



University of
Nottingham
Food Systems Institute

The Role of Research in Developing Sustainable and Healthy Local Food Systems

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Sowing ideas, cultivating solutions



Sustainability



Community



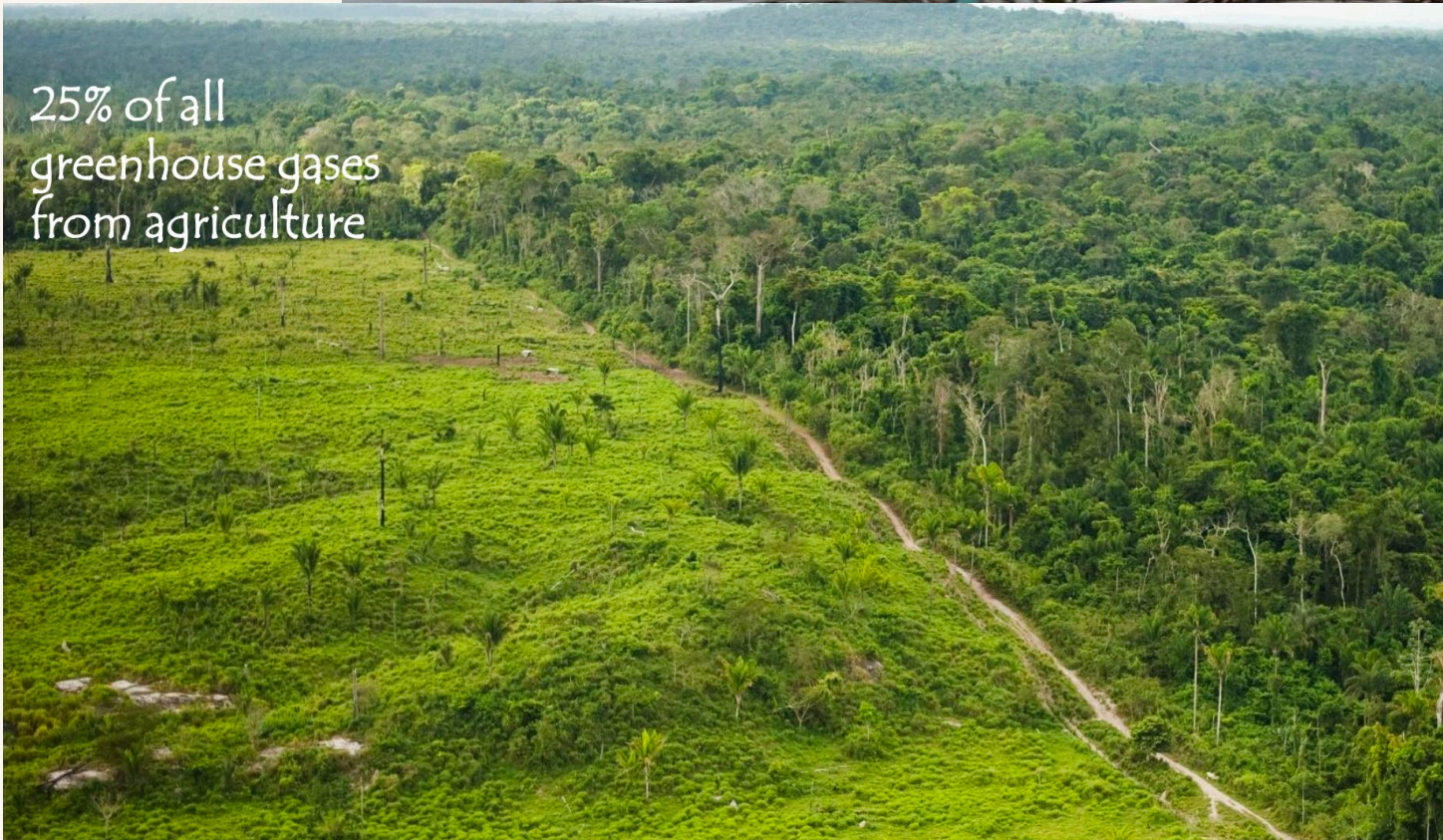
Nutrition





Colorado River runs dry

70% of fresh water used for agriculture



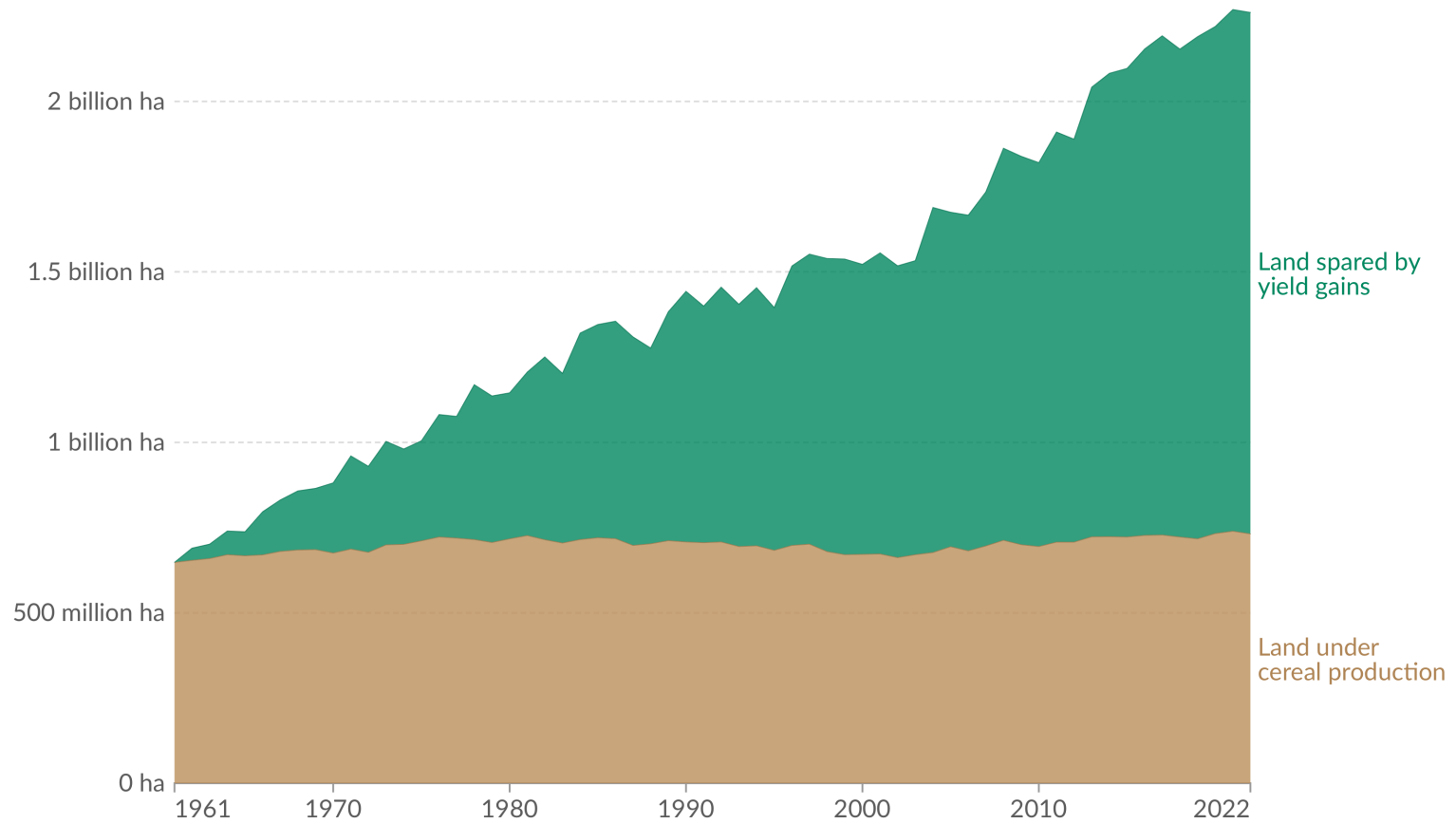
25% of all greenhouse gases from agriculture



