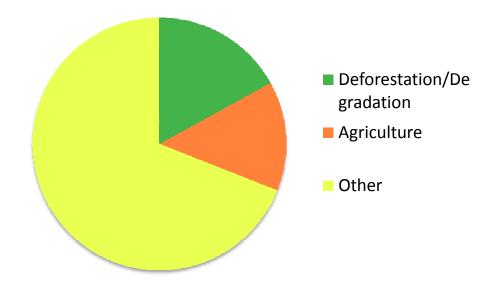
Brazil's Evolving REDD Architecture

Daniel Nepstad Director, International Program

March 16, 2011



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)

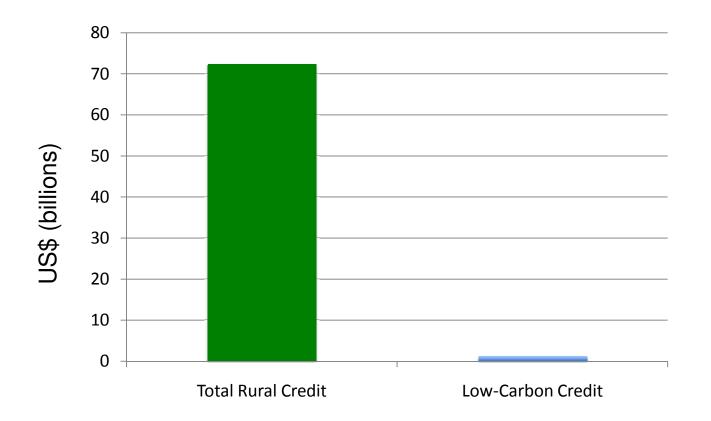
REDD projects are the source of important lessons for sector-wide programs . . .but they are less effective in addressing policy reform, policy alignment, enforcement.

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!

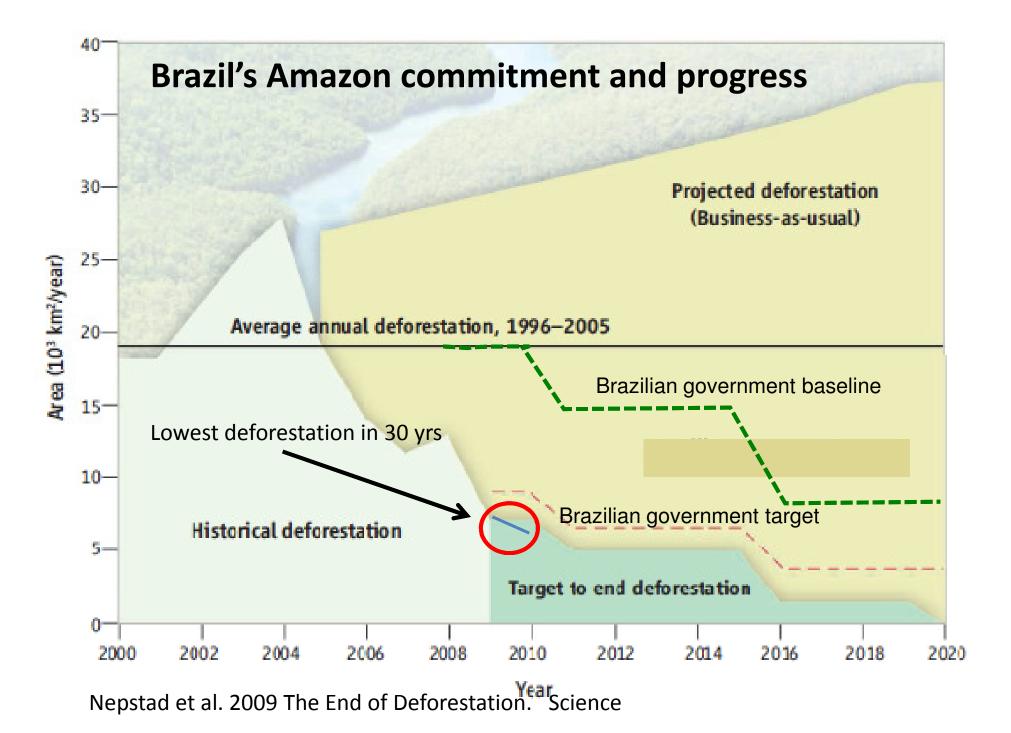
National Climate Change Plan (approved 2009):

