

Fourth Annual Meeting of the San Giorgio Group

Session:
Financing Efficient and Resilient Land Use

Juliano Assunção

October, 2014



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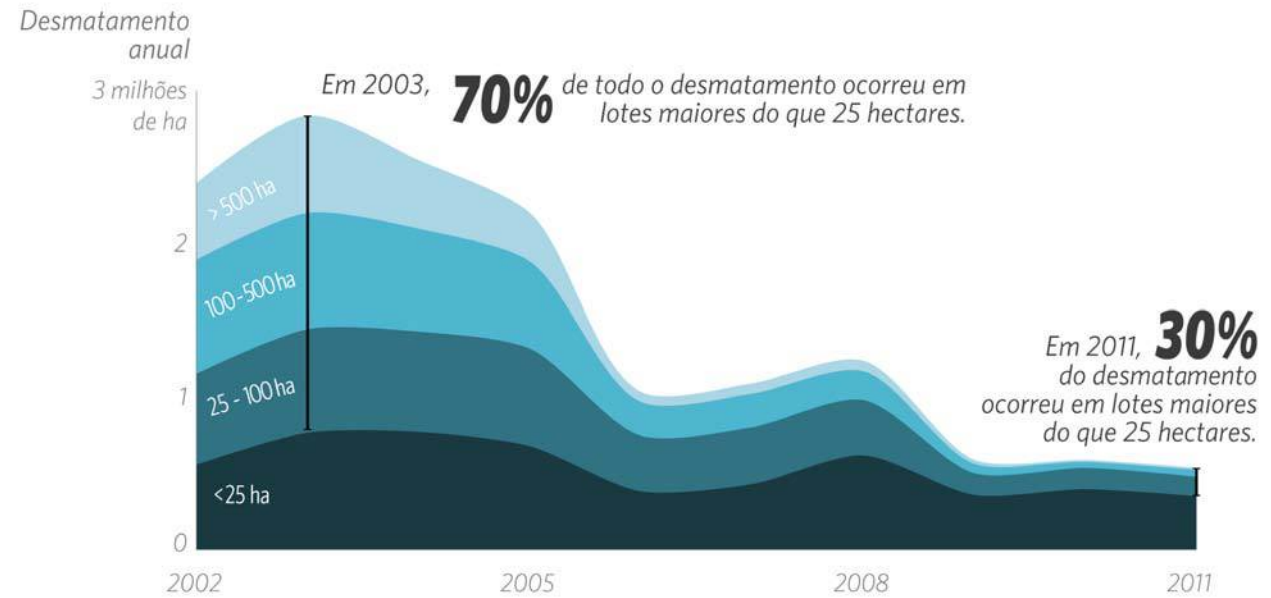
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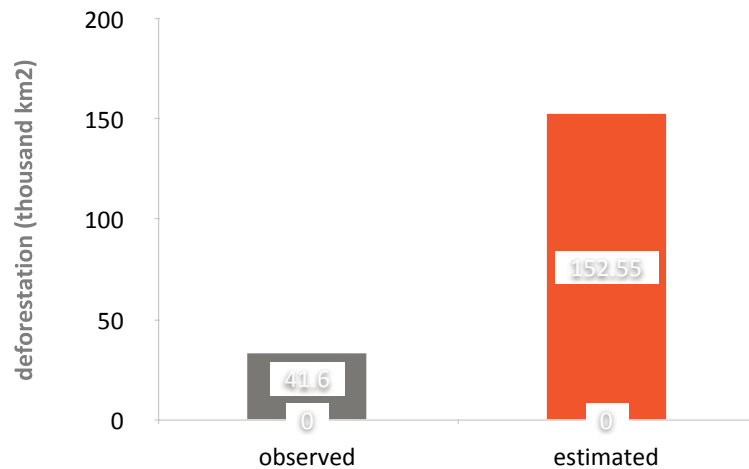
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Example 1 (policy): Deforestation in Amazon



