

Press Conference on Biodiversity & Climate:

Livestock causing 60-80% of biodiversity loss
and 80% of food related GHG-emissions



COP27 Press Conference

17h November 2022 9.30h

Speaker: Jeroom Remmers, Director TAPP Coalition
(former forest campaigner at Greenpeace Netherlands)



Special guest speaker: Brent Loken, Global Food Lead Scientist for WWF

Lead author on the EAT-Lancet Commission on Food, Planet, Health

Agenda

	Time
1. What? FAO: livestock main driver for bioversity loss / deforestation	9.30
2. What? Meat/dairy main driver food related GHG-emissions	9.40
3. Solutions Reducing meat/dairy consumption by taxation	9.45
4. Other options: Climate Agreement on Food and Farming – 30% reduction 2030	9.50
4. Questions	9.55
5. End: 19h	



My background: True Animal Protein Price Coalition (TAPP)

Forest campaigner at Greenpeace Netherlands

Ca. 60 Partners TAPP Coalition: **companies**, **farmer** organizations, **health** organizations, **animal welfare**-, **environmental**-, **youth**- and **food** organizations

Partners in USA and EU countries

We represent 0,6 million people; 3000 (EU) companies

Over 5000 companies & NGO's in >100 countries
supported our Carbon Pricing Food Campaign in 2021

**Mission: making healthy, sustainable food the cheapest option;
True pricing meat/dairy, including external environmental costs**

<https://tappcoalition.eu>

<https://futurefoodprice.org>

[Climateagreementfoodfarming.org](https://climateagreementfoodfarming.org)

Why the UN Biodiversity Summit should also focus on meat reduction

Before

and after



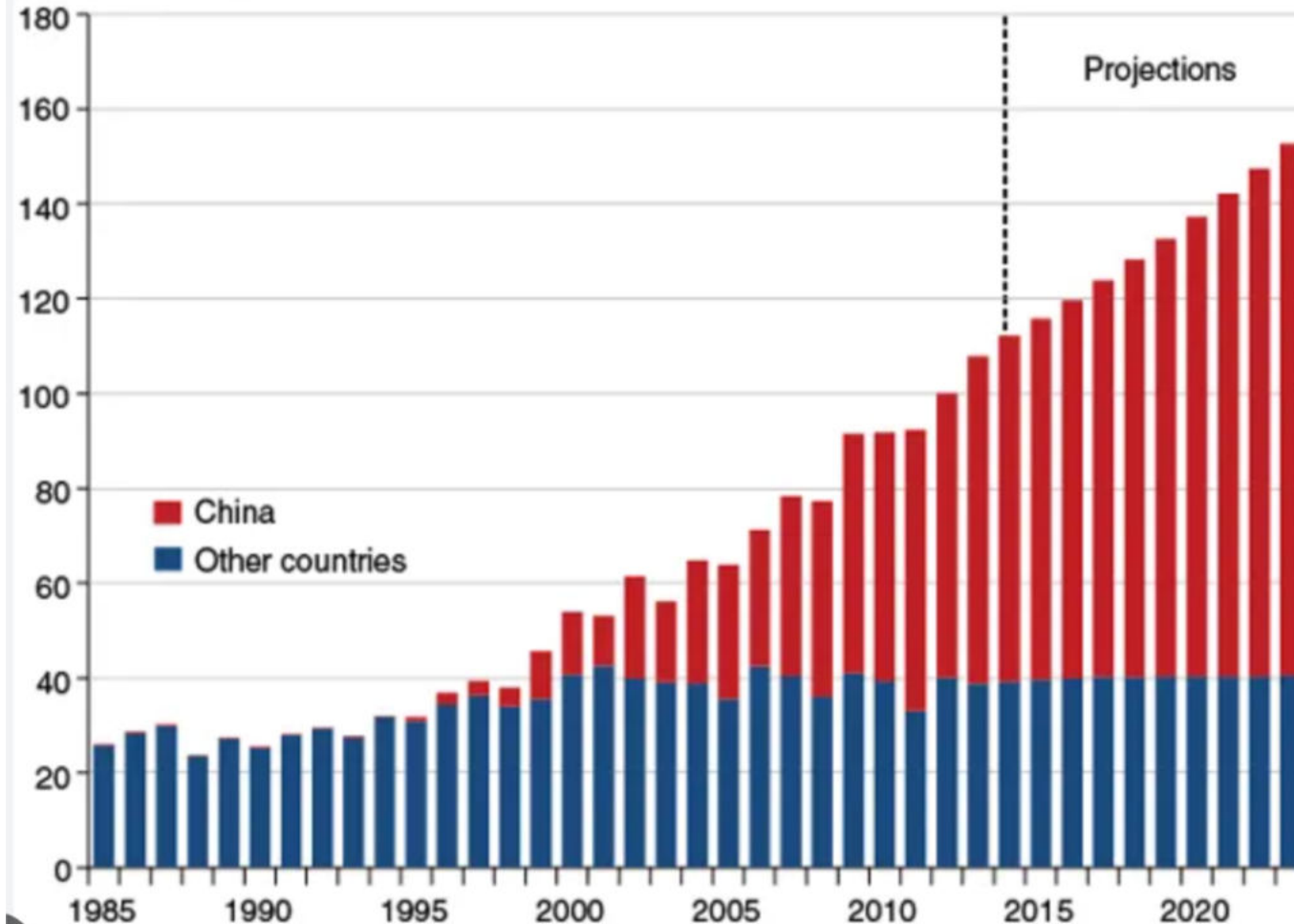
FAO: livestock main driver bioversity loss/deforestation

- Remote sensing (**FAO, 2020**) showed **agricultural expansion is causing 90% of global deforestation**: 52% by cropland (also for animal feed like soy and maize) and almost 40% by livestock grazing at grasslands.
- **FAO, 2020: livestock grazing causes 75% of deforestation in South America.**
- Livestock/animal feed: ca. 80% of global agriculture land
- WWF UK (2017): Meat/dairy causing ca. 60% global biodiversity loss



