

Sustainability and the Brazilian Vegetable Oil and Crushing Industry



August, 2019

Members of the Brazilian Association of Vegetable Oil Industries



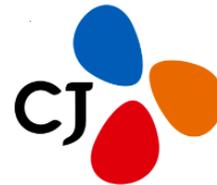
AMAGGI

Baldo[®]
DESDE 1920


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B I O D I E S E L

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Cargill[®]

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COFCO INTL

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Sectoral Sustainability Programs: Abiove



1. Amazon Moratorium – 13 years



2. Soja Plus – 8 years



3. Pará State Green Grains Protocol – 4 years



4. Used cooking oil Recycle program – 6 years



5. PET oil bottles Recycle Program – 5 years



6. Cerrado Working Group – GTC – 2 years



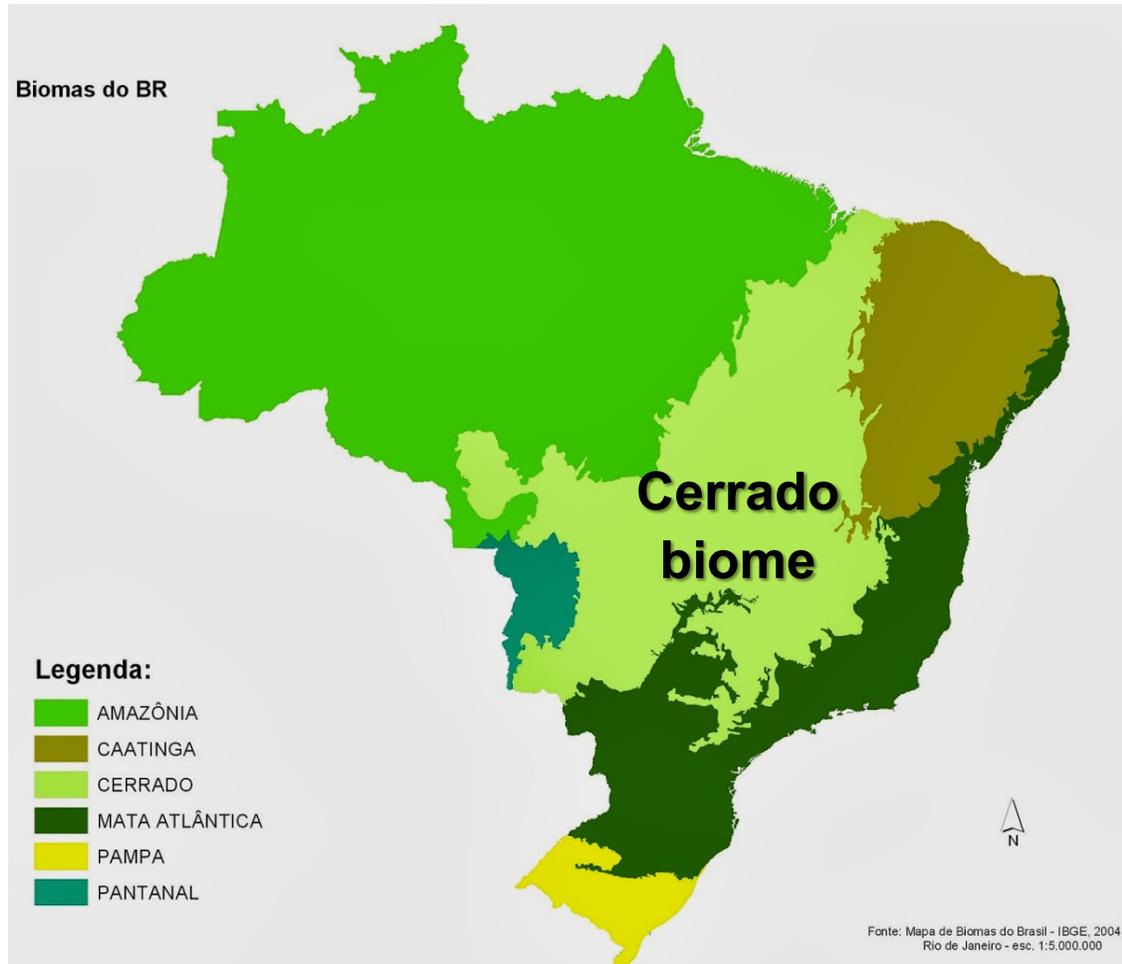
The Amazon biome territory



A few facts about the Amazon biome (408 Mha or 48% of Brazil)

- ✓ 4,8 Mha of soybeans, which represent
- ✓ 1.18% of the Amazon biome
- ✓ 13.4% of the Brazilian soybean planted area
- ✓ 98.6% of soybean expansion occurred in already cleared areas