Global land spared as a result of cereal yield improvements

Our World
in Data

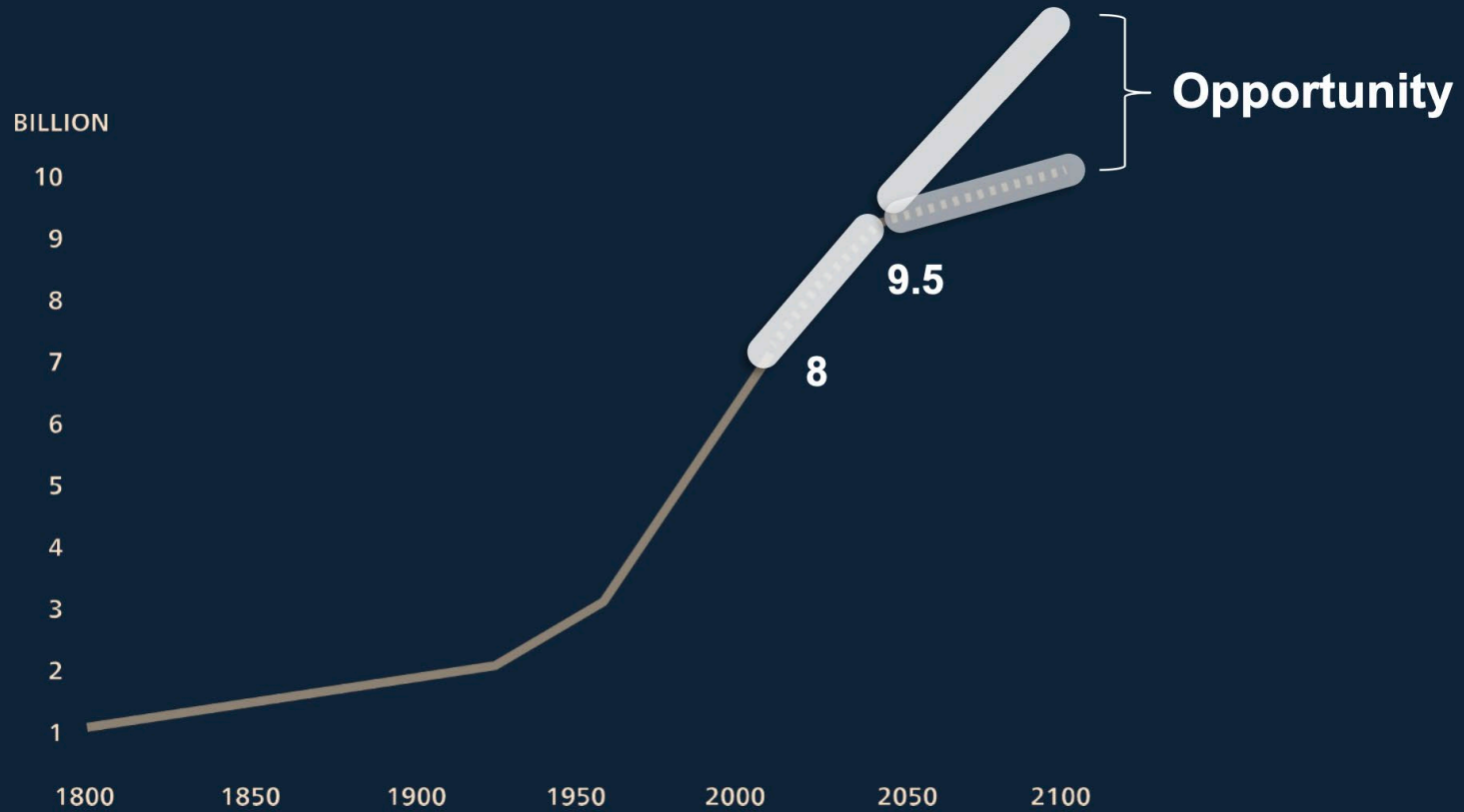
Land sparing is calculated as the amount of additional land that would have been needed to meet global cereal production if average crop yields had not increased since 1961.