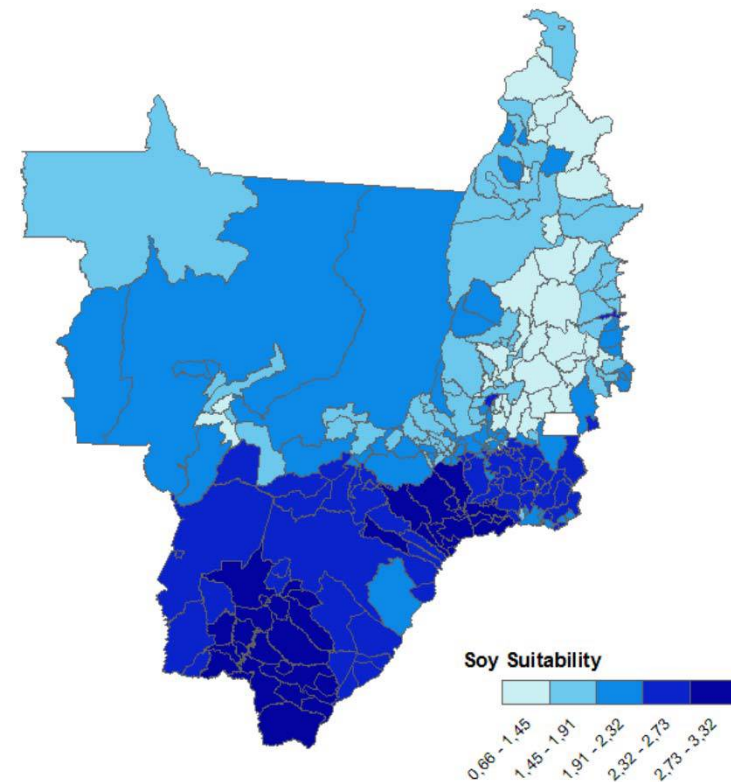
What if Amazon monitoring and law enforcement had been only in agriculture?