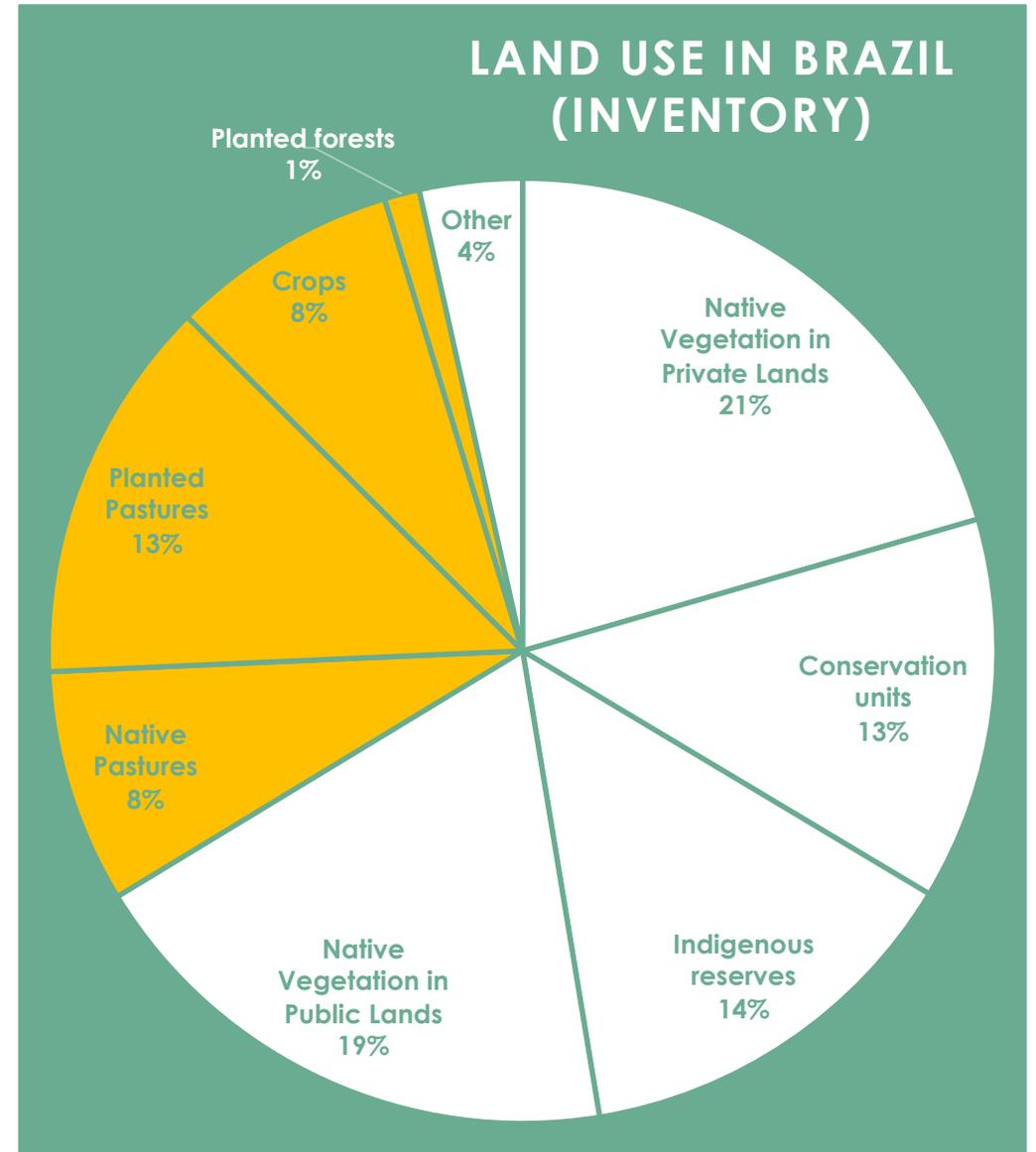
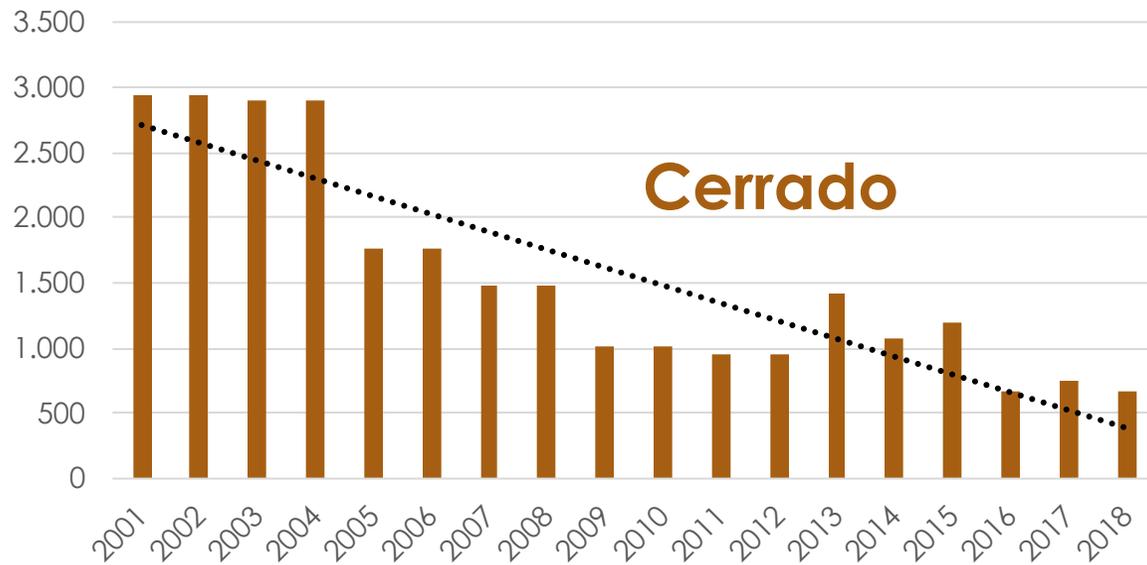
The Cerrado biome territory



