



# Julie's Bicycle

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Arts Council England

Creative Food Culture

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# Agenda



- Food and Culture: An introduction
- Global social and environmental impacts of food systems
- COP26 outcomes on food and land
- Ways to Take Action
- Taking Action: Guest Speakers from Sustainable Wine Solutions and Royal Court Theatre

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# Introduction

# The Health of the Planet



Worried about biodiversity loss?

Focus on food.

Worried about freshwater supply and quality?

Focus on food.

Worried about deforestation?

Focus on food.

Worried about overfishing?

Focus on food.

Worried about climate change?

Focus on energy, and food.

*Richard Waite, World Resources Institute, April 2021*

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# Food, Drink and the Sustainable Development Goals





# Impacts of Food Production



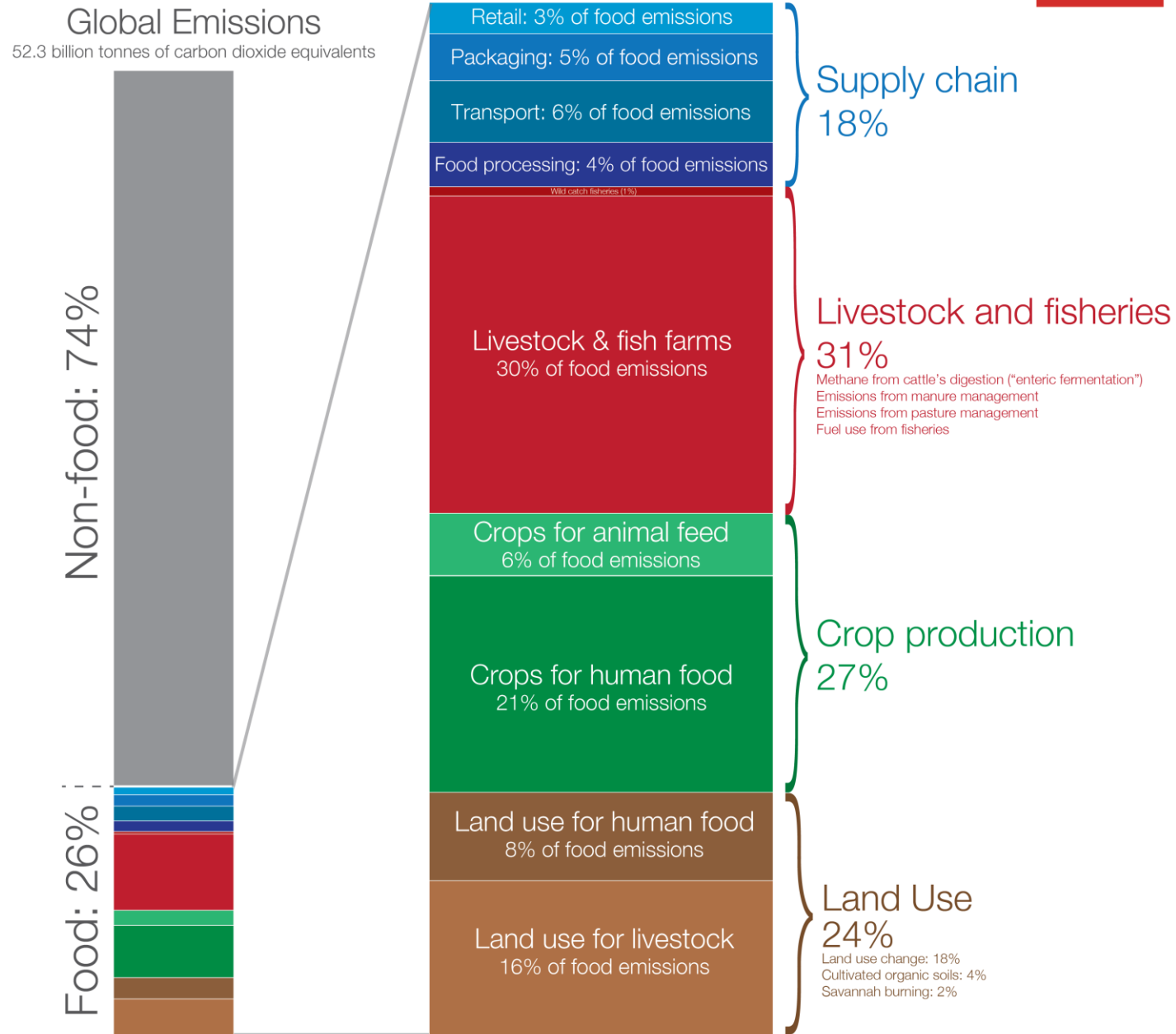
# 1. Greenhouse Gas Emissions

## Global greenhouse gas emissions from food production

Our World  
in Data

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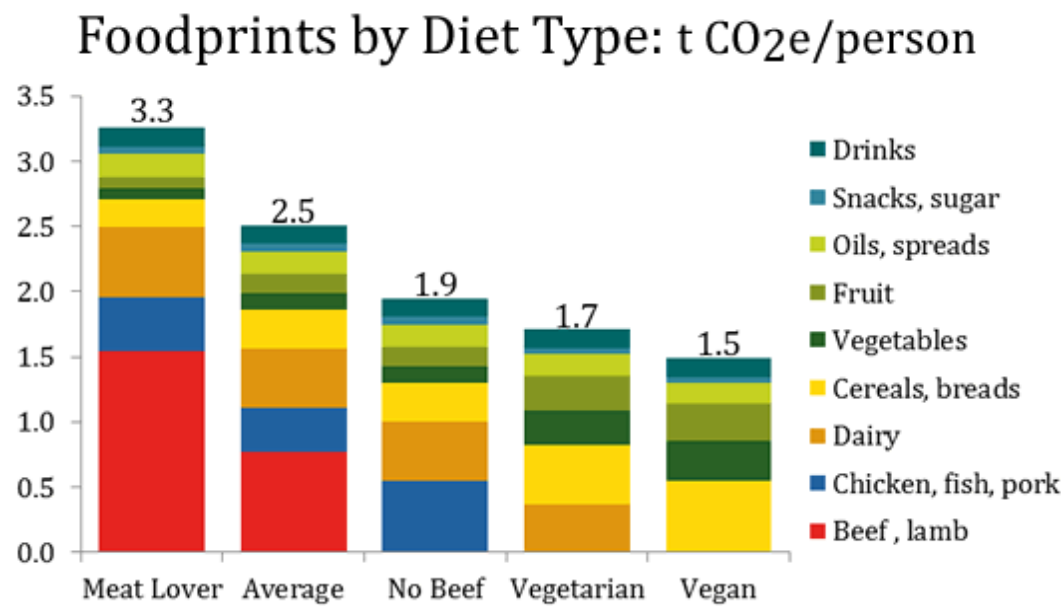
Data source: Joseph Poore & Thomas Nemecek (2018). Reducing food's environmental impacts through producers and consumers. Published in *Science*.

OurWorldinData.org - Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the author Hannah Ritchie.