zero impact on agriculture

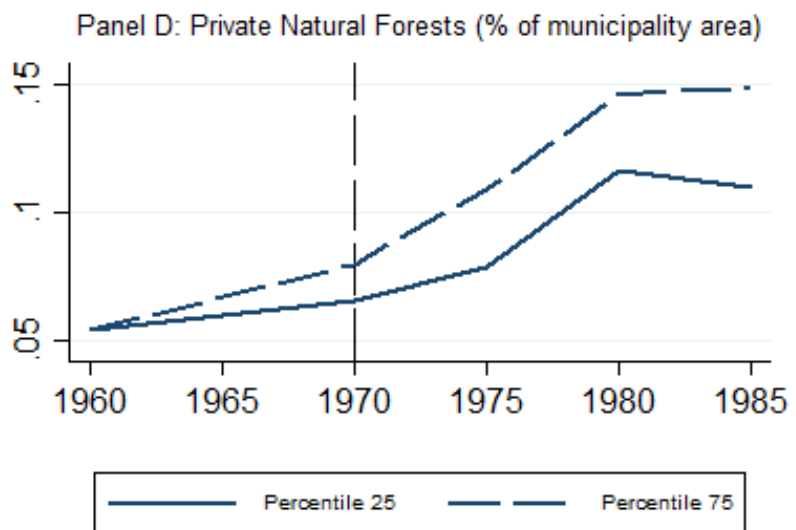
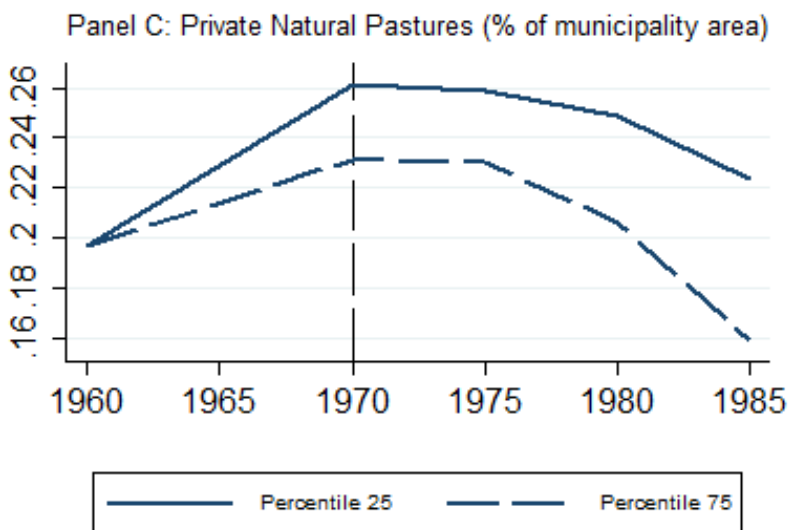
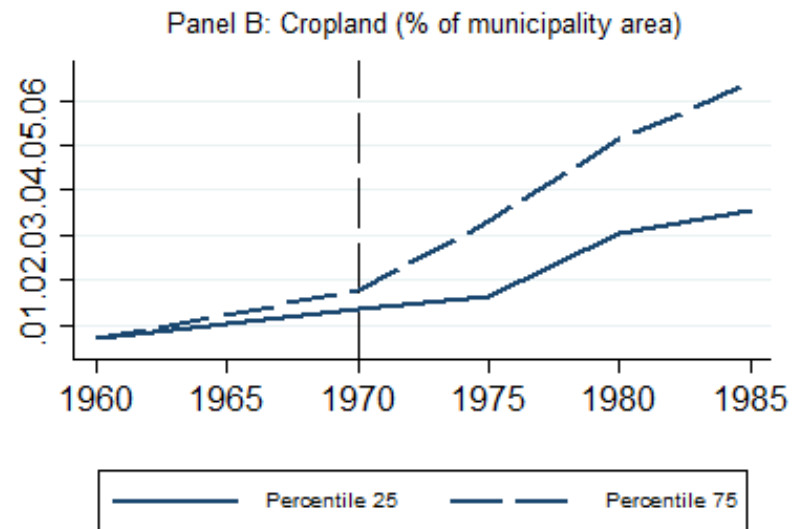
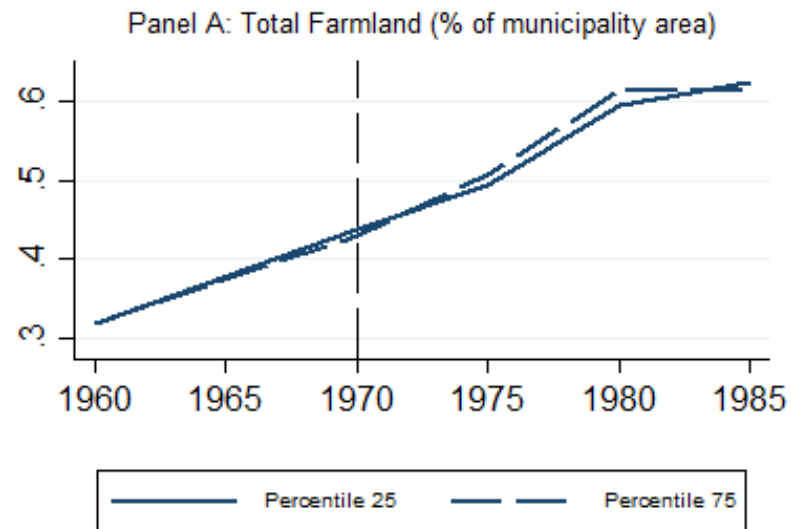
Example 2 (innovation): Brazilian Soy Revolution

- In the 1970s, R&D investments in agriculture were part of the government strategy to foster the development of the Brazilian Central-West.
- Soybean adaptation (from temperate to tropical climate) succeeded from early 1970s to early 1980s.
- Embrapa (created in 1973) has played a key role in this process.

