Brazil's Evolving REDD Architecture

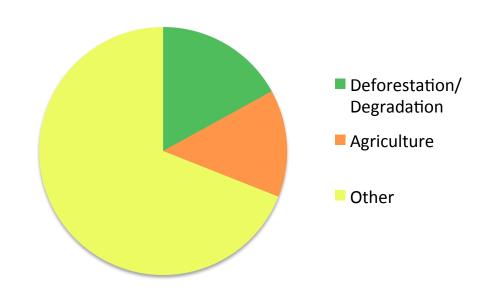
Daniel Nepstad

Director,

International Program



Global Anthropogenic Greenhouse Gas Emissions



Can agricultural emissions be reduced along with REDD?

REDD = New Paradigm in Rural Development

- Policy reform, policy alignment
- Enforcement
- Positive incentives for forest-maintaining activities*
- Negative incentives for forest-replacing activities

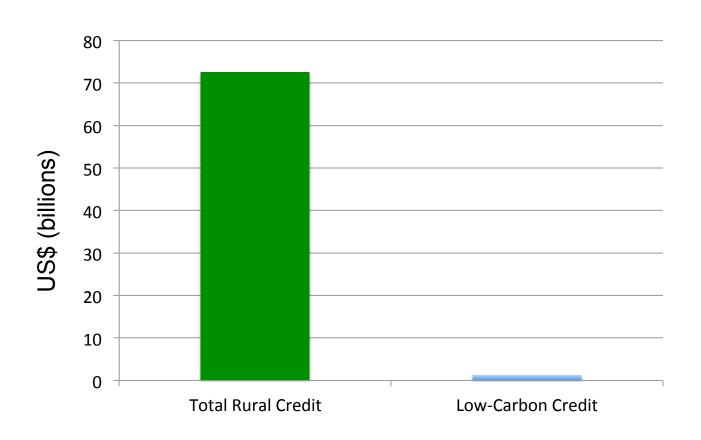
(*Can be achieved through pilot projects)

REDD projects are the source of important lessons for sector-wide programs . . .but they are less effective in addressing policy reform, policy alignment, enforcement.

Total and "Low Carbon" Agricultural Credit in Brazil 2010/11 Harvest

(Ministério da Fazenda)

The need for policy alignment



REDD Programs Require Strong Sector-Specific Sub-Programs

- Smallholders
- Large-scale farming/ranching
- Indigenous people/lands
- Protected areas
- Timber/plantation industries

Under design in Acre

What will sectoral REDD programs look like?

Example: REDD sub-program for smallholders

- 1. Reform Agrarian Reform?
- Re-direct land settlement towards existing agricultural lands, peri-urban zones (not trivial!)
- Increase job opportunities in towns and cities

Example: REDD sub-program for smallholders (continued)

- 2. Higher agricultural yields/income; higher value of forest products
- Technical assistance
- Development and commercialization systems and strategies for smallholder production systems
- Rural credit

Example: REDD sub-program for smallholders (continued)

- 3. Supporting smallholders for new markets
- Roundtable certification
- Zero deforestation supply chains

Example: REDD sub-program for smallholders (continued)

4. Resolve land tenure disputes

Sectoral programs will require integration across governmental hierarchy: the case of Brazil

National Government:

- •All lands within 200 km of federal highways
- Most agrarian reform/land settlements (INCRA)
- Rural extension (EMATER)
- Most rural credit
- Shared land enforcement (IBAMA)

State Government:

- •Lands beyond 200 km
- State rural extension
- All land registry and environmental licensing
- Land use zoning
- Shared land enforcement (state environment agency)

Integrity of Nesting Frameworks

Sum project-level emissions reductions ≤ state-level emissions reductions and...

