



Brazilian Forest Service

“Implementing the Brazilian forest code”

June 2018





The **Brazilian Forest Service** is an institution under the Ministry of Environment whose mission is to promote the economic and sustainable use of Brazilian forests with a view to **integrating forest-based development in the country's economic and strategic agenda**



Research and Forest Information



Forest Concessions



Forestry promotion



Rural Environmental Registry



MINISTÉRIO DO
MEIO AMBIENTE



What is CAR

Law 12.651/2012 – “New” Forest Code

The Rural Environmental Registry – CAR:

- National level
- Mandatory for all rural properties
- Database for:
 - control and monitoring;
 - environmental and economic planning
 - support to combat deforestation.



Accessing CAR public information and data

<http://www.car.gov.br/#/consultar>

<http://www.car.gov.br/publico/imoveis/index>

CAR vector files and information regarding:

- CAR status (active, pending, canceled);
- Analysis status;
- Legal Reserve surpluses;
- PPA e LR areas pending restoration;
- Overlap and other restrictions.





Accessing CAR public data



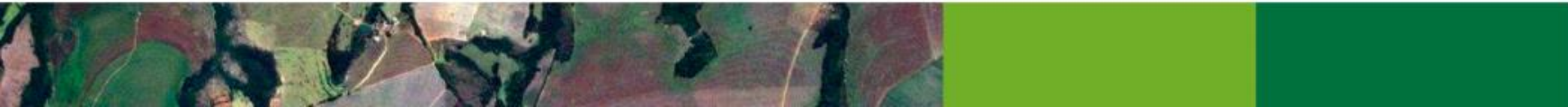
Bases de Referência

Estão disponíveis, por meio de sua Central do Proprietário/Possuidor, bases de referência que poderão subsidiar e ajudar a melhorar a declaração dos cadastros enviados, se houver necessidade.

Para mais informações acesse a [Central do Proprietário/Possuidor](#).

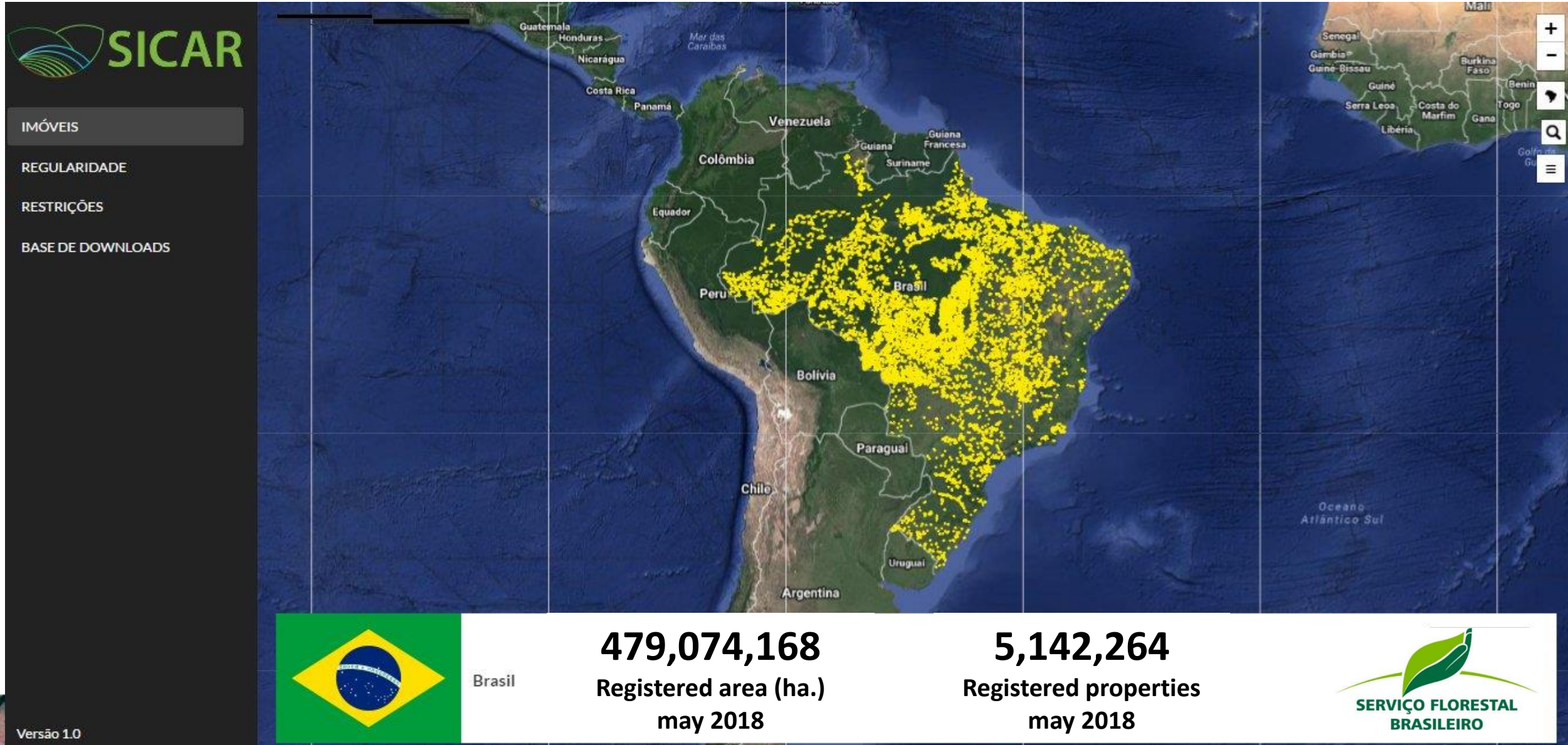
ACCESSAR A CENTRAL

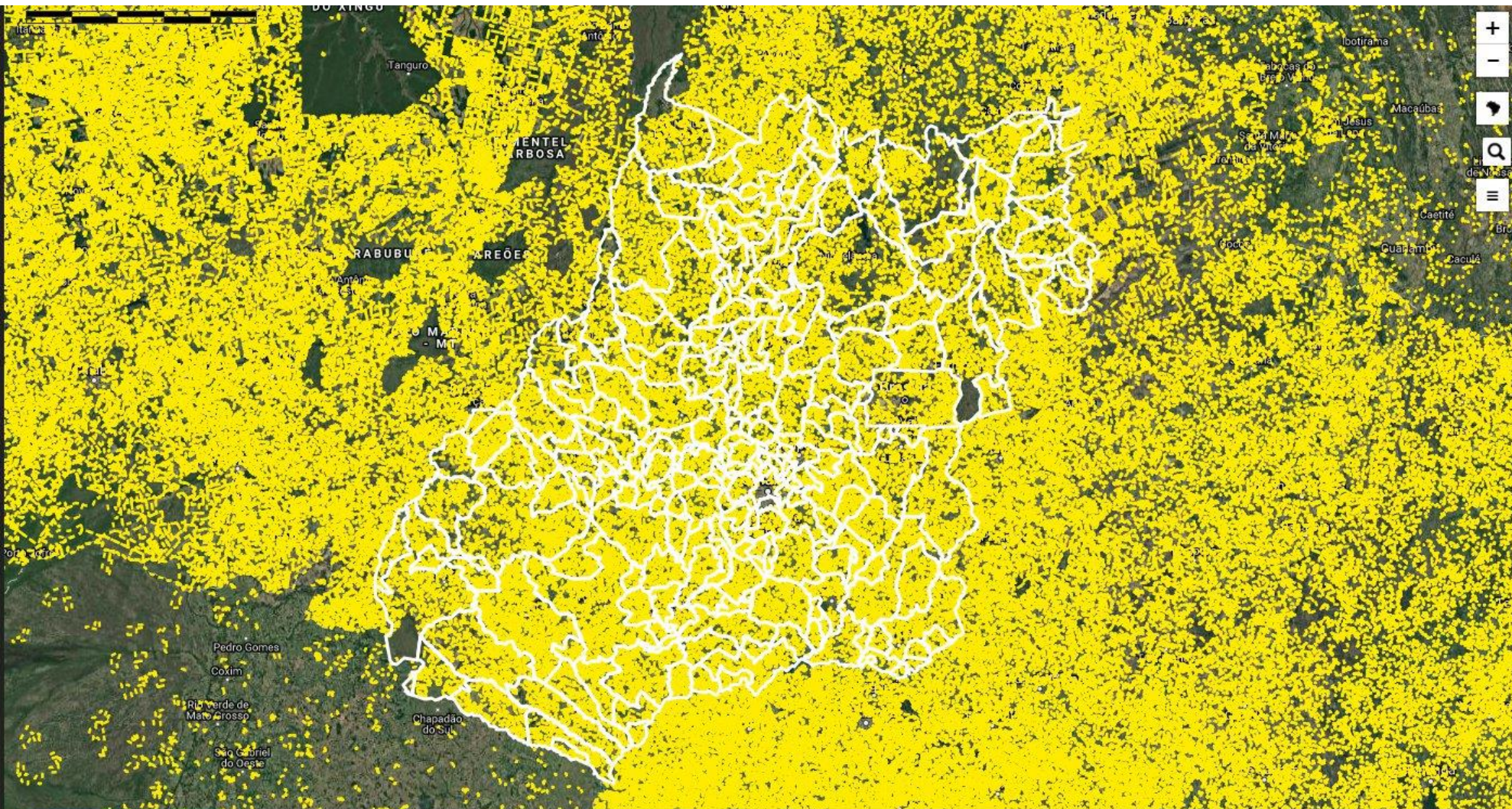
Acesse a Central do Proprietário/Possuidor
Obtenha a segunda via do recibo, retificação de imóveis e mensagens



