

# Brazilian Policy to tackle deforestation in the Amazon

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Minitry of Environment - MMA
Climate Change Secretary - SMCQ
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Why More Women Are Choosing C-Sections



Can Richard Branson Save the Airline Industry?

# SPECIAL ENVIRONMENT ISSUE

# How to Win The War On Global Warming

BY BRYAN WALSH



### The Amazon challenge...



- 5.1 million Km<sup>2</sup>
- 23 million people (12% of Brazil's)
- 350,000 indigenous people
- 70% urban population
- 46% below poverty line (2<sup>nd</sup> poorest region)
- 17% deforested

#### **Global Benefits**

- World's largest rainforest
- Unique biodiversity
- 20% globe's fresh water
- Carbon stocks

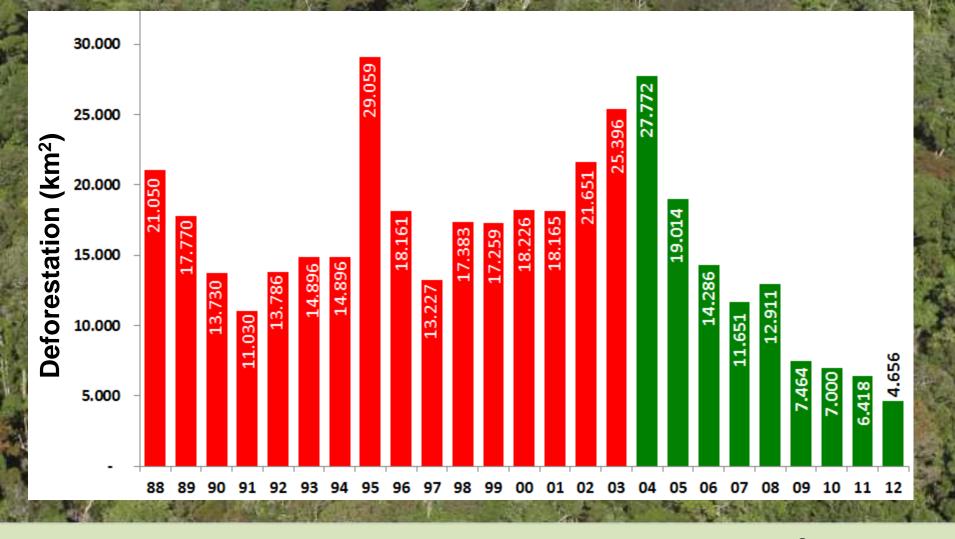


# Impossible...

is a word used by those who prefer to live the world as it is, instead of using the power they have to change it.







Deforestation in 2012: 4.656 km<sup>2</sup>

- 83% (2004-2012)



Brazil is committed to reduce 36.1% of GHG emissions by 2020 and has already reduced 50%









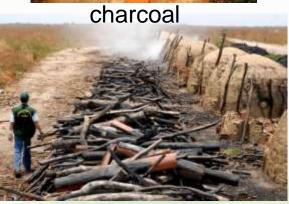
### **Deforestation Drivers**





















#### **National Climate change policy**

Lei nº 12.187 de 29 de dezembro de 2009

"Art. 3º. National Climate Change Policy Instruments are:

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I –National climate change plan;
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II – National climate change fund;

III – Biome Plans to prevent and control deforestation;

..



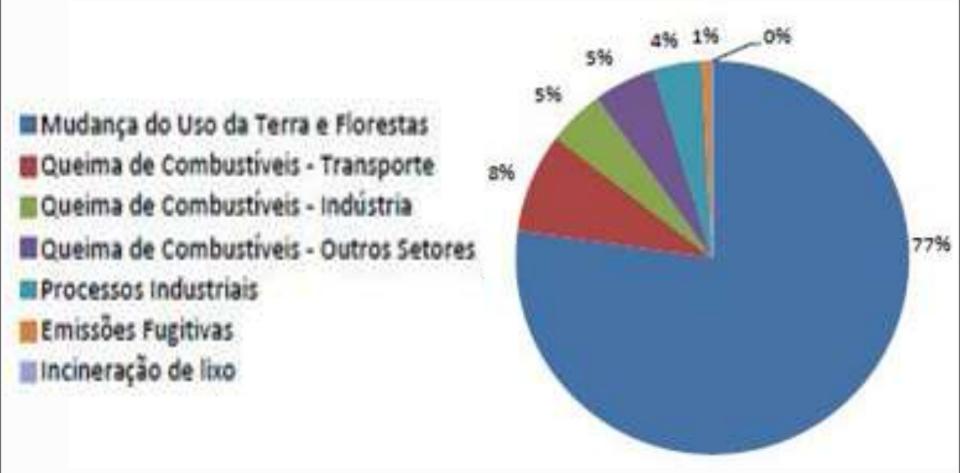
## National climate change plan (Sectorial Plans)

PLAN	AREA	NOTE
Amazon	Control and monitoring deforestation (80% by 2020)	On-going
Cerrado (savannas)	Control and monitoring deforestation (40% by2020)	On-going
Energy	Energy efficiency	On-going
Agriculture	Low carbon agriculture	On-going
Industry	Steel (charcoal), cement, chemistry, pulp and paper, aluminum, glass	Public consultation 2012
Transport	Urban mobility and logistics	Public consultation 2012
Health	Adaptation to climate change	Public consultation 2012
Mining	Extraction and pelotization	Public consultation 2012
Fishing (voluntary)	Energy efficiency and adaptation	Studies funded by Climate Change Fund





### Brazilian CO<sub>2</sub> Emissions by sector



Fonte: Adaptado de MCT, 2010a. Second Brazil National Communication to the UN Framework Convention on Climate Change. Brasília: MCT –General Coordination on Global Climate Change.