A few facts about the Cerrado (204 Mha or 24% of Brazil)

- ✓ 18 Mha of soybeans planted
- ✓ 50% of the Brazilian soybean planted area
- ✓ 8% of the Cerrado biome planted with soy
- ✓ 93% of soybean expansion in 2018 occurred in already cleared areas

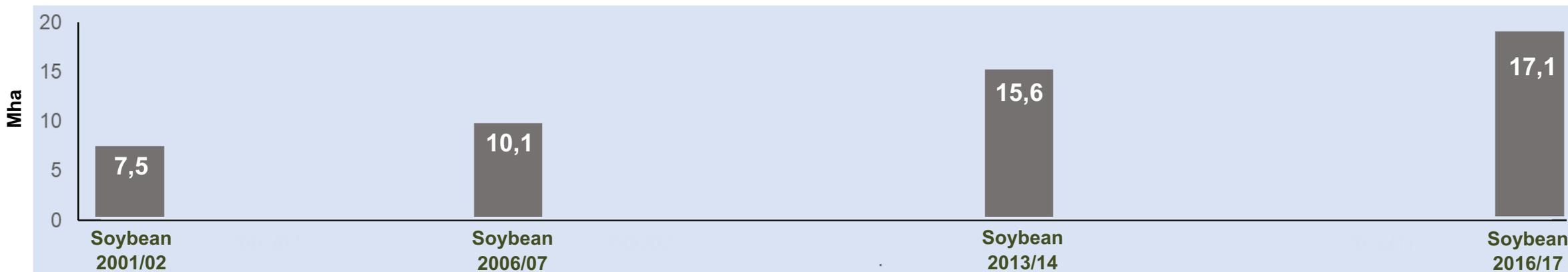
Legal Amazon and Cerrado | annual rates of deforestation



