

XVIII Congreso Internacional ALASA 2025





Eduardo Assad

Pesquisador
FGV/Gvagro
Brasil

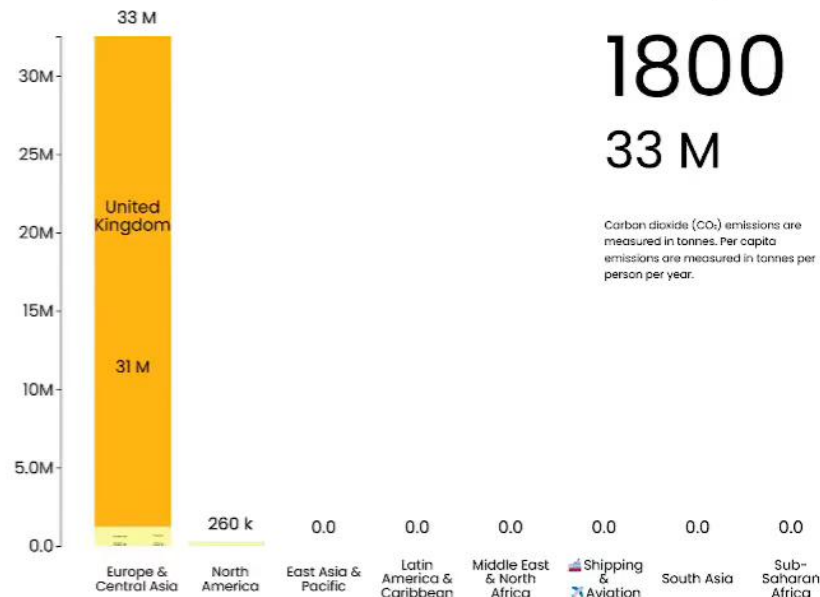
Impactos das mudanças climáticas no agronegócio Brasileiro

Painel 6 **El Cambio Climático y sus desafíos para la Agricultura: Perspectivas de Adaptación**

CO₂ Emissions

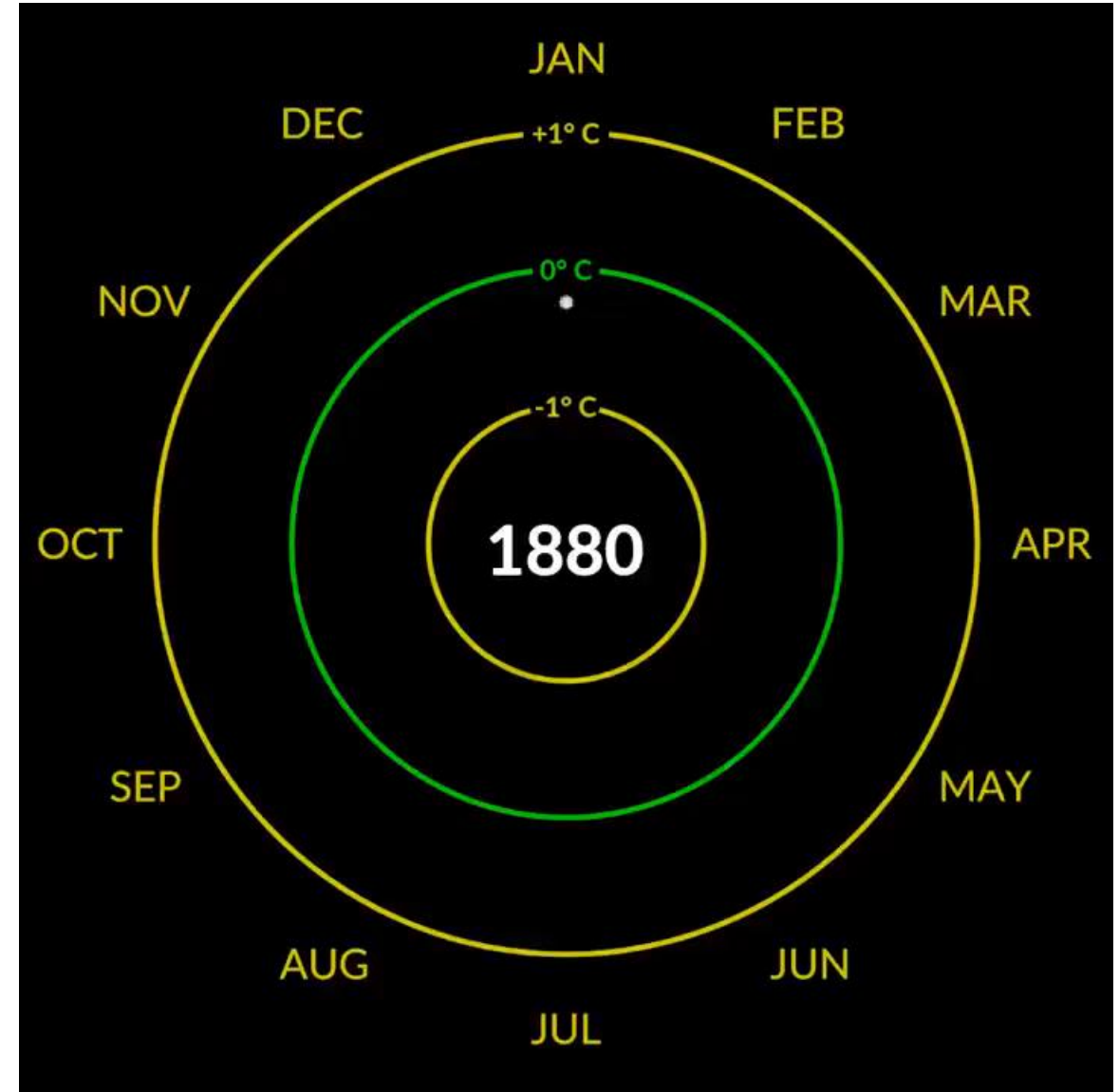
Size shows annual CO₂ emissions from fossil fuels & industry.
Color shows per capita CO₂ emissions.