Accessing CAR public data & info.

www.car.gov.br

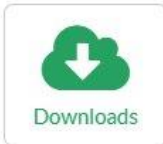




Goiás

total de imóveis:
126.848

Área cadastrada:
25.526.161,54 ha



Última atualização dos dados em 30/10/2017

Versão 1.0



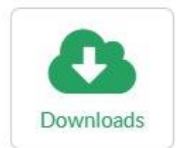
Crixás

total de imóveis:

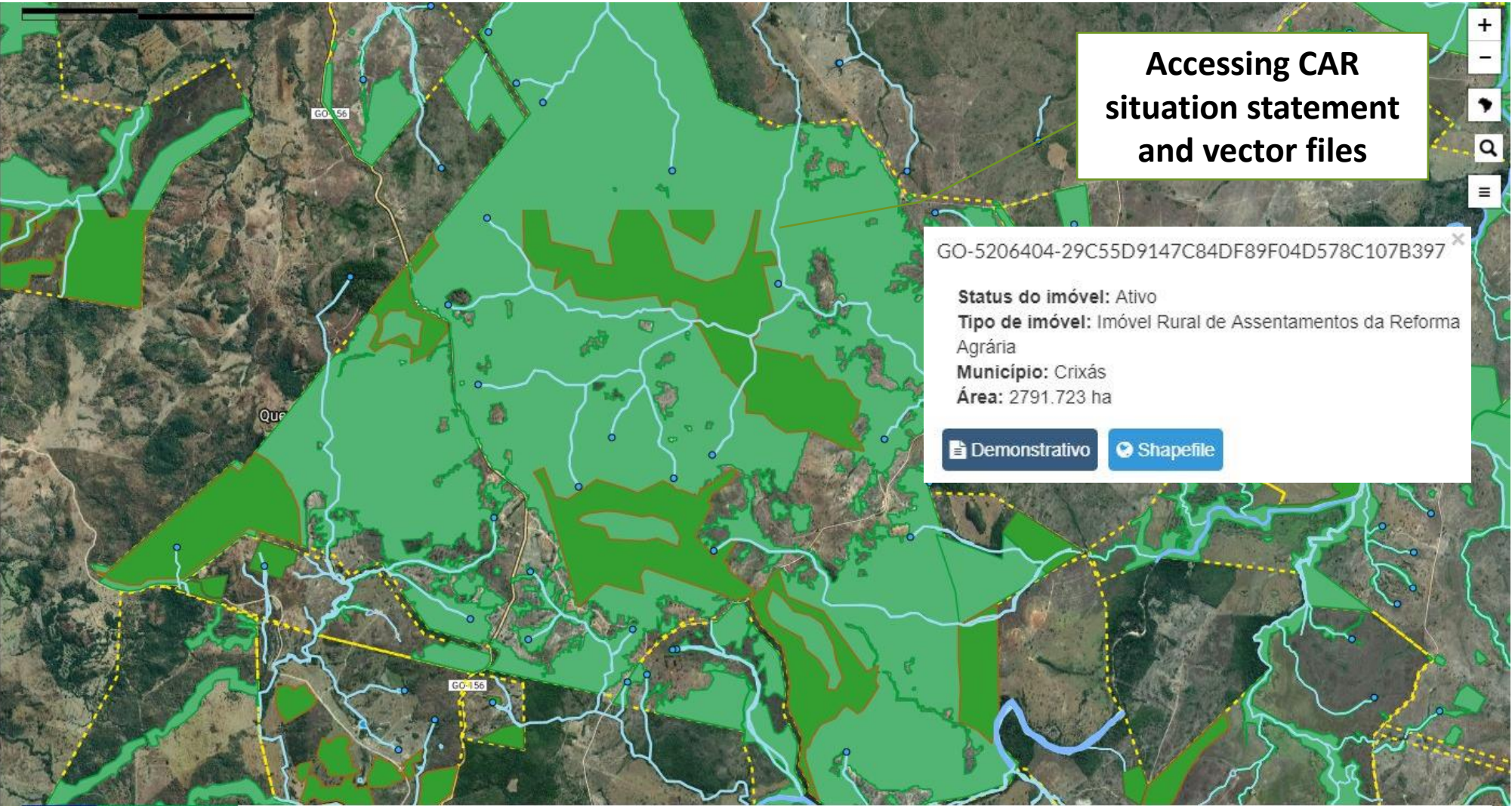
876

Área cadastrada:

260.540,13 ha



Accessing CAR
situation statement
and vector files



GO-5206404-29C55D9147C84DF89F04D578C107B397

Status do imóvel: Ativo
Tipo de imóvel: Imóvel Rural de Assentamentos da Reforma Agrária
Município: Crixás
Área: 2791.723 ha

[Demonstrativo](#) [Shapefile](#)



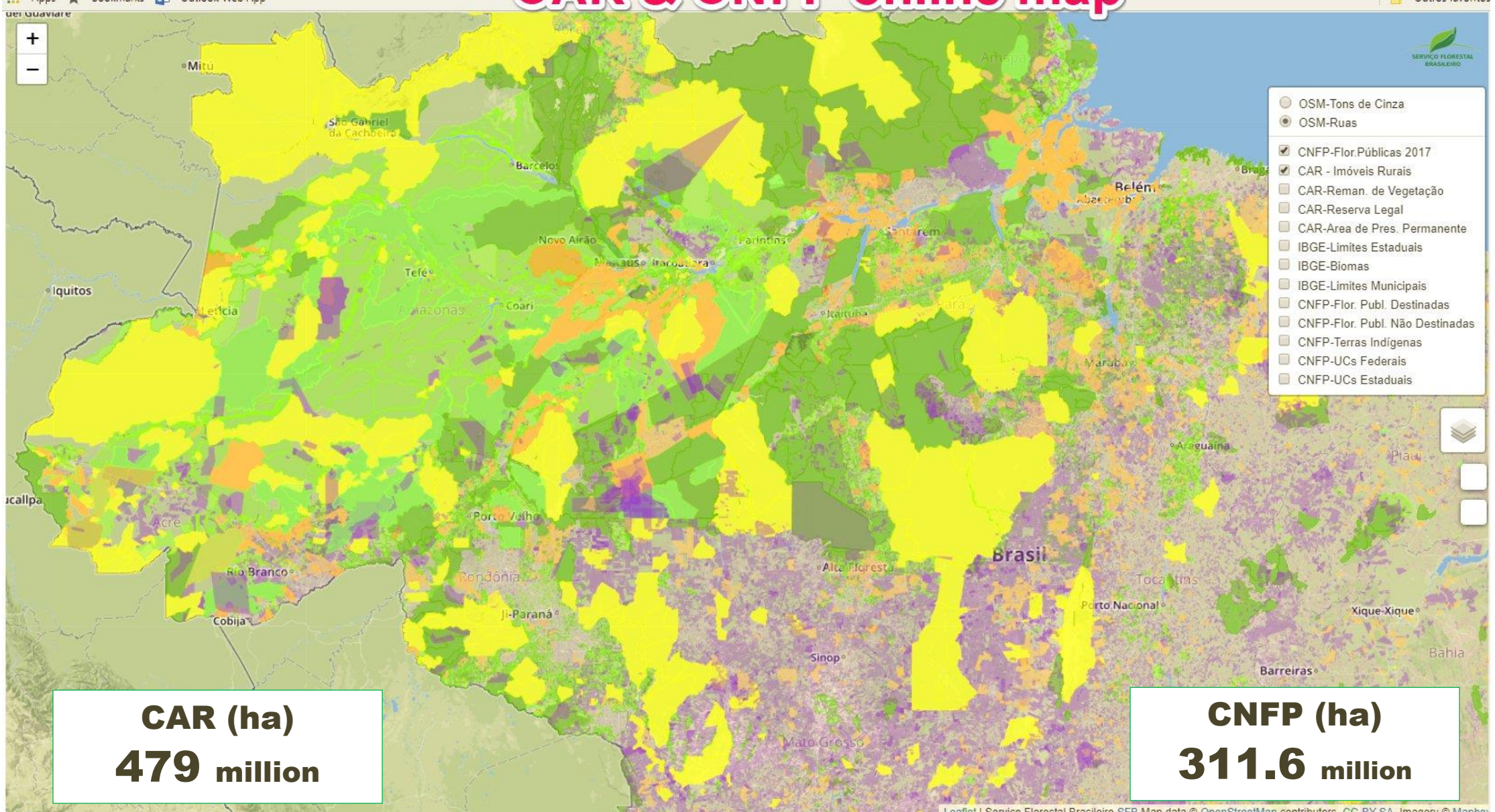
Crixás

total de imóveis:
876

Área cadastrada:
260.540,13 ha



CAR & CNFP online map



Leaflet | Serviço Florestal Brasileiro SFB Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox



MINISTÉRIO DO
MEIO AMBIENTE



Protected forest areas in rural properties (declared – march 2017)



Public Conservation Units
111.9
million hectares



Forests in rural properties
166.0
million hectares



Monitoring municipalities using CAR data and info.