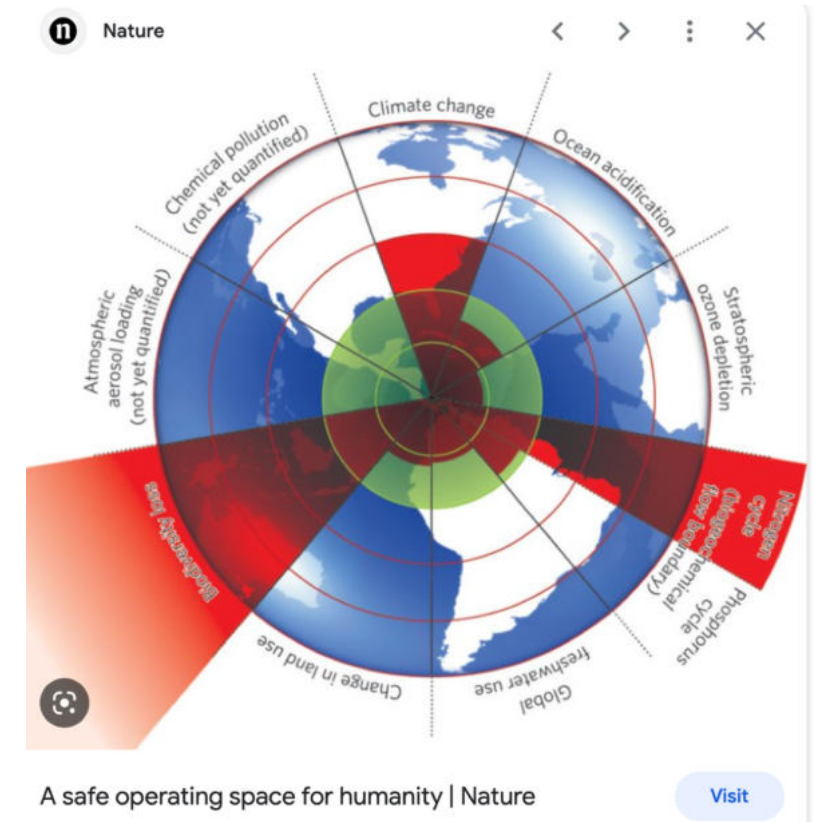
China will continue to be dominant global soybean importer

Million metric tons



Source: USDA Production, Supply and Distribution database and projections.

China largest soy importer South America and largest (new) driver behind deforestation



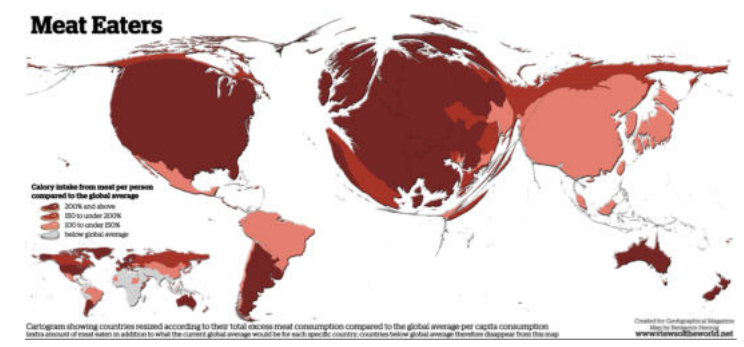
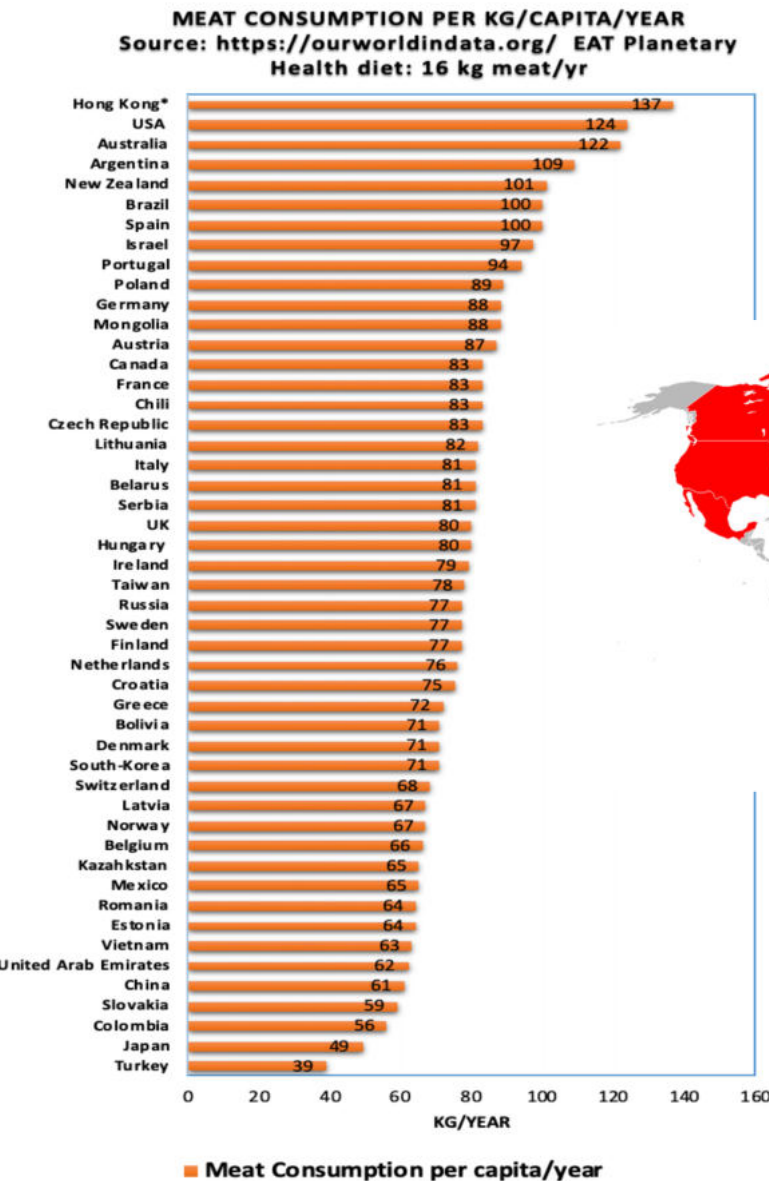
**CBD biodiversity goals will never be realised
without global meat/dairy consumption reduction!**

- **CBD has wrong strategy to protect nature**
- **Main driver behind biodiversity loss will continue:**

high growing global demand for meat/dairy
Nature organisations should start meat tax campaigns urgently