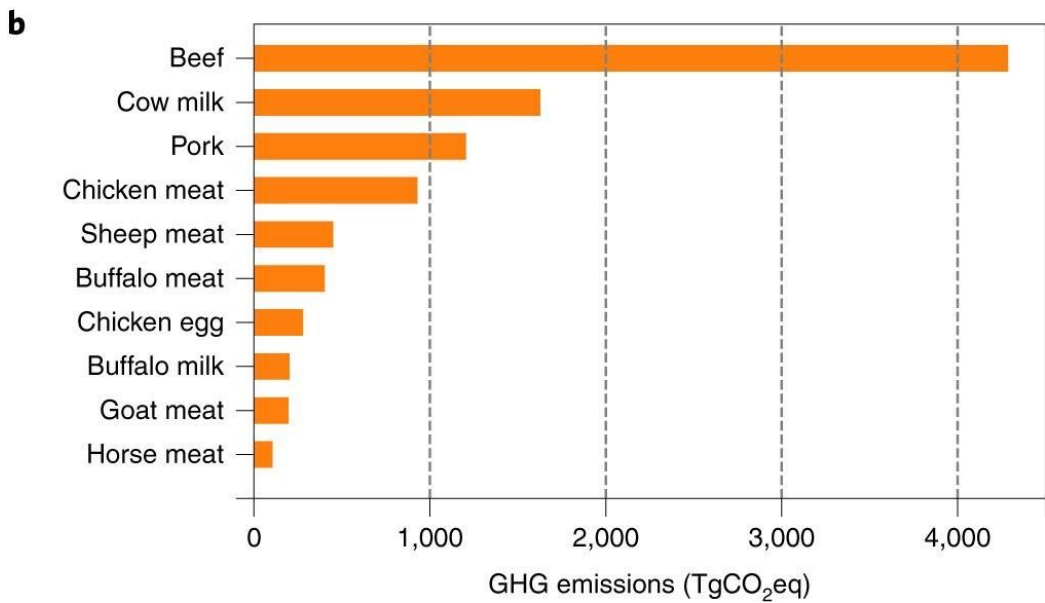
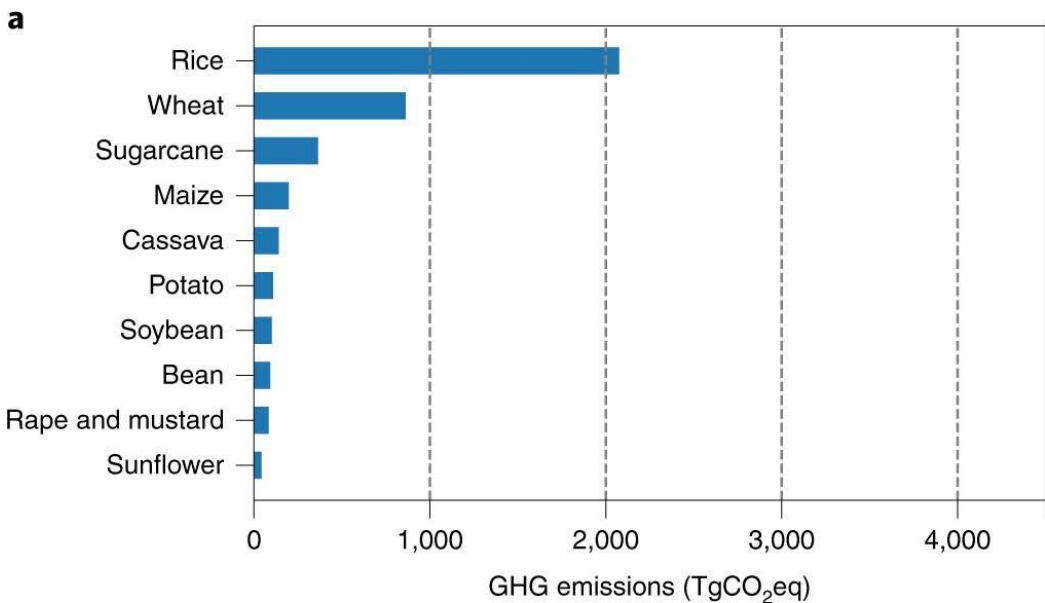
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# Diet and food footprints



Note: All estimates based on average food production emissions for the US. Footprints include emissions from supply chain losses, consumer waste and consumption.. Each of the four example diets is based on 2,600 kcal of food consumed per day, which in the US equates to around 3,900 kcal of supplied food.

