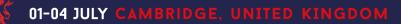


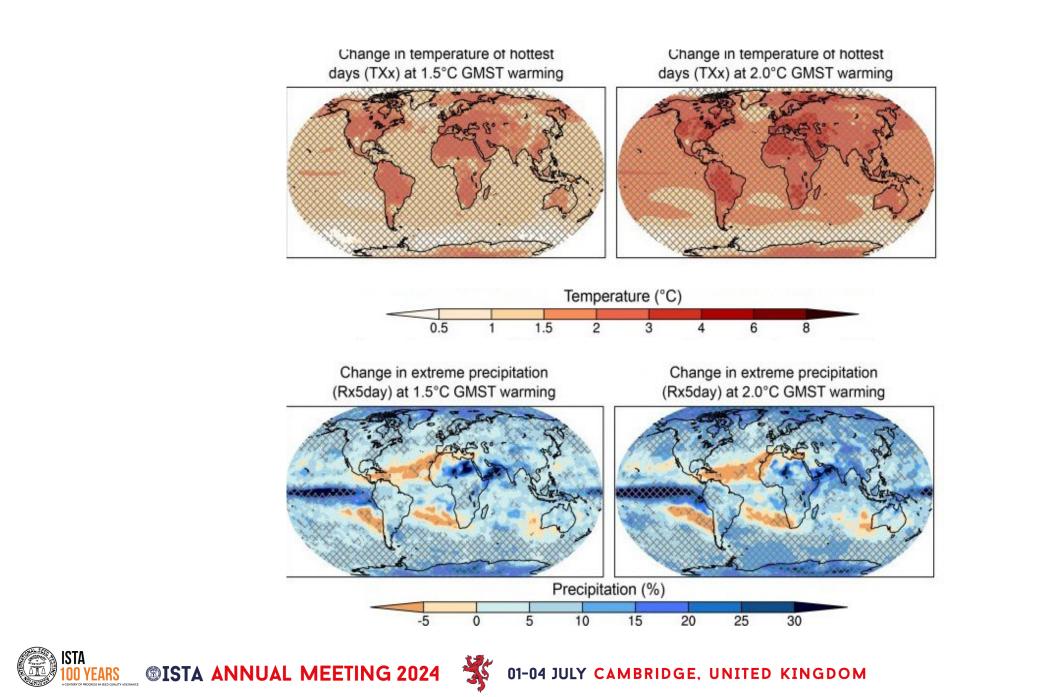
Quality of forest seeds for climate and food security

Elisa Vieira



®ISTA ANNUAL MEETING 2024













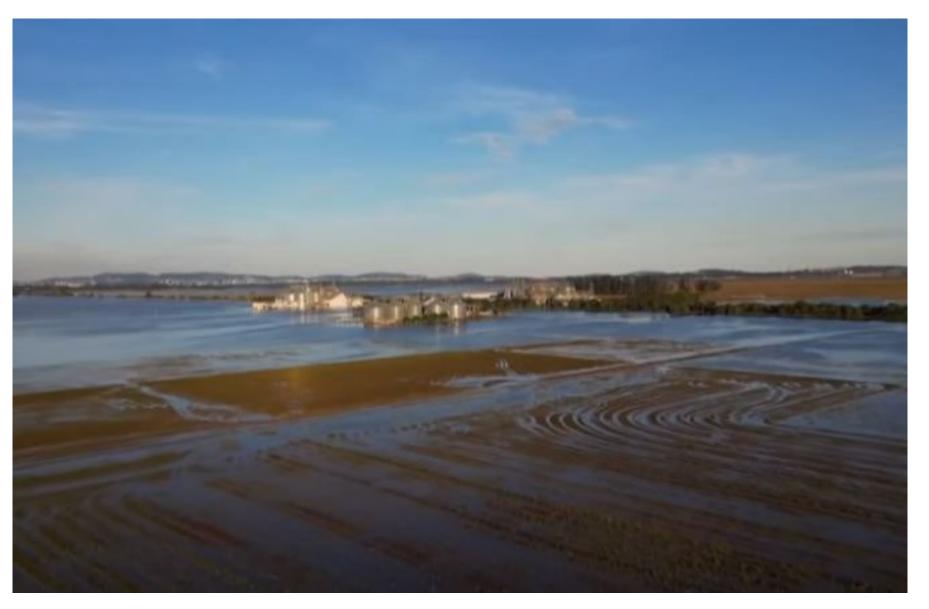


Up to 534 mm of precipitation in one week!!!











Rice fields in the state of Rio Grande do Sul (Brazil), flooded due to the floods of May 2024.