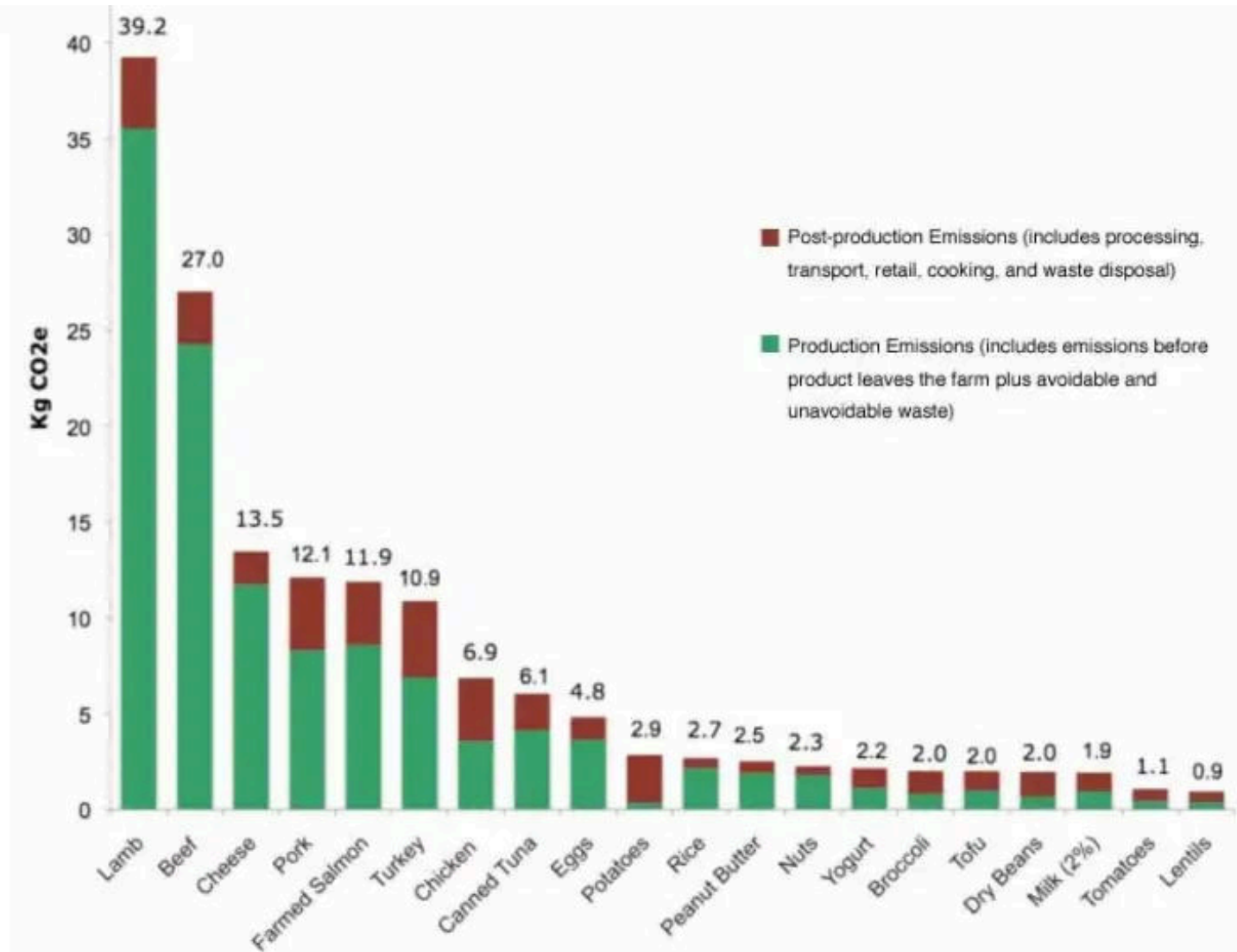
50 meat tax campaign target countries eating most meat



countries resized according to their total excess meat consumption compared to the global average per capita consumption

2011, www.viewsoftheworld.net

Meat : highest CO2 eq emissions/kg food



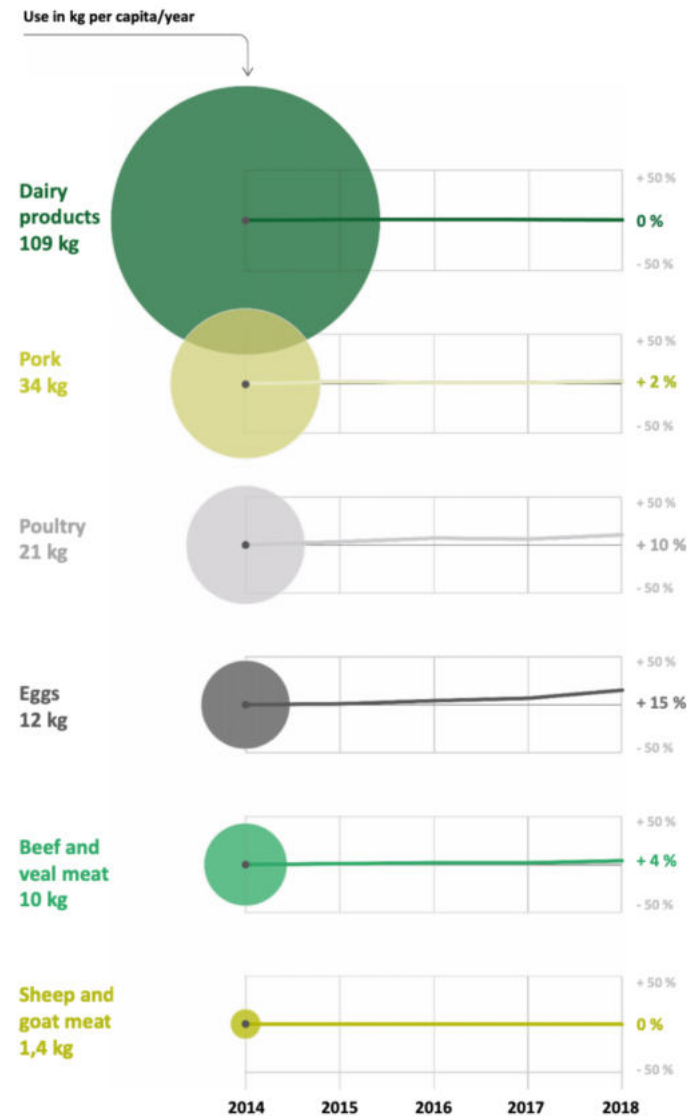
Food related GHG-emissions of meat/dairy

- food systems responsible for 33 percent of all global GHG-emissions (19,6 Gton CO2 eq)
- In the EU, meat and dairy are responsible for 80% of food emissions
- Globally, livestock is responsible for 57% of food emissions (meat/dairy)

Meat accounts for nearly 60% of all greenhouse gases from food production, study finds

