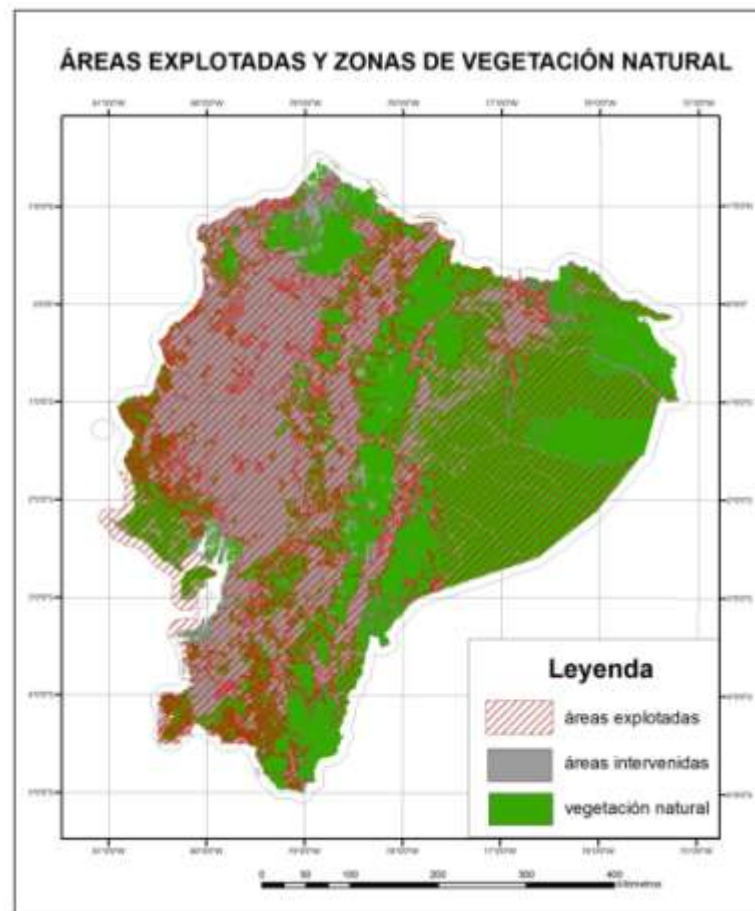


# Stratification (c)

## Exploited and Unexploited forests

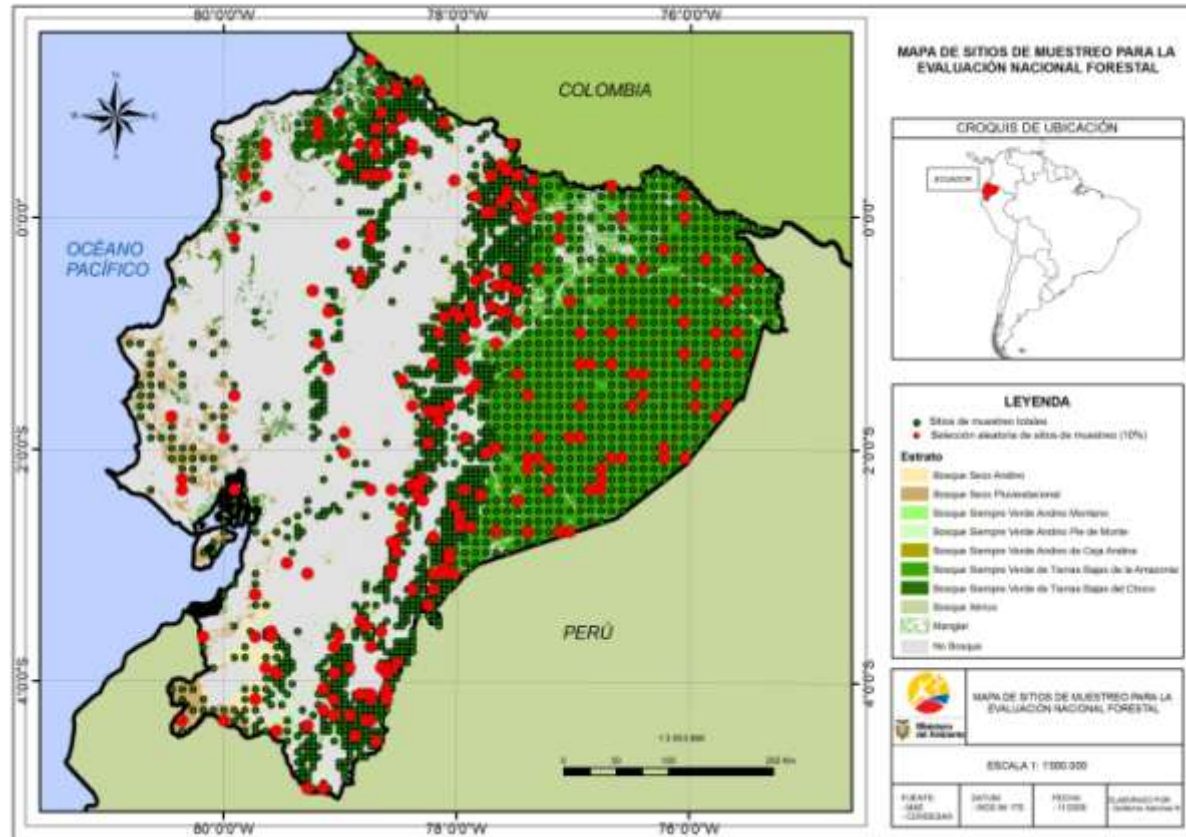


## Exploited land and forests



# Sampling design

Random selection over exploited and unexploited forests



COMISIÓN NACIONAL FORESTAL