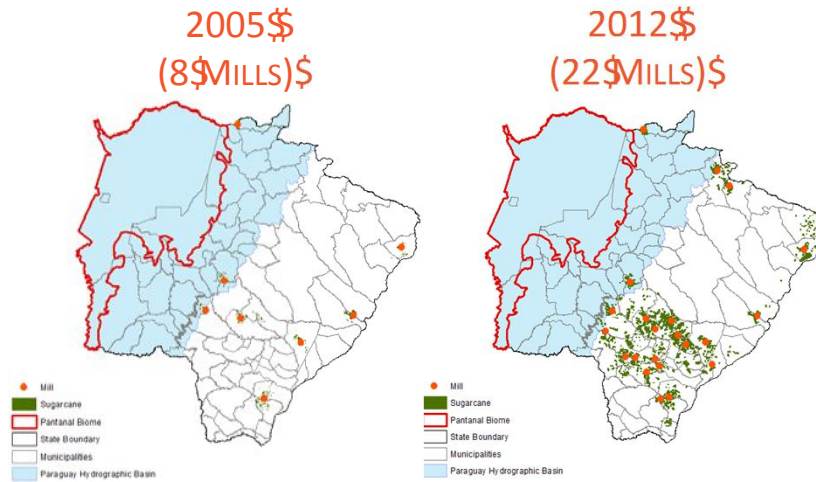


"(...) nobody thought these soils were ever going to be productive."
Norman Borlaug (New York Times - October 2, 2007)

Example 2 (innovation): Brazilian Soy Revolution

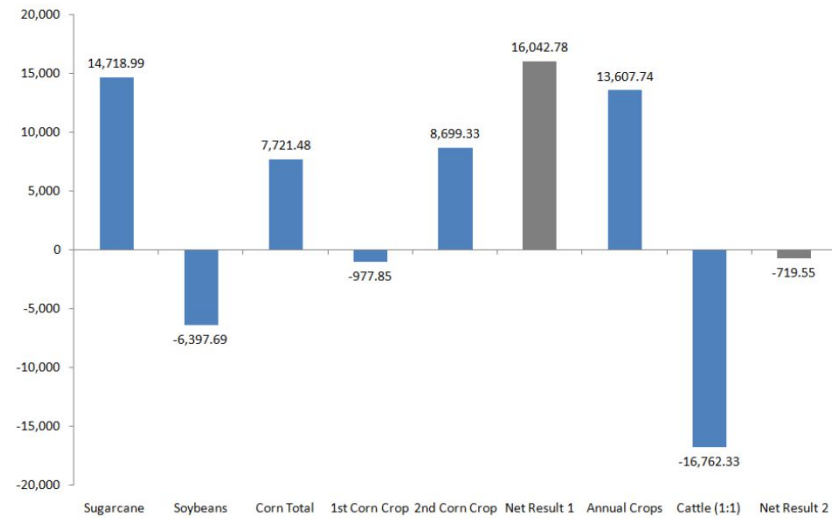


Example 3 (private investment): Sugarcane in Mato Grosso do Sul

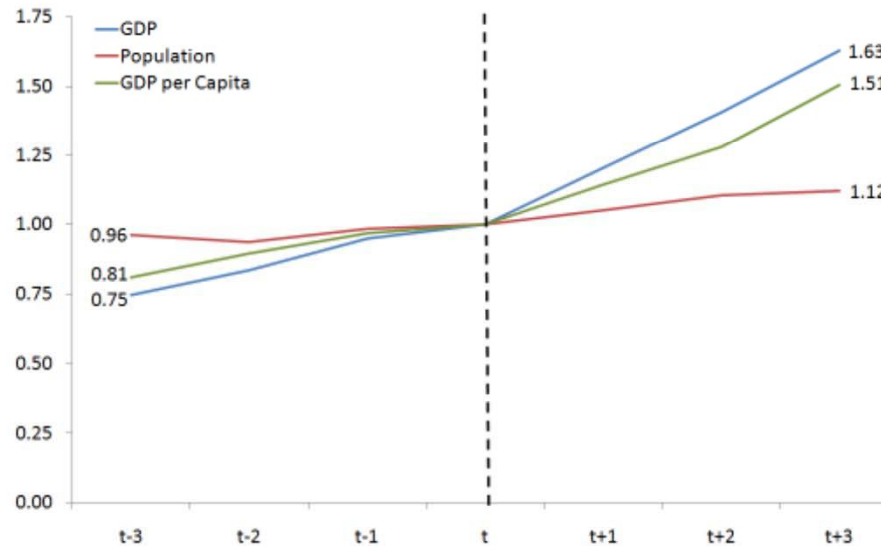


SOURCE: BIOSUL, ASSOCIAÇÃO DOS PRODUTORES DE BIOENERGIA DE MATO GROSSO DO SUL, INPE, INSTITUTO NACIONAL DE PESQUISAS ESPaciais e CANASAT