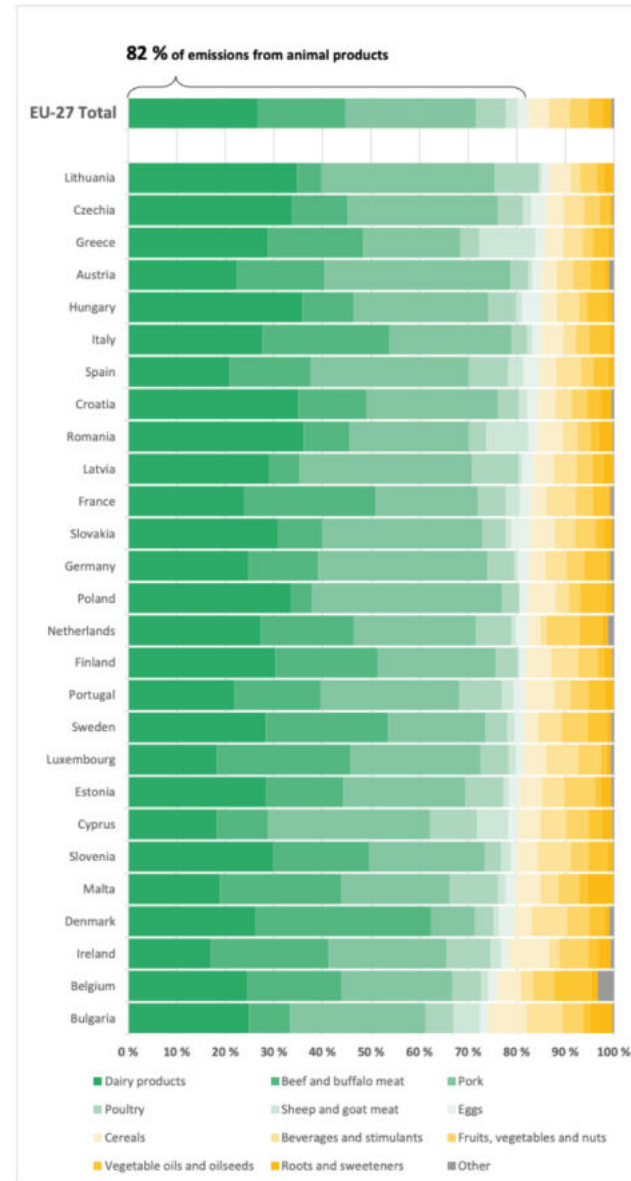


Figure 11 – EU annual consumption per capita of animal products not declining



Source: ECA based on data from the Commission Prospects for Agricultural Markets in the EU 2020-2030, 2020.

Figure 13 – Carbon footprint of foods in EU diet



Source: Sandström, V. et al.: [The role of trade in the greenhouse gas footprints of EU diets](#), 2018, p. 55 (constructed with data received from V. Sandström).

EU Court of Auditors (2021):

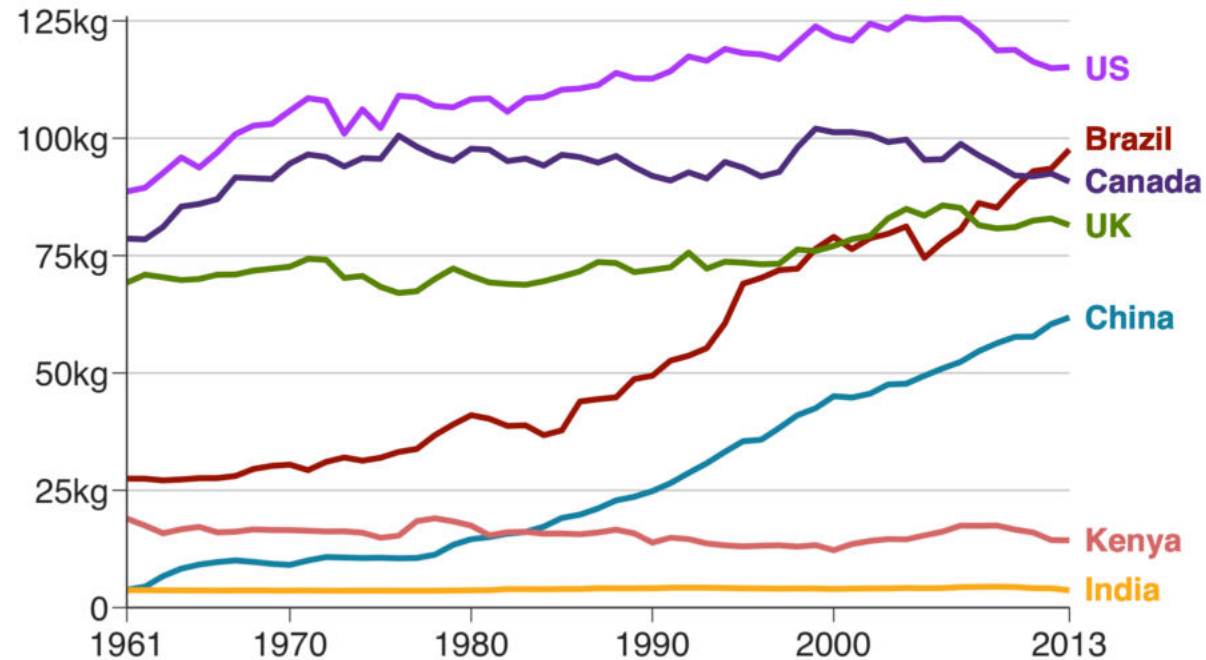
80% carbon footprint of foods in EU diet are from meat and dairy