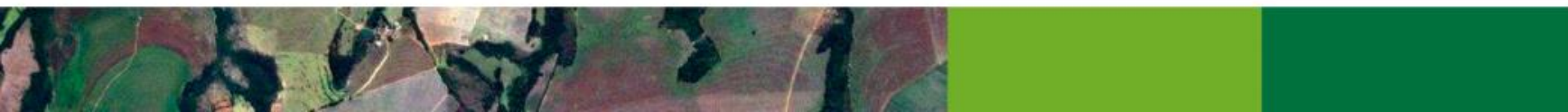
Mapas de fundo

Camadas

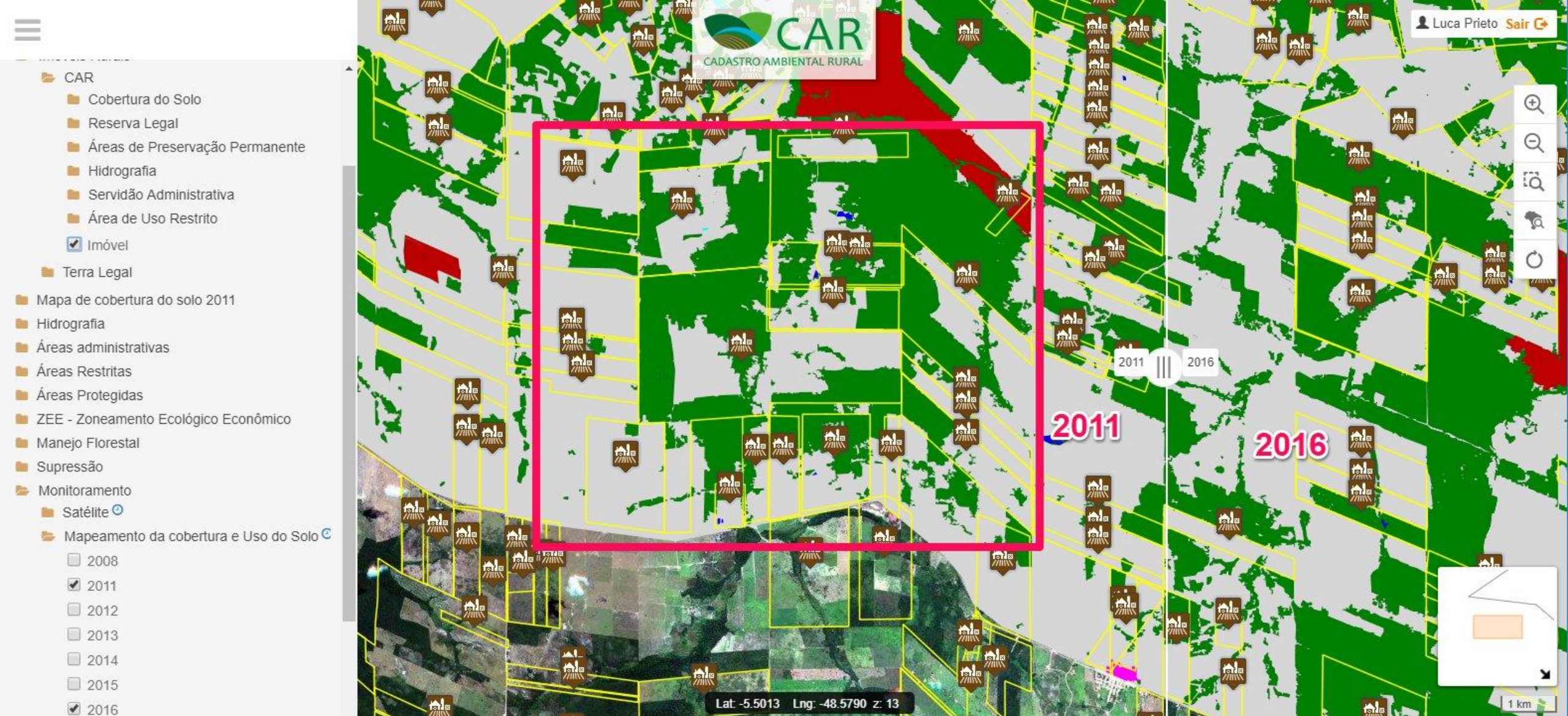
Pesquisar por nome

- Imóveis Rurais
 - CAR
 - Cobertura do Solo
 - Reserva Legal
 - Áreas de Preservação Permanente
 - Hidrografia
 - Servidão Administrativa
 - Área de Uso Restrito
 - Imóvel
 - Terra Legal
- Mapa de cobertura do solo 2011
- Hidrografia
- Áreas administrativas
- Áreas Restritas
- Áreas Protegidas
- ZEE - Zoneamento Ecológico Econômico
- Manejo Florestal
- Sunressão

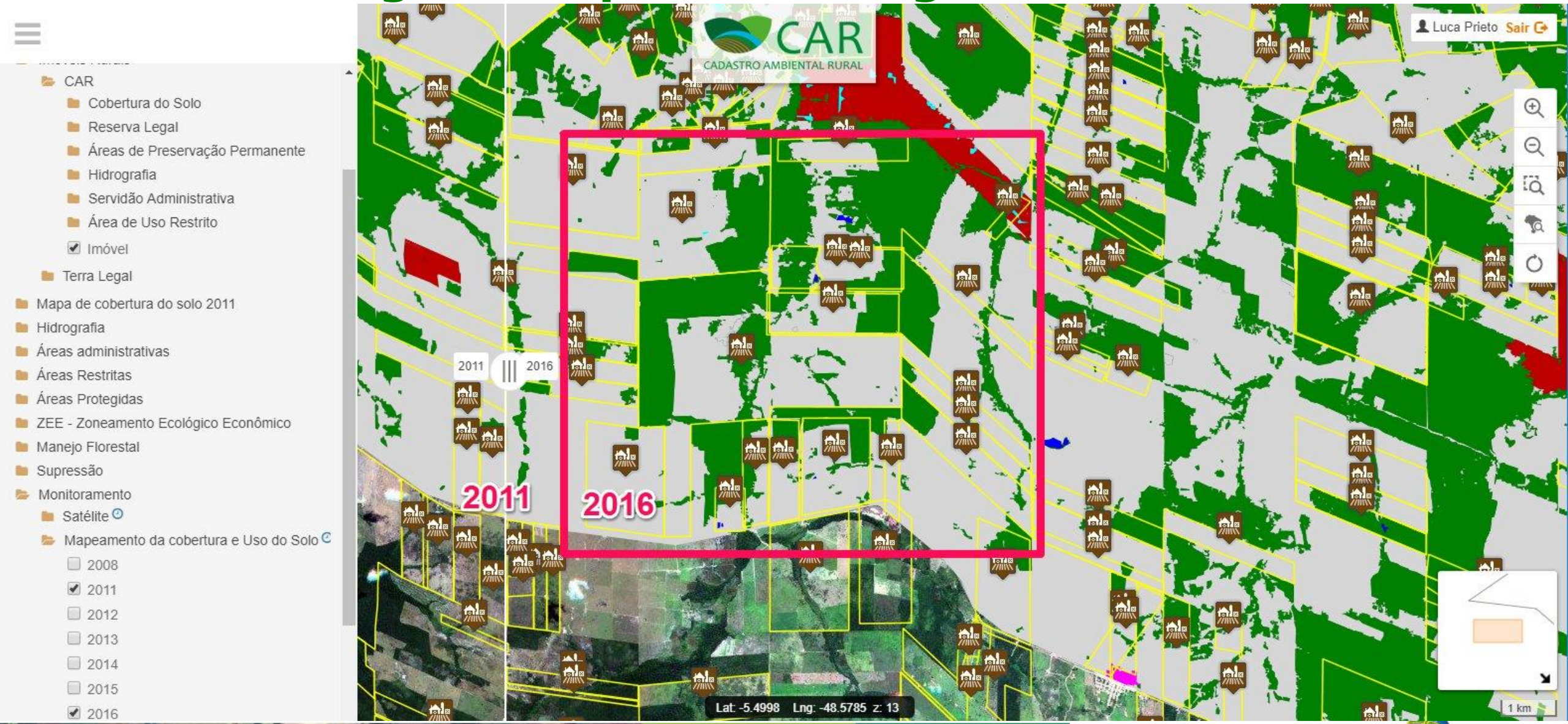
Luca Prieto Sair



Monitoring municipalities using CAR data and info.