•Reduce national emissions 36-39% by 2020

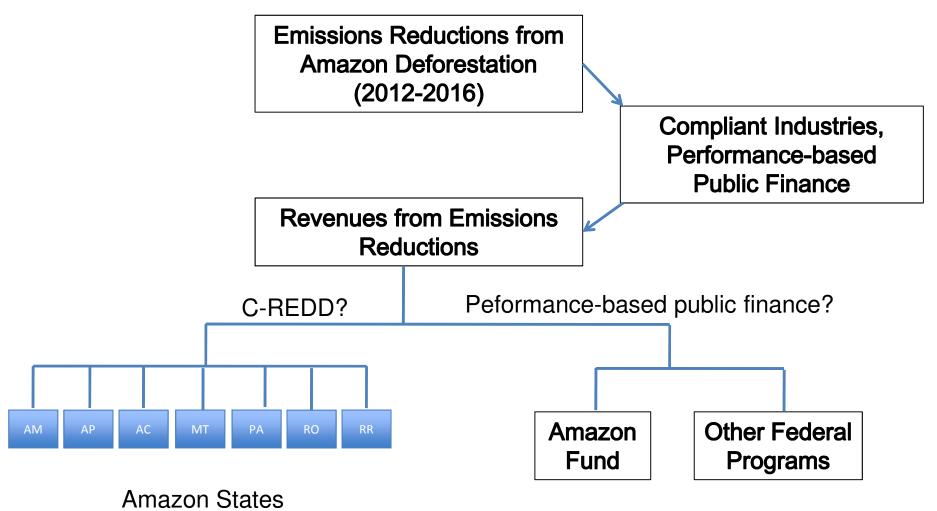
•Reduce deforestation in the Amazon region by 80%

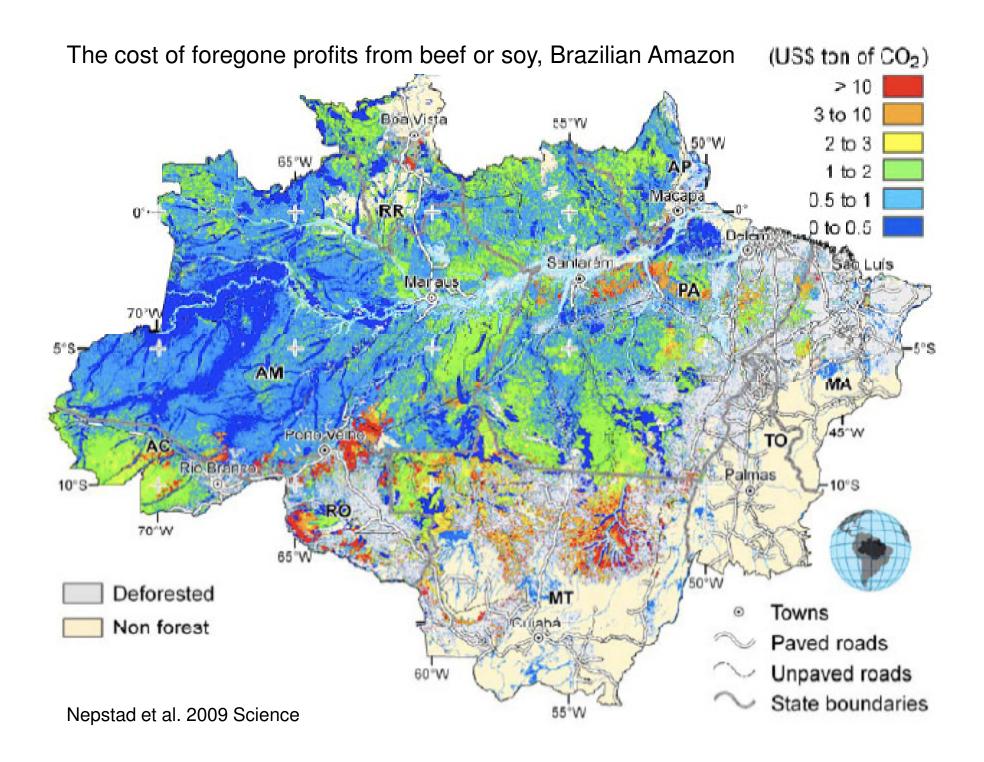
•Reduce deforestation in the Cerrado region by 40%

Increased forest restoration and plantations



Allocating Between State & Federal Programs





Allocation between federal and state levels:

Undecided

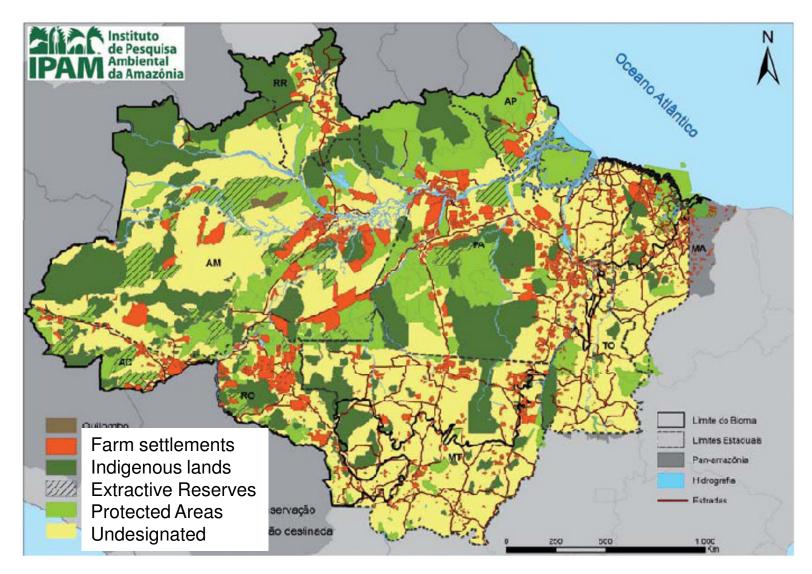
Allocation among states:

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

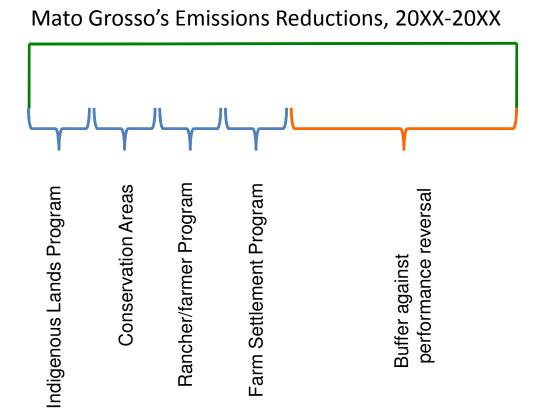
% of REDD revenue = A*(reduction below historical baseline) +

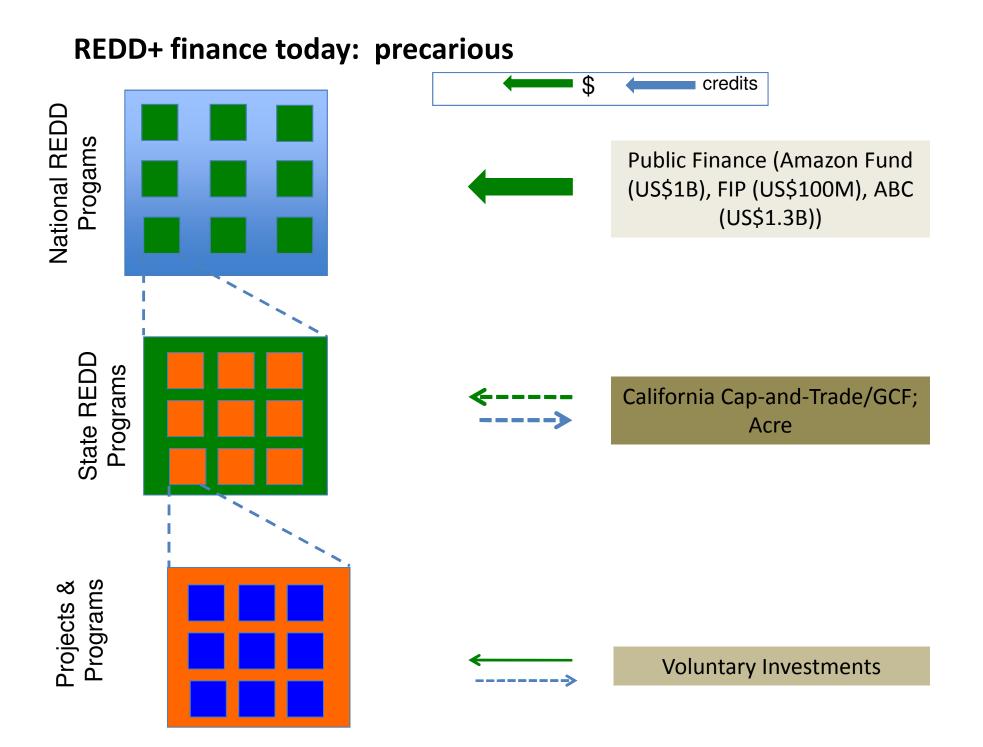
*B**(forest carbon stock) + *C**(progress towards target)