### In January 2003...





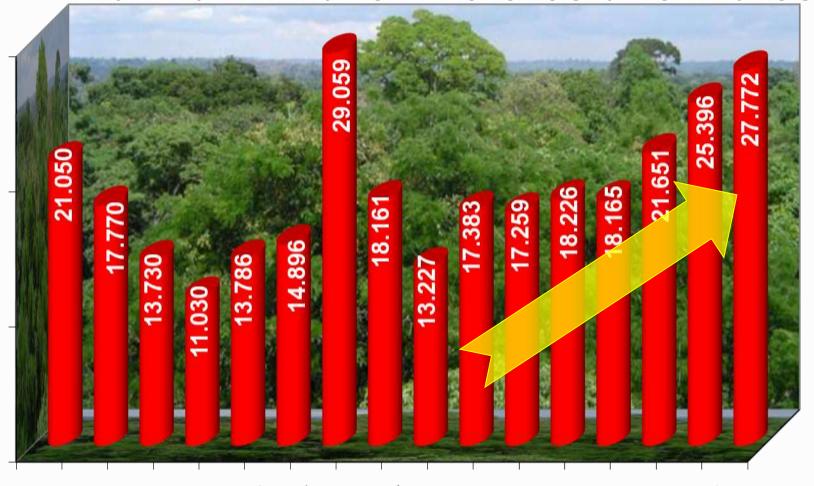
#### Brazilian Amazon Deforestation rates

Km<sup>2</sup>

30.000

20.000

10.000



1/3/8 8888 88180 30181 3/185 3 34 34182 32186 36181 3/188 38189 38100 0010, 0/105 05103 03104

Ministério do Meio Ambiente



#### **Executive Office of the Presidency**

Presidential Decree 3/07/2003

#### **Interministerial Permanent Workgroup**

Dedicated to reduce deforestation rates in the Legal Amazon





#### 8 months later...

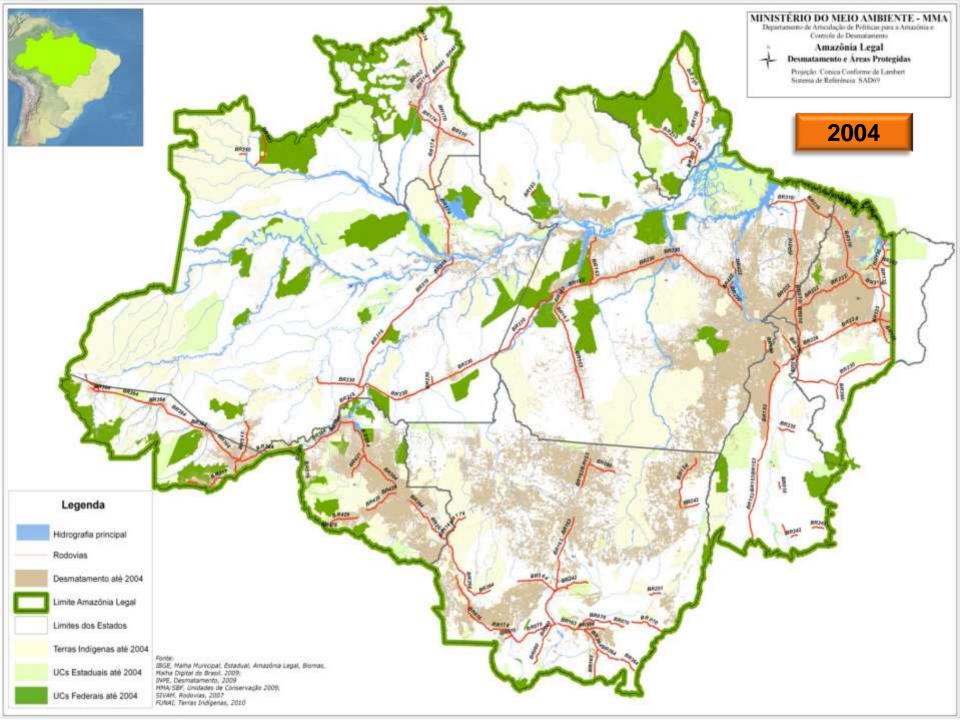
# Interministerial Action Plan (March 2004)