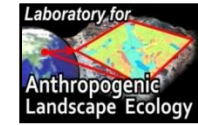
Sources: ERS/USDA, various LCA and EIO-LCA data





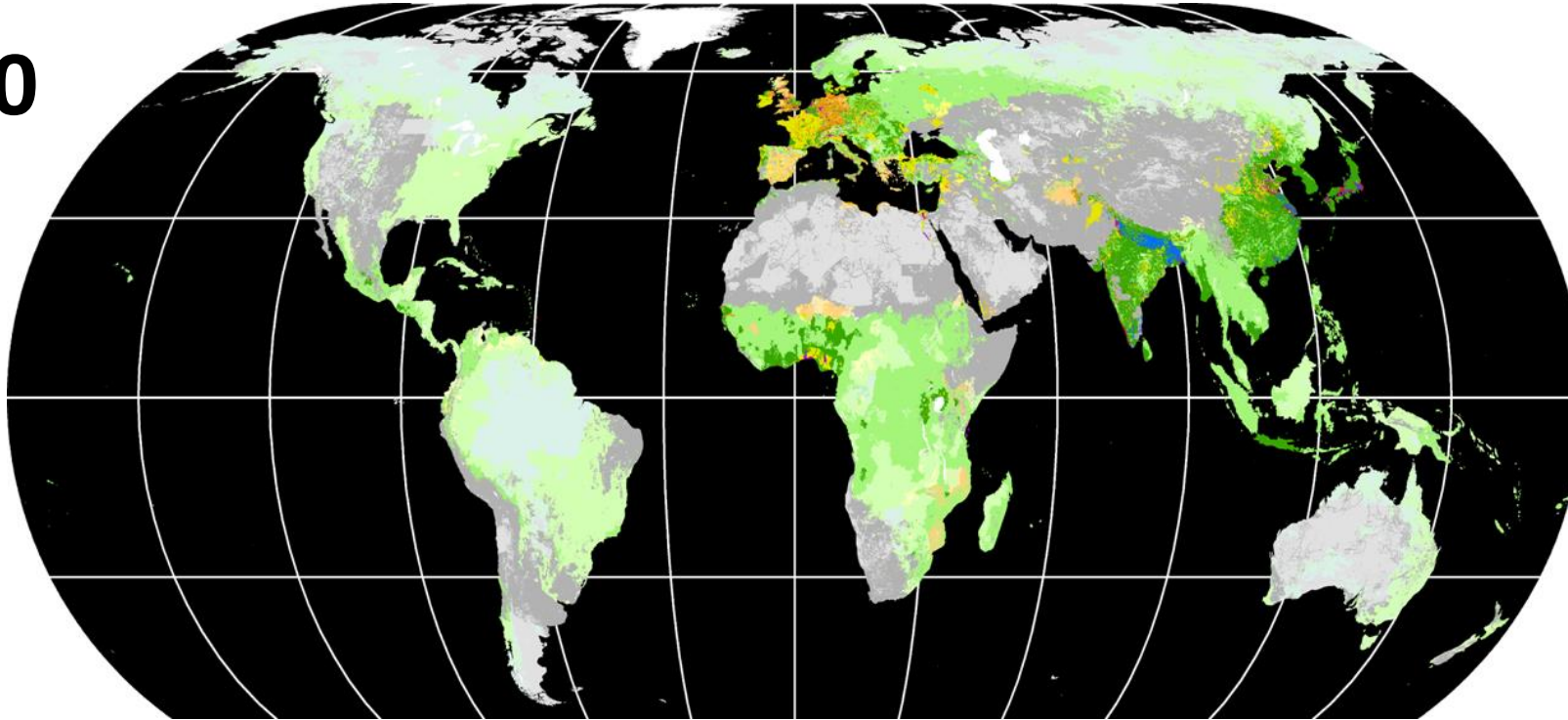
# Age of the Anthropogenic Biosphere

Ellis et al. 2010



*How did the **biosphere** become anthropogenic?*

1700



Used

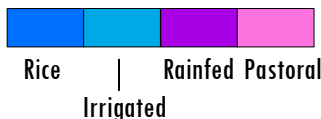
Seminatural

Wild

