



Brazil's Agrienvironmental policies

Challenges and opportunities

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About IPAM

Our mission is to provide science, education and innovation for Brazil to have a healthy environment, developed economy and social justice.

Publications and Platforms

- Published more than 800 papers
- Contributed to over 1,000 Masters'
 PhD and Post-doctorates
- Developed 5 data and map platforms



For 25 years, IPAM has been one of the most relevant science-based, independent entity with influence in public policy in Brazil



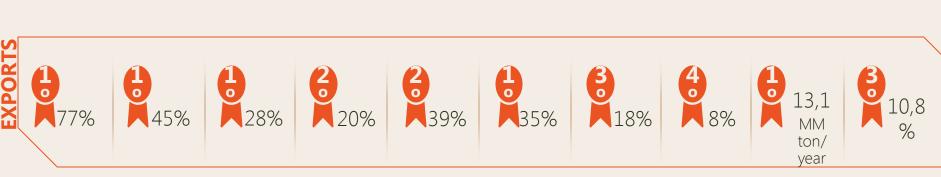
Message #1

Brazil is an Agricultural Powerhouse



Brazil's Agricultural production and exports







For good...



AGRIBUSINESS

IN THE BRAZILIAN ECONOMY 2017

23,5% of domestic GDP (US\$ 2.5 Tri)

US\$ 500 Billion

45% of exports (US\$ 213 Bi)

US\$ 96 billion

19% of jobs

18 Million

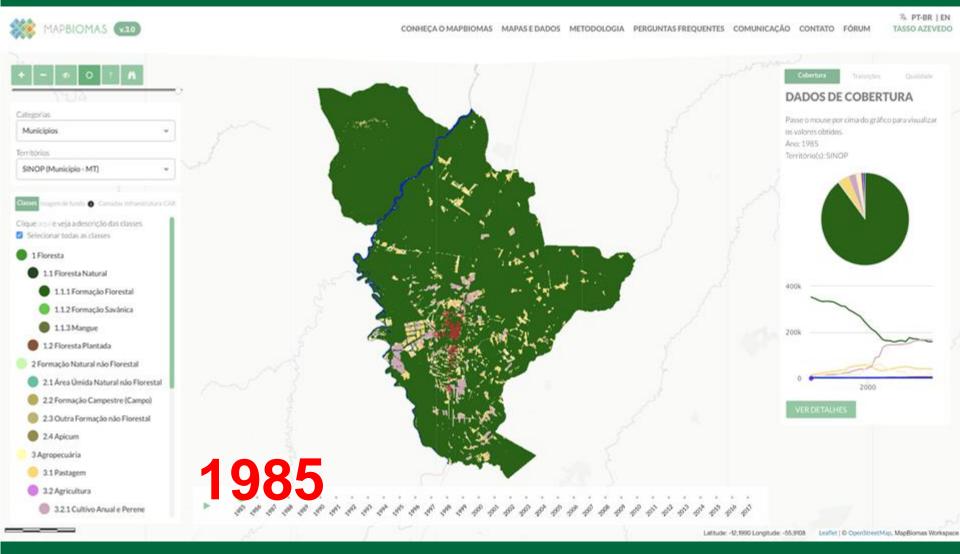
Reduction in the relative prices of food