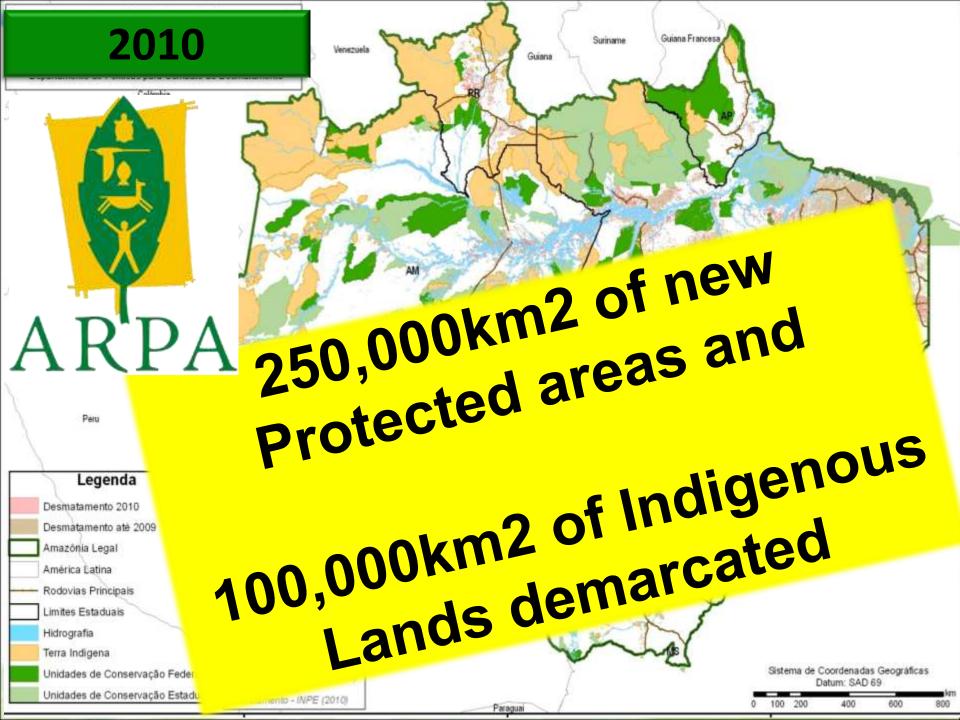
- 1. Land use planning
- 2. Monitoring and Control