Data source: Food and Agriculture Organization of the United Nations (2023)

OurWorldinData.org/land-use | CC BY

Why now matters



Global vs Local



- Large scale production
- Focus on energy & yield
- Global markets

- Minimal impact production
- Focus on nutrition
- Local markets



Food Systems Institute

Three Pillars



Sustainable and resilient food systems

Making our food systems less fragile



Food, Community and Society

Shaping our food system along side communities and society for health and sustainability



Food, Nutrition and Health

Improving population dietary health for a reduced death toll

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Translational Centres

- 1. Regenerative Agriculture**
- 2. Climate Resilient Crops**
- 3. Digital Agriculture**
- 4. Alternative Agricultural Production Systems**



Centre for Sustainable Agricultural Systems



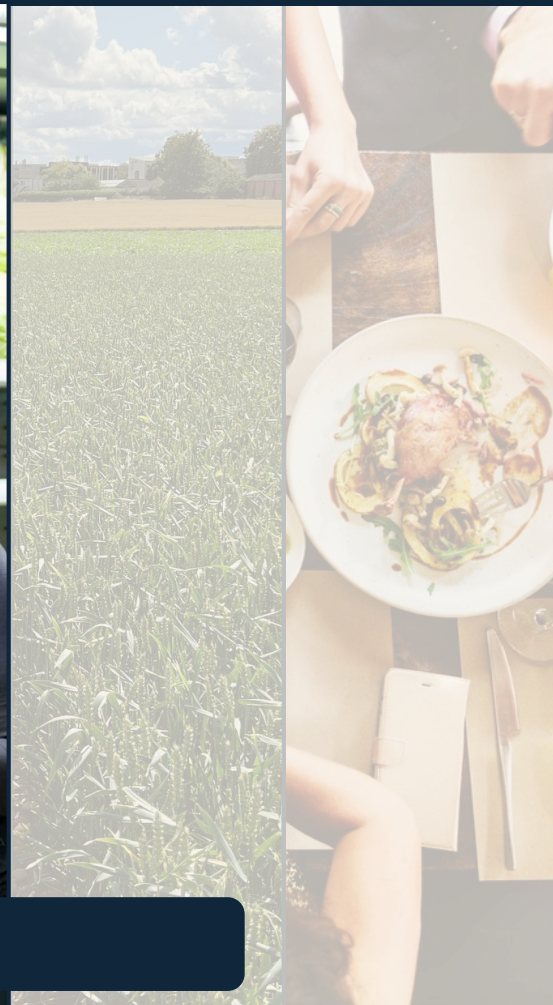


Translational Centres

- 1. Regional Food & Nutritional Security Data Mapping**
- 2. Food Security Interventions**



Community Food Security





Translational Centres

- 1. Understanding Consumer Decision Making In Real World Environments**
- 2. Test Interventions That Can Drive Sustainable & Healthy Food Choices**



Connect Nottingham





Translational Centres



Food Innovation Centre

**Support Business Growth
Through Science-Based
Knowledge Transfer &
Innovation**





Translational Centres



Centre for Food Policy and Foresight

- 1. Synthesise Research Data Into Policy Recommendations**
- 2. Develop Foresight Analysis To Support Long Term Decision Making**





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Community Food Security



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Thank you



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