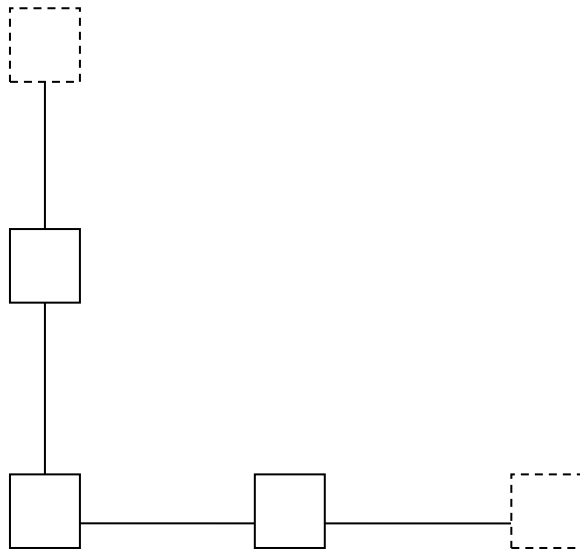
UN-REDD  
PROGRAMME

GEO GROUP ON  
EARTH OBSERVATIONS

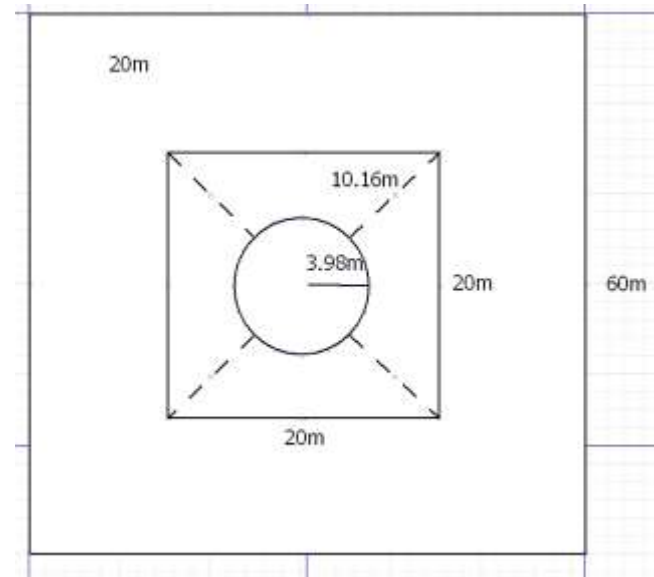


# Plot design

## Cluster design



## Plot design



# Uncertainties

Still under national discussion

# CHALLENGES

Update forest information with the use of remote sensing