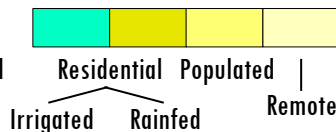
Dense Settlements



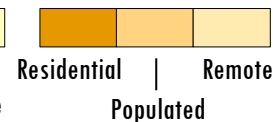
Villages



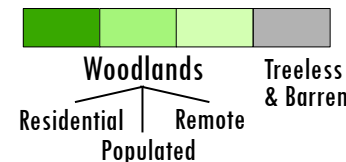
Croplands



Rangelands



Seminatural



Wildlands



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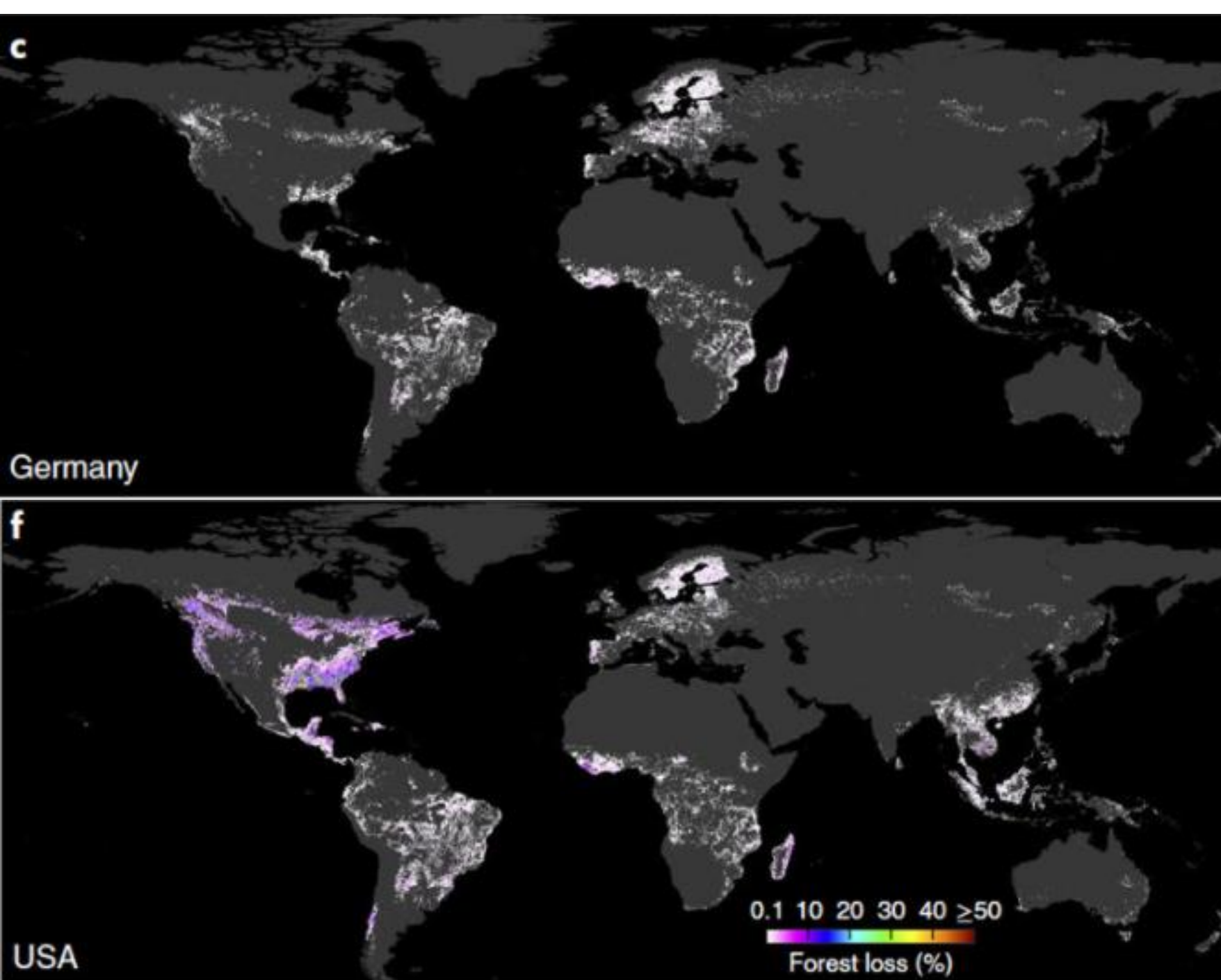
### 3. Deforestation