Monitoring municipalities using CAR data and info.



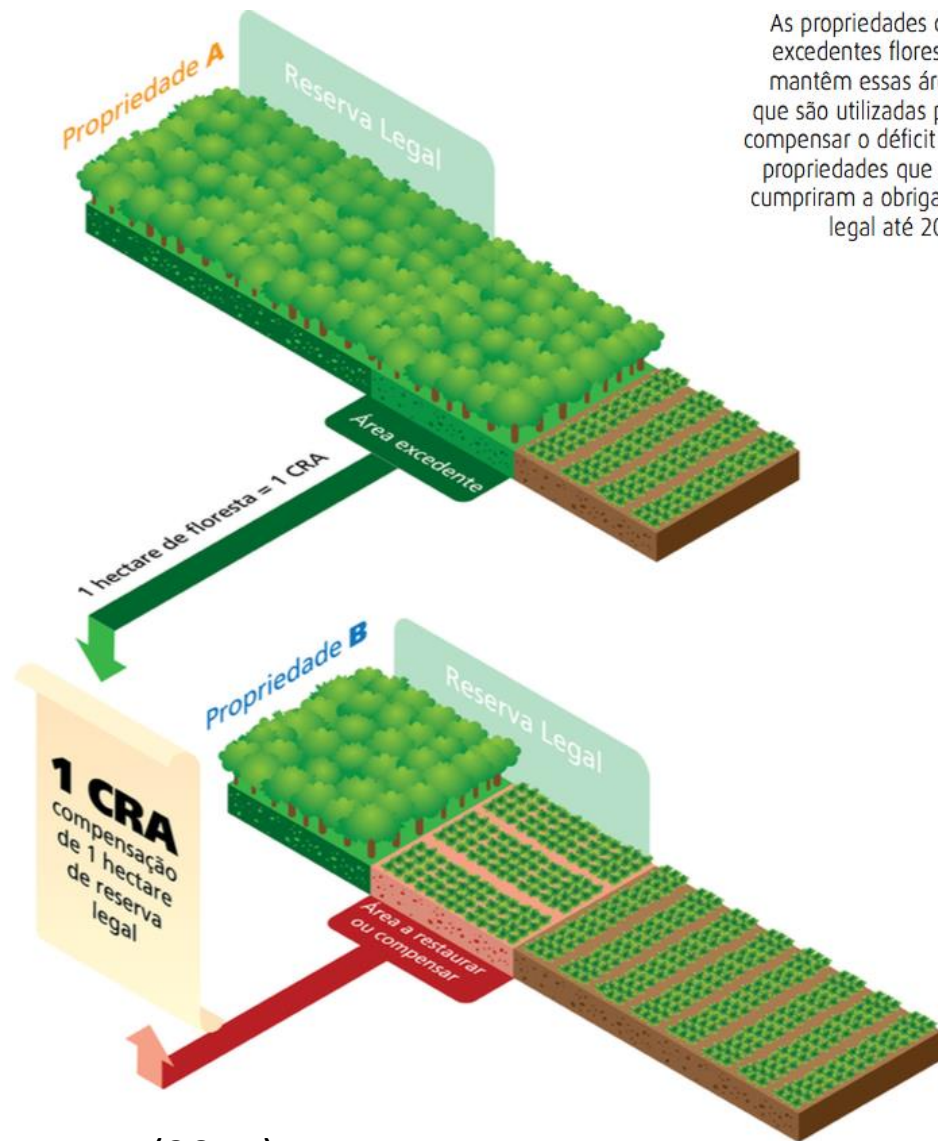
What are the Environmental Reserve Certificates – CRA?

Environmental Reserve Certificate - CRA

A certificate that represents an area of existing native vegetation (or vegetation under restoration) established in:

- areas of Legal Reserve surplus
- areas of Legal Reserve of small properties
- areas under Environmental Easement





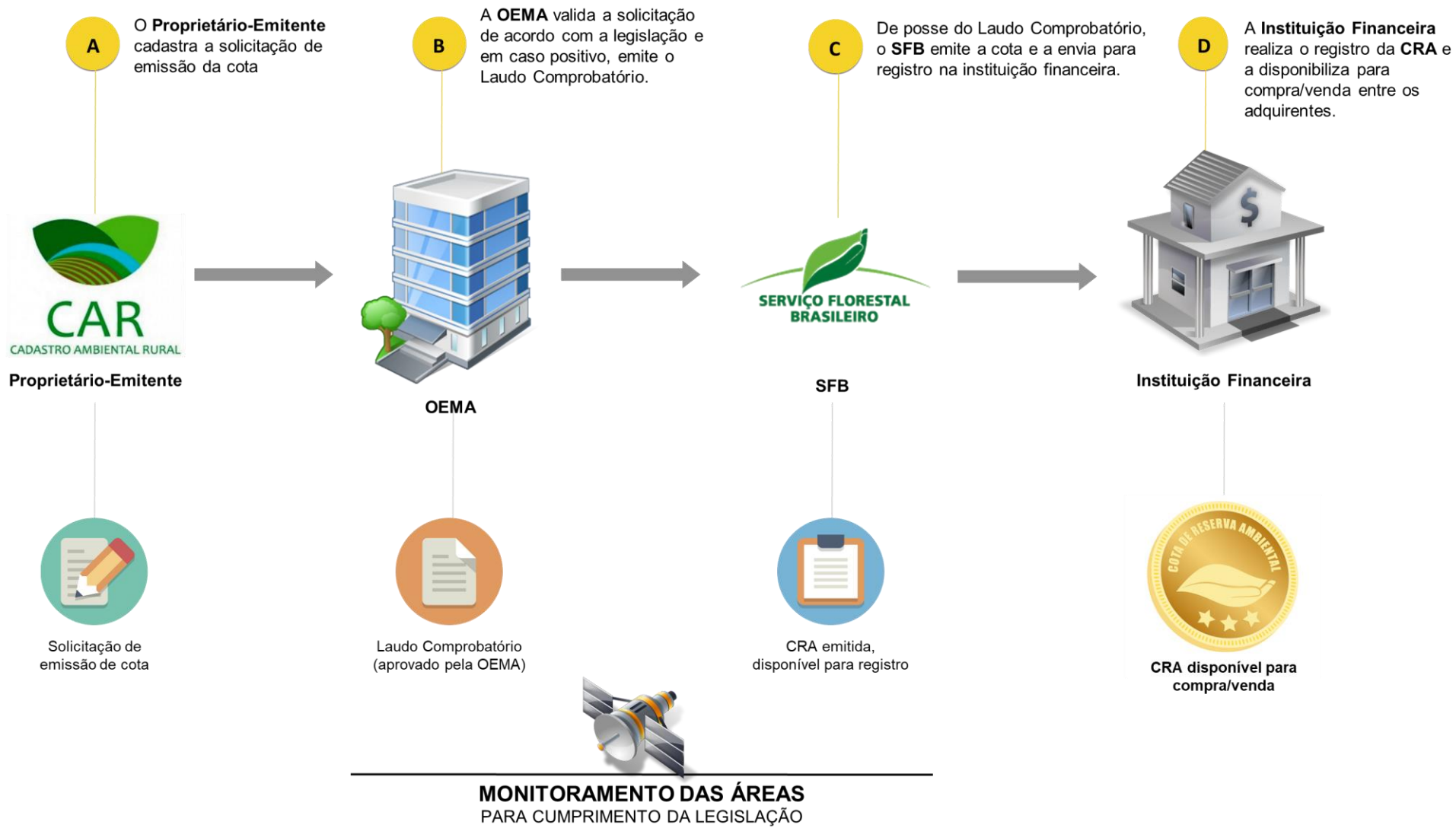
As propriedades com excedentes florestais mantêm essas áreas, que são utilizadas para compensar o déficit das propriedades que não cumpriram a obrigação legal até 2008.