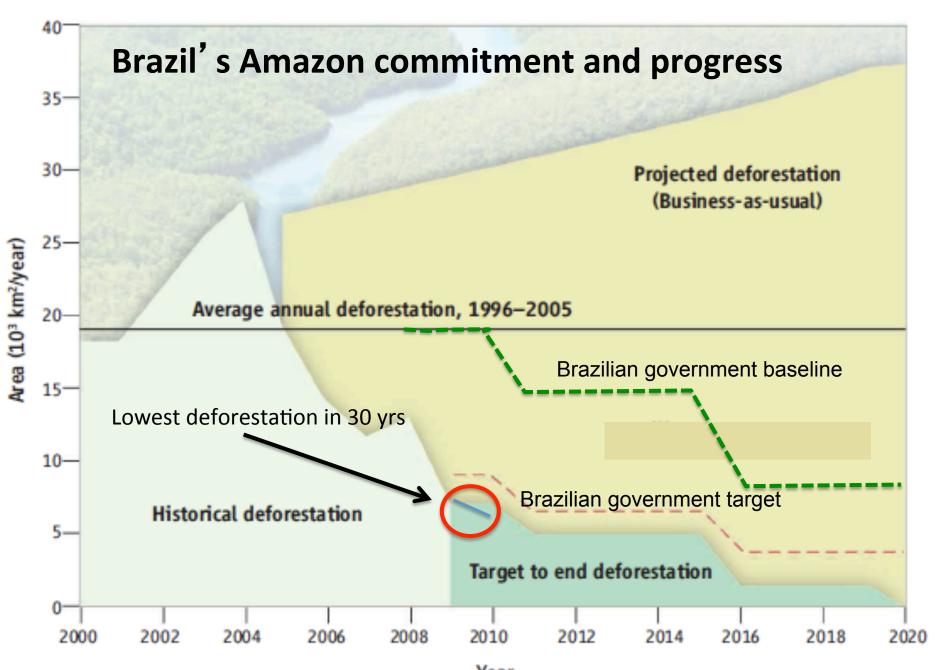
Sum of state-level emissions reductions ≤ national emissions reductions

Crediting baselines at project, state, and national levels must be compatible!

Nesting Frameworks: The Case of Brazil

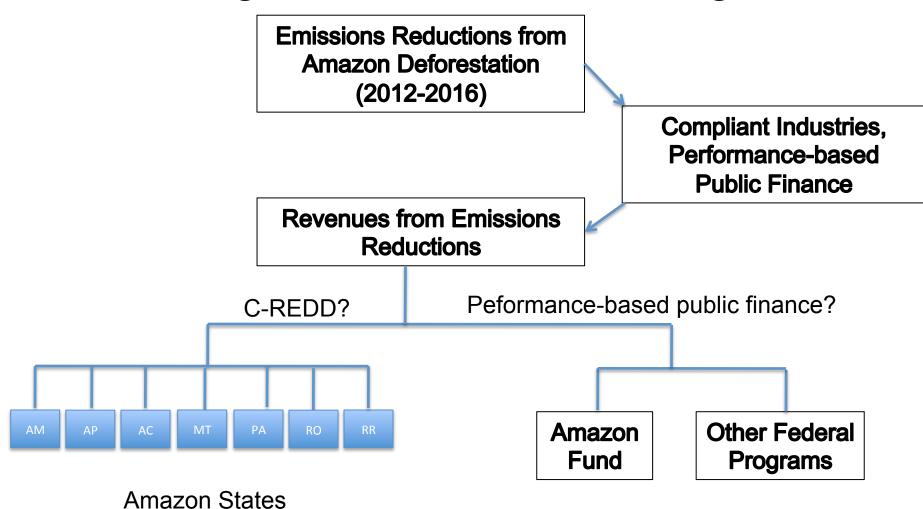
National Climate Change Plan (approved 2009):

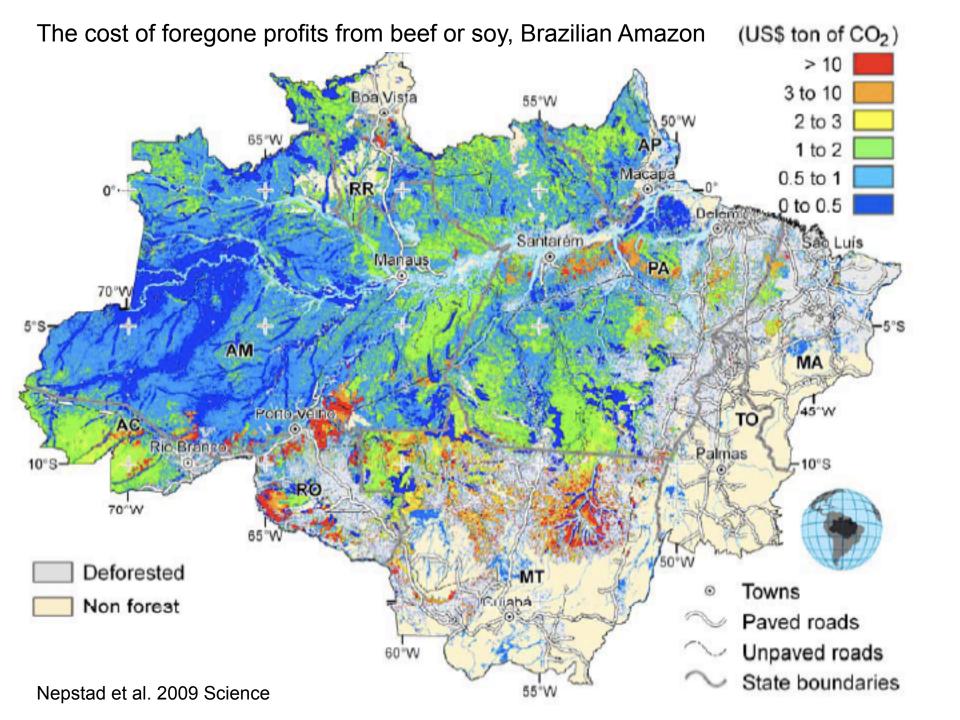
- •Reduce national emissions 36-39% by 2020
 - •Reduce deforestation in the Amazon region by 80%
 - •Reduce deforestation in the Cerrado region by 40%
 - Increased forest restoration and plantations