Meat consumption per capita 2014-2018 still increasing

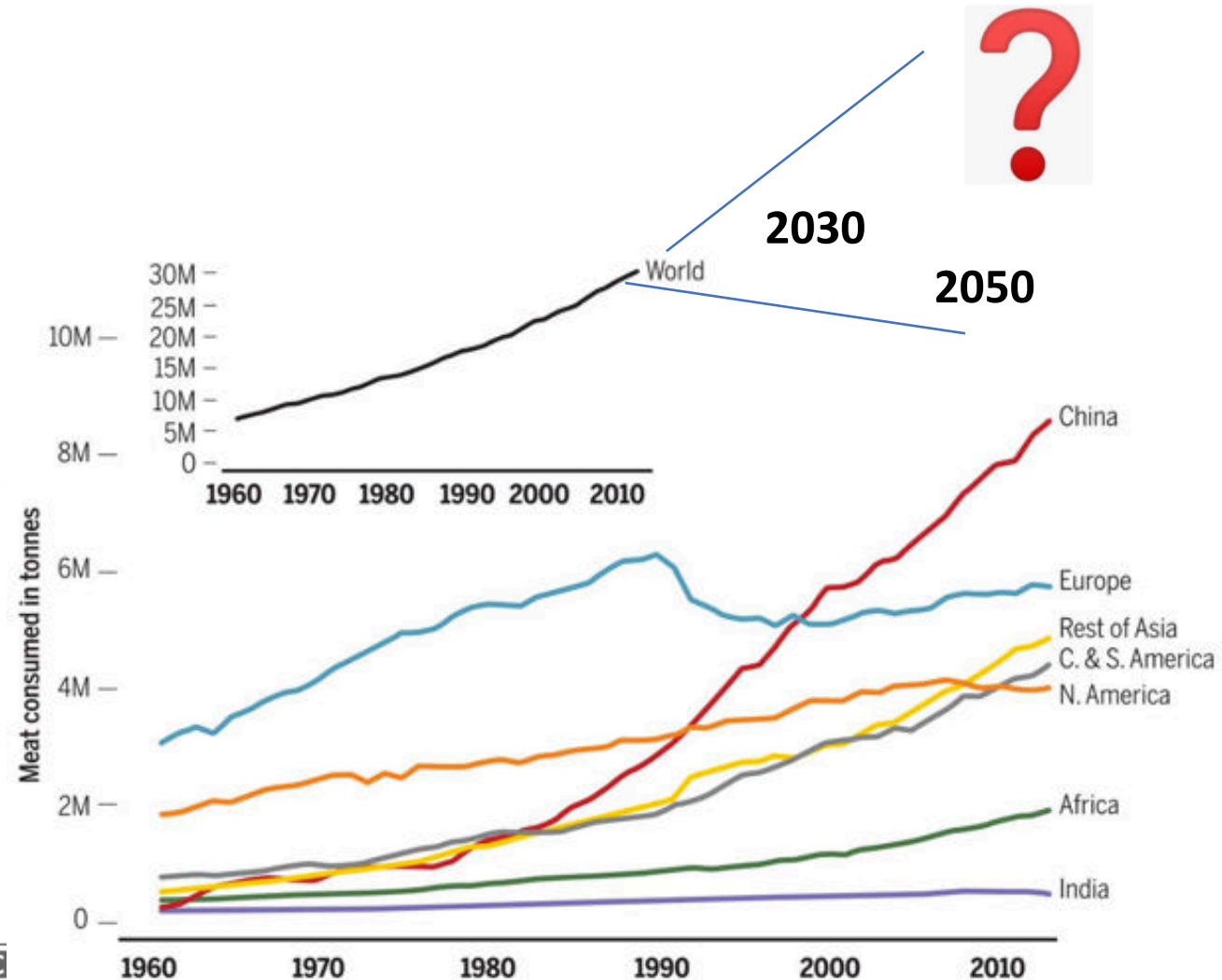
Why? Meat consumption growth 58% in last 20 years

