

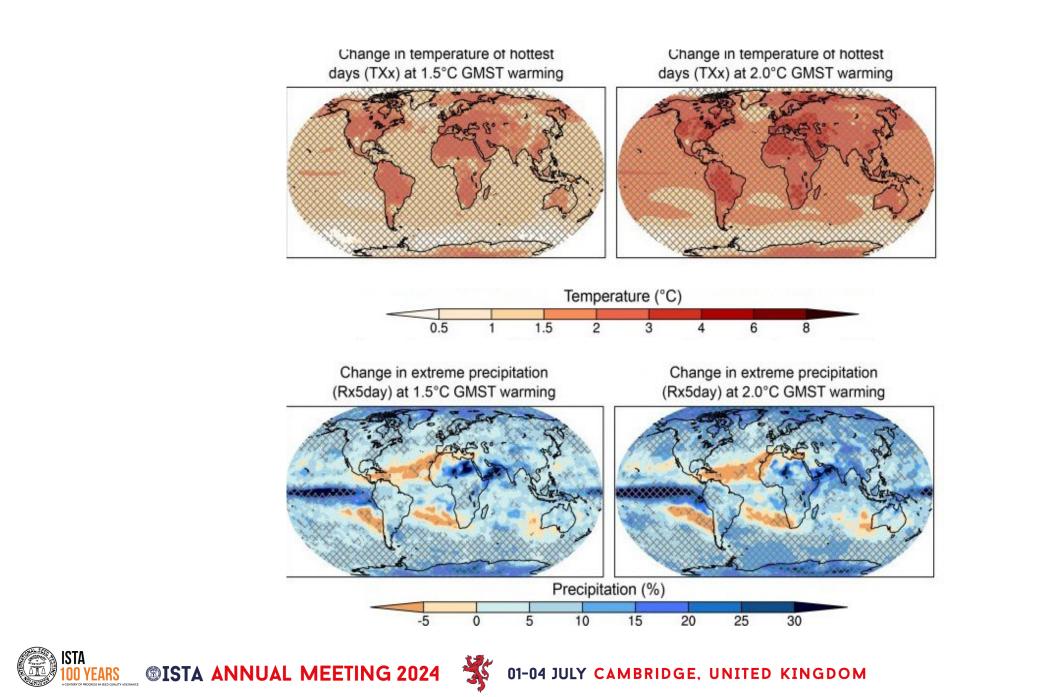
# Quality of forest seeds for climate and food security

Elisa Vieira



**®ISTA ANNUAL MEETING 2024** 













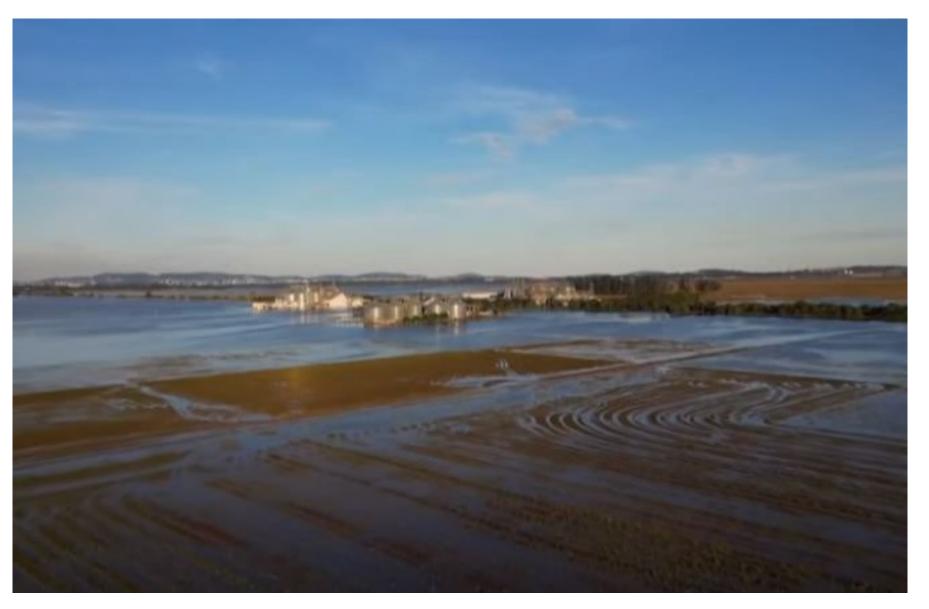


Up to 534 mm of precipitation in one week!!!