low high

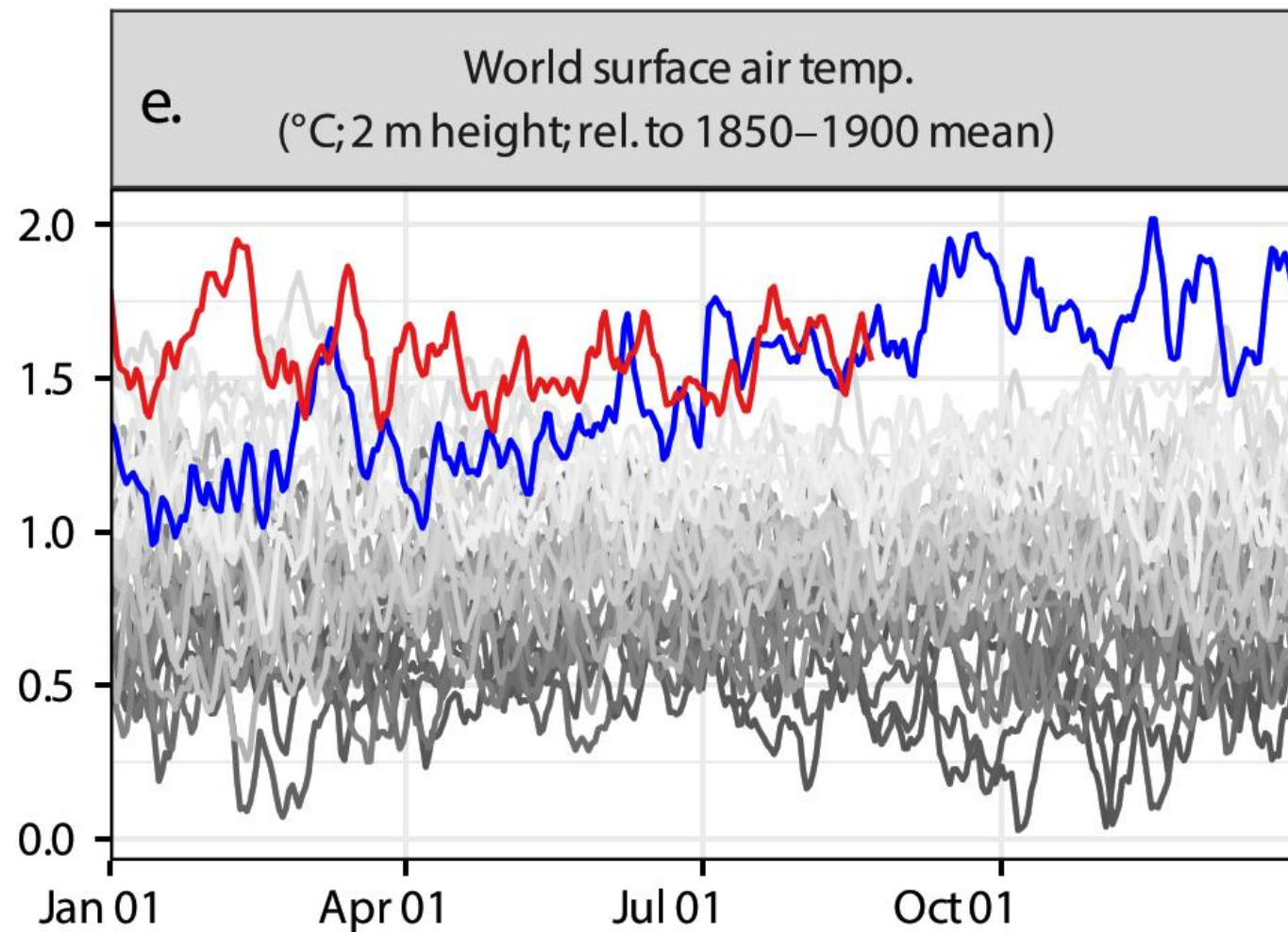


Bezael Data

By Richie Lionell - bezaeldata.com
Data source: ourworldindata.org



Impactos das mudanças climáticas no agronegócio Brasileiro



Ja

Year



2000

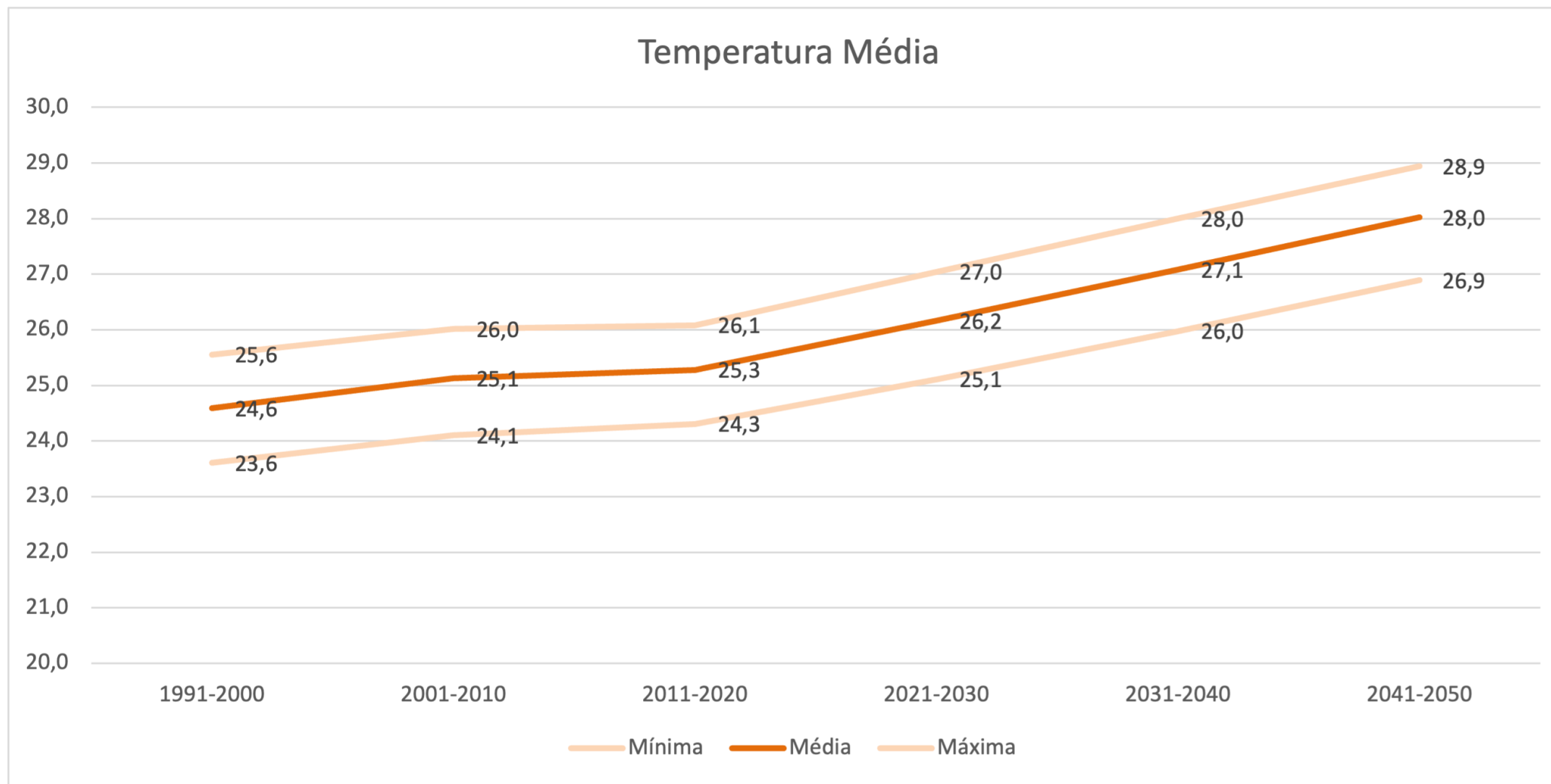
2010