3.5% p.y.*

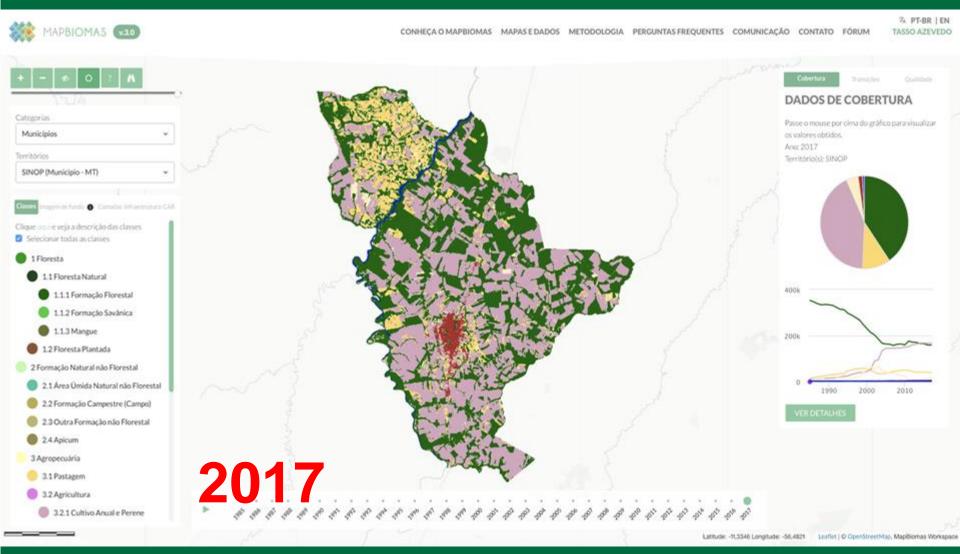


And for bad...

Recent deforestation in the southern Amazon

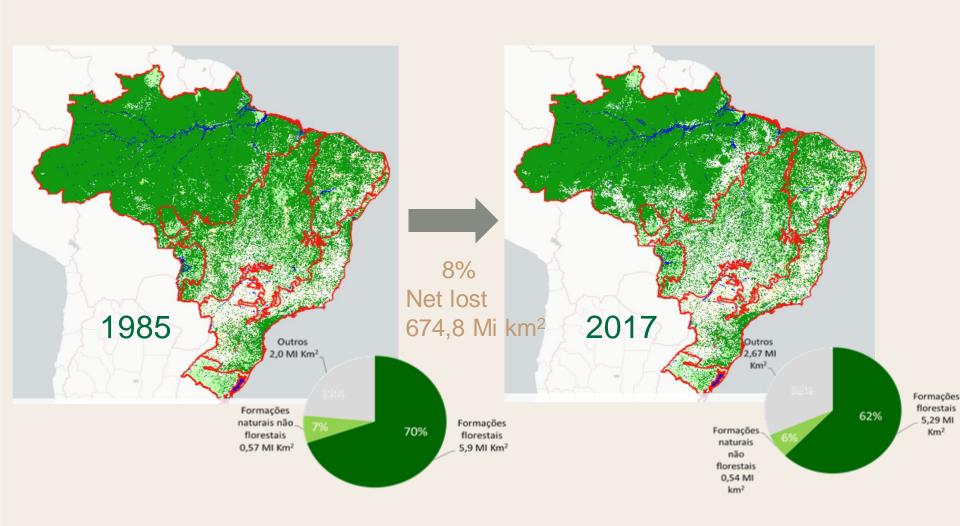


Recent deforestation in the southern Amazon





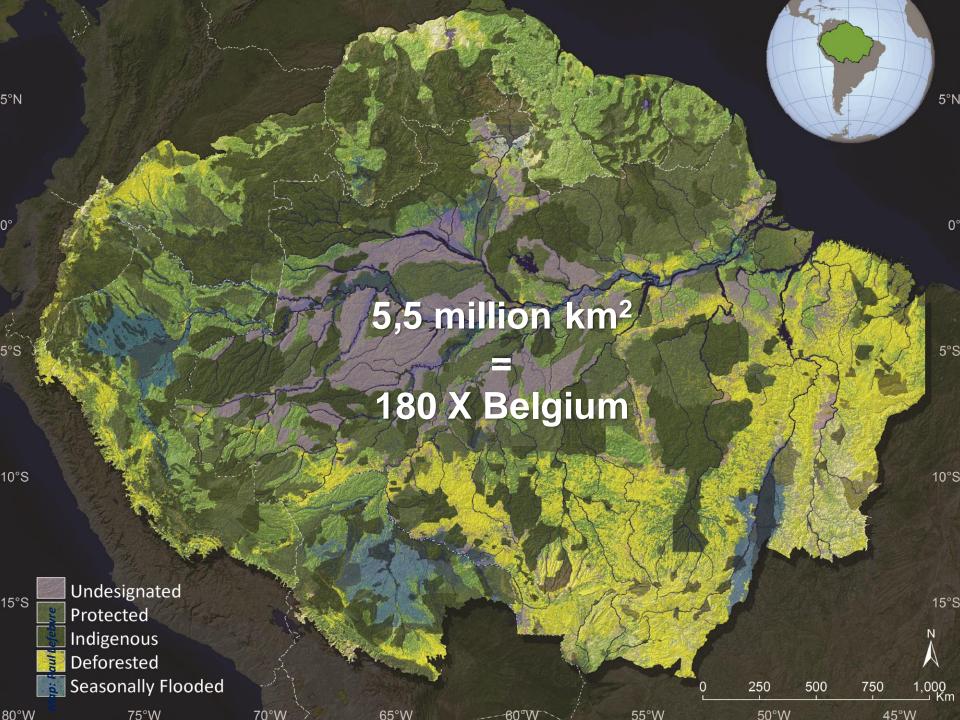
How much did we lose in the past 33 years?