3. Sustainable Activities









# Monitoring and Control Integrated actions











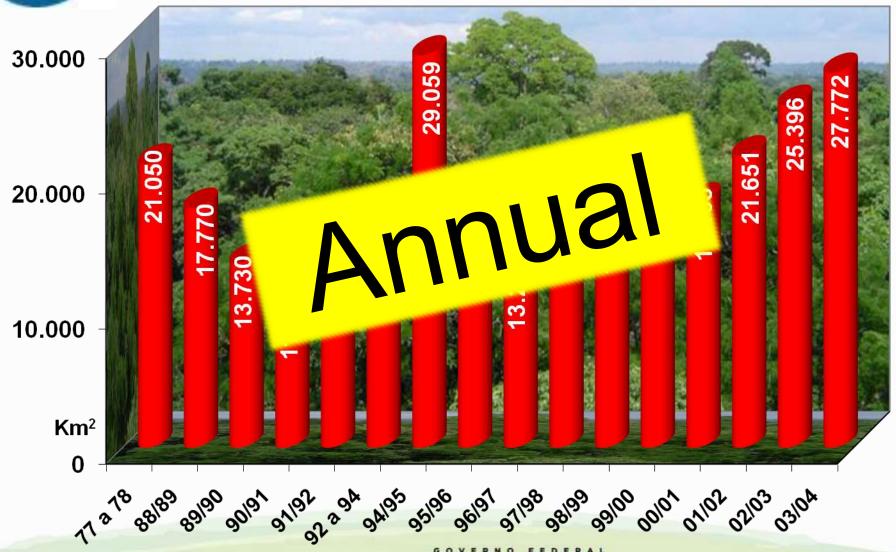
Remote Sensing Centre





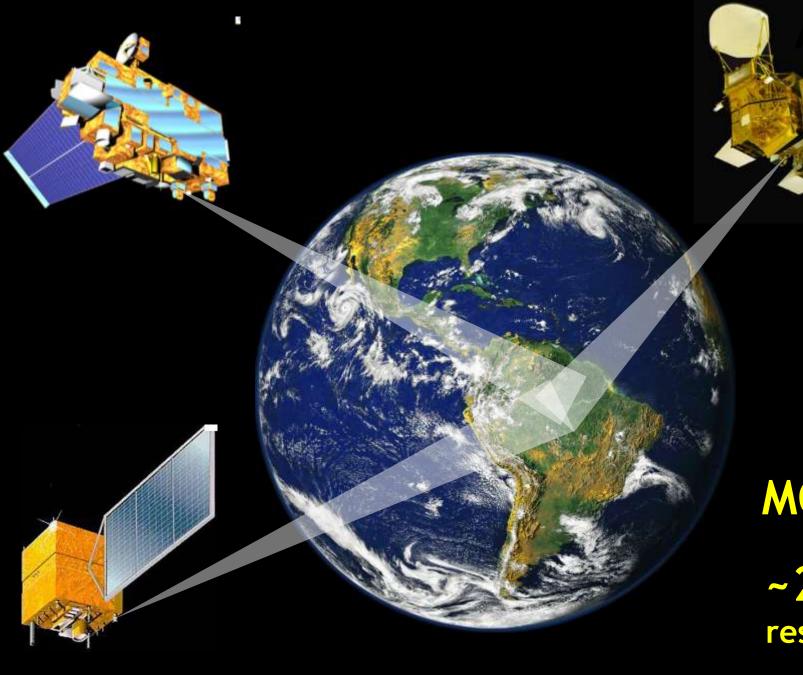


### PRODES system



Ministério do Meio Ambiente





MODIS\*

~250m resolution



New data every day



# Mapping forest degradation in the Brazilian Amazon



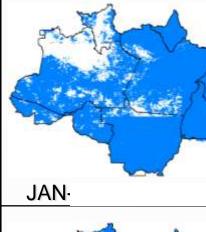


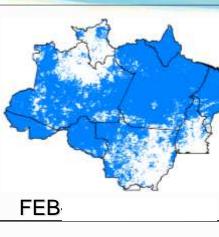
## Selective logging detection

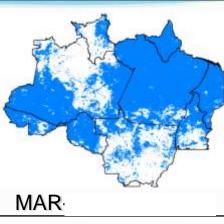


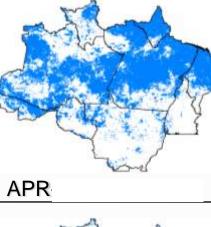


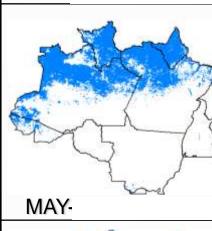


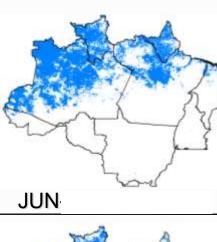


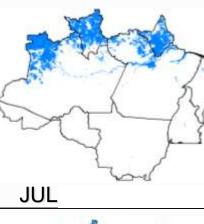


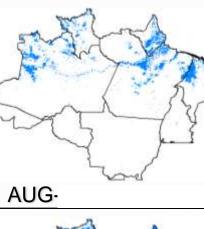


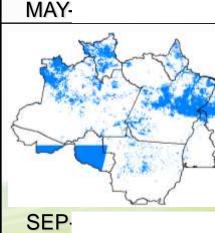




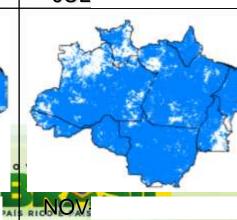


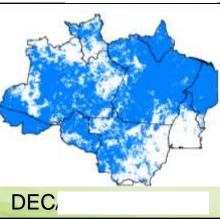












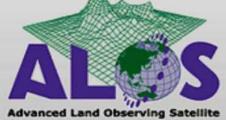




### INDICAR



Indicador de desmatamento por imagens de radar









Levantamento de informações de uso e cobertura da terra na Amazônia

#### Sumário Executivo

EMPRESA BRASELHRA DE PESOCISA ACROPECIAR RA - EMBRARA | INSTITUTO NACIONAL DE PESOCISAS ESPACIALS - BY







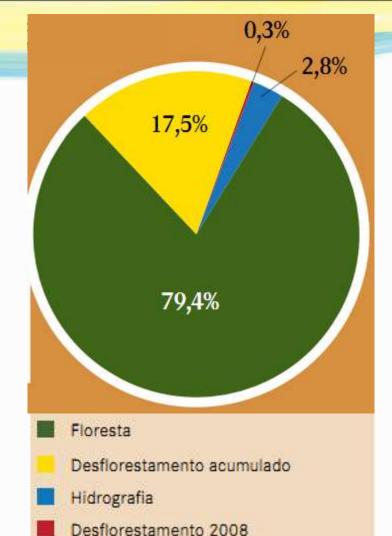
Ministério do Meio Ambiente



Ministério da Ciência, Tecnologia e Inovação Ministério da Agricultura, Pecuária e Abastecimento



BRESIL
PAÍS RICO É PAÍS SEM POBREZA

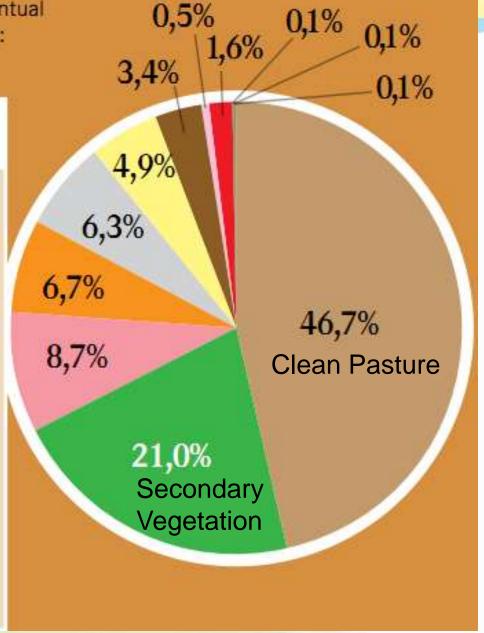


O gráfico a seguir apresenta a distribuição percentual das classes temáticas mapeadas pelo TerraClass:

#### TERRACLASS 2008

#### Classes de Uso e Cobertura da Terra nas áreas desflorestadas da Amazônia

- Pasto Limpo
- Vegetação Secundária
- Pasto Sujo
- Regeneração com Pasto
- Área Não Observada
- Agricultura Anual
- Mosaico de Ocupações
  - Área Urbana
- Mineração
- Pasto com Solo Exposto
- Outros
- Desflorestamento 2008