Meat consumption by selected country

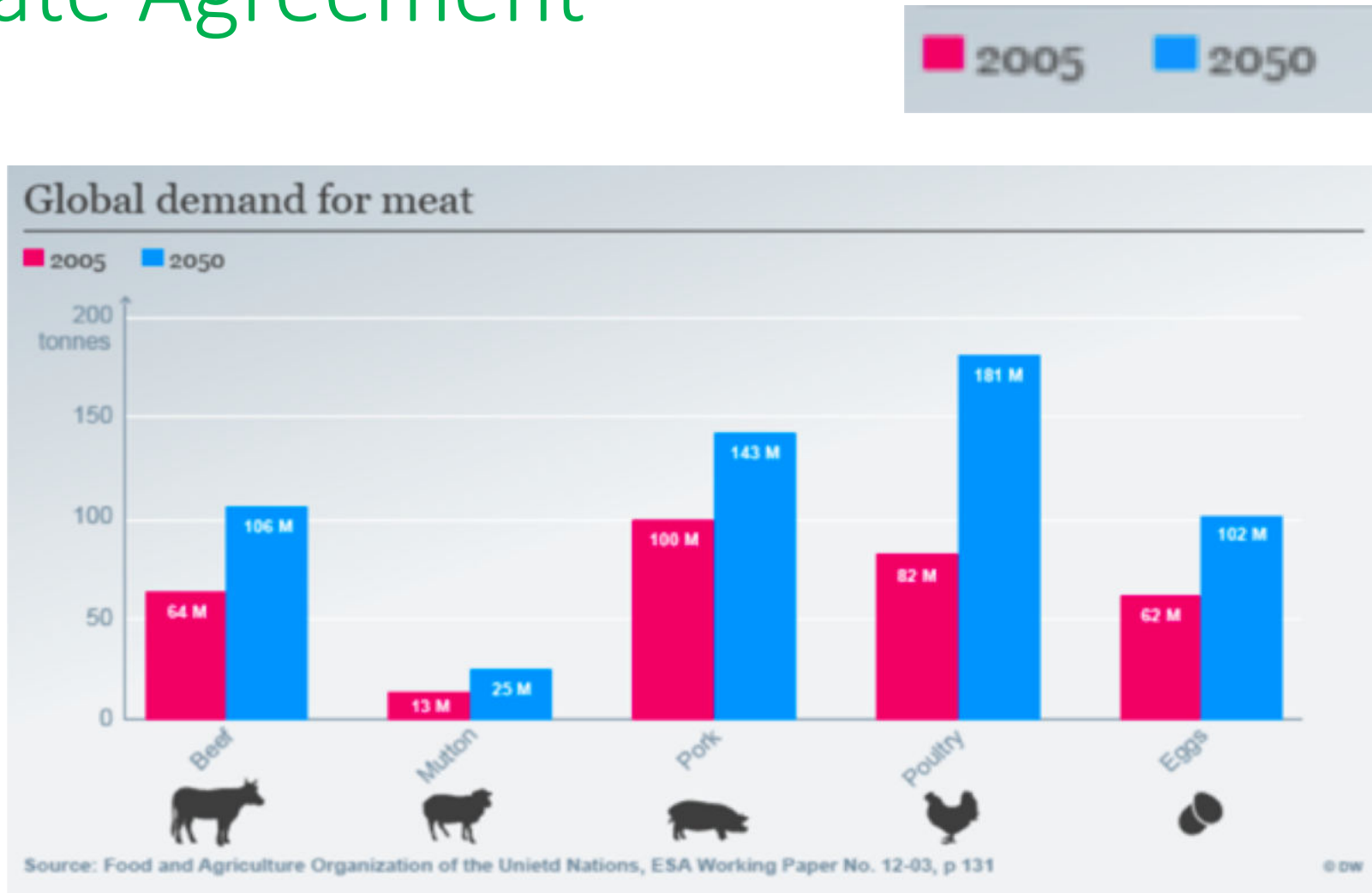
Average annual consumption per person



Source: UN Food and Agriculture Organization / Our World in Data

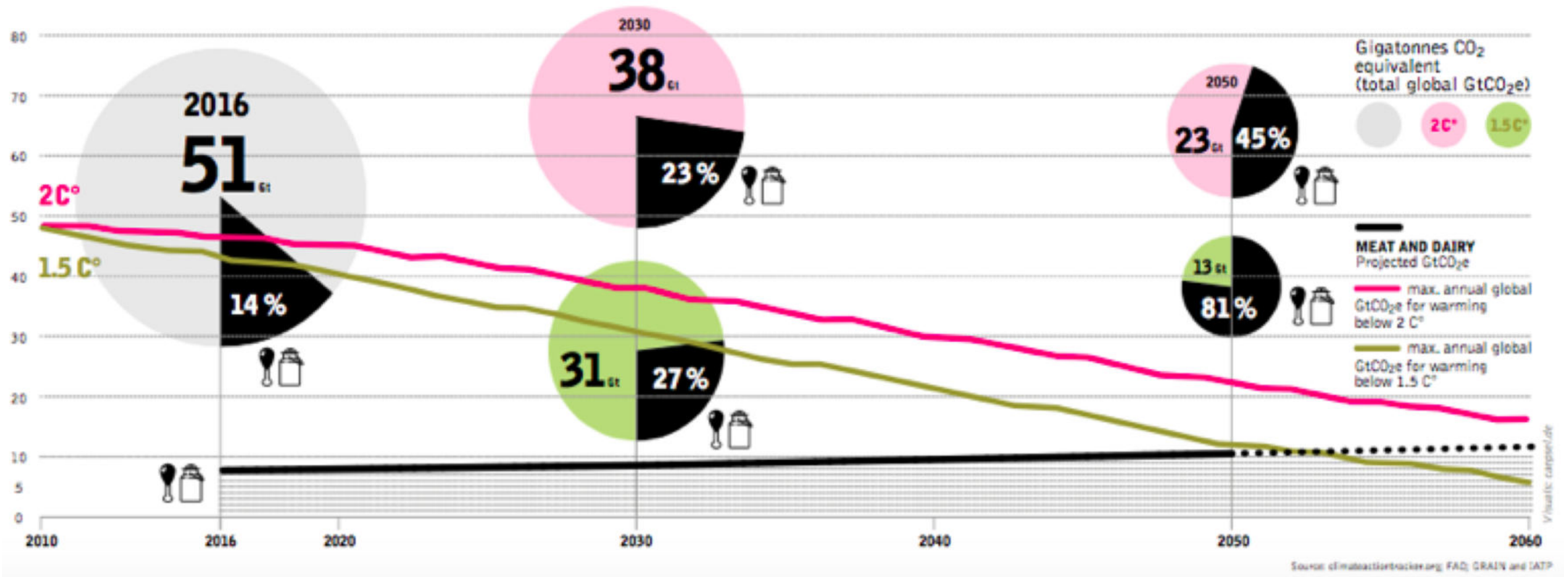


Growing meat consumption conflicts with Paris Climate Agreement



BUSINESS AS USUAL (BAU) GROWTH OF MEAT AND DAIRY PRODUCTION MAKES THE PARIS AGREEMENT IMPOSSIBLE AND CLIMATE CATASTROPHE INEVITABLE

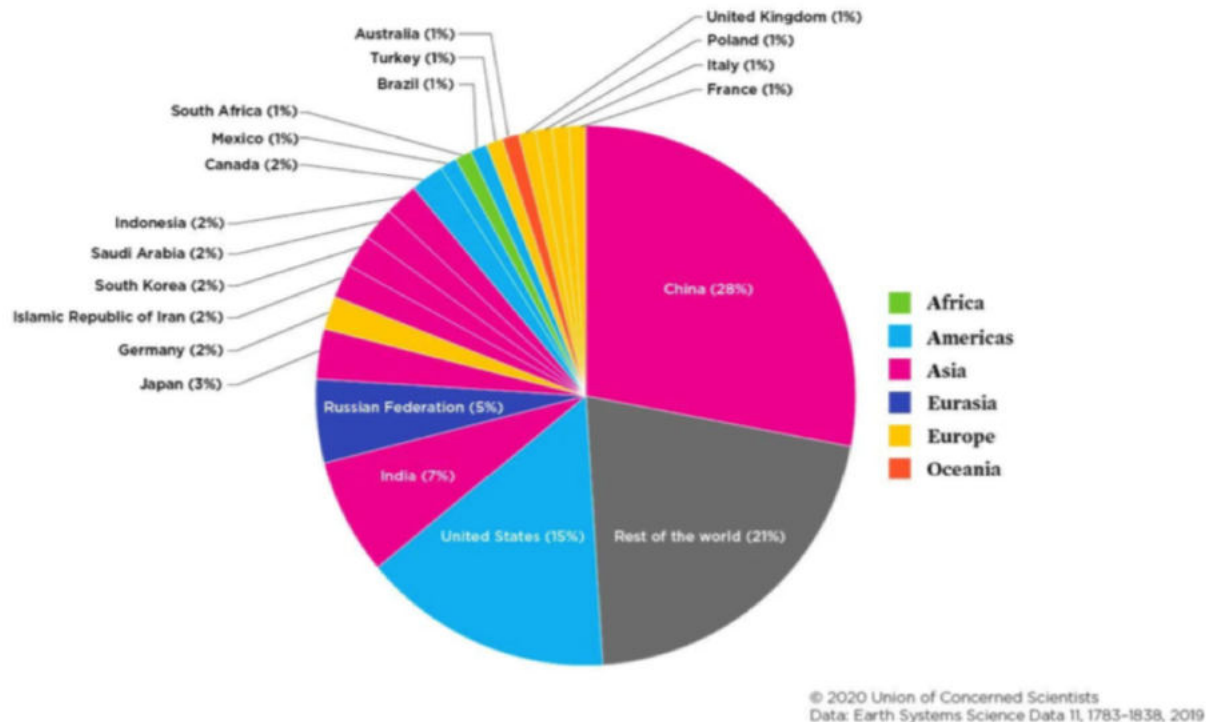
ESTIMATED GHG EMISSIONS SCENARIOS FOR 2 C° AND 1.5 C° COMPARED TO THE BAU GROWTH OF MEAT AND DAIRY EMISSIONS



- Meat and dairy cause 60% of global **biodiversity loss** (WWF UK); deforestation S-America
- **low income farmers** – environmental costs are not (fully) included in price
- **Meat overconsumption in high meat consuming countries lead to negative health impacts**

Meat, dairy, eggs cause 20% of global GHG-emissions, a study finds. This is equal to GHG emissions from USA and Russia combined!

Or: the CO₂-emissions combined from UK, France, Germany, Italy, Poland, Turkey, Australia, South Korea, Mexico, Canada, South Africa, Indonesia, Saudi Arabia and Iran!