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









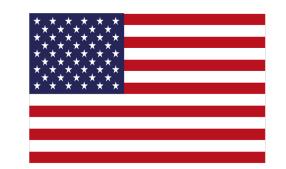


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### **2** billion trees

# 12 million ha

## 148 million ac











Crop – Livestock – Forest Integration





#### **Agroforestry system**













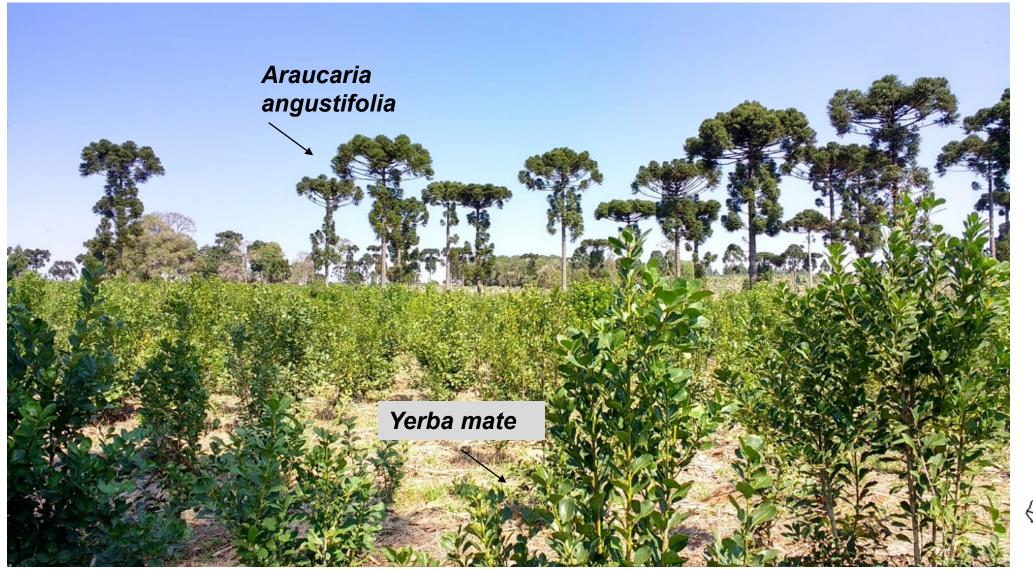
Source: Luiz Maranhão Froufe Embrapa Foresstry































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











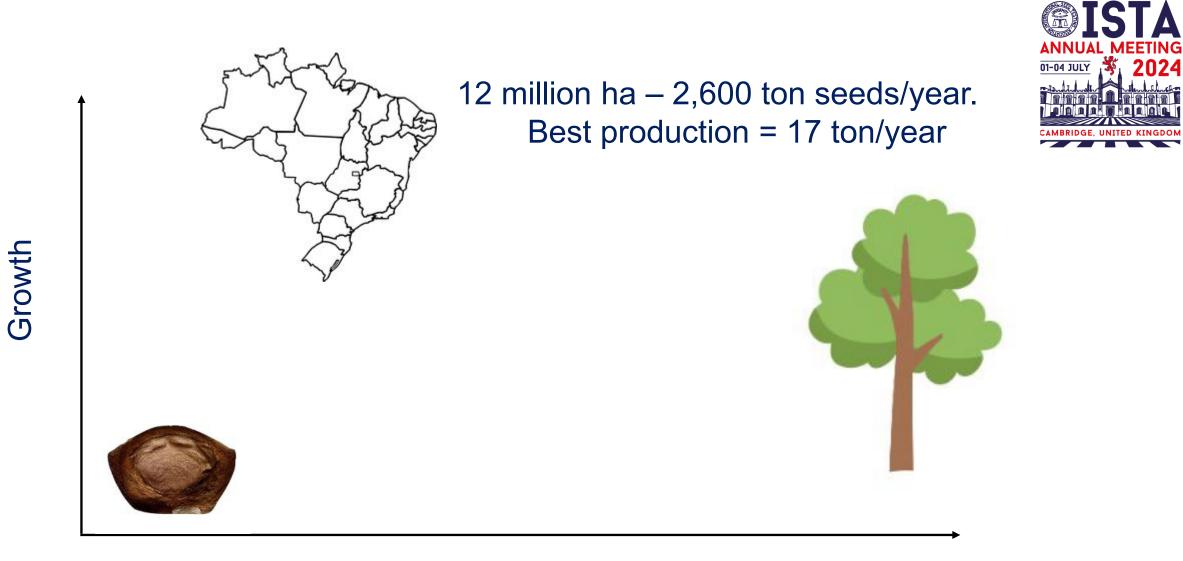




Growth







#### 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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