

Certification and Biodiversity Conservation



ISCC Regional Stakeholder Dialogue Latin America

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Casa da Floresta Ambiental

29 June 2021

About Casa da Floresta



21

YEARS



+120

PROFESSIONALS



+410,000

**BIODIVERSITY
FIELD DATA**



+7.1

**MILLION
HECTARES
ASSESSED**



64

**SCIENTIFIC
ARTICLES
PUBLISHED**

What is your first thought seeing this scene?



What is your first thought seeing this scene?



What is your first thought seeing this scene?

Why?



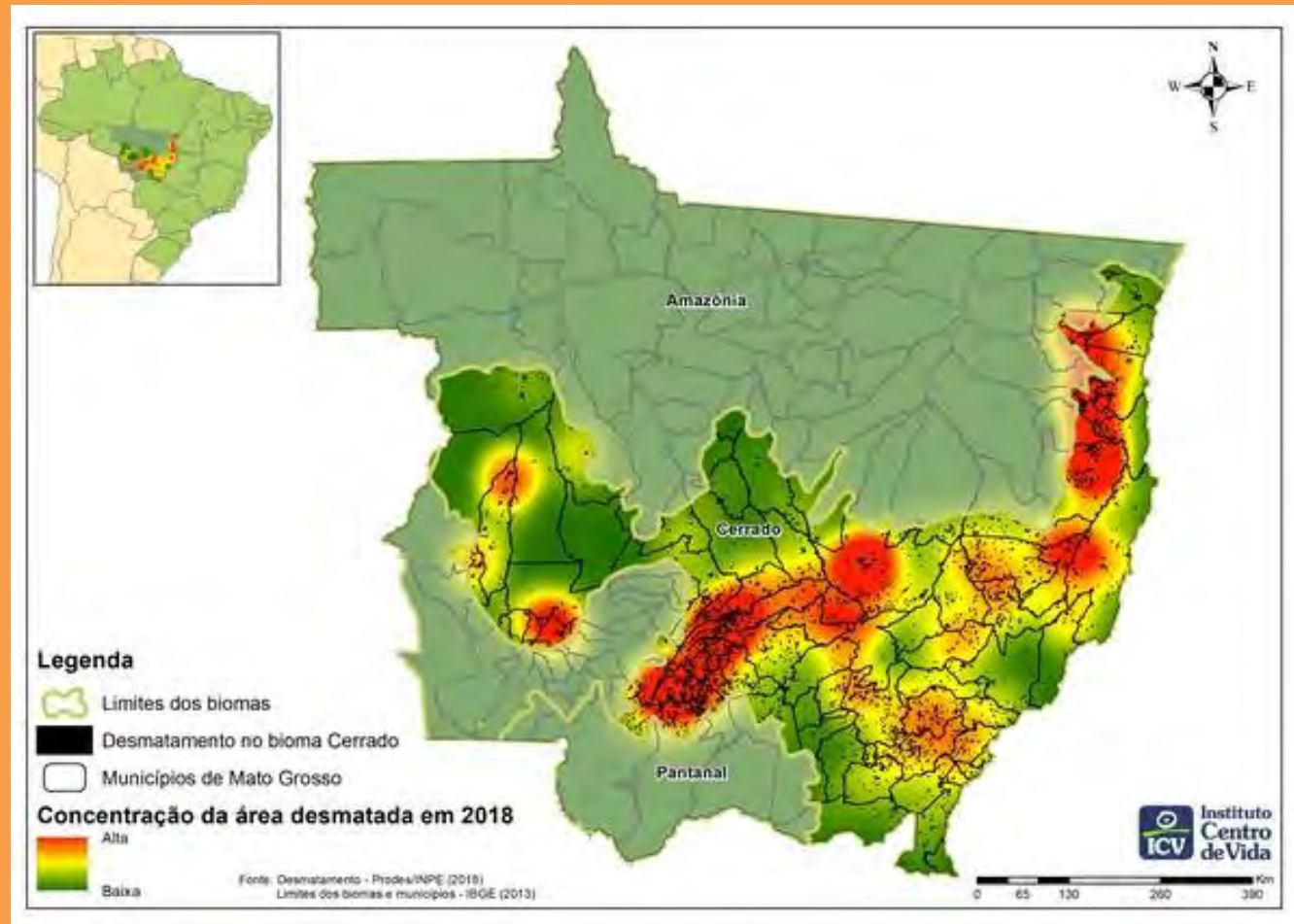
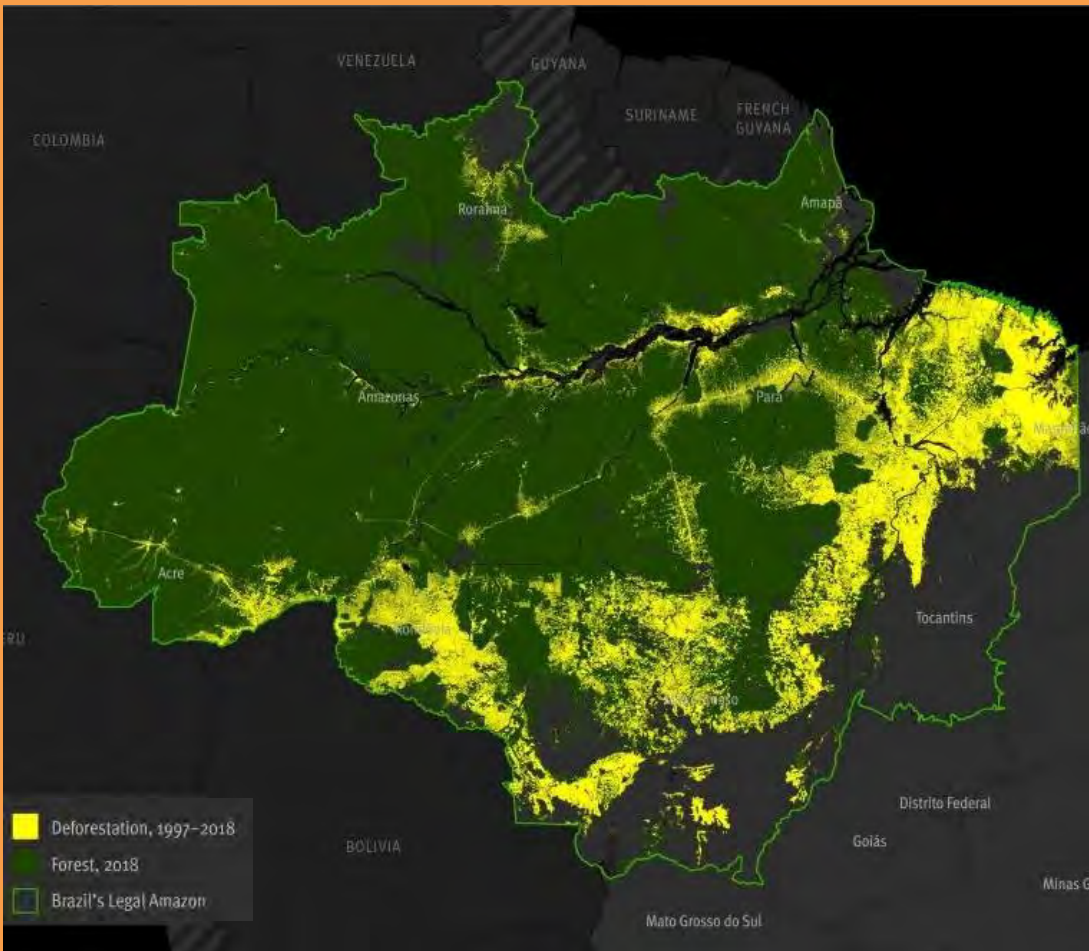
What is the problem?