Share of countries CO₂ emissions

<https://www.ucsusa.org/resources/each-countrys-share-co2-emissions>

<https://www.theguardian.com/environment/2021/sep/13/meat-greenhouses-gases-food-production-study>

Animal-based food production contributes to the most emissions

Annual global emissions from the top 10 contributing animal- and plant-based foods

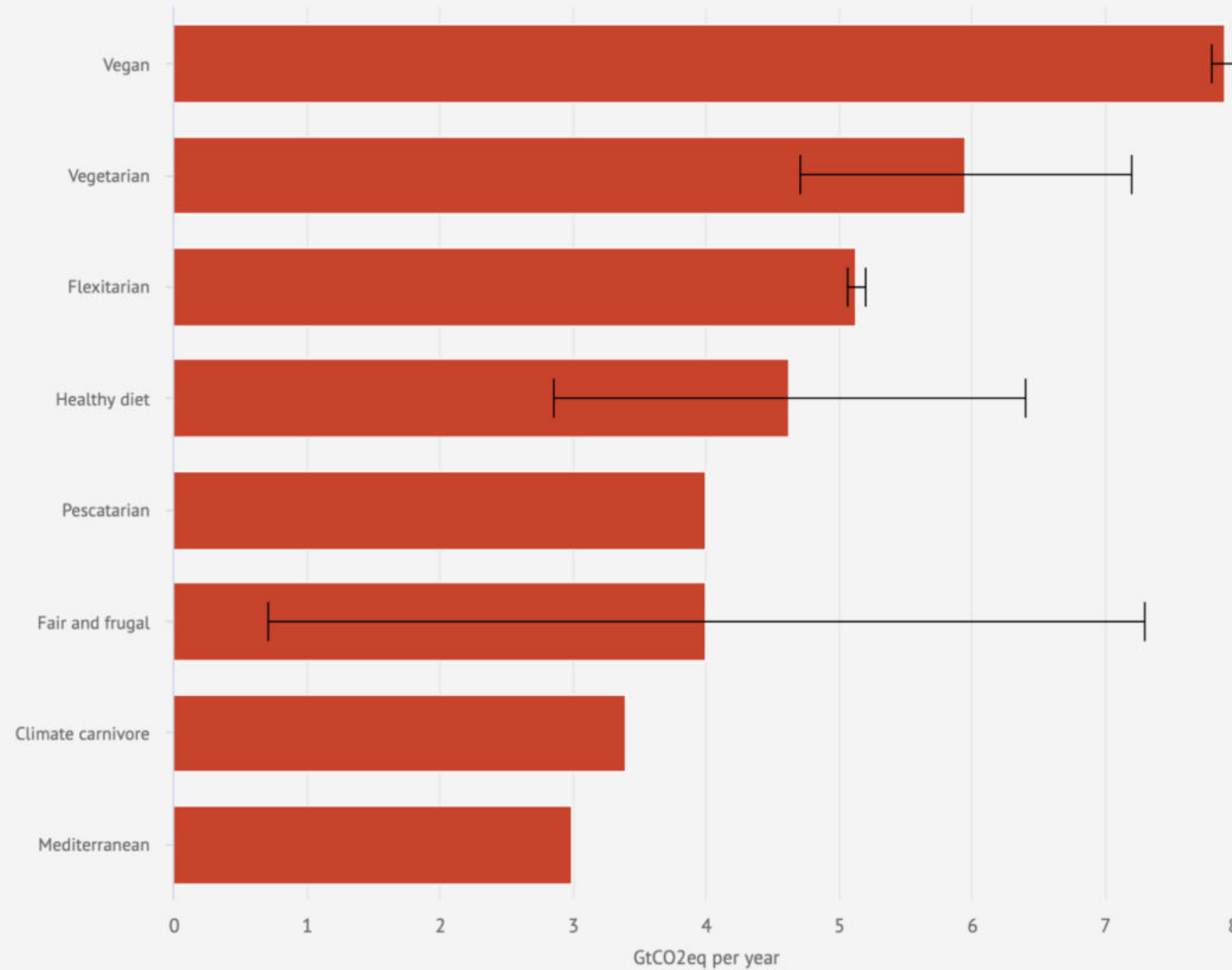


Guardian graphic. Source: Xu, et al., 2021, "Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods"

The food system causes 35% of global GHG-emissions; livestock contributes 57%; this equals 20% of global GHG-emissions

Source: Illinois University, publication in Nature Food, 13 sept 2021 in the Guardian

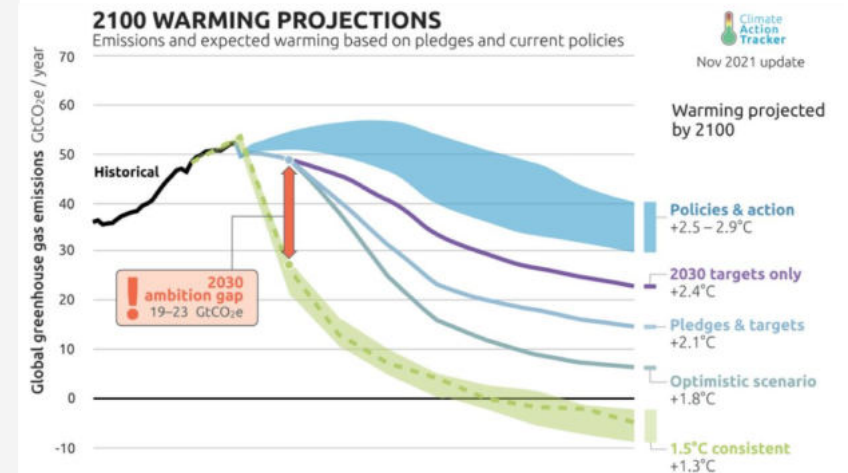
A global switch to veganism would deliver the largest emissions savings



Greenhouse gas savings potential from the global adoption of various diets. Error bars show the spread of results from different studies. Data without error bars are from one study only. Adapted from [IPCC \(2018\)](#). Chart by Carbon Brief using [Highcharts](#).

Eating less meat can reduce global GHG-emissions 3-6 Gton CO₂ eq/year

Emission gap 2030 is 19-23 Gton CO₂ eq



Why we need to reduce consumption

Global GHG-emissions in 2019 were 59 Gton CO₂eq and food systems are responsible for 33 percent (19,6 Gton CO₂ eq), up to 42 percent.