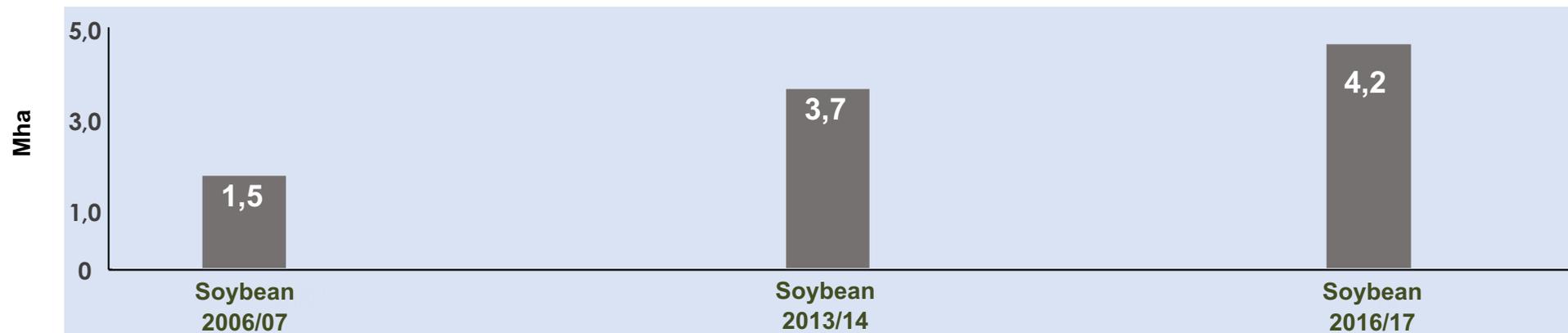
Source: EMBRAPA

Source: INPE, 2018

Soybean area expansion in the Cerrado 2001 - 2017



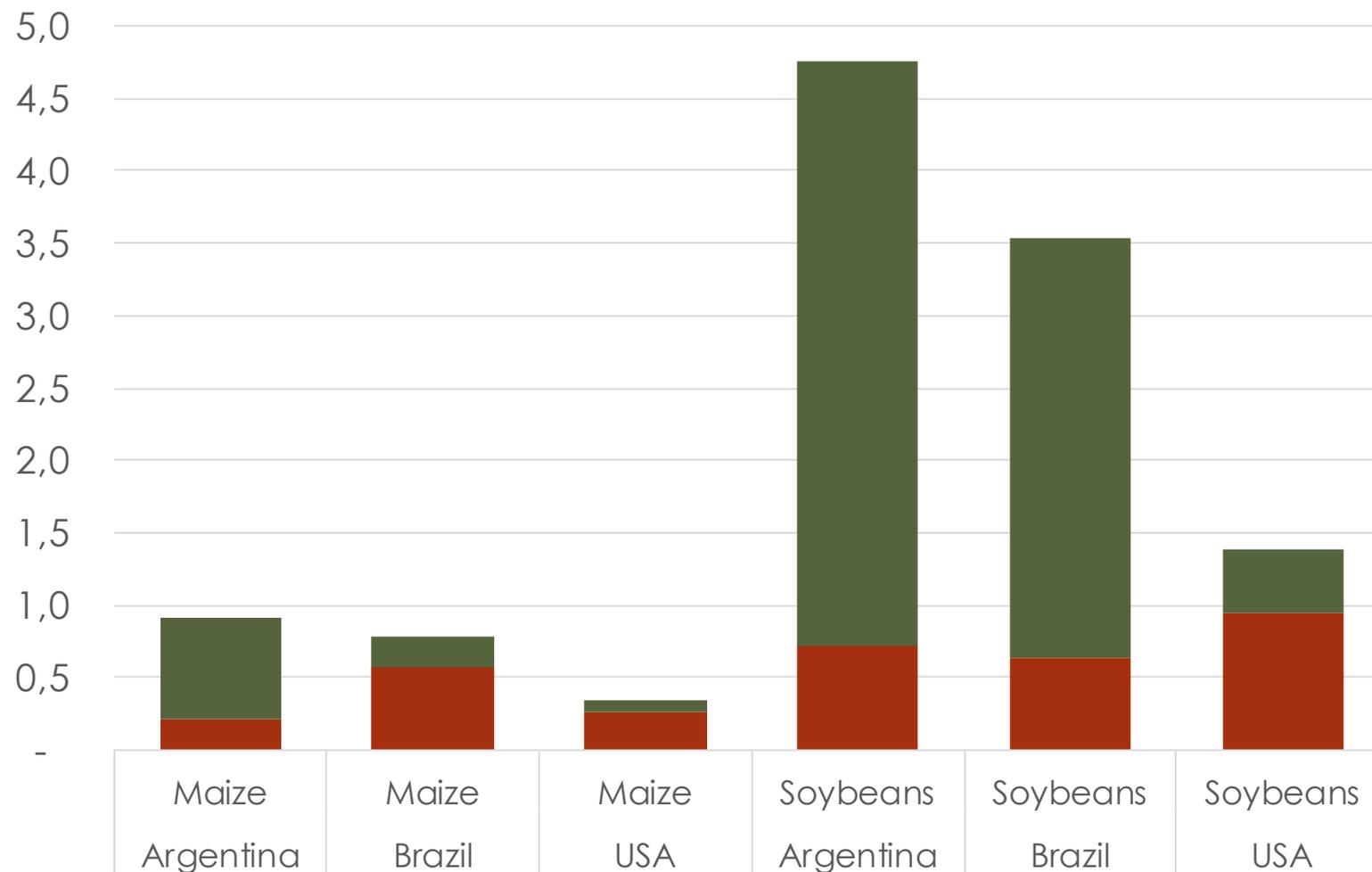
Soybean area expansion in the Amazon 2008 - 2017



Emissions LEAP (kg CO₂eq/kg dry matter yr)



- Land use GEE emissions are that high in Brasil because 20 years of land conversion is allocated into soybean shoulders.
- The 20 years assumption must be revised because it does not reflect the current reality.
- Brazilian soybean land use emissions calculated by LEAP models are not accurate.



■ Emissions LCI excluding LUC (kg CO₂/kgDM) ■ Emissions LUC (kg CO₂/kgDM)

*LCI data from www.fao.org/partnerships/leap/database/ghg-crops/en/ - accessed in Feb, 2019