 MATO GROSSO STATE, BRAZIL

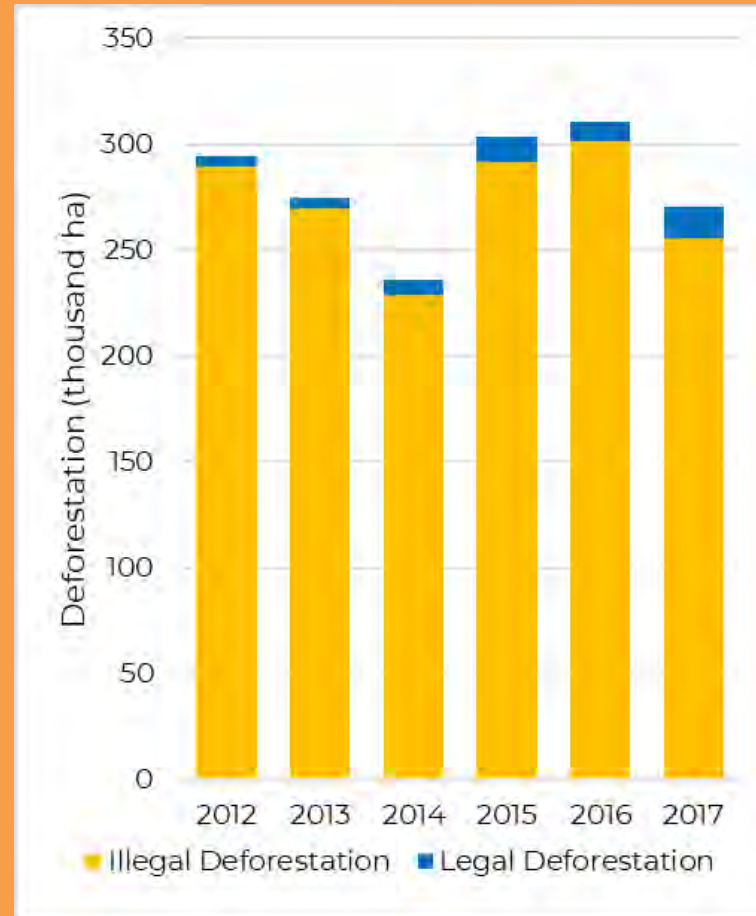
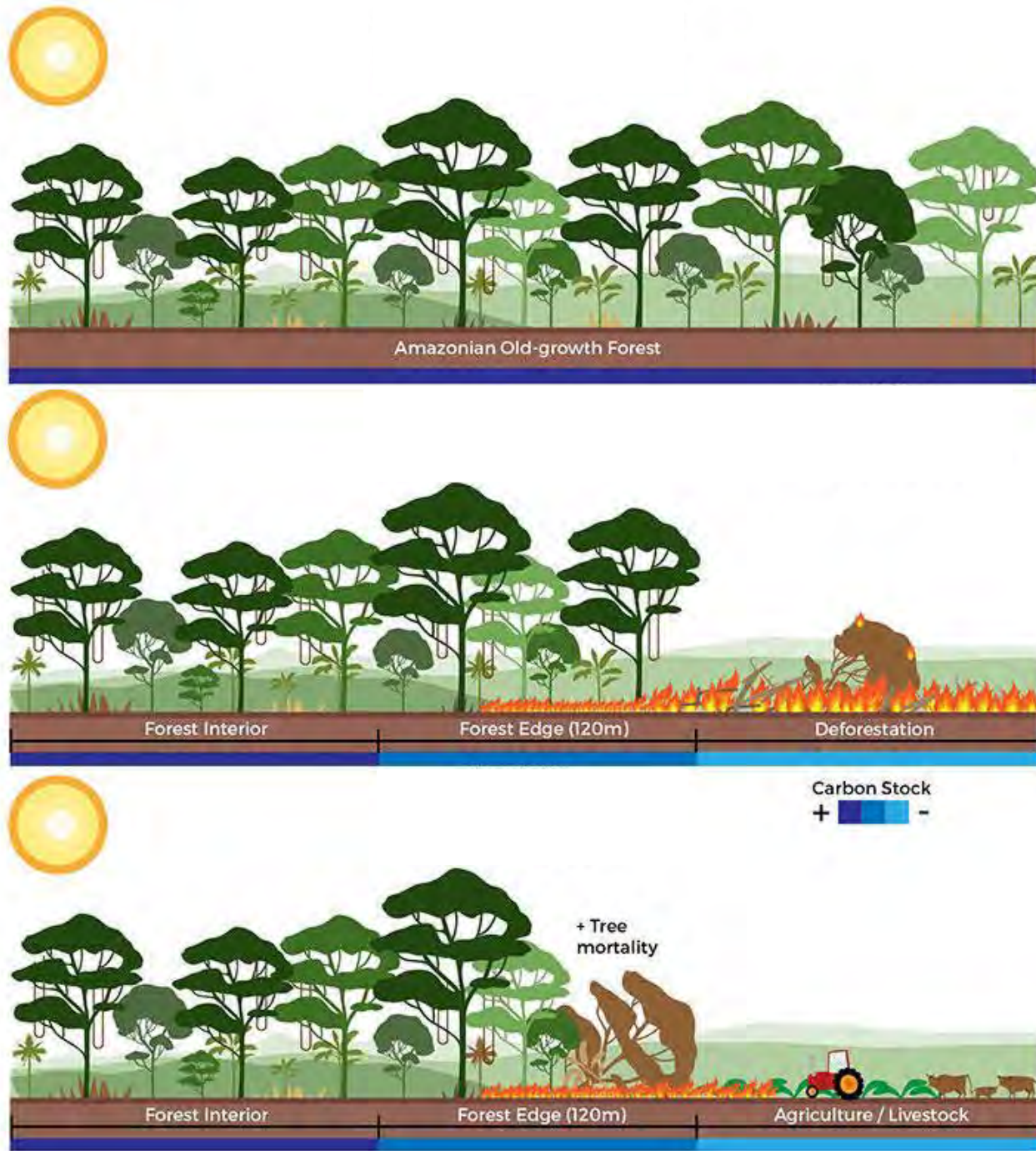


Where? How?