Aquisição de CRA to compensate Legal Reserve

Ilustração IPAM (2015)



Steps to issue and to register a CRA



Enrironmental Reserve Certificates – CRA



Área de Remanescente de
Vegetação Nativa excedente
à RL (art.12)

2017

2018

Environmental
Reserve Certificates –
CRA



2017

2018

Environnental Reserve Certificates – CRA



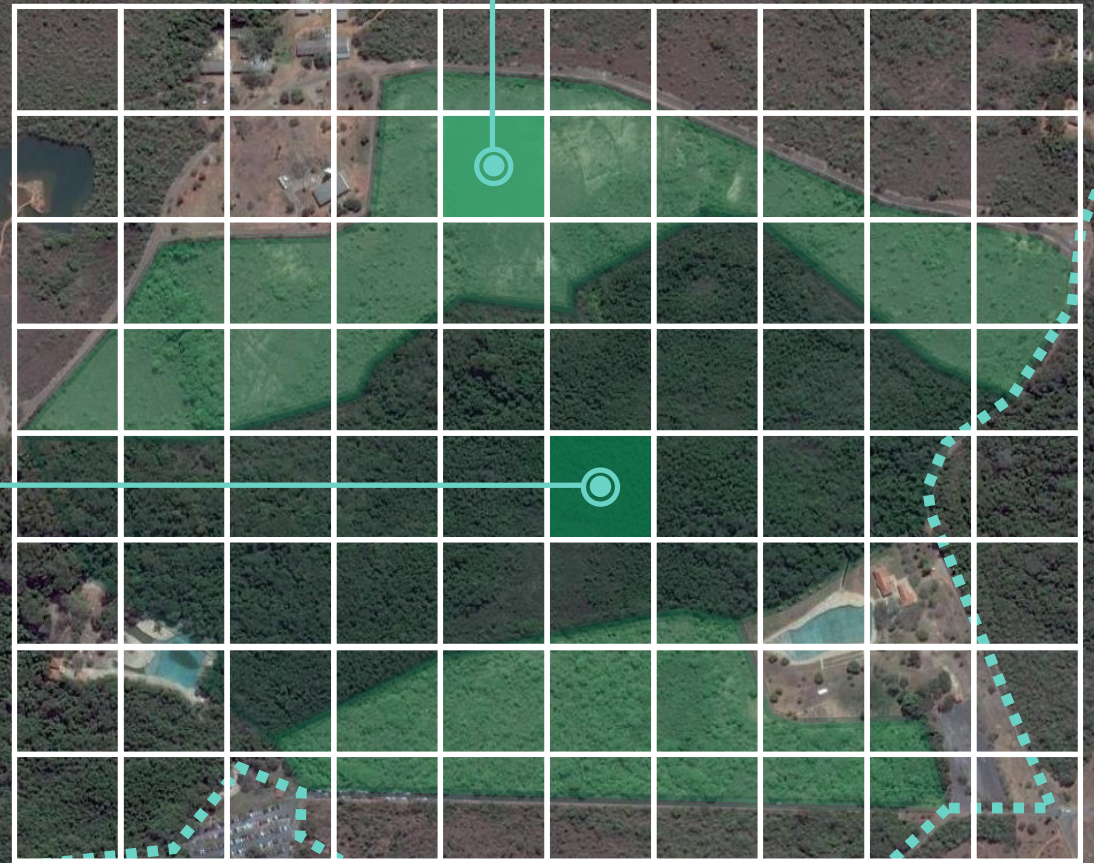
2017

2018

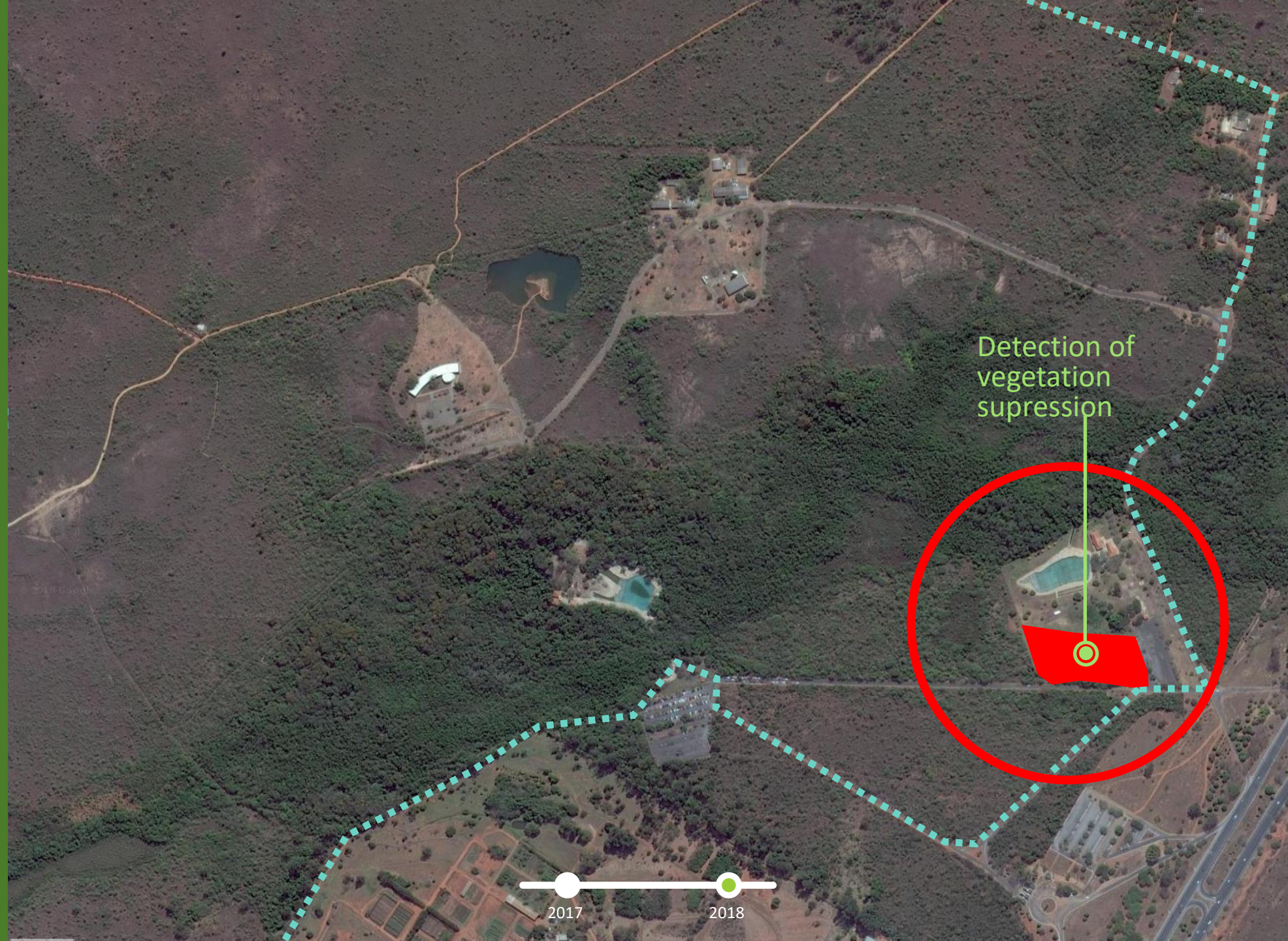
Environmental Reserve Certificates – CRA