2020

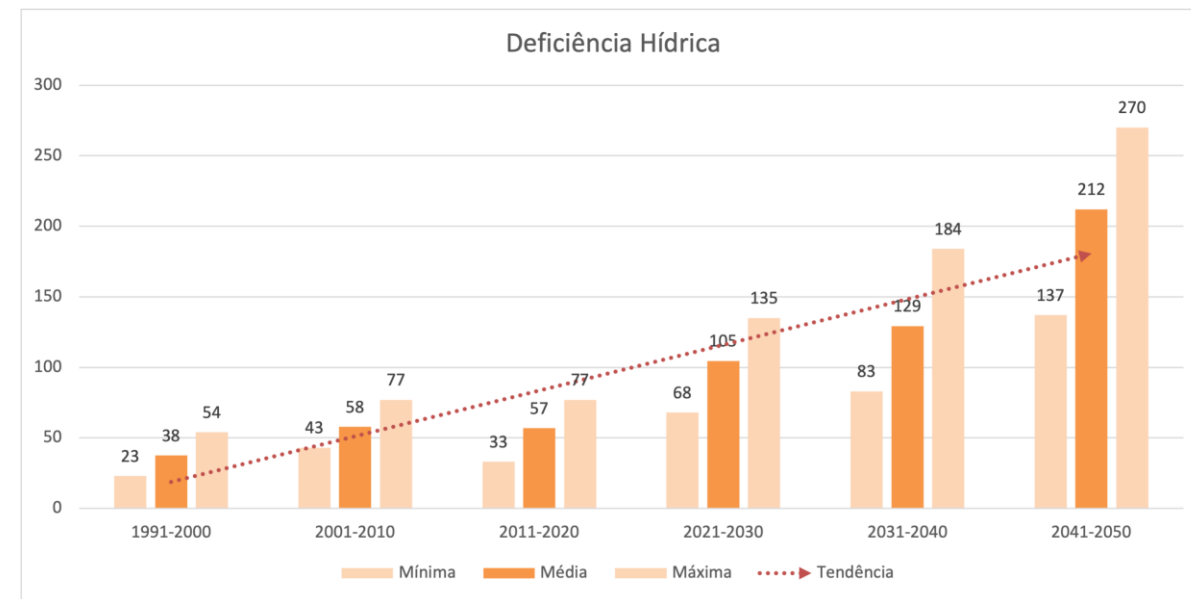
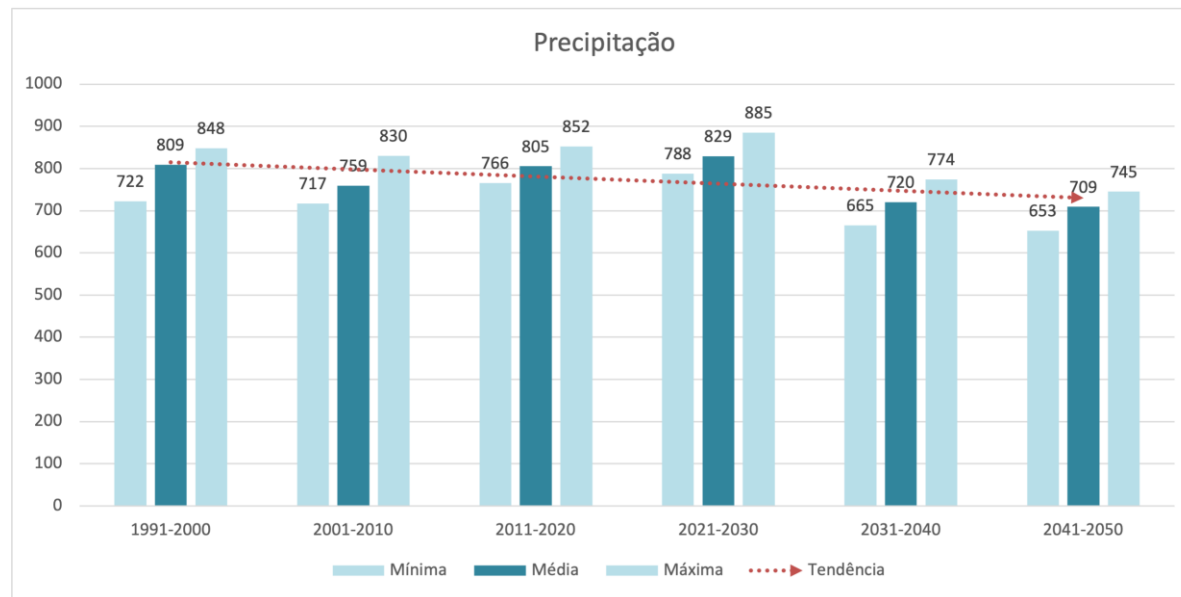
— 2023

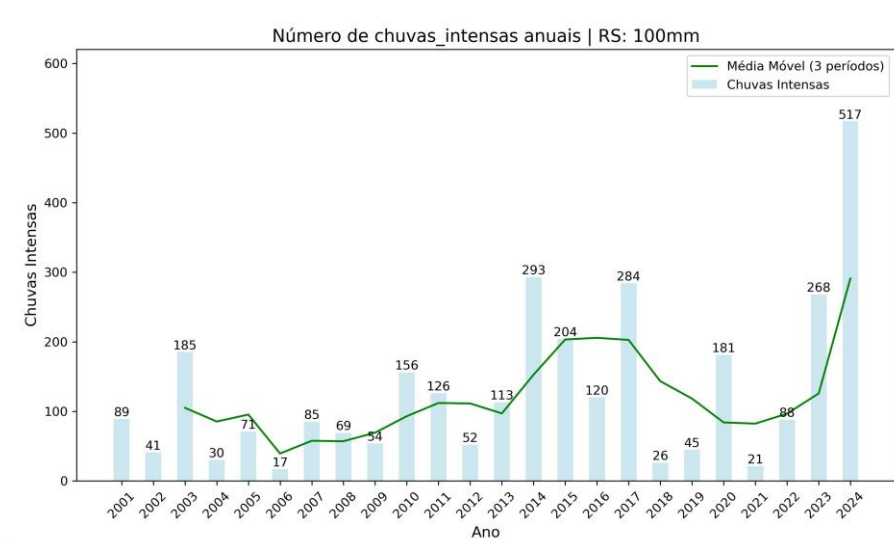
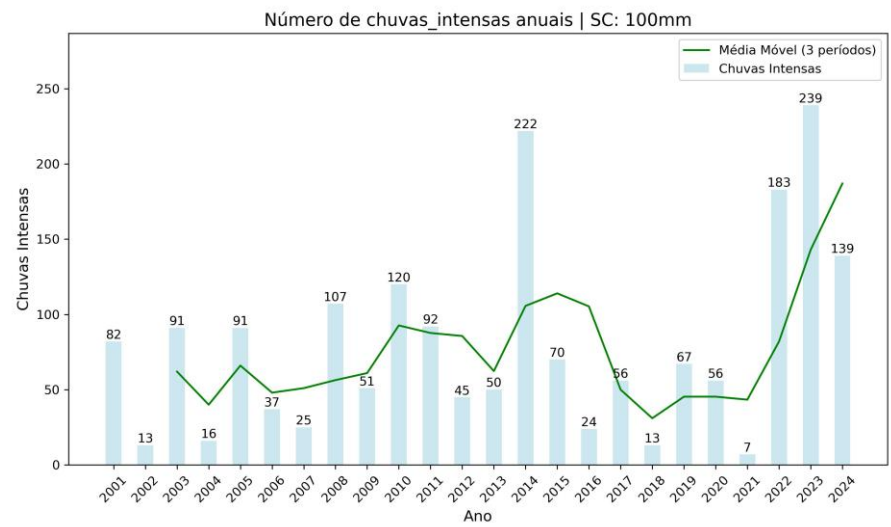
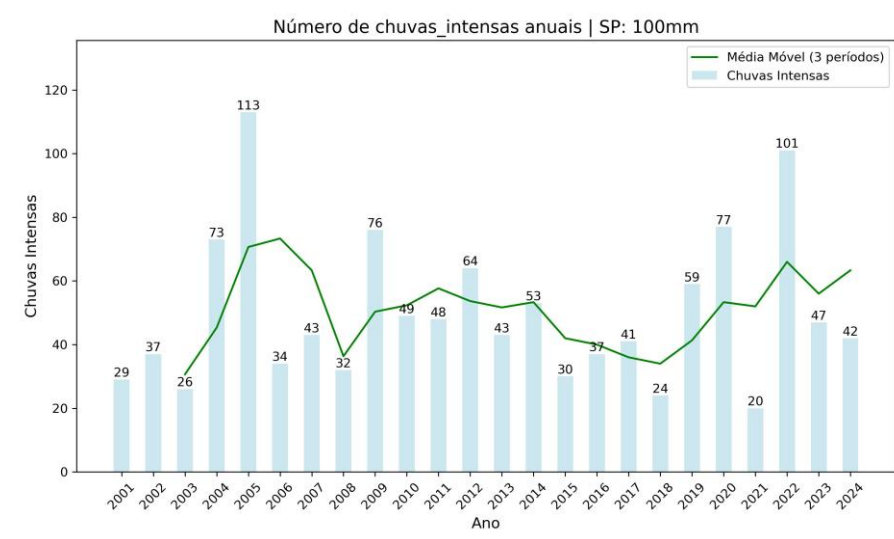
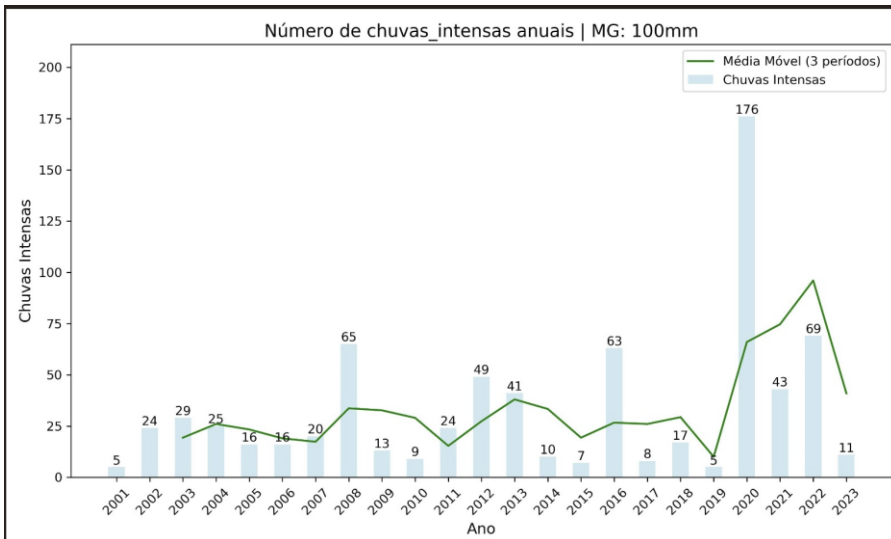
— 2024