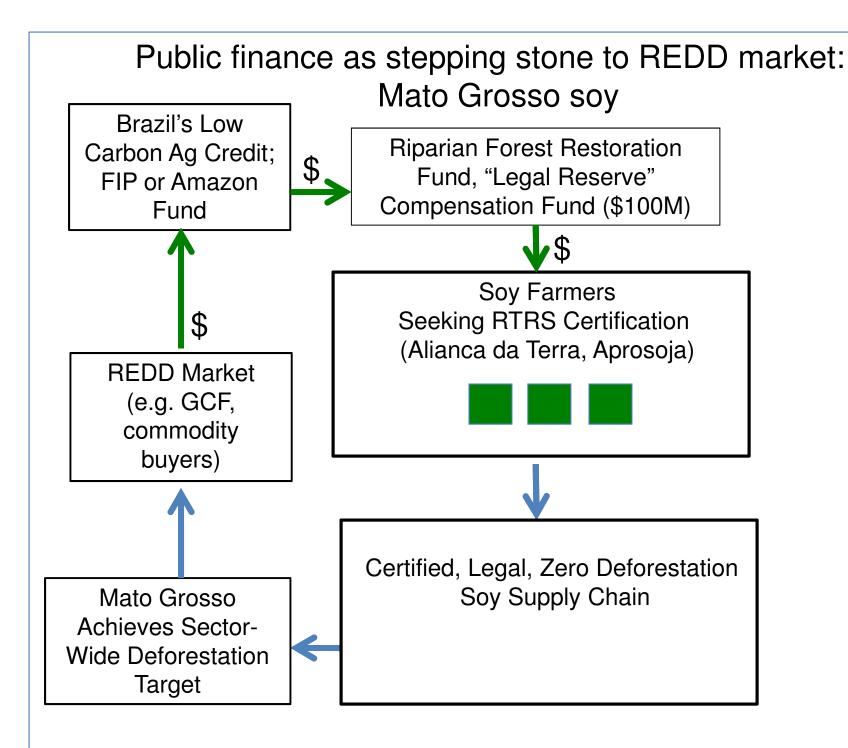
Allocation among regional or national sectors?



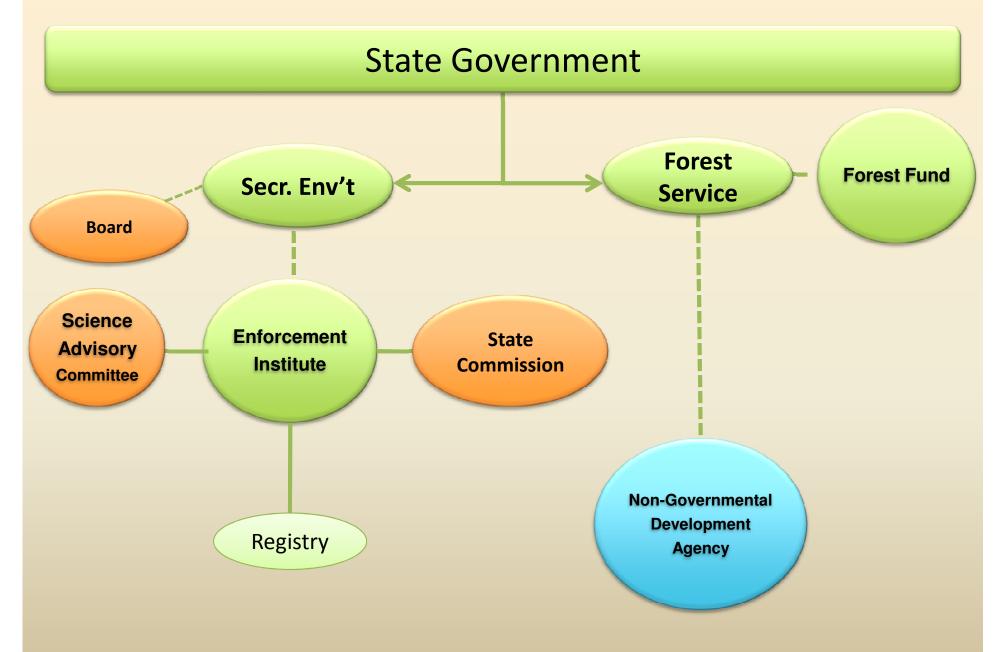
Nested, Programmatic Allocation of REDD-Based Emissions Reductions: Mato Grosso







Institutional Architecture of Acre REDD Program



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

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

www.ipam.org.br