Carbon stock in CRA
21 ton/ha

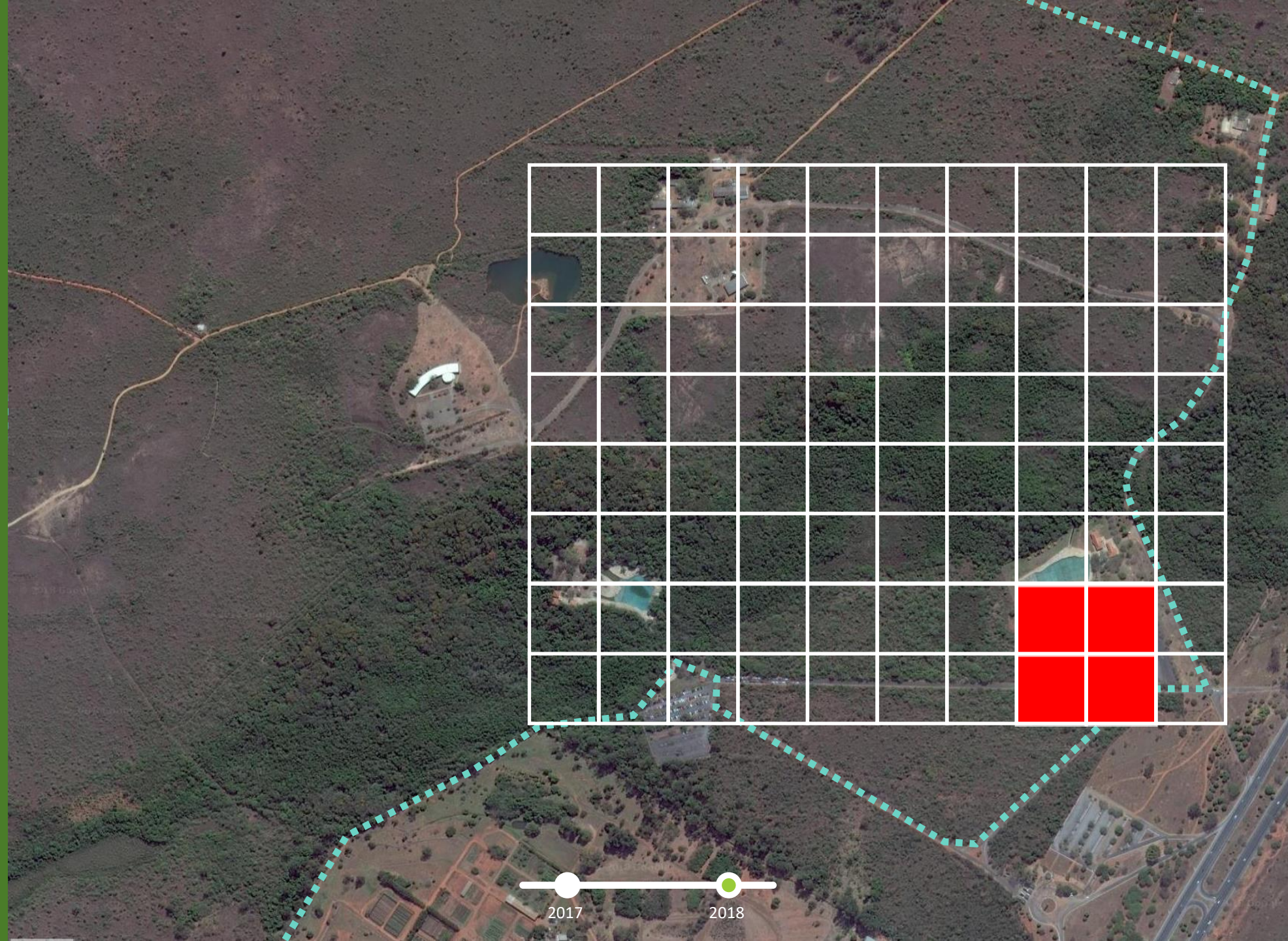
Carbon stock in CRA
5 ton/ha



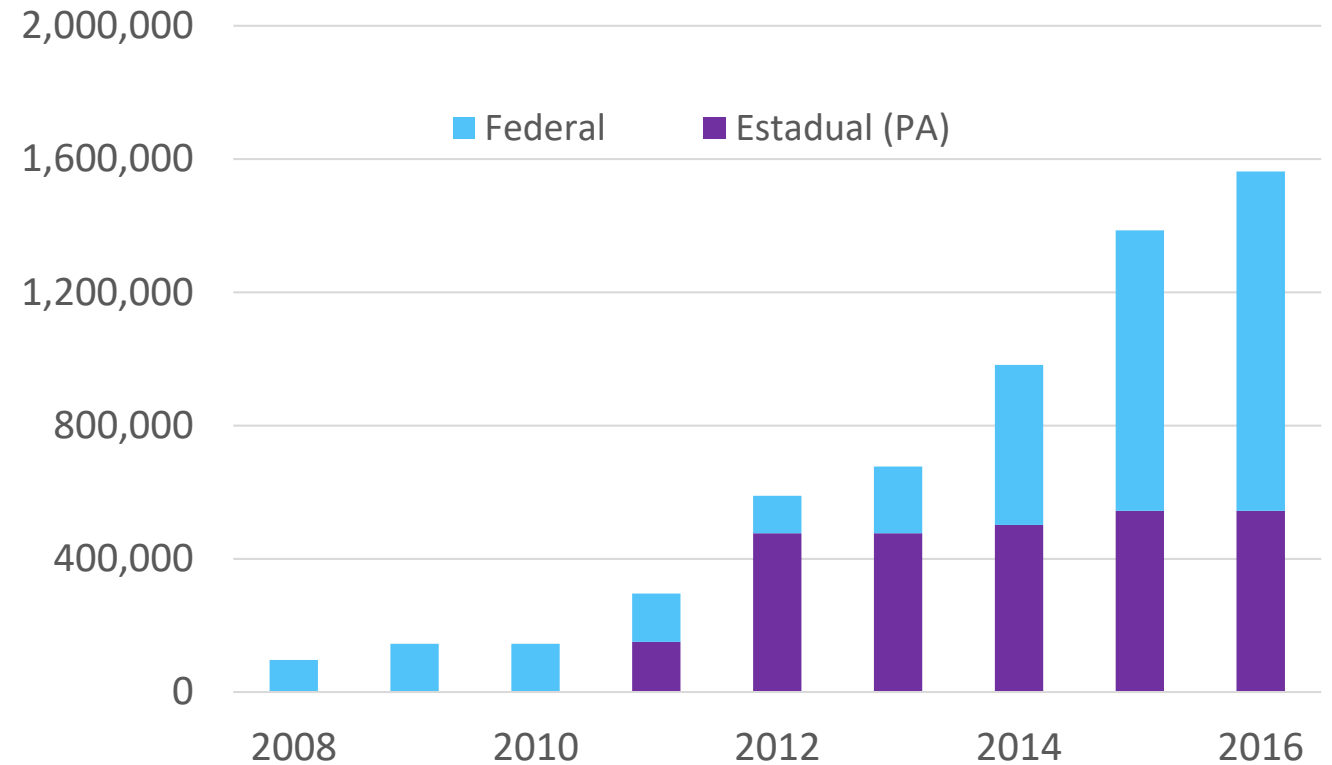
Enrironmental
Reserve Certificates –
CRA



Environmental
Reserve Certificates –
CRA



Public Forests under concession in Brazil

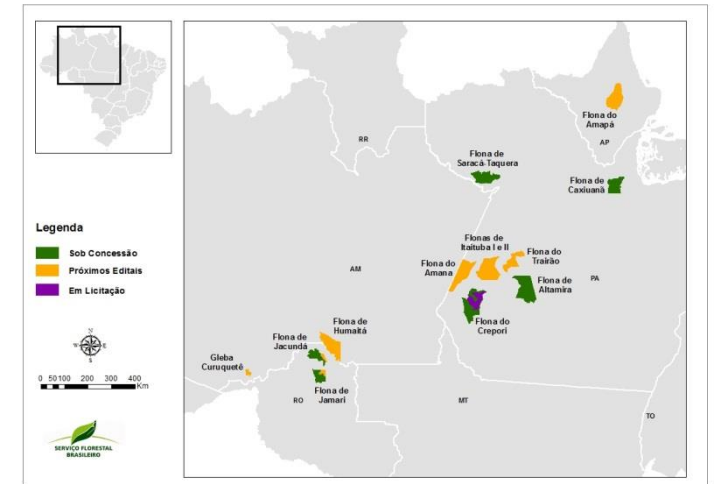


1.56 million of hectares under forest concession in Brasil

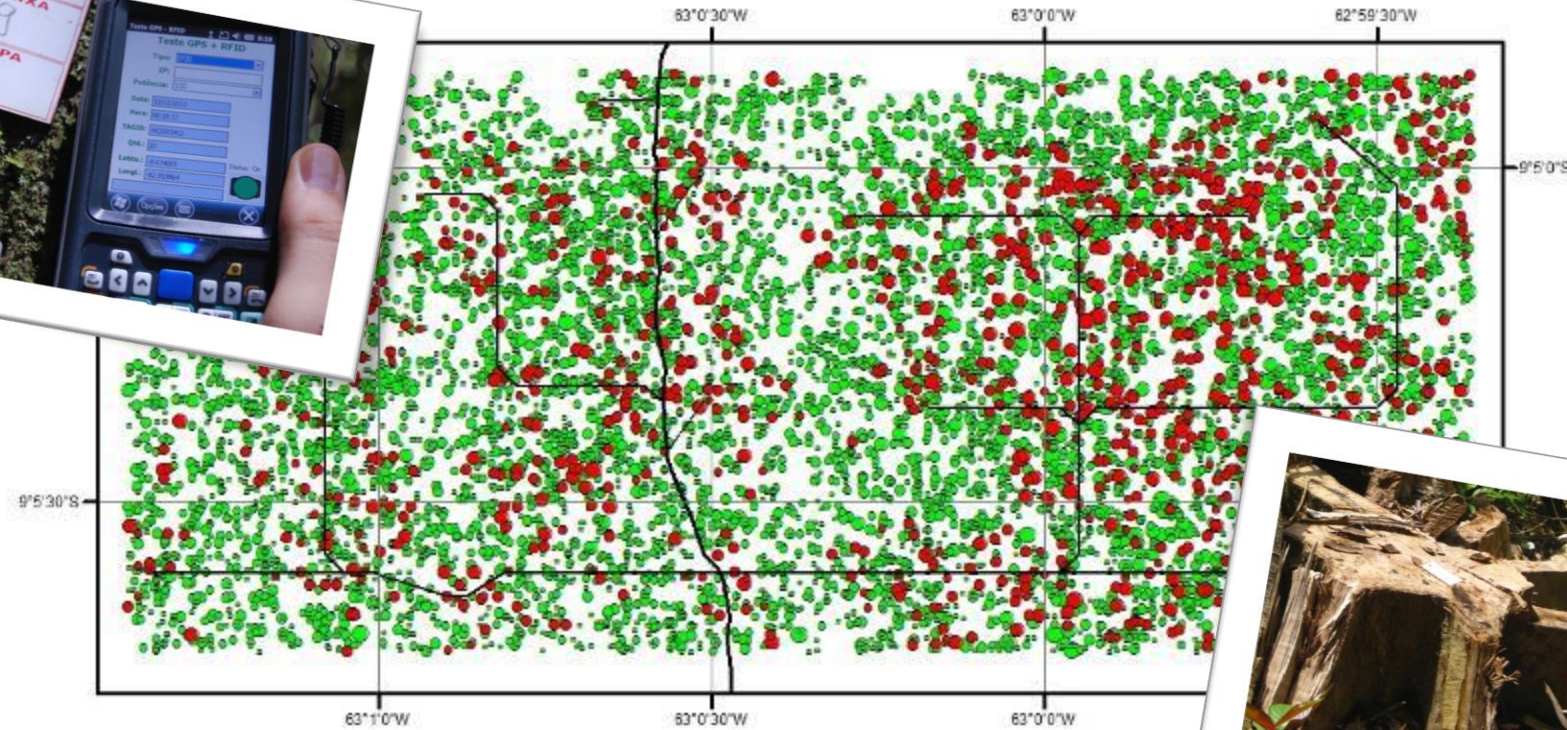


Public Forests under federal concession

- **1.02 million hectares** of forests under federal concession
- **17 contracts** signed in **06 National Forests**, in Pará and Rondônia states
- **555 thousand m³** produced
- **470 direct jobs** generated
- **Over R\$ 33 million** collected and shared