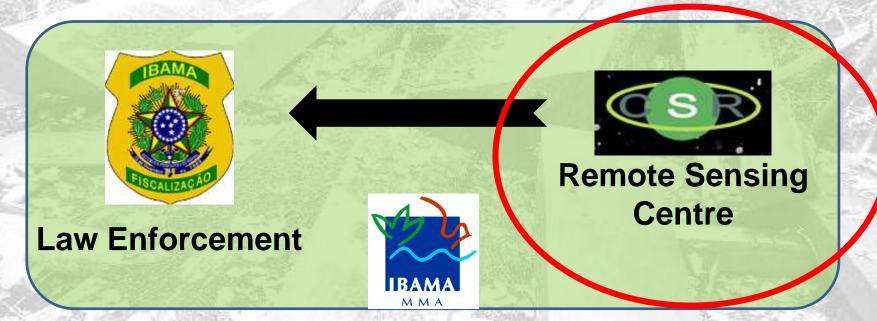


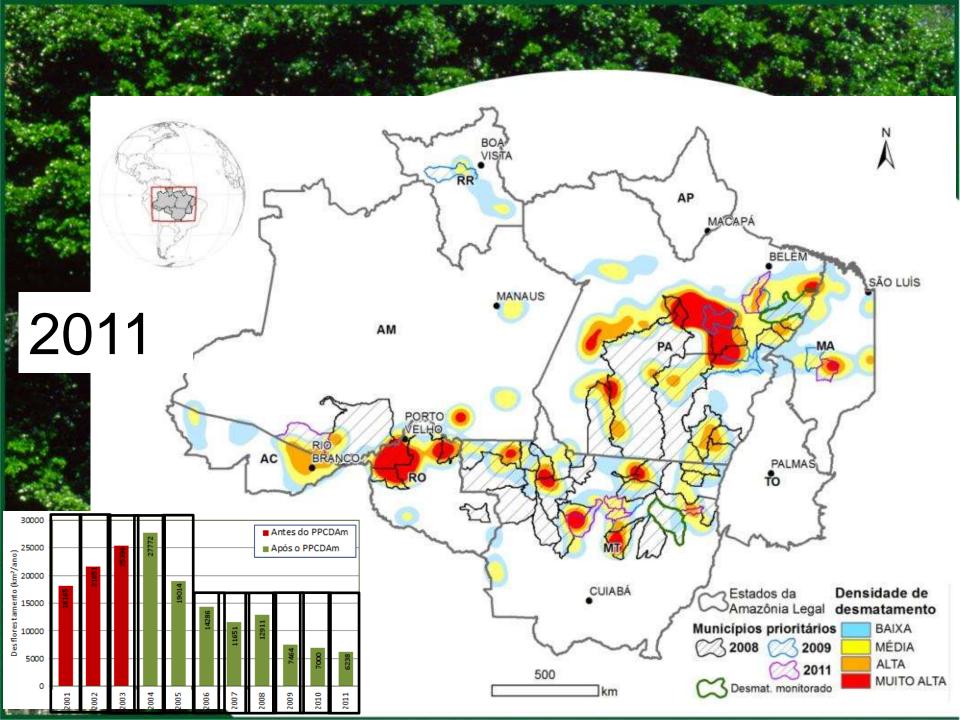




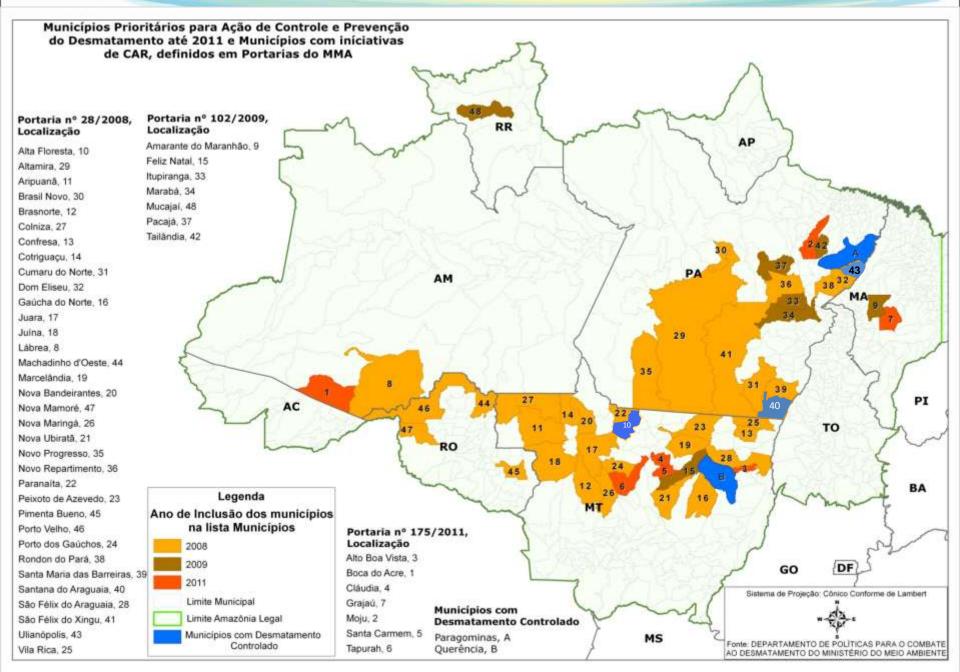
### 2 days later...