- **Agriculture is responsible for 80% of global deforestation**
- **Drivers linked to food production cause 70% of terrestrial biodiversity loss.**



## Cumulative Deforestation Footprints for Germany and USA 2001- 2015

Hoang and Kanemoto (2021).



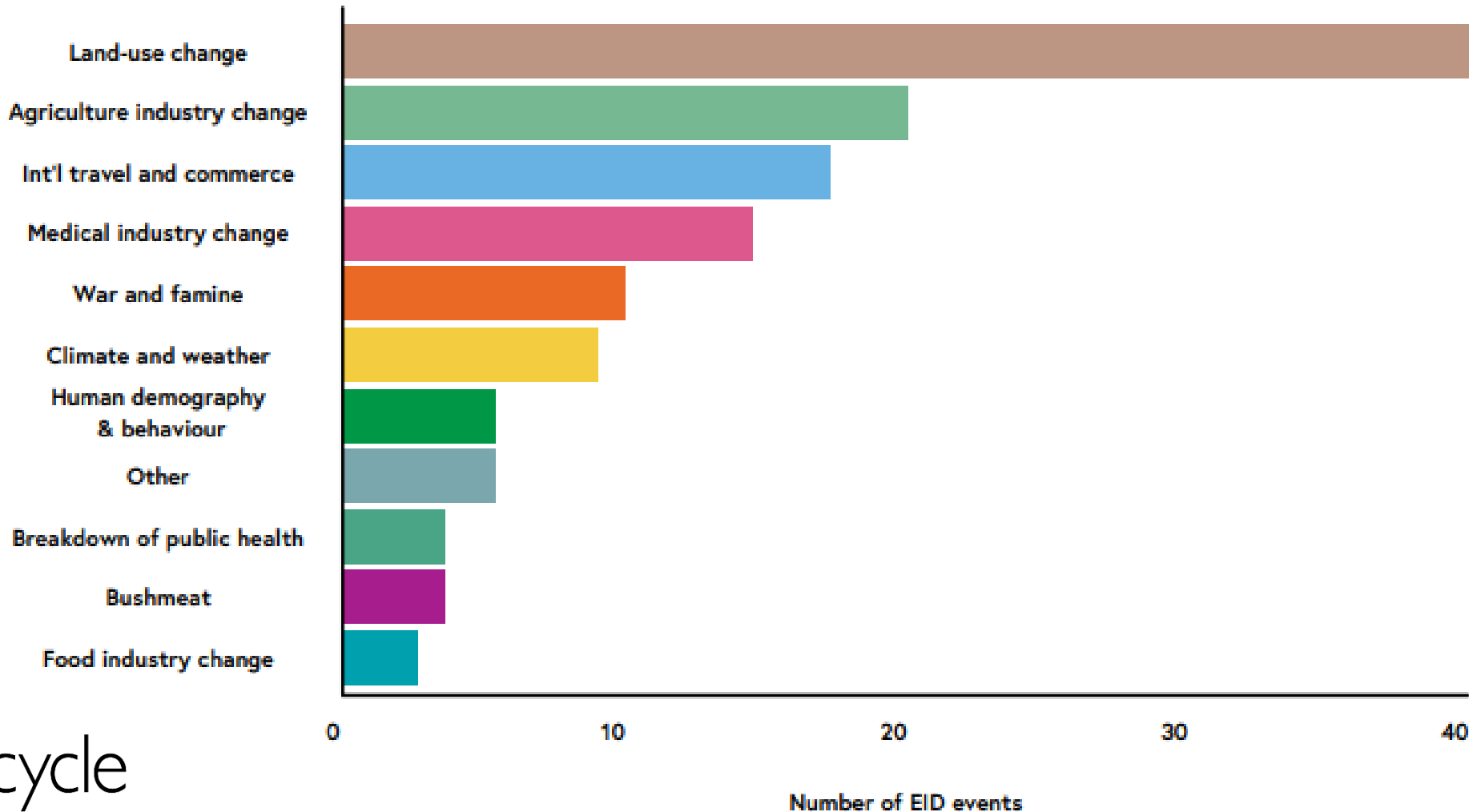


## Case Study: Spotlight on Soy

- Only 13% of soy consumed in the EU in 2018 was certified as deforestation free.
- Soy is mainly used to feed livestock
- In addition US\$500mn of beef is imported from Brazil into the EU each year.

Figure 1.10

**Globally, land use change has been the predominant cause of emerging infectious disease (EID)<sup>†27</sup>**



## 4. Human Health Impacts

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Source: The National Food Strategy, 2021