Impactos das mudanças climáticas no agronegócio Brasileiro

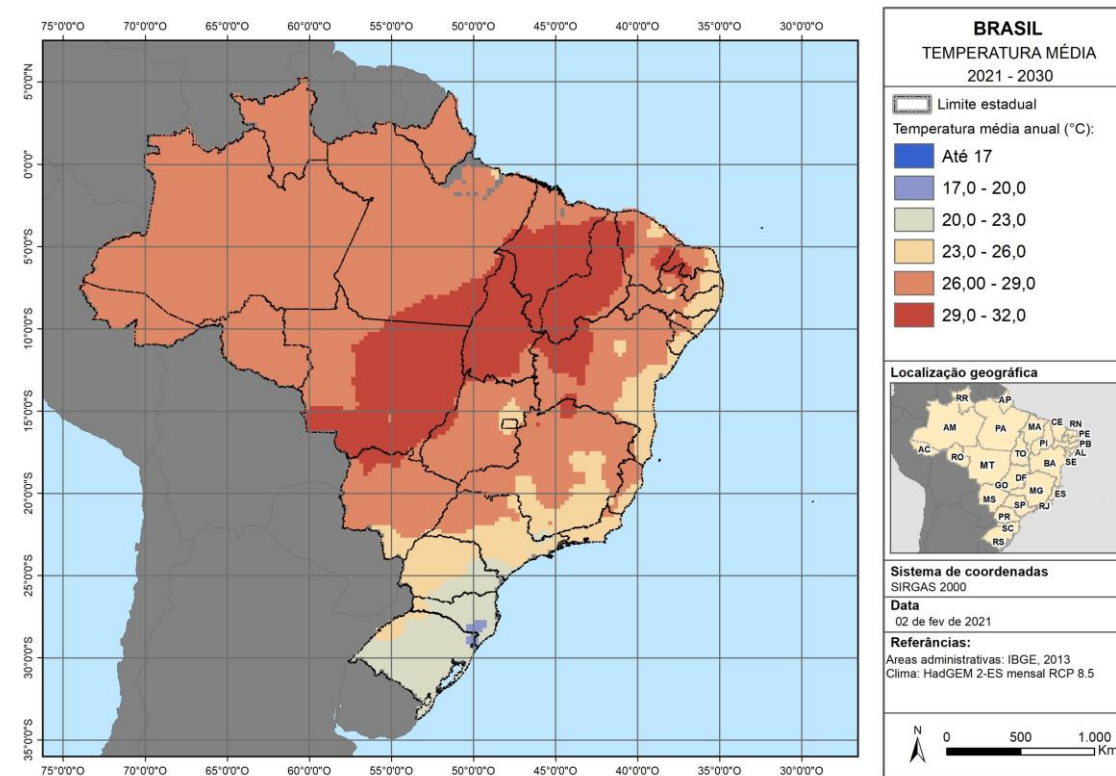
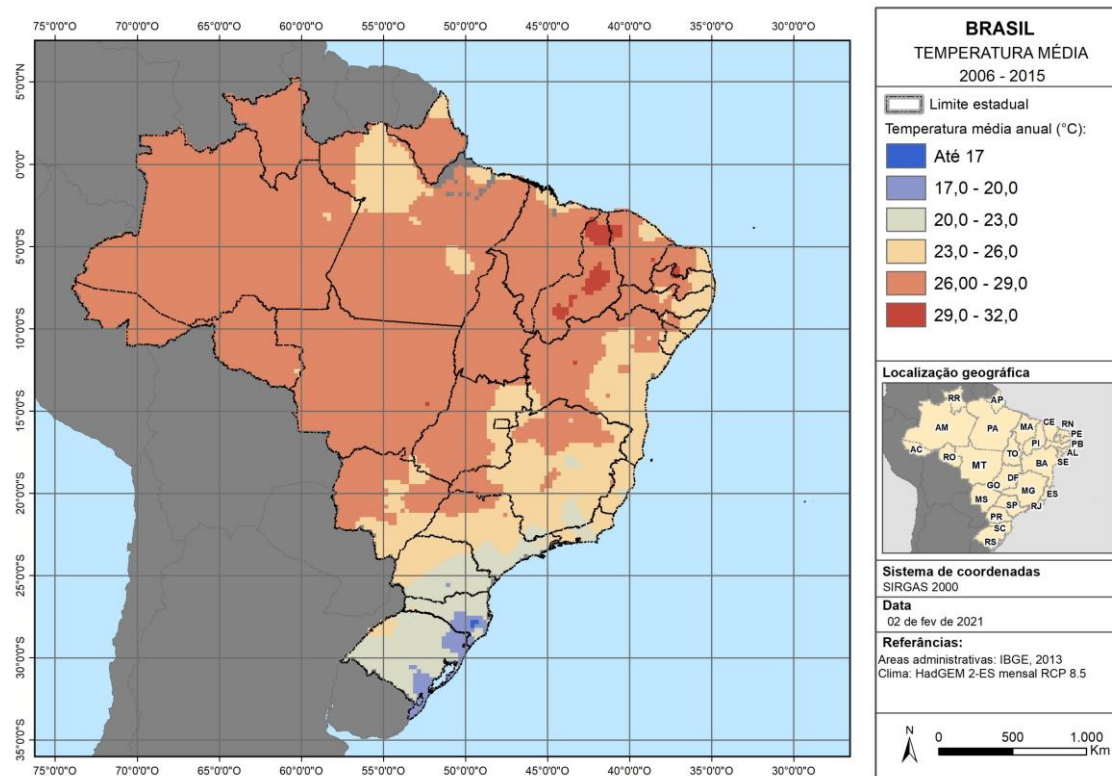