Deforested area in Mato Grosso in 2018



Deforestation: a well known process in Amazonia



Soy production

BRAZIL

**WORLD'S LARGEST
SOYBEAN PRODUCER**

135,4 M tons

37% of world's production

3.4% certified



**MATO GROSSO
STATE**

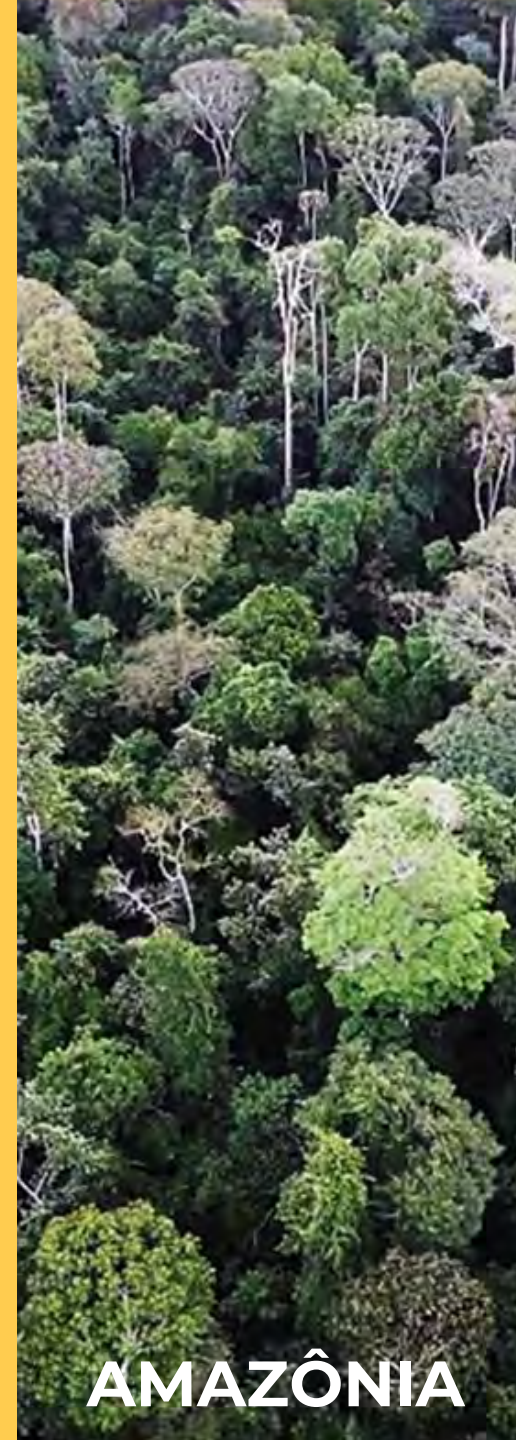
**LARGEST BRAZILLIAN
PRODUCER**

36,0 M tons

10,3 Mhectares



CERRADO



AMAZÔNIA



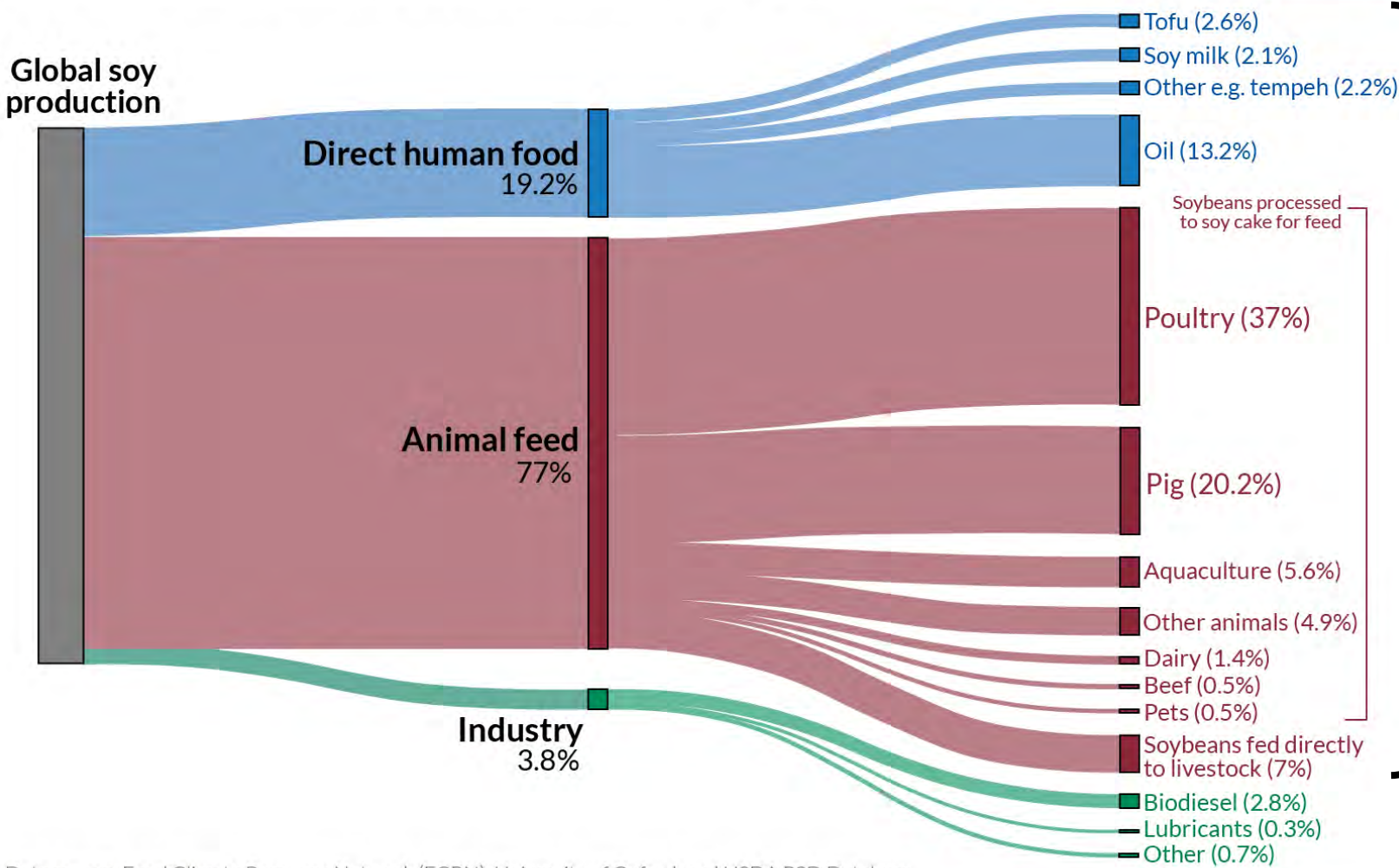
PANTANAL

Feed and food demand worldwide

The World's Soy: is it used for Food, Fuel, or Animal Feed?



Shown is the allocation of global soy production to its end uses by weight. This is based on data from 2017 to 2019.



96,2%
Direct and indirect human food

Data source: Food Climate Resource Network (FCRN), University of Oxford; and USDA PSD Database. OurWorldinData.org - Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Hannah Ritchie.

Recent news about China trade

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China's Brazilian soybean purchases jump



CHINA

**WORLD'S LARGEST SOYBEAN
CONSUMER**

(37% of total amount)

Recent news about China trade

WORLD Farm News

China Soybean Imports Boom

By **WOWO Farm Director** · June 15, 2021

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China's Brazil



Chinese soybean imports grew significantly during the first five months of 2021, which follows along with a recovery in the country's domestic hog numbers. However, MSN says domestic demand for the crop looks more modest in the coming months because of rising soybean prices around the globe. China purchased 38.23 million tons of soybeans between January and May. The world's biggest importer of soybeans spent \$19.35 billion on the crop; 44 percent higher than the same period in 2020. As expected, the U.S. and Brazil were once again the top suppliers, with imports up from both countries during the same five months by almost 13 percent year-on-year. While the Phase One Trade Agreement with the U.S. has been one reason for the surge in imports, the recovery of China's hog herd, devastated by African Swine Fever, is a key driver of the demand for soybeans. A senior animal protein analyst at Rabobank says the expectation of rapid hog restocking has been the key reason for strong imports but the food-service industry's recovery from COVID-19 also supports Chinese imports. China's spending on food imports, including grains and meat, is 33 percent higher than it was during the first five months of last year.



CHINA

**WORLD'S LARGEST SOYBEAN
CONSUMER**

(37% of total amount)

Recent news about China trade

WORLD

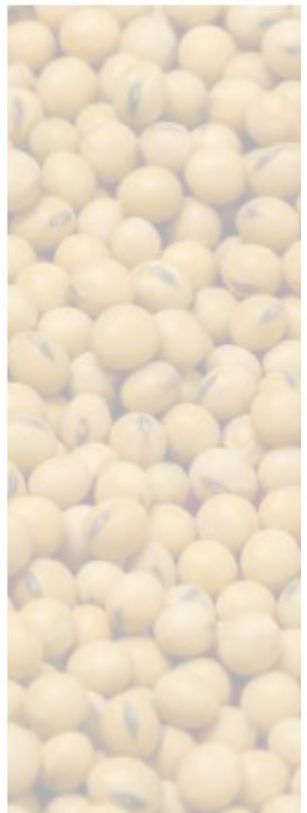
Farm News

China Soybean Imports

By WOWO Farm Director June 15, 2021



China's Brazil



both countries during the same five months by Phase One Trade Agreement with the U.S. has the recovery of China's hog herd, devastated by demand for soybeans. A senior animal protein rapid hog restocking has been the key reason industry's recovery from COVID-19 also supports food imports, including grains and meat, is 33 five months of last year.

BRAZIL

'China should not impose sustainability clauses that hinder its food security'

Larissa Wachholz, from Brazil's ministry of agriculture, says China's 14th Five-Year Plan brings opportunities and should not result in restrictions on meat or soy