Overfishing: 94% of global fish stocks are fully fished or overfished.



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# POLL: FOOD AVAILABILITY AND SECURITY

- In the UK, do you think we:
  - 1) Have an oversupply of food/more than enough to feed everyone
  - 2) Enough food to feed our population
  - 3) Not enough food

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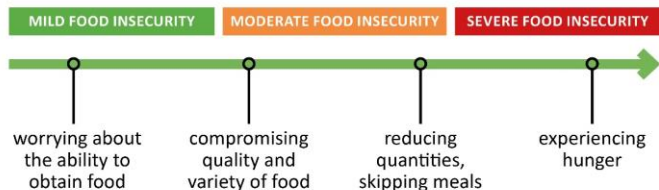
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## FOOD INSECURITY IN THE UK

 **8,400,000**   
people in the UK are estimated to be "food insecure"

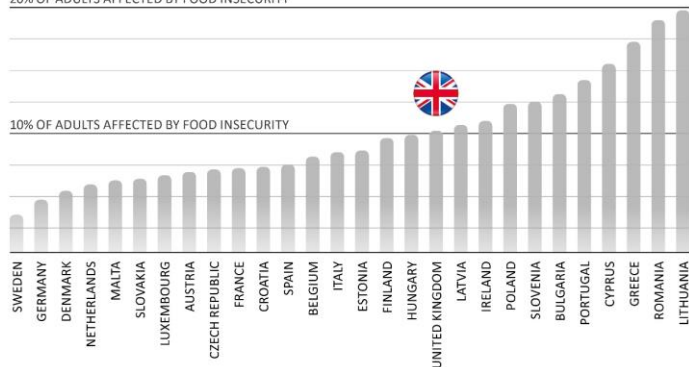
## WHAT IS FOOD INSECURITY?