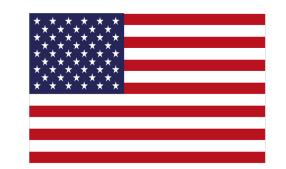


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2 billion trees

12 million ha

148 million ac











Crop – Livestock – Forest Integration





Agroforestry system













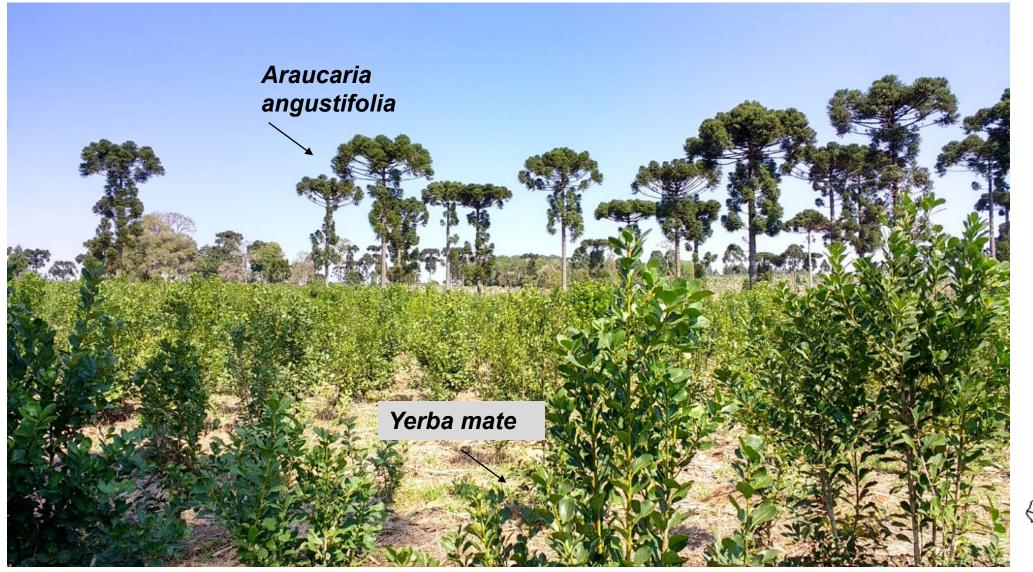
Source: Luiz Maranhão Froufe Embrapa Foresstry































17,430.000 hecatares with Crop – Livestock – Forest Integration







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risk reduction.





Silvopasture & natural stand Christmas tree production



Silvopasture established post clear cut harvest.





Source: Liza Zabek – BC Ministry of Agriculture and Food











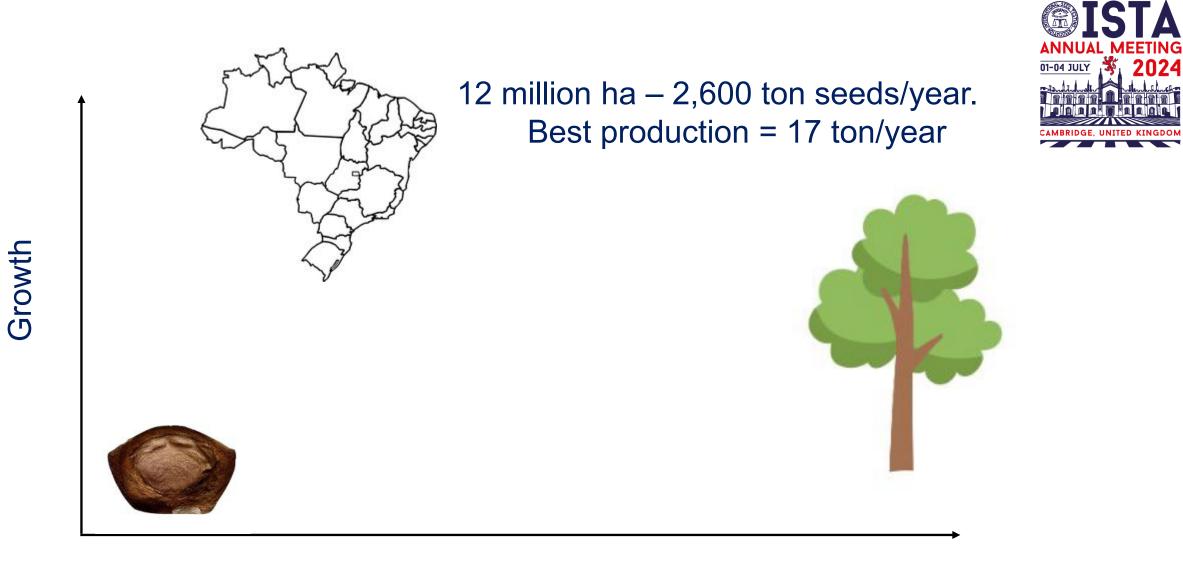




Growth







Years

X



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Pinus taeda cone production ↓ 54%

Year	Rain (mm)	Cone production (bags)
2021	49	2,445
2022	131	1,13

Source: Kolecti Company

Pinus taeda harvert in the south region of Brazil - 2024











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Thank you

- FTSCom members
- Liza Zabek (Canada)
- Embrapa Forestry coleagues
- Kolecti Company

I have no actual or potential conflict of interest in relation to this presentation.

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