Share



Livia Machado Costa June 22, 2021

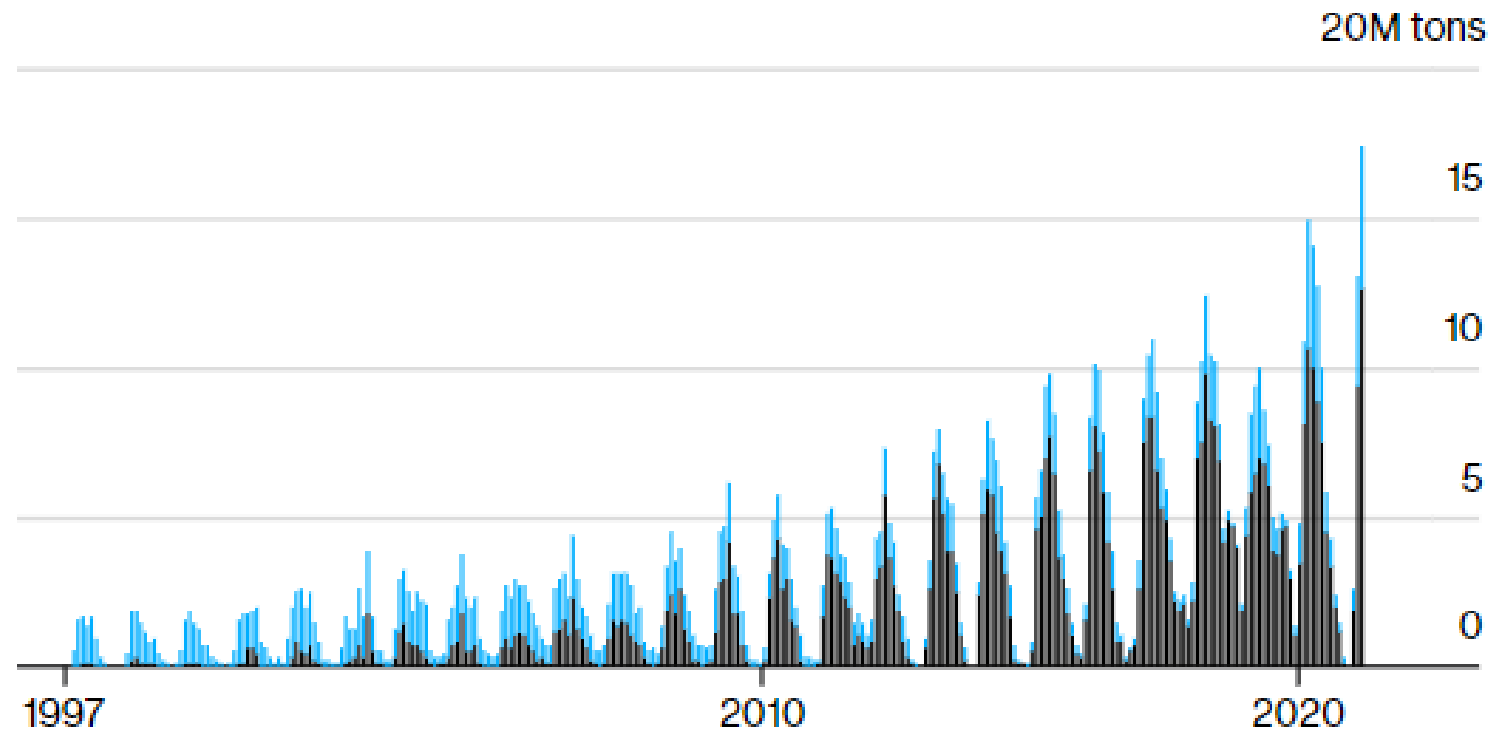


Brazil-China soy trade

Hungry for Beans

China buying lifts Brazilian soybean exports to record high in April

■ Exports to China ■ Exports to all other countries



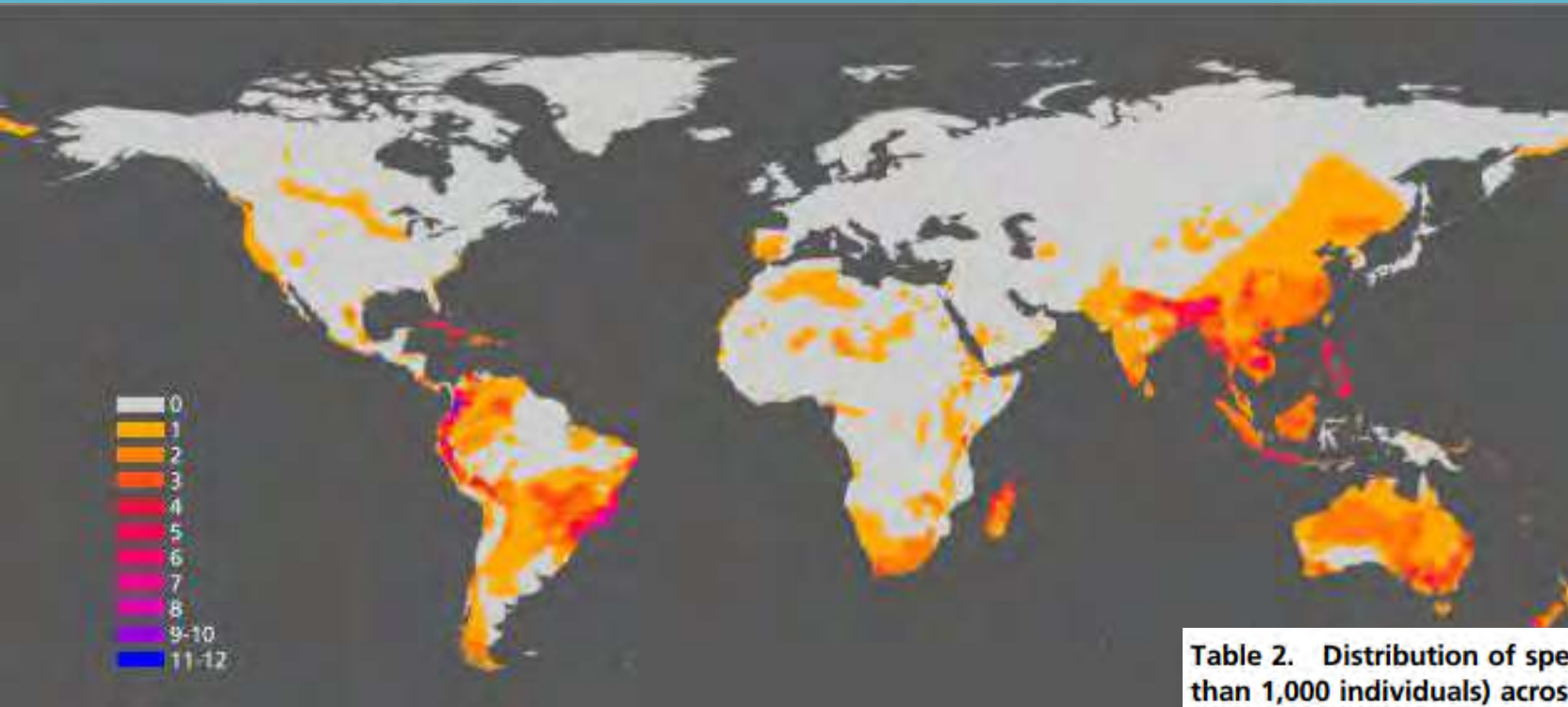
Source: Brazilian Trade Ministry

Production annual rise is a result of better yields, productivity and crop area increase



Pressure to environment

The 6th mass extinction



*“Species at the brink have been pushed to a critical conservation status because of human activities, where **habitat loss and fragmentation**, illegal trade, overexploitation, introduced domestic and wild species, toxification, and pollution have played a major role”*

Table 2. Distribution of species on the brink (i.e., with fewer than 1,000 individuals) across continents