Impactos das mudanças climáticas no agronegócio Brasileiro

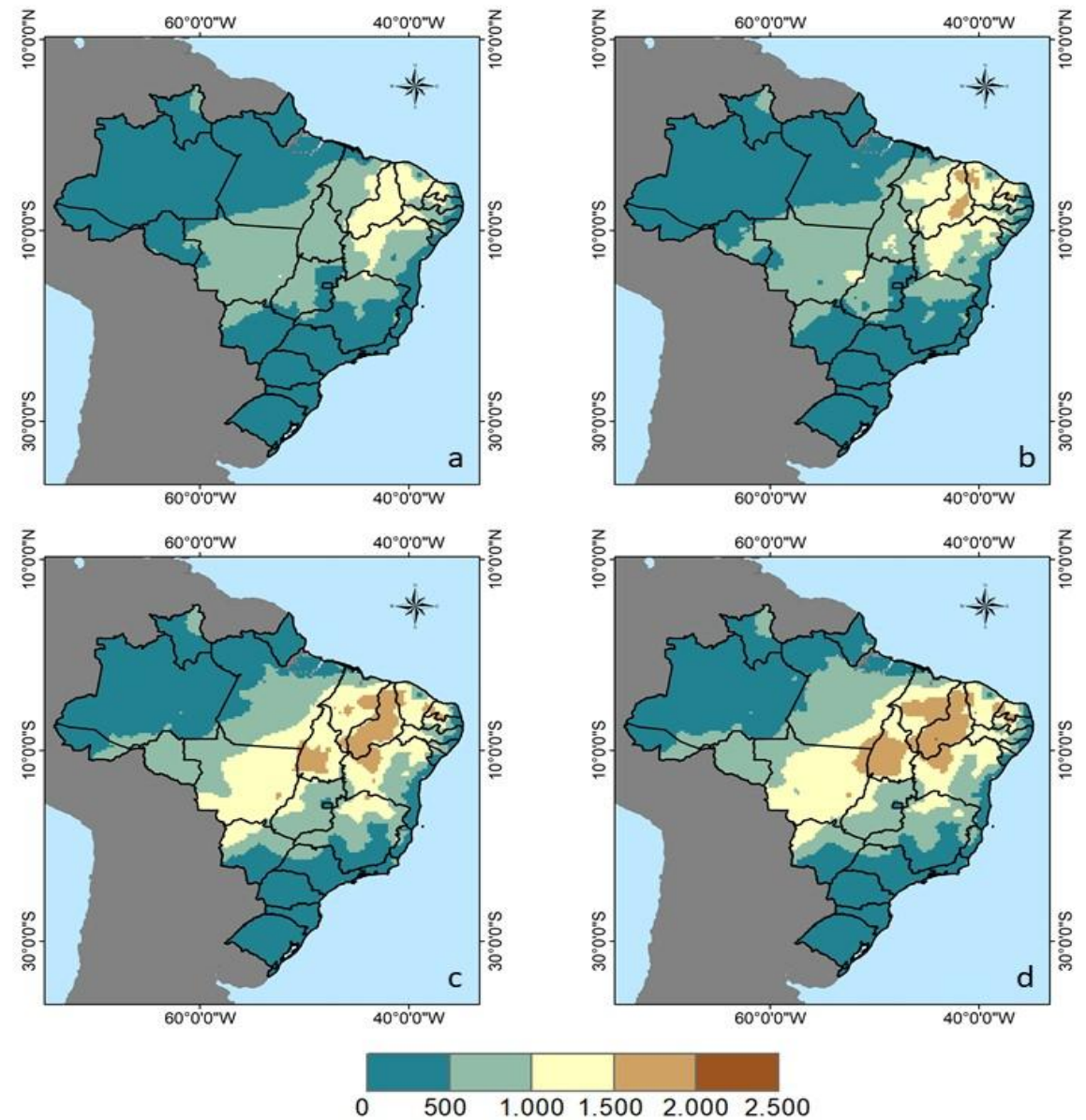




Impactos das mudanças climáticas no agronegócio Brasileiro



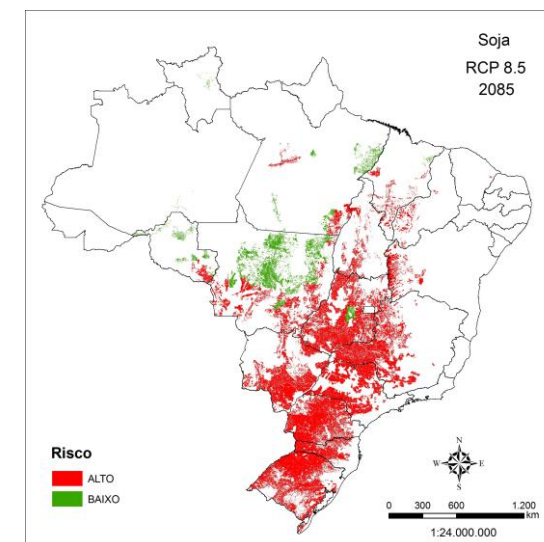
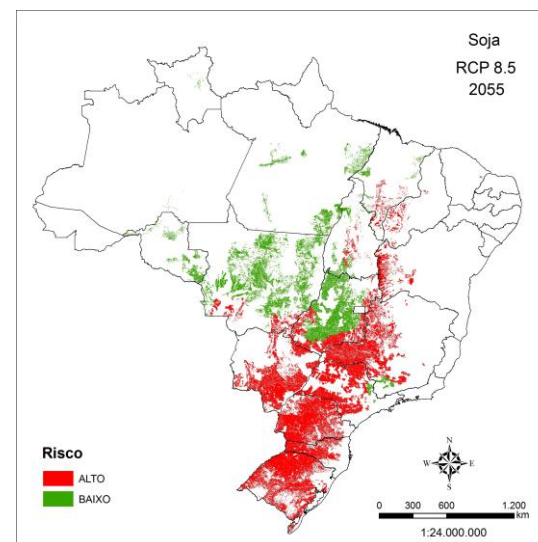
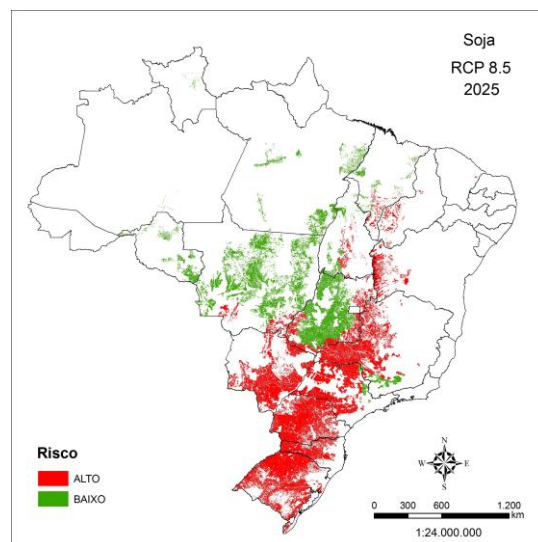
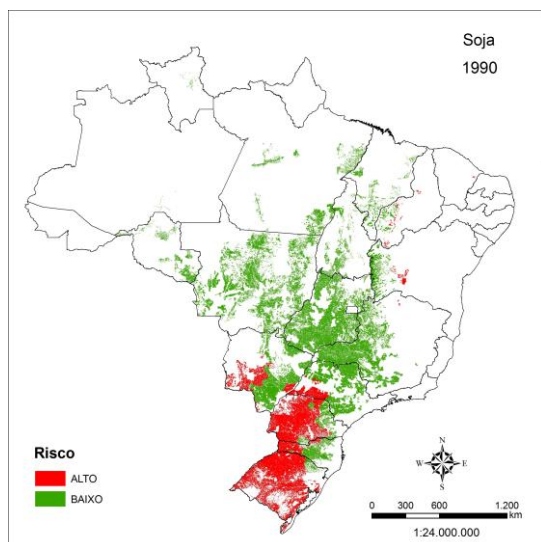
**Deficiência hídrica total (a) 1986 - 2015;
(b) 2006-2015; (c) 2021-2030; (d) 2031-2040.**