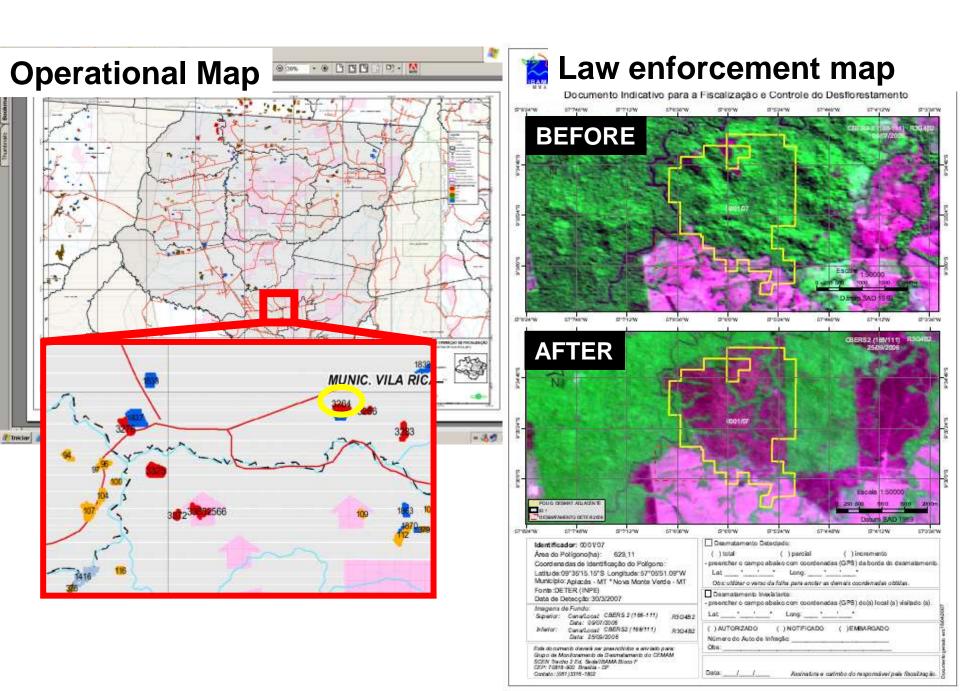




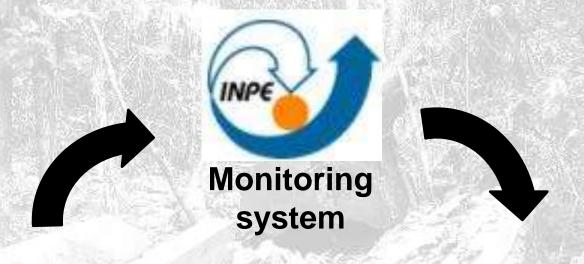


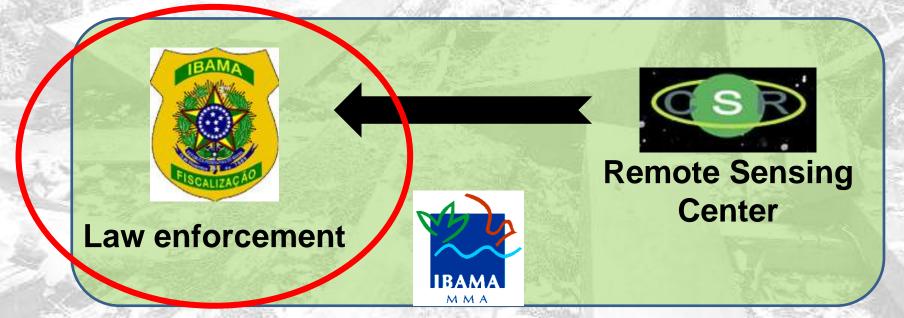
#### Decree nº 6321/2007 - Priority municipalities