Nepstad et al. 2009 The End of Deforestation. Science

Nesting Frameworks: The Case of Brazil Allocating Between State & Federal Programs





Nesting Frameworks: The Case of Brazil

Allocation between federal and state levels:

Undecided

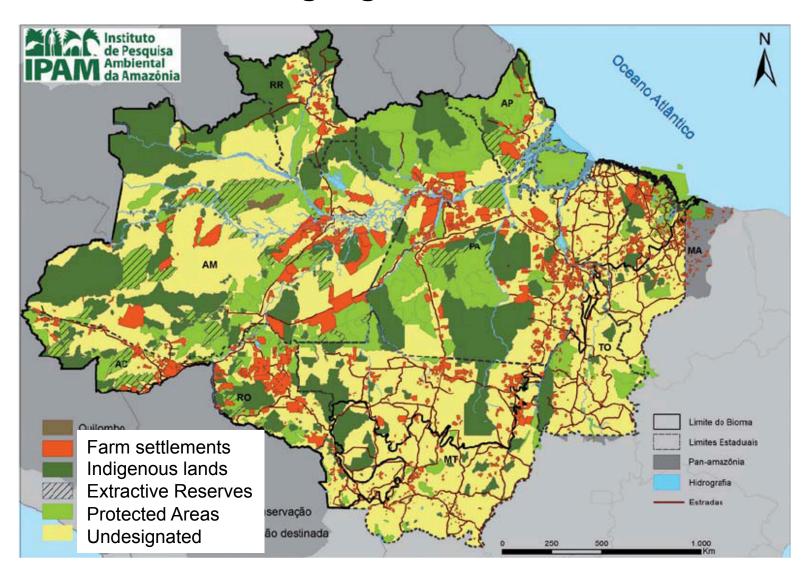
Allocation among states:

•Undecided, but political support for formula involving historical baselines, forest carbon stocks, and targets

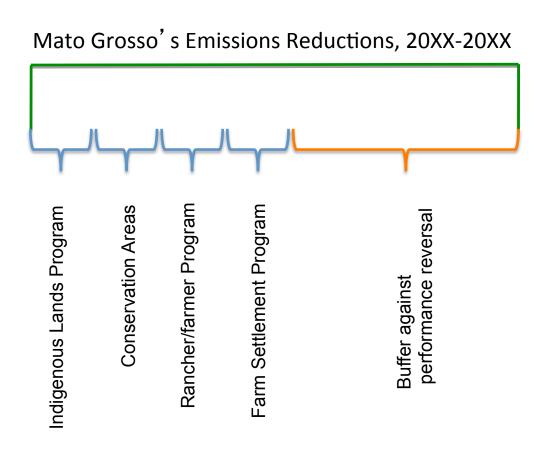
% of REDD revenue = A*(reduction below historical baseline) +

B*(forest carbon stock) + C*(progress towards target)

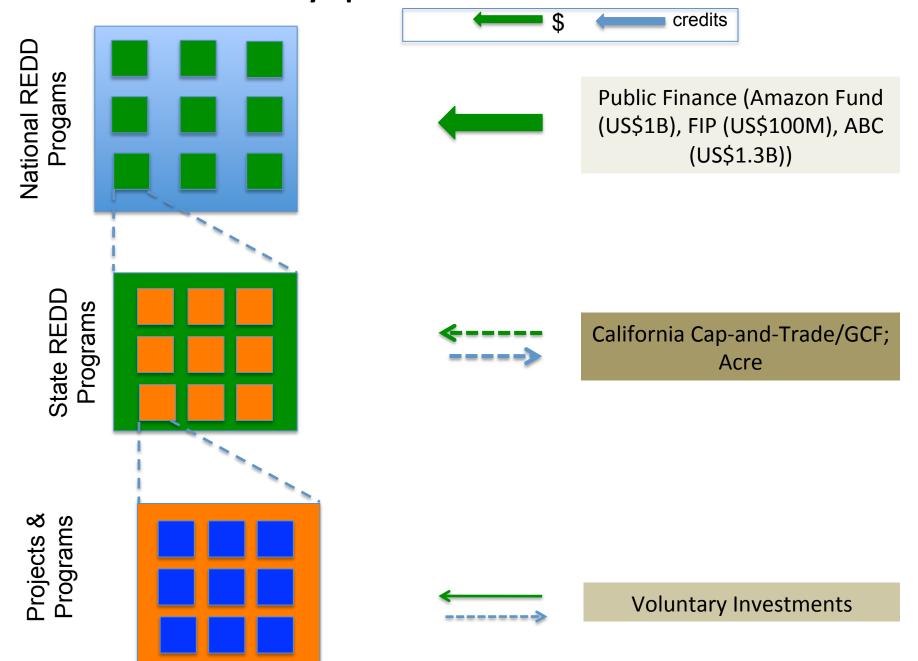
Nesting Frameworks: The Case of Brazil Allocation among regional or national sectors?