 **4,700,000**   
people in the UK are estimated to be "severely food insecure"

## THE UK IS IN THE BOTTOM HALF OF ALL EU COUNTRIES

20% OF ADULTS AFFECTED BY FOOD INSECURITY



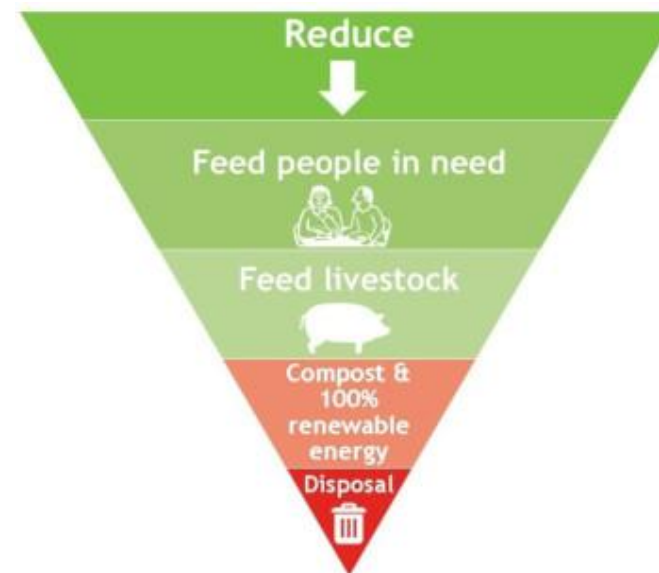
Sources: These data are from the UN Food and Agriculture Organisation's Voices of the Hungry project which included measures of food insecurity in the Gallup World Poll. The data has been gathered using the Food Insecurity Experience Scale and a nationally representative sample of 1000 in 2014. The data are provisional as sample sizes are too small to get very precise estimates. The UK government should start to incorporate measurement of food insecurity into existing national survey instruments so we can track food insecurity in the UK.

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foodfoundation.org.uk | ideas that change food



Estimate is at least 1.3bn meals a year wasted annually that could be going to vulnerable people in the UK

**850 million meals**

Primary production (farms)\*

**452 million meals**

Manufacturers and retail\*

**57 million meals**

FareShare redistributed 2019/20

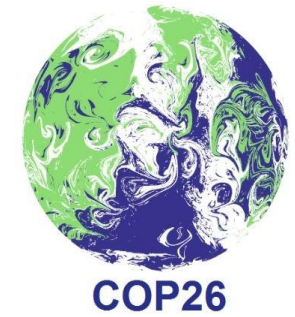




## Agenda

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- Global social and environmental impacts of food systems
- **COP26 outcomes on food and land**
- Ways to Take Action
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# COP26 Policy Outcomes for Land and Food

- Glasgow Leaders' Declaration on Forests and Land Use, signed by 130 countries promising to “work collectively to halt and reverse forest loss and land degradation by 2030”.
- The Forest, Agriculture and Commodity Trade (FACT) Statement, led by the UK and Indonesia aims to support sustainable trade between commodity-producing and -consuming countries.
- The Koronivia Roadmap- inclusion of “agroecology”
- Various voluntary pledges: Global Methane Pledge, the Agricultural Innovation Mission for Climate (AIM4C) and the Policy Action Agenda for a Just Transition to Sustainable Food and Agriculture.

## Driving the cultural shift

Creative Programming  
Engagement and  
Awareness  
Innovation/Creative menus  
Food labelling and  
audience communications

## Practical Solutions

Procurement &  
suppliers/caterers  
Policy  
Certifications  
Composting  
Community spaces  
Green Spaces/Buildings  
Collaboration & local  
movements

## External solutions and new models

Regenerative farming  
Nature Based Solutions  
Campaigns  
Localising  
Lifecycle Analysis  
Monitoring and Measuring  
Food emissions  
Innovation

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# Guest Speakers

Robert Smael, Catering & Operations  
Manager, Royal Court Theatre



Corinna Pyke, Marketing and Partnerships  
Director, Sustainable Wine Solutions





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Q and A

Thank you for attending!

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# Lab grown produce

- Atomo Coffee: world's first molecular coffee
- Coffee made by converting compounds from plant waste into the same compounds contained in green coffee
- 93% lower carbon emissions and 94% less water use, and no deforestation compared to conventional coffee.
- Resilience against climate threats to coffee crops
- Requires culture change (72% of Canadians say they would not buy lab grown coffee)
- Impacts on livelihoods of workers in the traditional industry e.g. Ethiopia