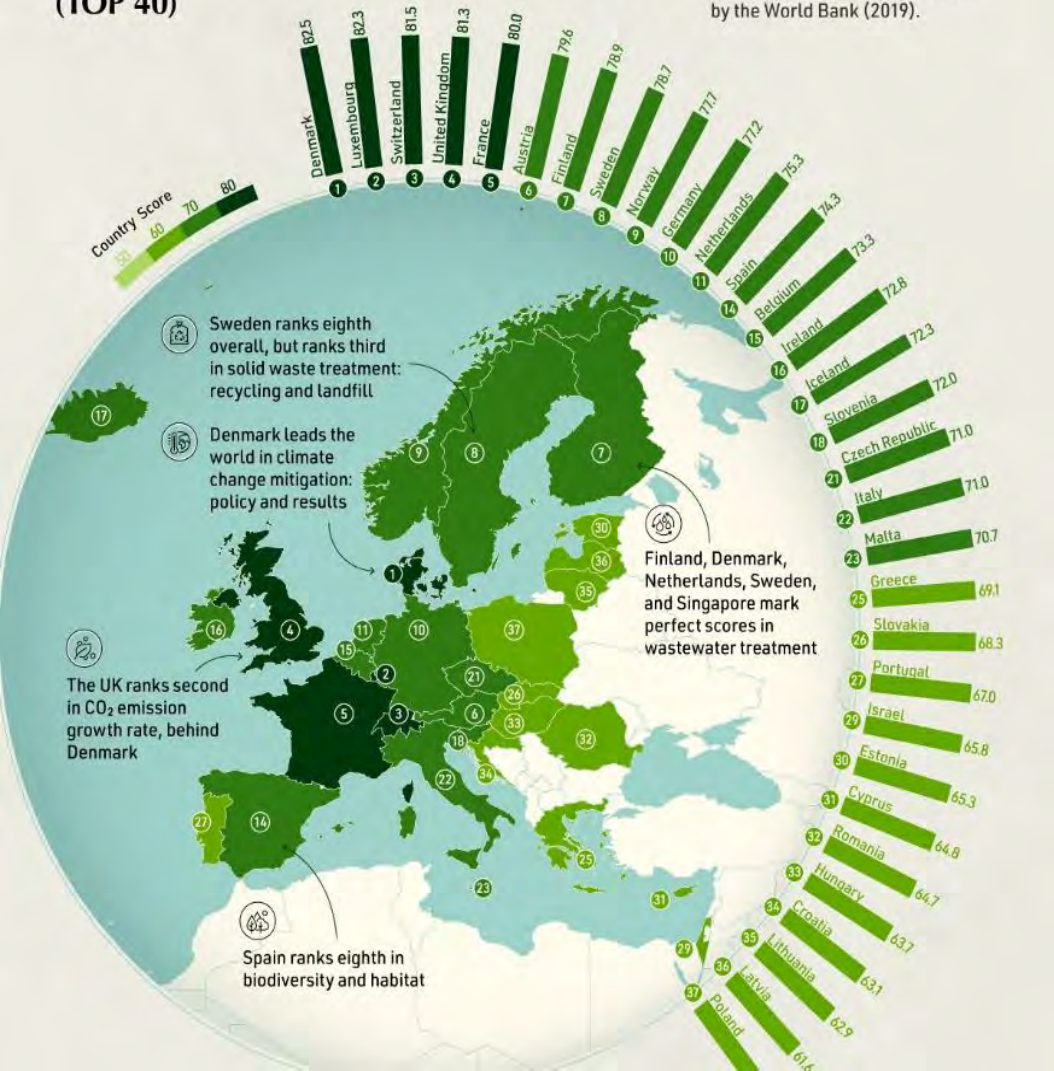
| Class | Africa | Asia | Europe | South America | North America | Oceania |
|----------|--------|------|--------|---------------|---------------|---------|
| Mammalia | 13 | 22 | 2 | 8 | 12 | 17 |
| Aves | 64 | 67 | 4 | 86 | 28 | 85 |
| Reptilia | 2 | 12 | 0 | 10 | 12 | 5 |
| Amphibia | 3 | 5 | 0 | 53 | 3 | 1 |
| Total | 82 | 106 | 6 | 157 | 55 | 108 |

MAPPED

The Greenest Countries in the World

Who's the Greenest of Them All? (TOP 40)

The top 40 greenest countries are all categorized as "high income" by the World Bank (2019).



2020 EPI FRAMEWORK

24.0% - Climate Change

15.8% - CO₂ and CH₄ emissions

1° - Denmark

2° - Luxembourg

3° - Switzerland

4° - United Kingdom

5° - France

...

44° - Chile

50° - Colombia

54° - Argentina

55° - Brazil

...

120° - China

...

149° - India



A light at the end of the tunnel..



A light at the end of the tunnel..



The Challenge

Assure a sustainable
production aligned with
Biodiversity Conservation

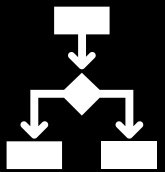


A light at the end of the tunnel..



The Challenge

Assure a sustainable production aligned with Biodiversity Conservation



The way

Commodities Certification

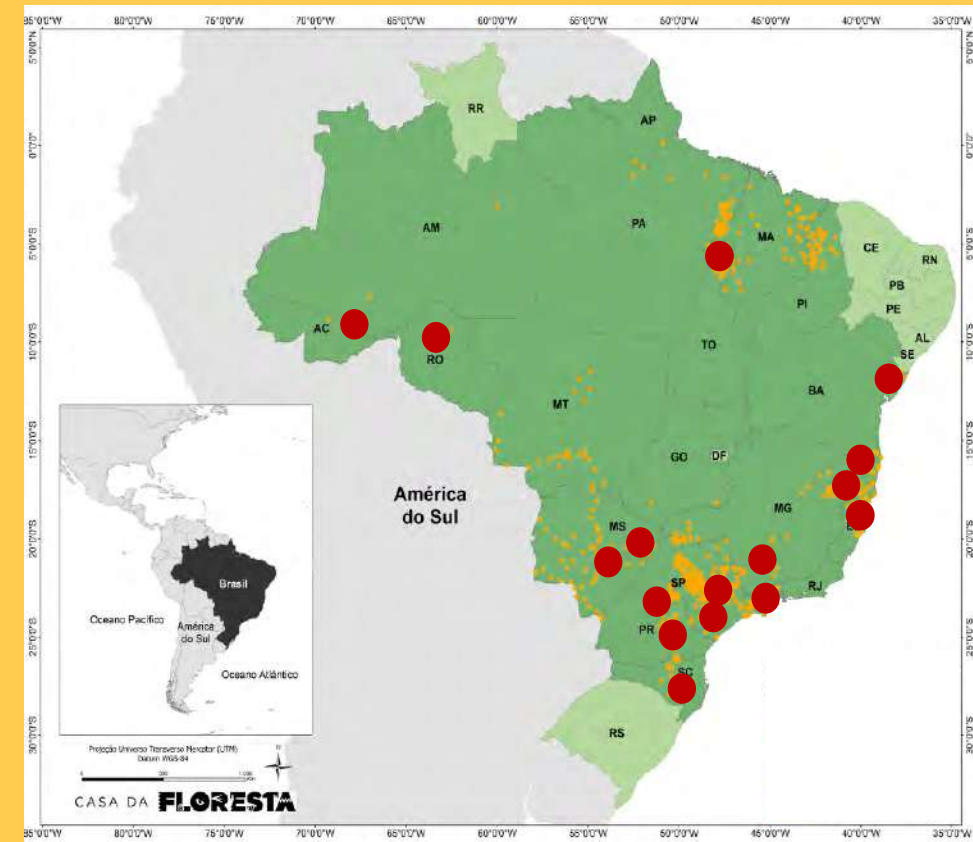


FSC® Certification

Certified Forest Management (Planted and Native)