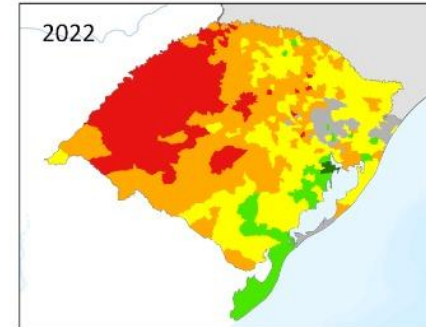
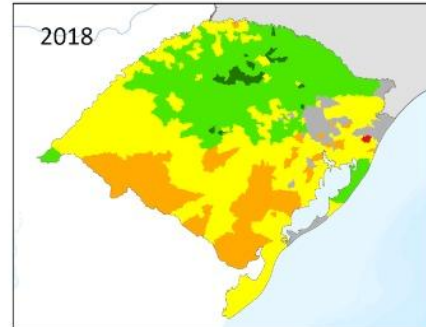
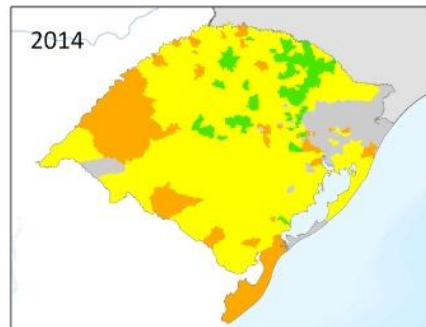
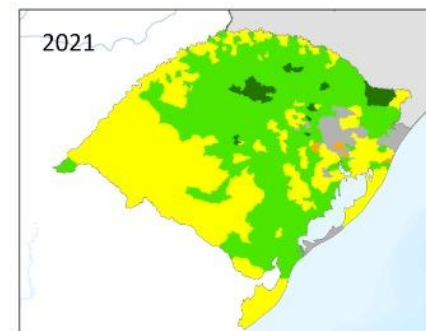
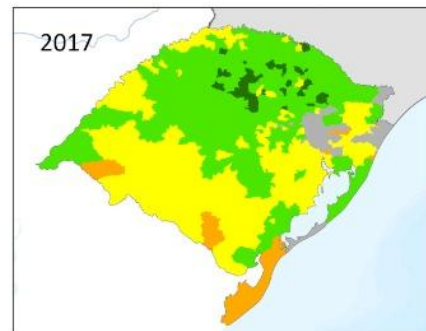
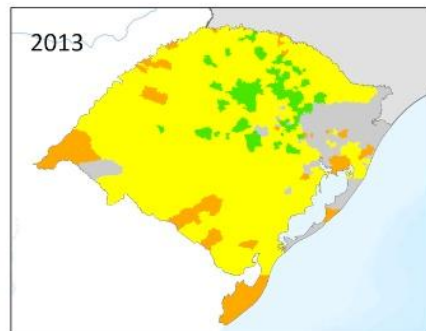
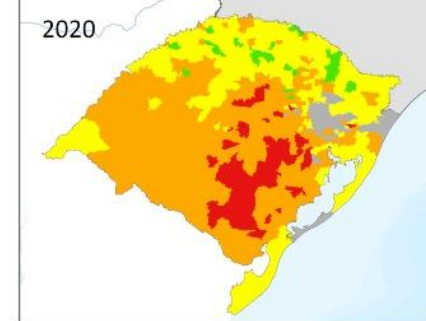
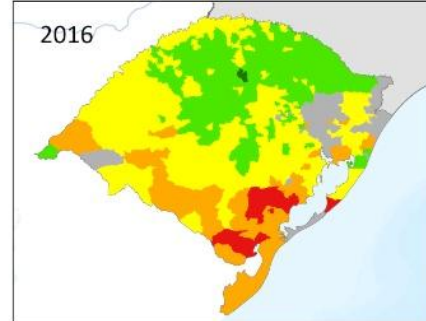
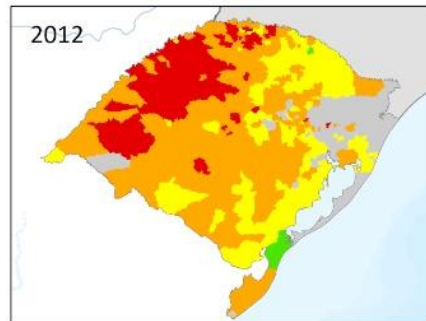
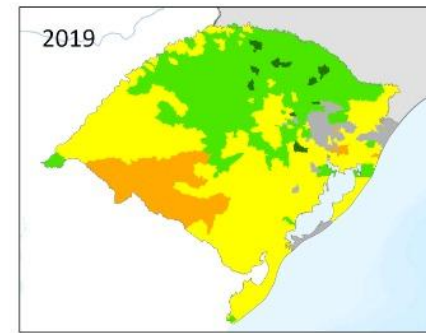
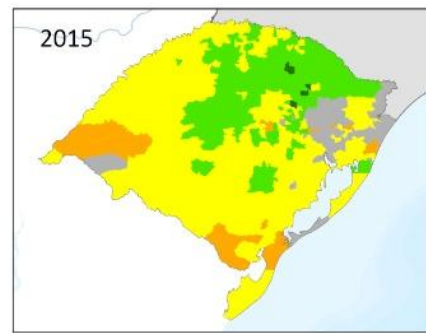
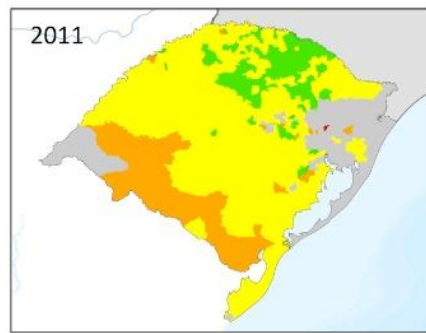


Impactos das mudanças climáticas no agronegócio Brasileiro

Impacto na soja

Projeção feita em 2014





PRODUTIVIDADE SOJA RIO GRANDE DO SUL

LEGENDA

 Limite estadual

Produtividade (kg/ha)