## ...in 2 days...









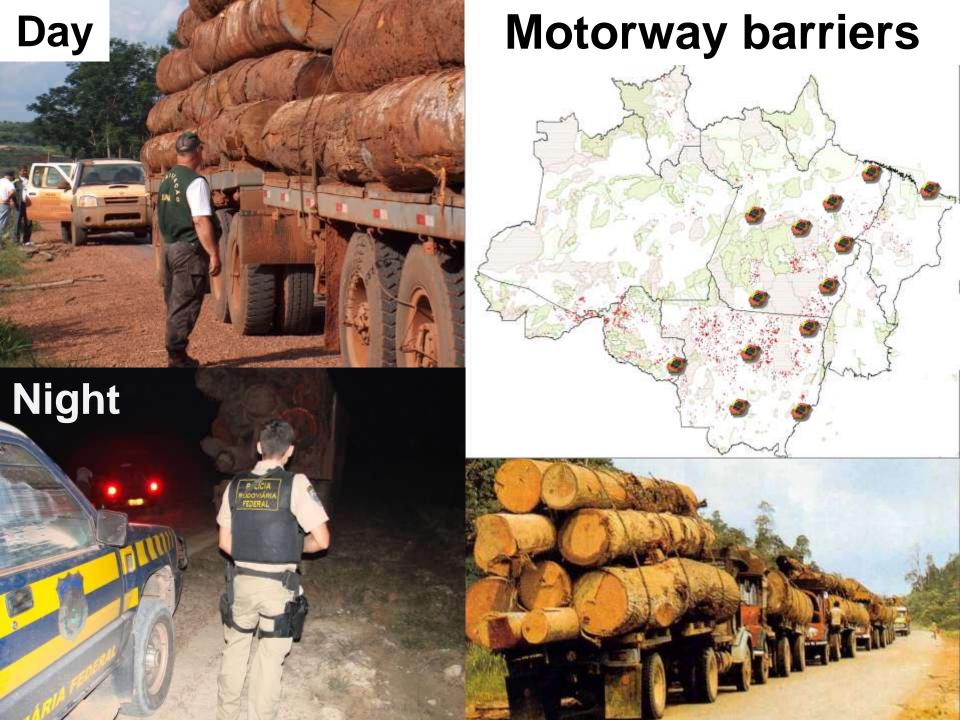














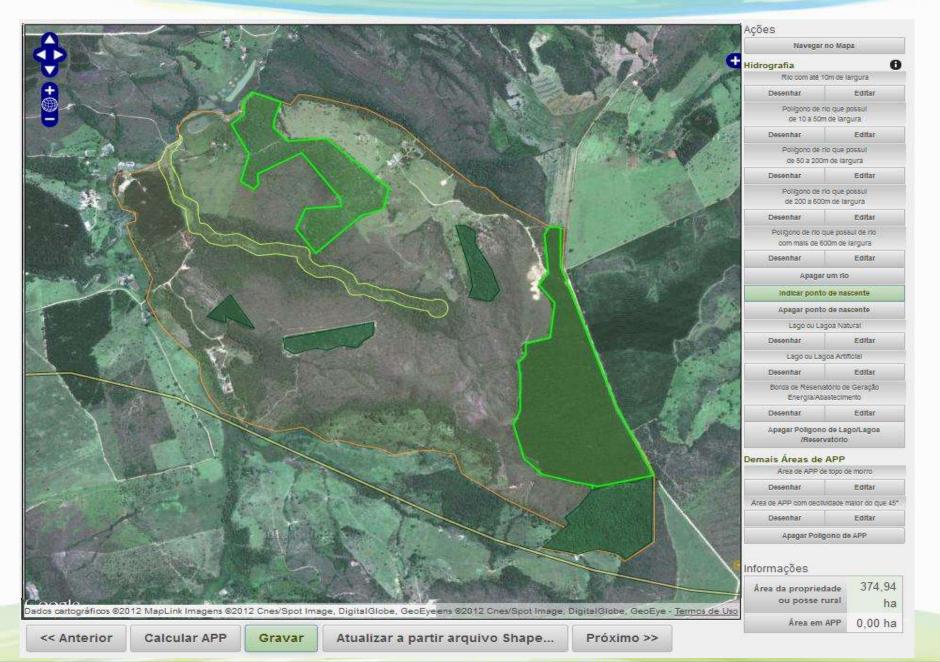
# Eletronic Fine PDA

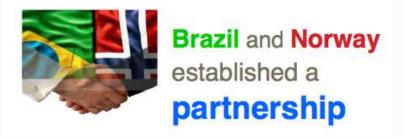






## Environment regularization of private properties (CAR)







 A voluntary mechanism of fund raising dedicated to support projects and action plans that will contribute to prevent and reduce deforestation, and to promote the sustainable use of the forest in the Amazon region.



# Supported Categories

To achieve its objectives,

the Amazon Fund

supports projects

in the following areas:

(specified in Decree nº. 6527/08)

- Management of public forests and protected areas;
- Environmental control, monitoring and surveillance;
- Sustainable forest management;
- Economic activities developed from sustainable use of the forest;
- Ecological and economic zoning, land-use planning and land title regulation;
- Conservation and the sustainable use of biodiversity and;
- Recovery of deforested areas.





#### ACTO

### Amazon Cooperation Treaty Organization First international project launched in Rio+20



Some 7 million km<sup>2</sup> stretched across nine countries in South America:



Bolivia



Suriname



Ecuador



Guiana



Venezuela



French Guiana



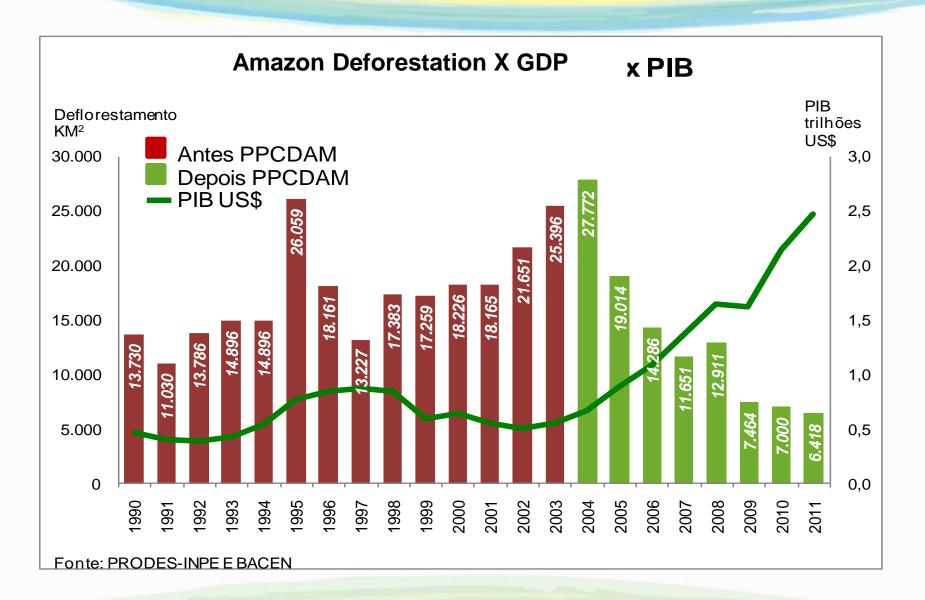
Colombia



Brazil



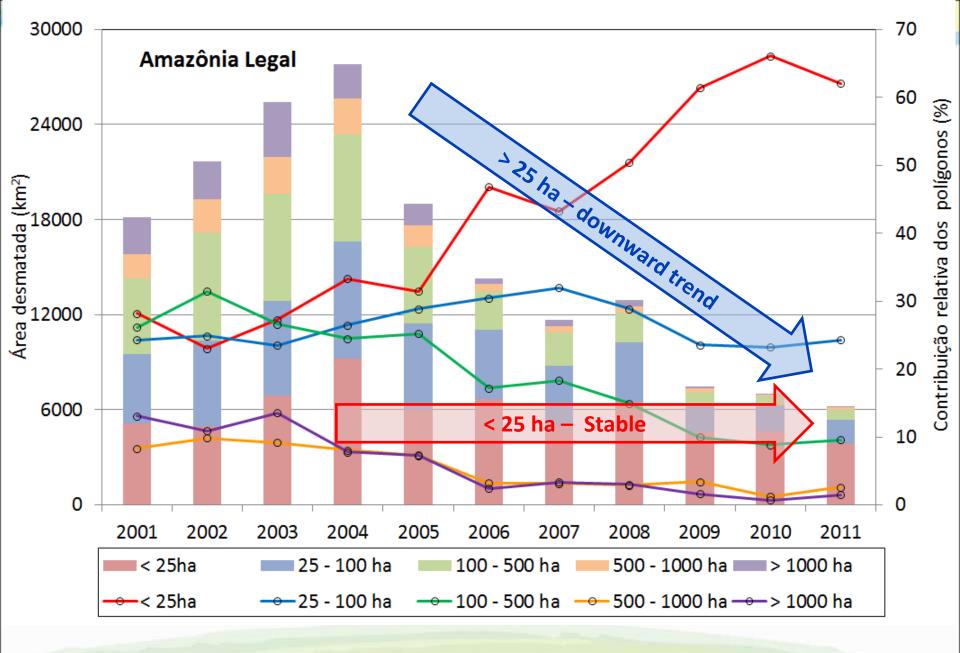










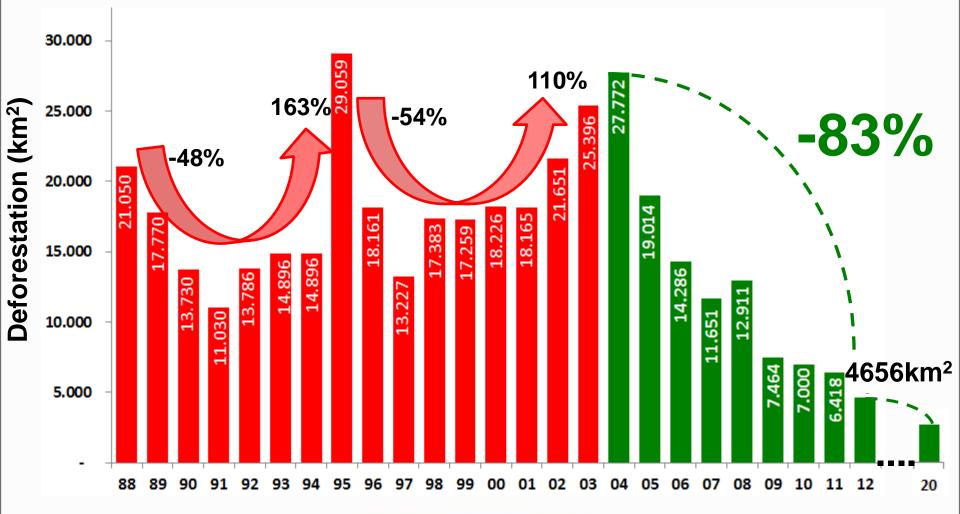






## **Brazilian Amazon Deforestation rates**

(1988-2012)



Year





"At first I thought I was fighting to save rubber trees.
Then, I was fighting to save the Amazon rainforest.
Now I realize I am fighting for humanity!"



Chico Mendes
Rubber tapper

## Thank you!

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