Eucalyptus Planted Forest in Brazil



Planted Forest

Biodiversity monitoring



Objectives

- Fauna and Flora Conservation
- High Conservation Value Areas
- Impact Evaluation

120+ municipalities

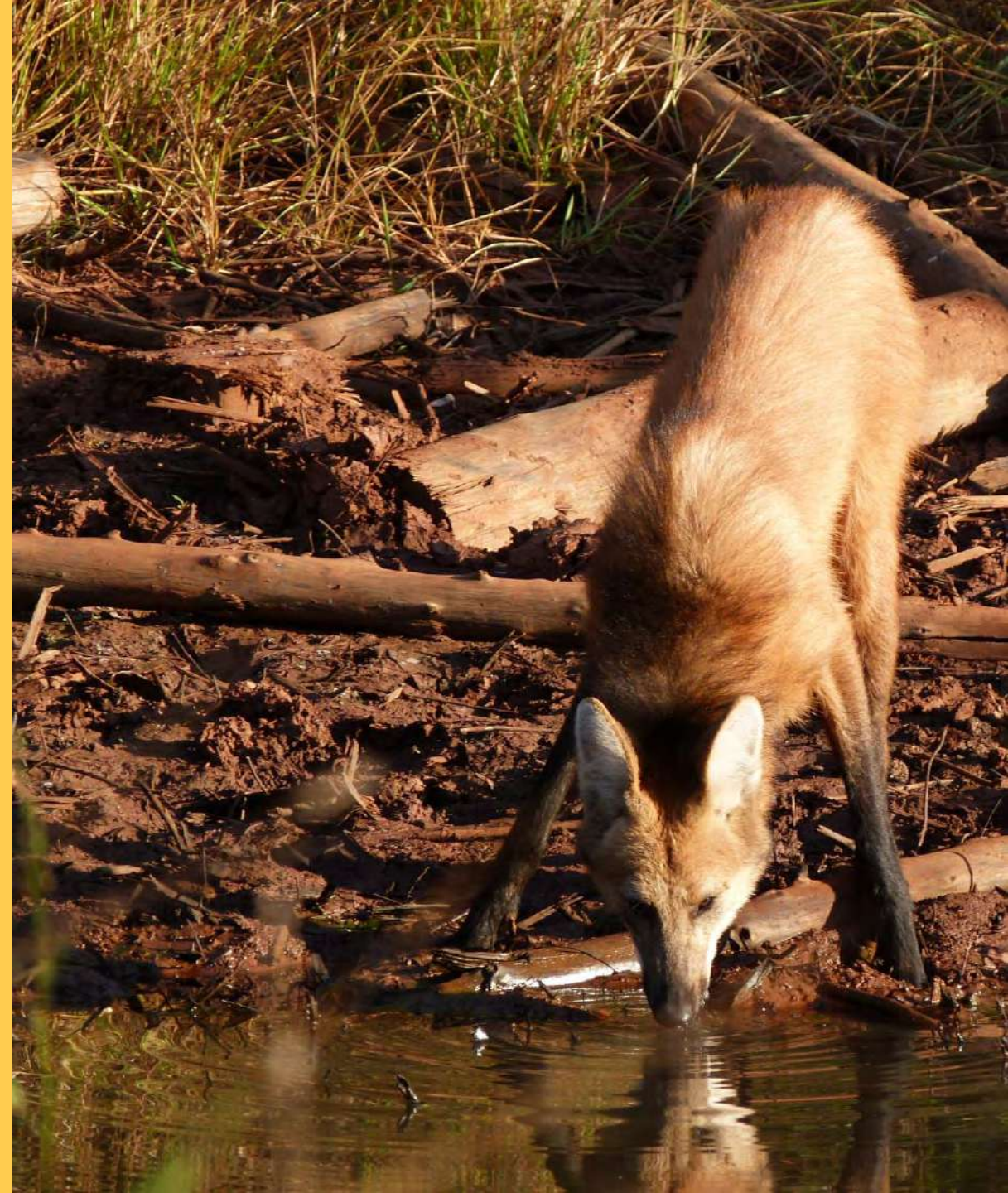
~4,0 M ha

Planted Forest

Biodiversity monitoring

Mammals and birds

160.000+
records on planted
forest landscapes



Planted Forest

Biodiversity monitoring

129 Mammals species
34 endangered



Planted Forest

Biodiversity monitoring

900+ Birds species



Planted Forest

Biodiversity monitoring

Reptiles and amphibians



Planted Forest Biodiversity monitoring

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ELSEVIER



The role of protected and unprotected forest remnants for mammal conservation in a megadiverse Neotropical hotspot