Monitoring and Auditing



volume da árvore (m³)

- < 3,0
- 3,1 - 5,0
- 5,1 - 10,0
- 10,1 - 20,0
- 20,1 - 50,0

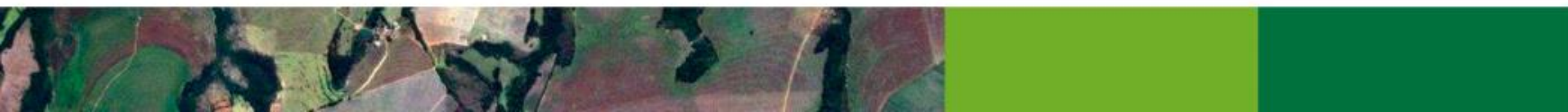
Árvores exploradas (m³)

- < 3,0
- 3,1 - 5,0
- 5,1 - 10,0
- 10,1 - 20,0
- 20,1 - 50,0

Legenda

- Estradas
- Patios

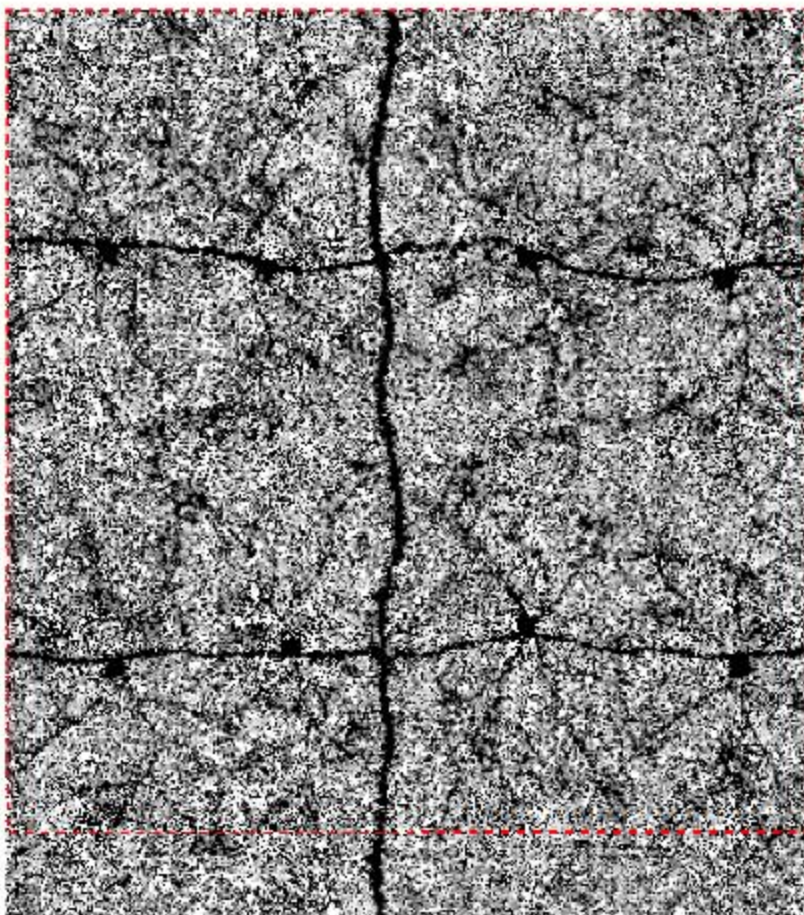
Forestry operations are monitored by a Chain of Custody System



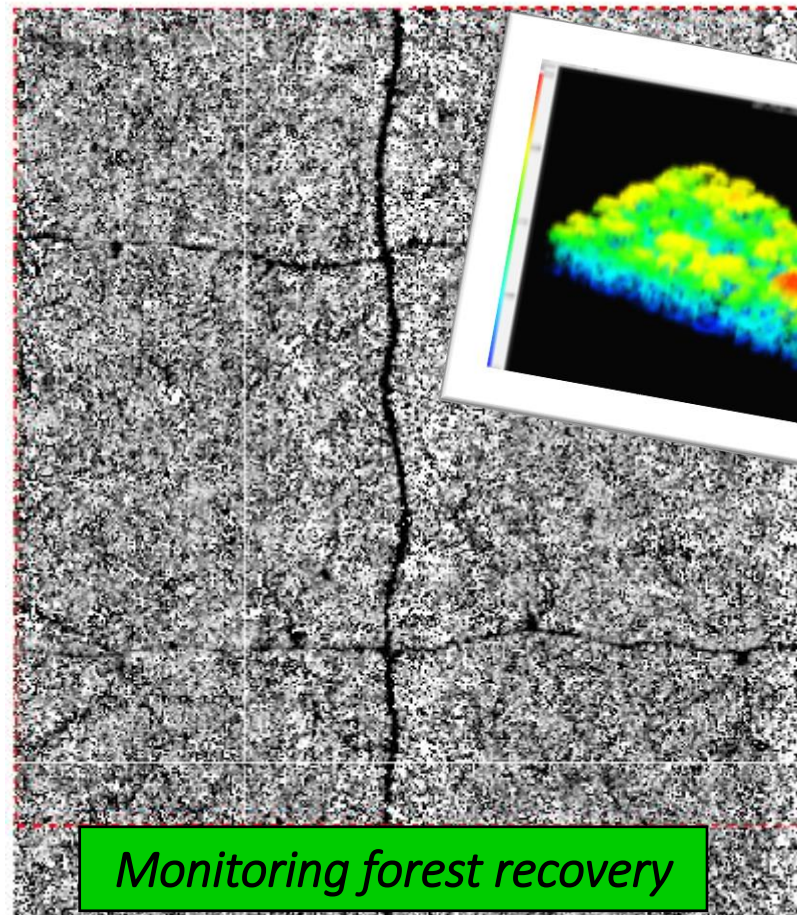
Monitoring and Auditing

Using Lidar (*Ligh*t Detection and Ranging)