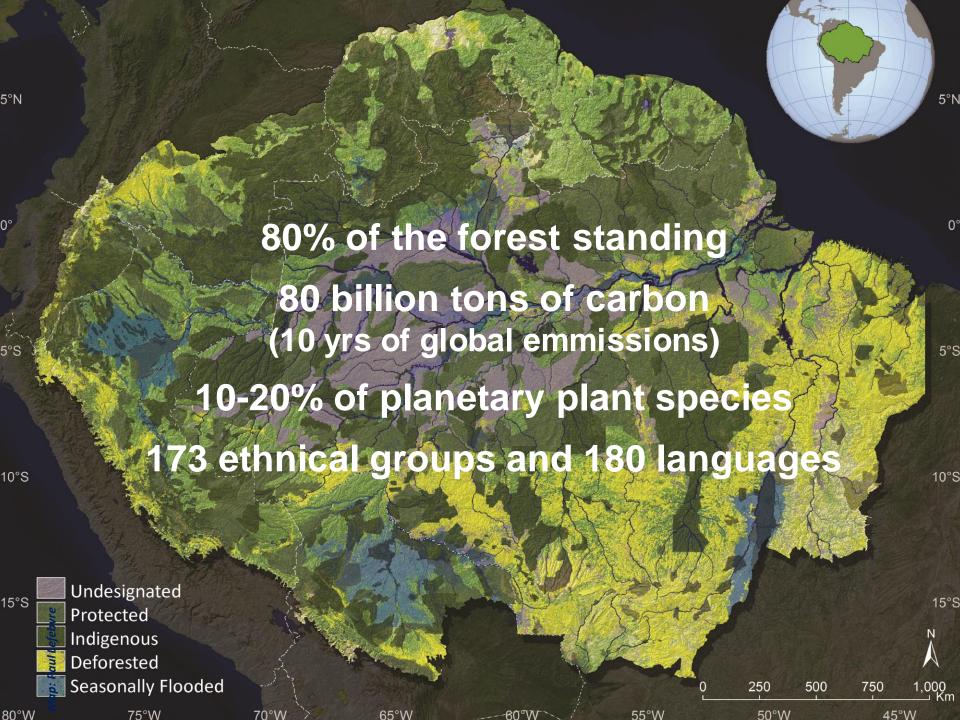


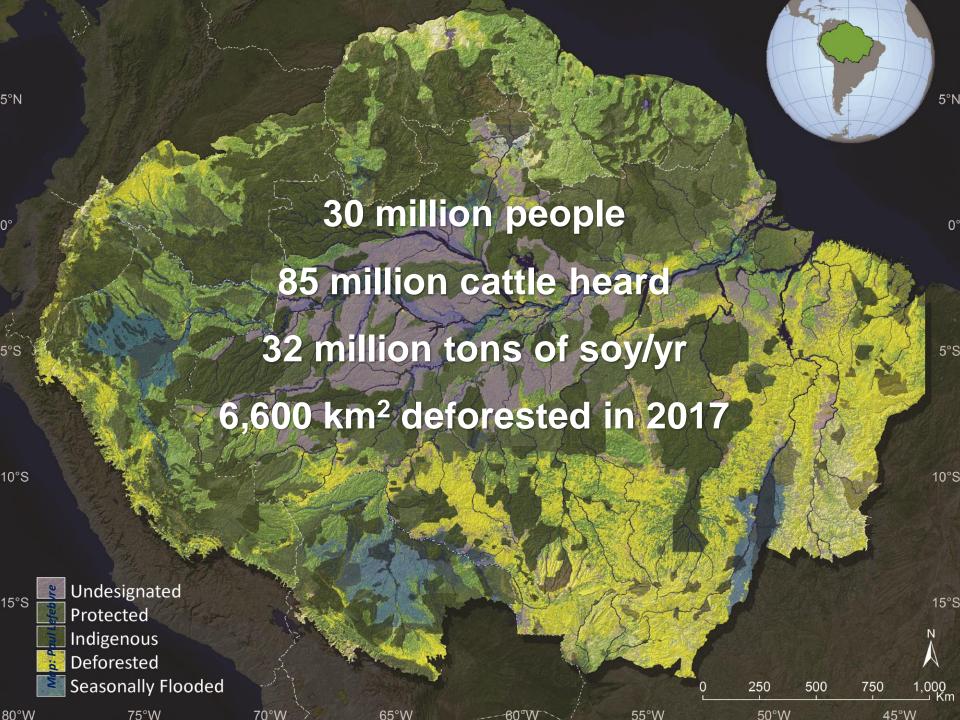
Message #2

Brazil is an Environmental Powerhouse







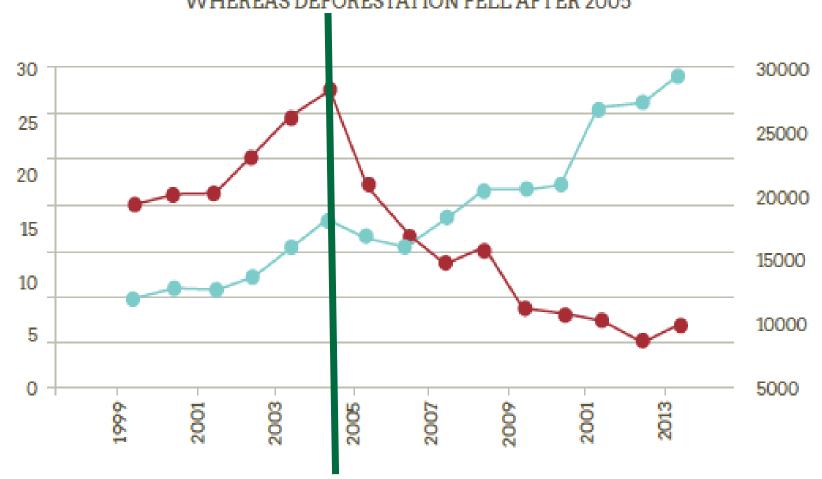




Message #3

The paradigm "expand to grow" has to be replaced for "intensify to grow"

VALUE OF AGRICULTURAL PRODUCTION INCREASED WHEREAS DEFORESTATION FELL AFTER 2005



Km² deforested/year

- Yearly deforestation
- Value of agricultural production



Looking ahead