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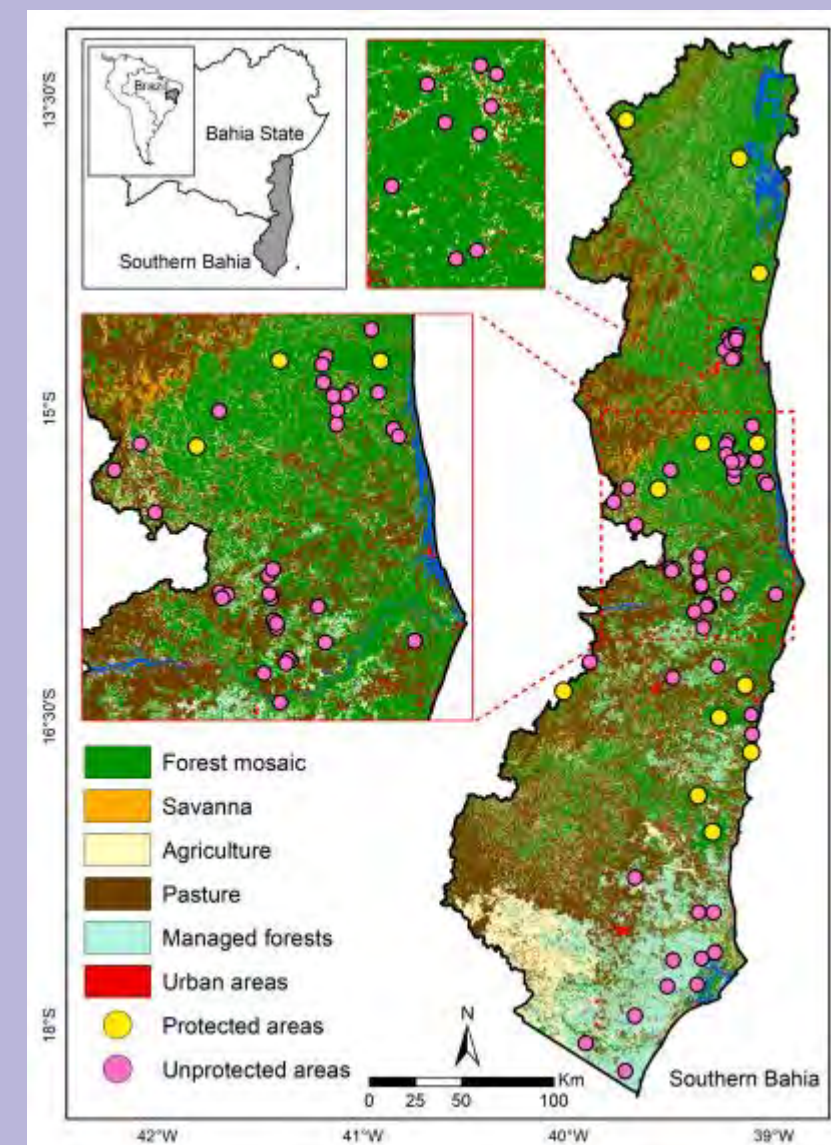
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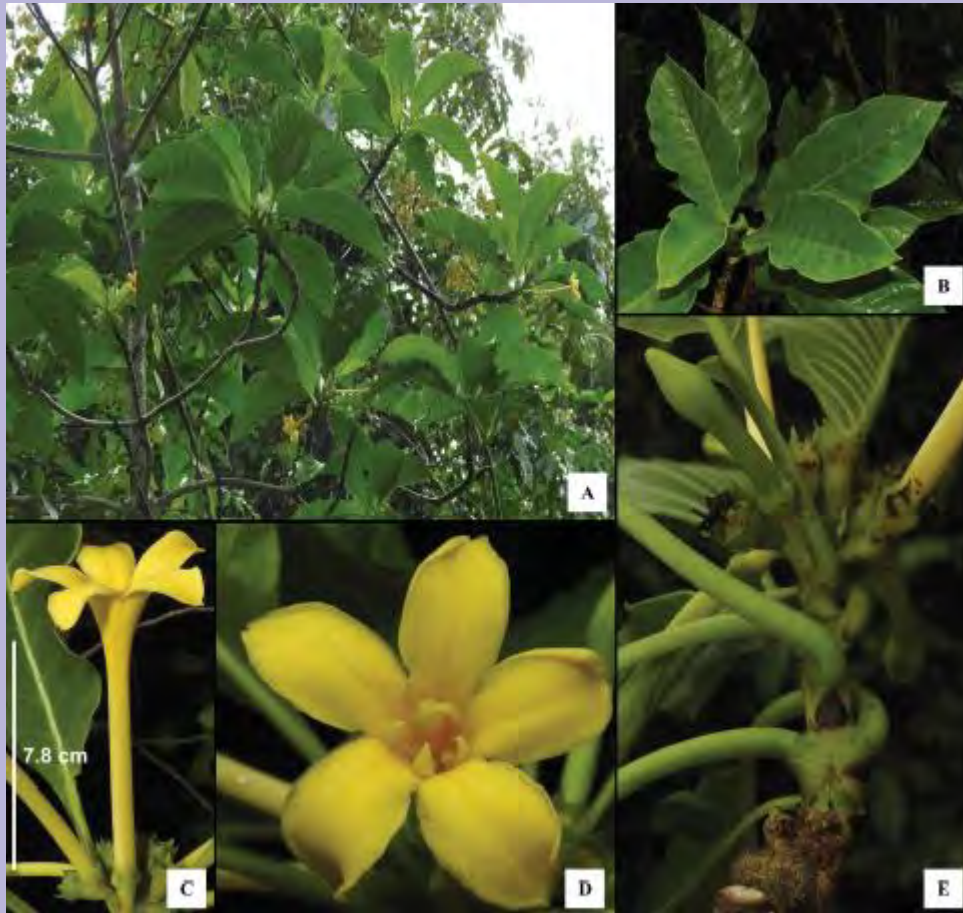
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Planted Forest Biodiversity monitoring New species



A new species of *Tocoyena* (Rubiaceae, Gardenieae) from the Brazilian Atlantic Forest

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Abstract

Tocoyena atlantica, a new species endemic to southern Bahia and northern Espírito Santo states and illustrated. The species consists of trees 5–8 m tall; with petioles 2–5 cm long, and leaf blades elliptic, adaxially glabrous; calyces cup-shaped with triangular lobes; corolla yellow during anthesis, wider towards the mouth; and laterally compressed hypanthia. Based on IUCN criteria, we consider it an endangered species. It is known from three collection localities within the Atlantic Forest domain. An identification key for species of the genus *Tocoyena* from the Brazilian Atlantic Forest is also provided.

Keywords: Atlantic rainforest, endangered species, Bahia, *missununga*

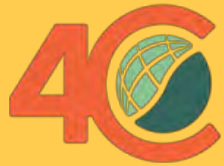
Introduction

Tocoyena Aublet (1775: 131) (Rubiaceae) is a Neotropical genus composed of trees, shrubs, or lianas 3–35 cm long, green in bud, passing from white to yellow at anthesis and generally glabrous (Delprete 2008). *Tocoyena* fruits have multiple discoid seeds surrounded by a mesocarp that is persistent and persistent to air (Borges 2020, Prado 1987).

According to Borges (2020), 12 species of *Tocoyena* occur in Brazil, five of which are endemic to the Atlantic Forest domain and its associated phytogeographical regions: *Tocoyena formosa* (Chamisso & Schumann (in Martius 1889: 347), *T. brasiliensis* Martius (1841: 82), *T. bullata* (Vellozo & Martius 1827) (Martius 1841: 80), *T. sellowiana* (Chamisso & Schlechtendal 1829: 197) Schumann (in Martius 1889: 349), and *T. longiflora* Aublet (1775: 131). The first four species are common in *restinga* vegetation and seasonal



Certifications accross commodities



Applied to all kind of biomass supply chains

Certification and good management practices

**Biological
Diversity**
+
**Lives of
local people**
+
**Economic
viability**



CASA DA

FLORESTA