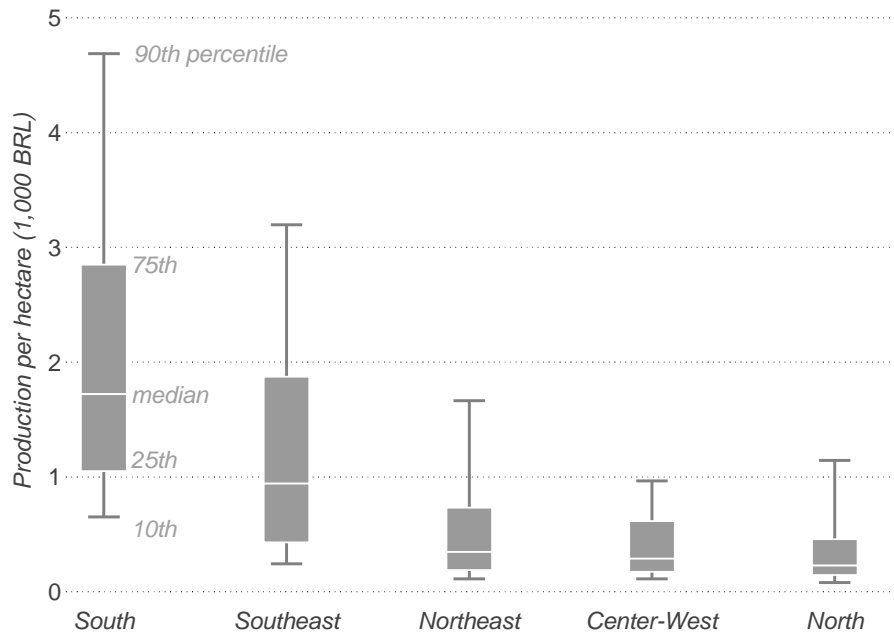
Figure 7: Estimated Net Land Use Change (Hectares)



(b) GDP, Population and GDP per Capita



Variation in Agricultural Productivity, 2006

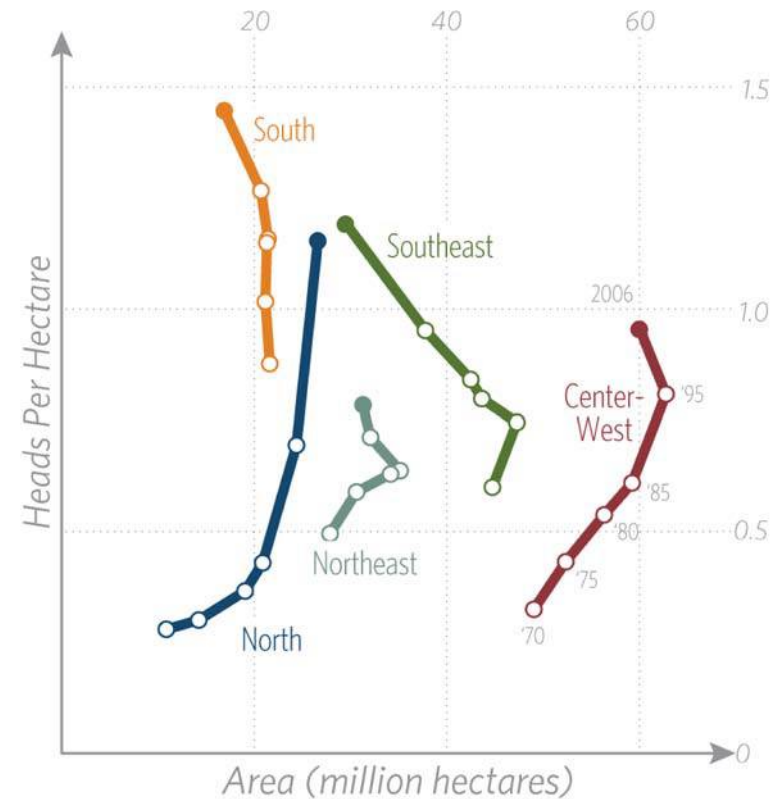


Land abundance shaped the institutional and technological choices since the colonial period.

Geographical aspects explain 37% of variation in agricultural productivity

Credit per hectare increases explanation to 58%

Cattle Ranching Productivity vs Area (1970-2006)



Delivering efficient land use