2011

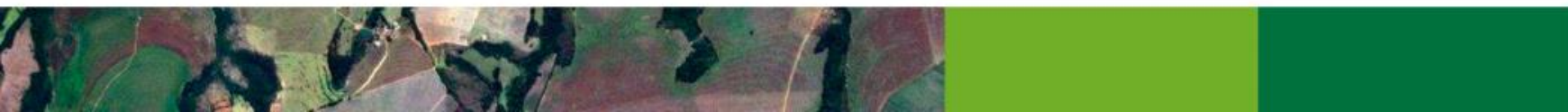


2013



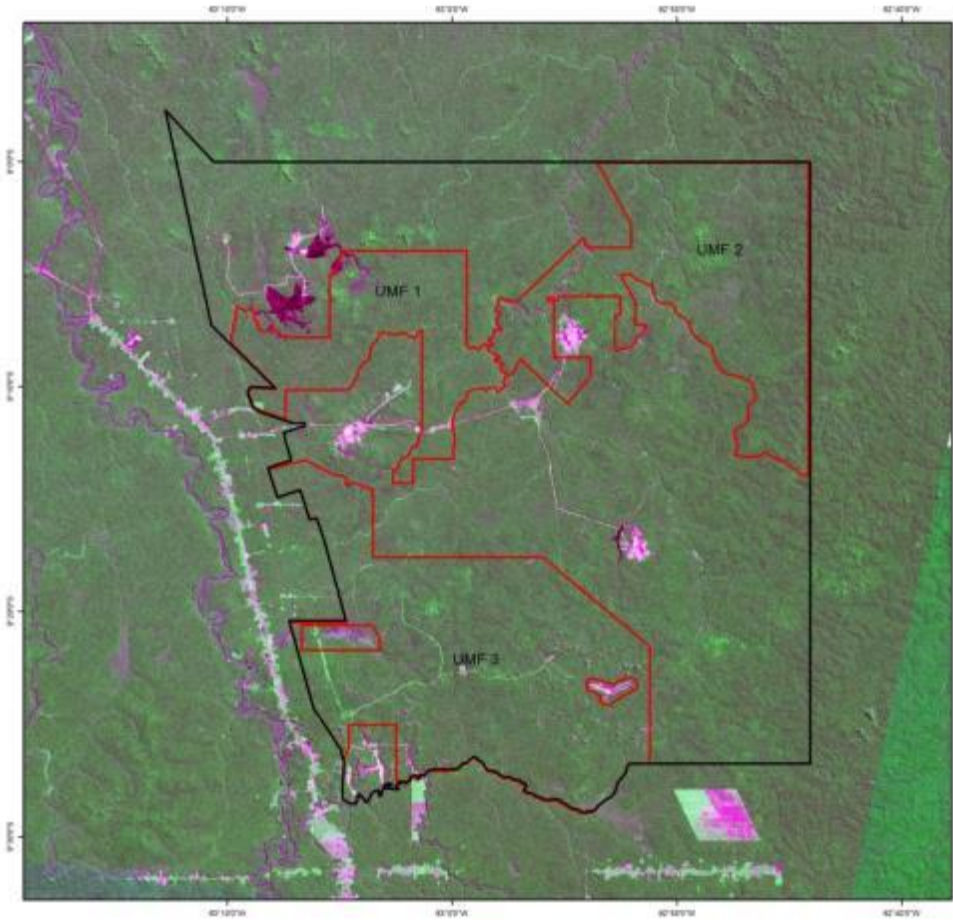
Forest cover
damage:
under 8%

Monitoring forest recovery

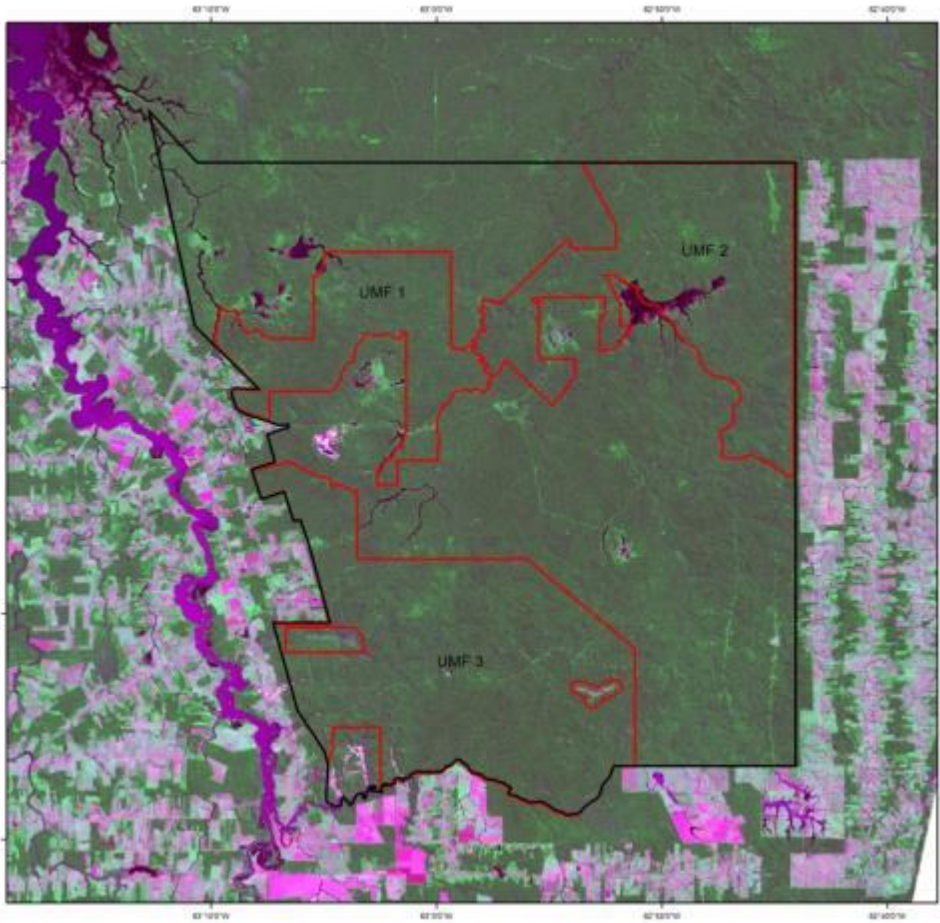


Monitoring and Auditing

Jamari National Forest



1984



2016



Monitoring and Auditing

Using DRONES

- Rigid control of wood production;
- Monitoring larger volumes of wood and areas under SFM more efficiently;
- Reduction costs of monitoring.



Traceability/ Transparency

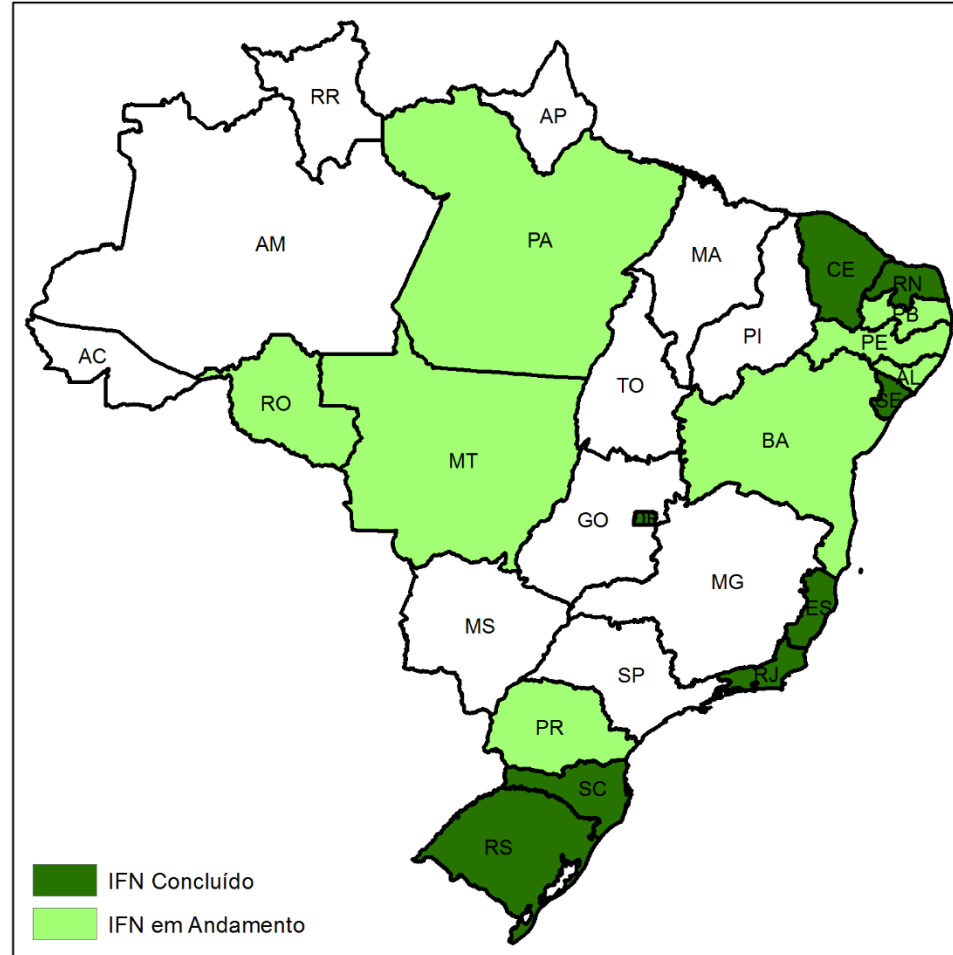
Chain of Custody System App



https://play.google.com/store/apps/details?id=br.gov.florestal.scc.mobile&hl=pt_BR



National Forest Inventory



169 million
hectares
inventoried
(20% of Brazil)

5.000
points measured

45.416
Plant samples
collected

418.000
trees measured

169 million hectares inventoried.
Data collection concluded in 10
states and in the federal district
(AL, CE, DF, ES, PR, RN, RO, SC, SE,
RS e RJ)

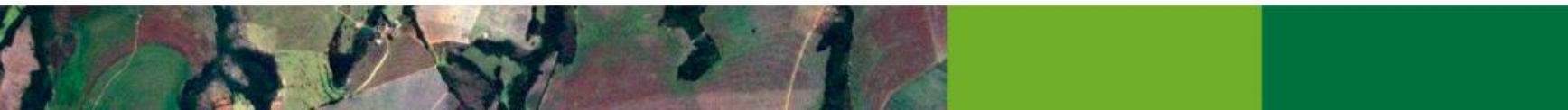


Thank you!

Raimundo Deusdará Filho

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Brazilian Forest Service**

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**MINISTÉRIO DO
MEIO AMBIENTE**