 Sem colheita de soja

 < 1.000

 1.001 - 2.000

 2.001 - 3.000

 3.001 - 4.000

 > 4.001

MAPA DE LOCALIZAÇÃO

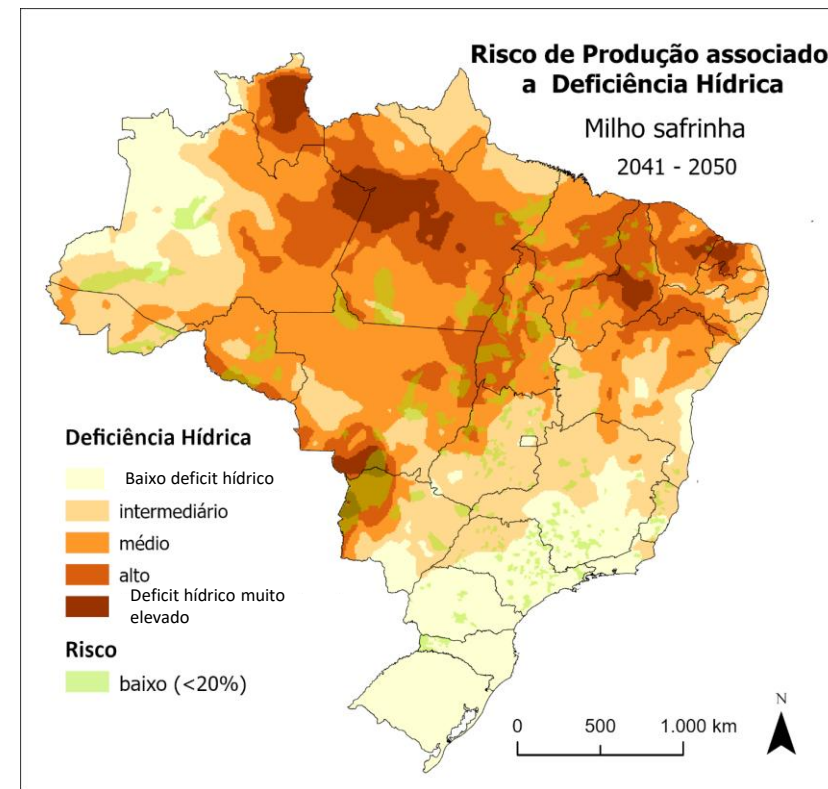
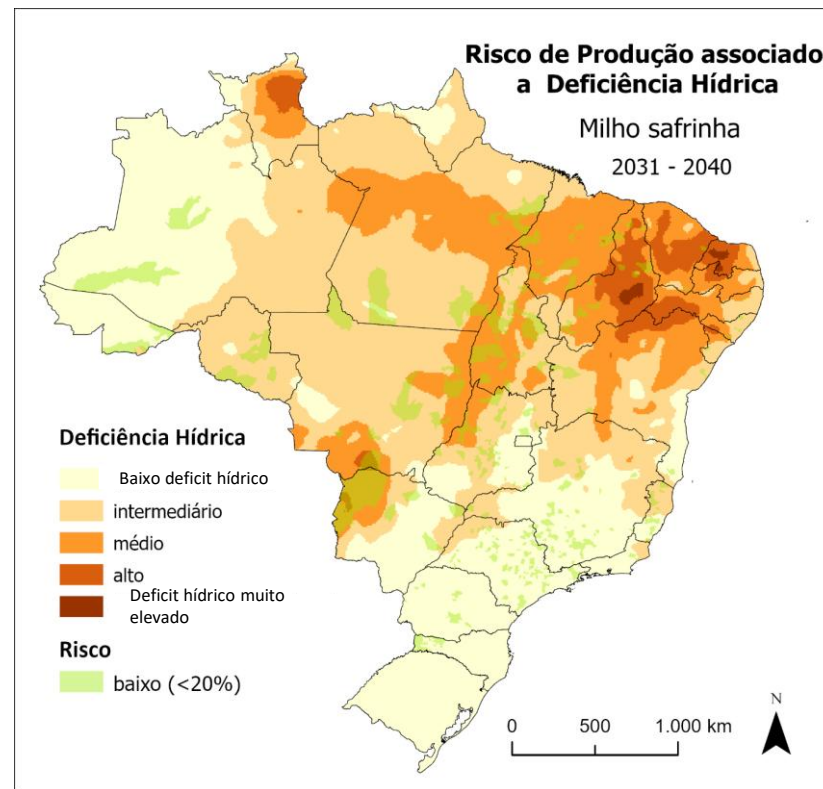
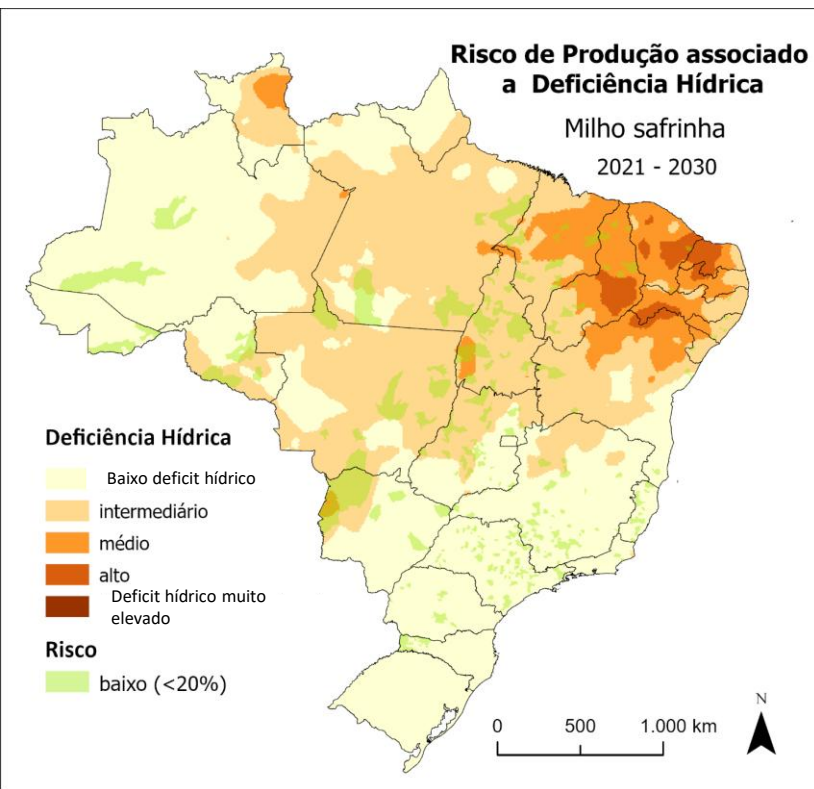


SIRGAS 2000

0 200 400 km

Fonte:
SIDRA -
Produção Agrícola Municipal

Impactos das mudanças climáticas no agronegócio Brasileiro



2021 – 2030

2031 – 2040

2041 – 2050

Evolução dos sistemas de produção



Soja $\pm$ 42% do tempo



Milho $\pm$ 50% do tempo



Soja + milho safrinha $\pm$ 80% do tempo



Soja + milho safrinha + pecuária $\pm$ 92% do tempo



Milho + Braquiária/Pecuária $\pm$ 92% do tempo ($\pm$ 8%)

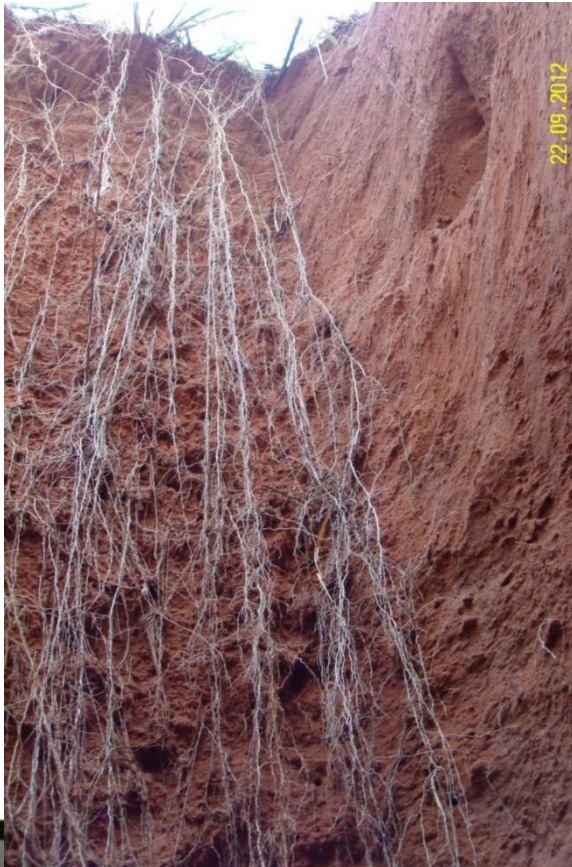


ILP

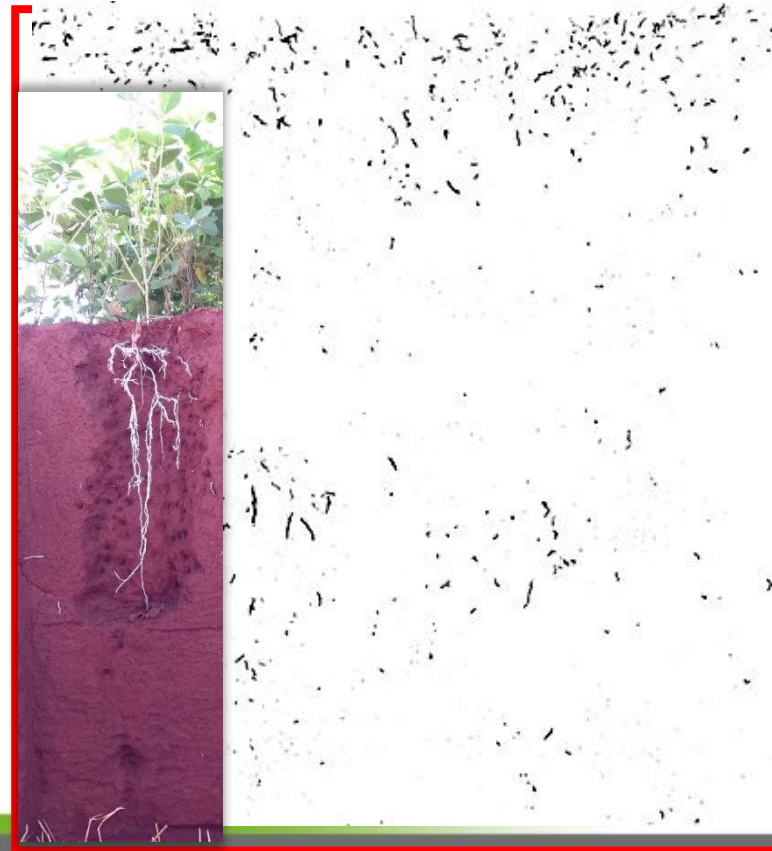
Benefícios do ILP:

maior infiltração de água, redução da erosão, tolerância aos veranicos intensos

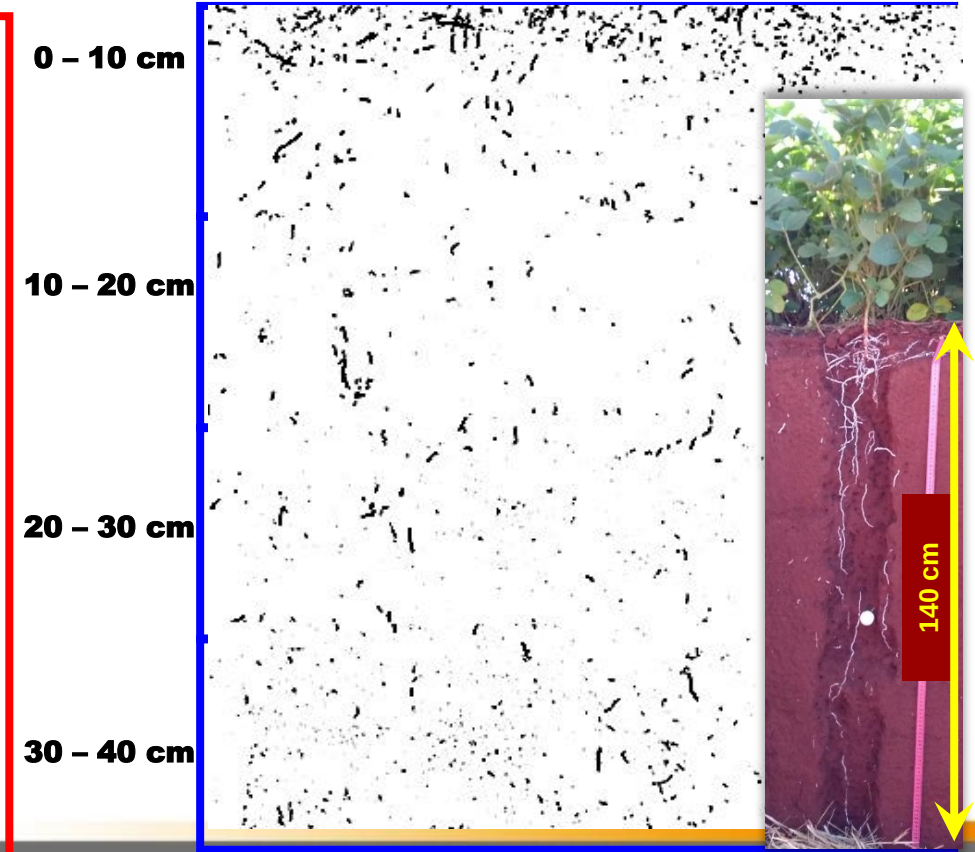
Pasto recuperado



Depois de milho safrinha



Depois de *U. ruziziensis*



Horita Group
West of Bahia State
2011/2012 - 2 mil ha
2012/2013 - 10 mil ha

Embrapa

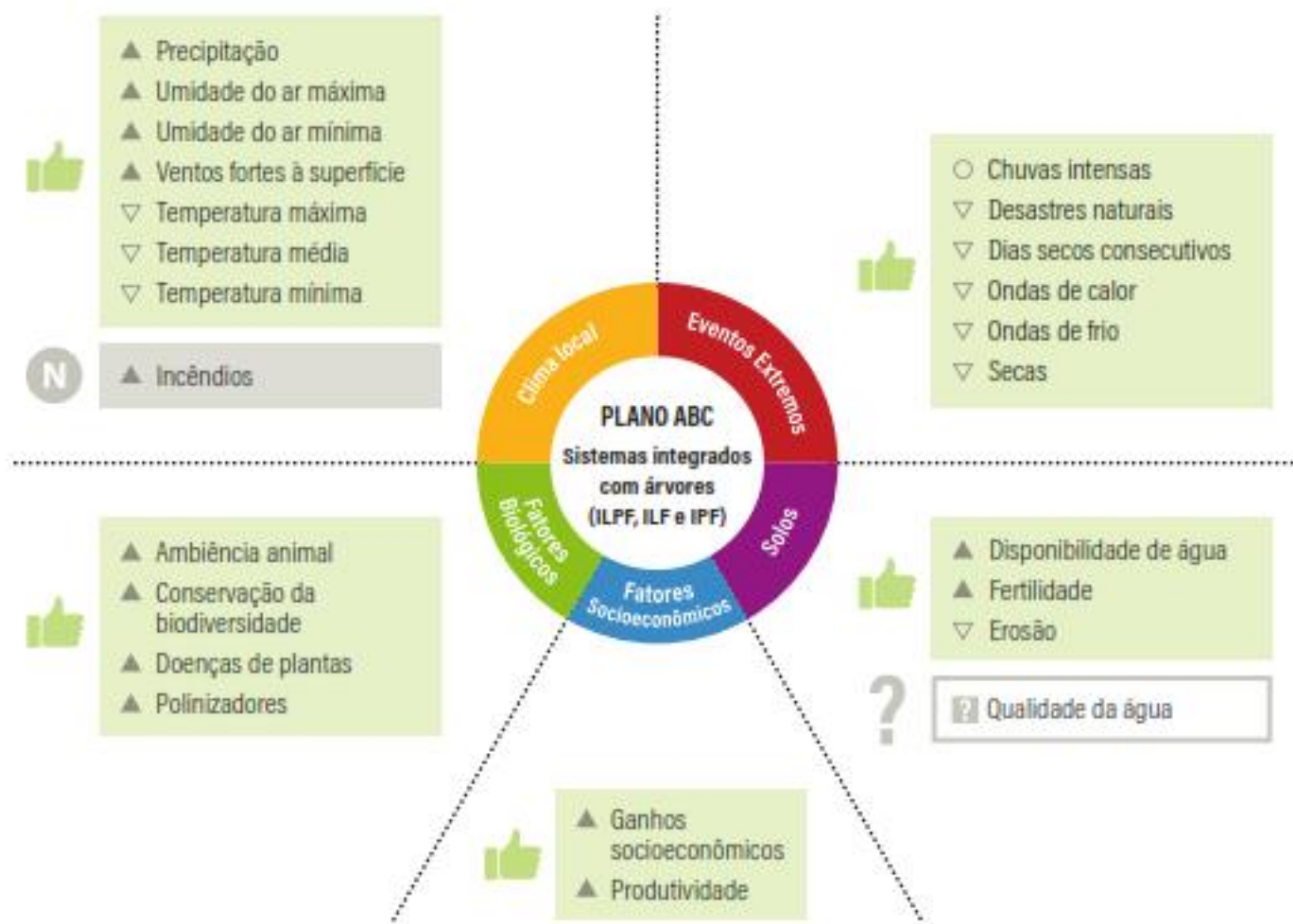
Brachiaria
ruziziensis

Photo: courtesy Lourival Vilela





Efeitos de sistemas integrados com árvores: ILPF, ILF e IPF



Impacto das ações do Plano ABC e do Planaveg:

▲ Aumento ▽ Redução ○ Sem alteração ? Desconhecido

Efeito na capacidade de adaptação e resiliência às mudanças climáticas:

👍 Positivo 👎 Negativo ⚪ Neutro ? Desconhecido

Obrigado!

¡Gracias!