The role of public policies to continue to reduce deforestation and increase production



Public policies into action!

1- National Protected Area System must continue its implementation

Although today, nearly 55% of the Amazon is under protection, the biome still has 65 million hectares (2 x Germany) in undesignated forests



AMAZON PROTECTION -

1990

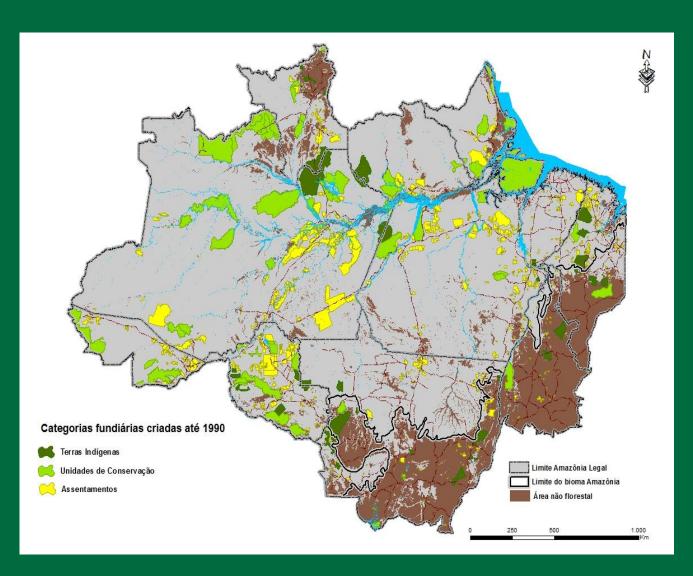
Indigenous Lands: 54

Area: 11 million ha

Protected Areas:

65

Area: 33 million ha





AMAZON PROTECTION -

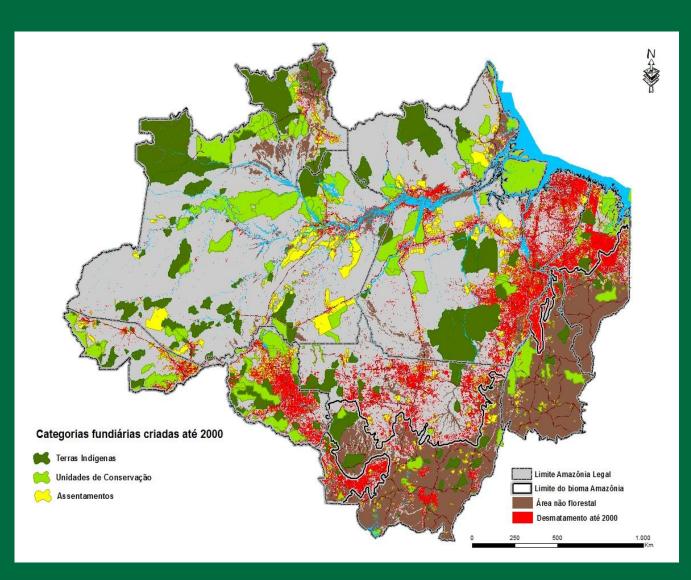
2000

Indigenous Lands: 212

Area: 69 million ha

Protected Areas: 149

Area: 54 million ha





AMAZON PROTECTION -

2013

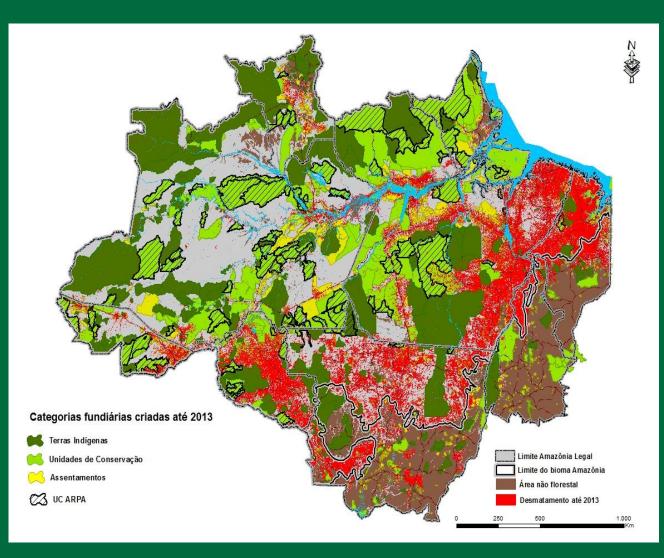
Indigenous Lands: 381

Area: 112 million ha

Protected Areas:

311

Area: 125 million ha





Public policies into action!

2- Forest Code enforced

Private properties have to set between 20% and 80% of the area for conservation – Legal Reserve

In addition, landowners have to protect vegetation near water, steep slopes and top of mountains

The Forest Code has created a "Legal Reserve surplus" of 28 million hectares in the Amazon – an asset for offsetting emissions abroad



Challenges for the future

Making agricultural production compatible with the end of deforestation – in Brazil

- 1- Payment for Environmental Services national legislation voted
- 2- Forest Code quotas in effectiveness
- 3- Investments in Protected Areas and Indigenous Territories
- 4- Investments in forest based economy



Challenges for the future

Making agricultural production compatible with the end of deforestation – abroad

- 1- Investing in agricultural intensification
- 2- Forest offsets emission schemes REDD+
- 3- Consumer's pressure ex. Soy moratorium in the Amazon
- 4- International cooperation for Amazon and Cerrado deforestation reduction



Conclusions

Brazil has a great potential both to supply food to the world and to mitigate climate change through deforestation reduction

But investments are demanded – to continue protecting forests and intensify production

More science is needed to better understand the interaction between deforestation and risks to the agriculture, particularly from an economic perspective, both micro and macro

National and global payment for environmental services schemes must be implemented ASAP







Thank You!!!

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