Nested, Programmatic Allocation of REDD-Based Emissions Reductions: Mato Grosso

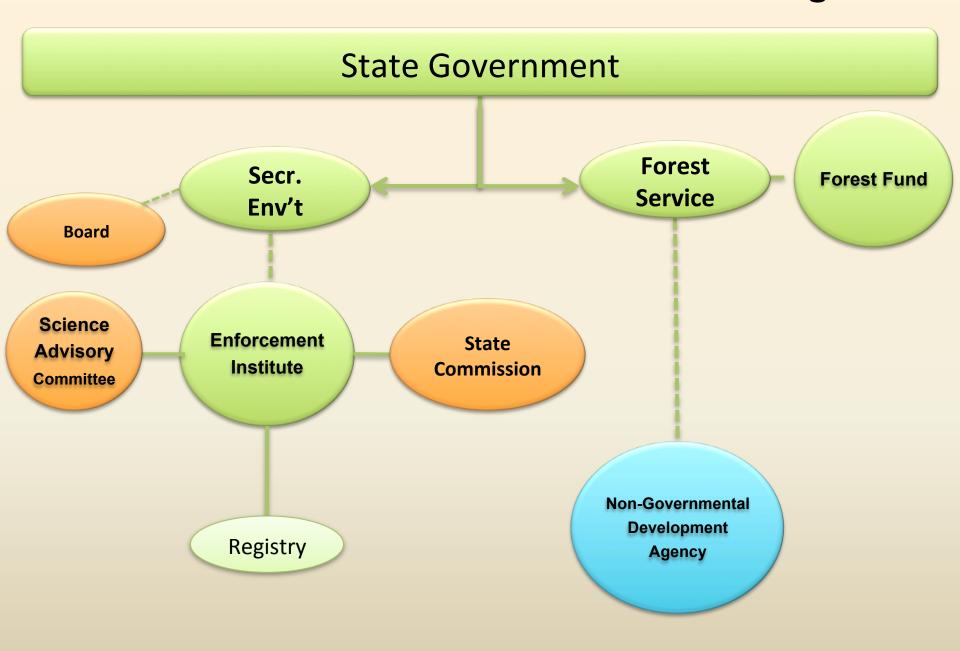


REDD+ finance today: precarious



Public finance as stepping stone to REDD market: Mato Grosso soy Brazil's Low Riparian Forest Restoration Carbon Ag Credit; Fund, "Legal Reserve" FIP or Amazon Compensation Fund (\$100M) Fund Soy Farmers Seeking RTRS Certification \$ (Alianca da Terra, Aprosoja) **REDD Market** (e.g. GCF, commodity buyers) Certified, Legal, Zero Deforestation Soy Supply Chain Mato Grosso **Achieves Sector-**Wide Deforestation Target

Institutional Architecture of Acre REDD Program



References

- •EPRI. 2010. (IPAM, Forest Trends, Tropical Forest Group, WHRC)
- •IPAM and Government of Brazil. 2011. REDD in Brazil: The Case of the Amazon.
- •Nepstad et al. 2009. The end of deforestation in the Brazilian Amazon. Science
- •MCGRATH, D.G.; NEPSTAD, D.; STICKLER, C.: Smallholders, Rural Development and REDD in the Brazilian Amazon. November, 2009

Available at:

www.ipam.org.br

Conclusions

- •REDD success will depend upon policy reform, policy alignment, enforcement, positive incentives, negative incentives
- •Need for sector-wide programs that provide systemic changes for low carbon development
- Integrity will depend upon baseline intercompatibility
- •Brazil's nesting framework still under negotiation; proposal for stock-flux-cap solution for allocation among states
- •Funding Gap: Public finance as bridge to markets (case of FIP and GCF/commodity markets)
- •Development agency as crucial institutional structure for private sector involvement