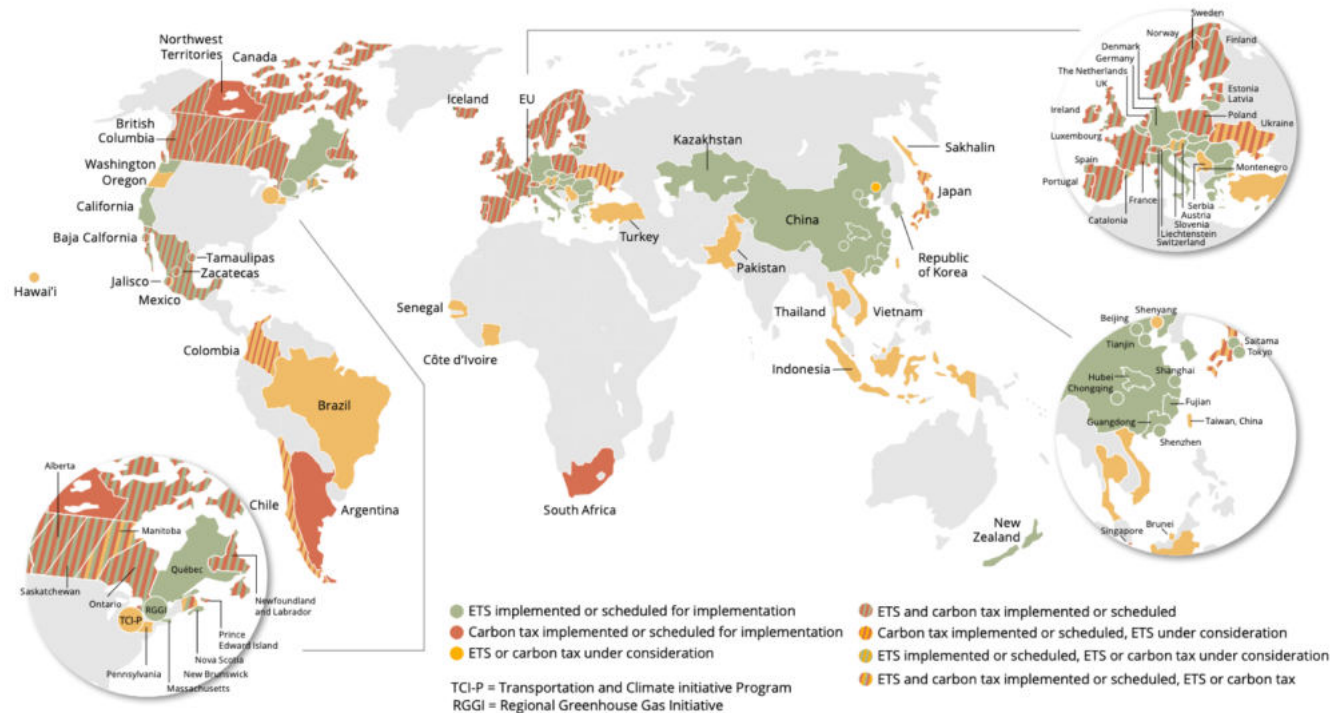
Reducing food system related GHG-emissions by 30% by 2030 compared to 2018-2020 levels means a reduction of 5.9 Gton CO₂ eq.
(Methane Pledge goal is 8 Gton reduction)

If global food system emissions are reduced 30% by 2030, this eliminates 0.2°C warming by 2050.

Policy options at global level

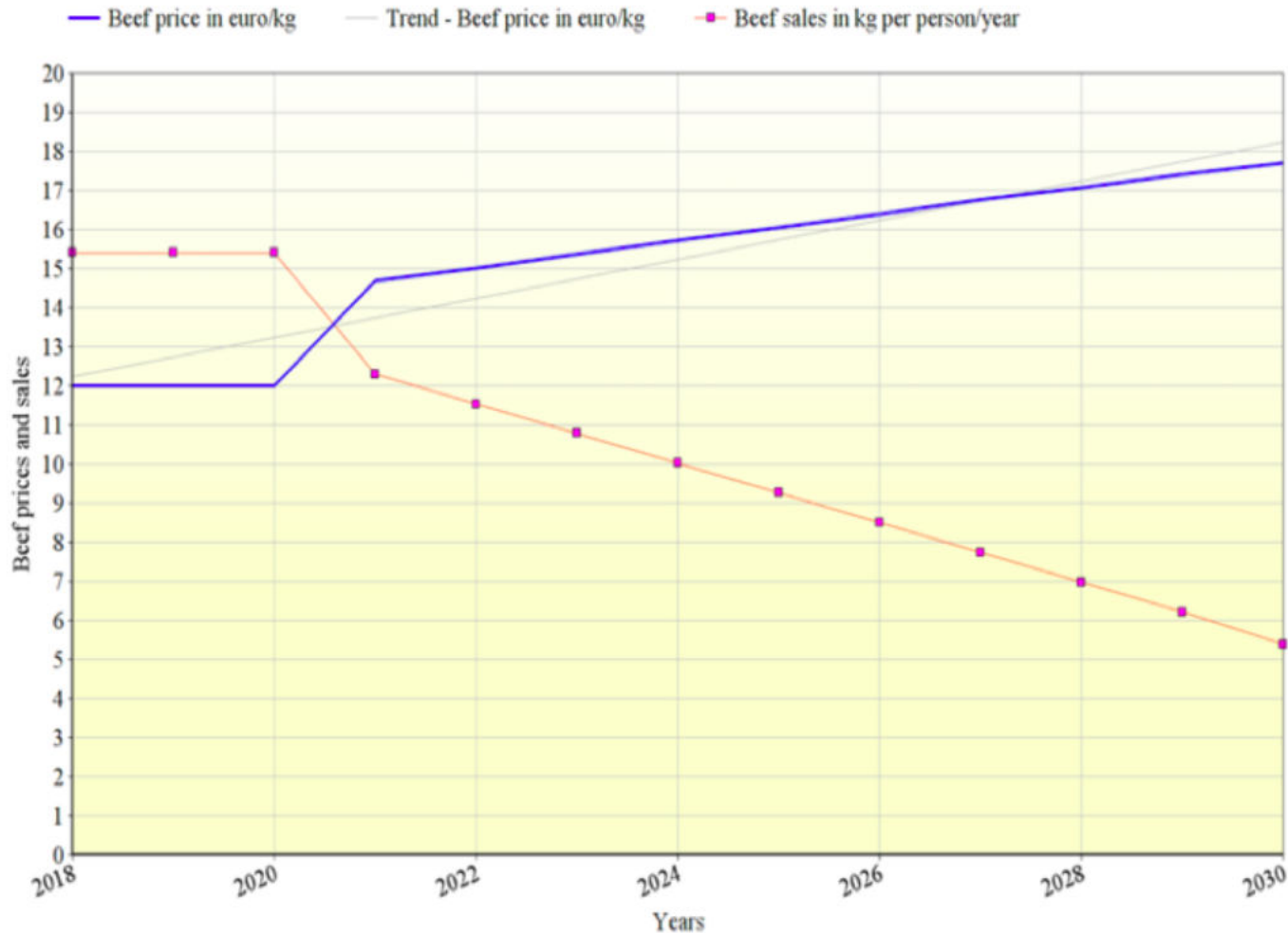
- Carbon pricing on fossil fuels now accepted worldwide
- Carbon pricing / true pricing of food products next step (including external costs)

CARBON PRICING MAP (2021)



Implementation of fair meat price: impact on consumption

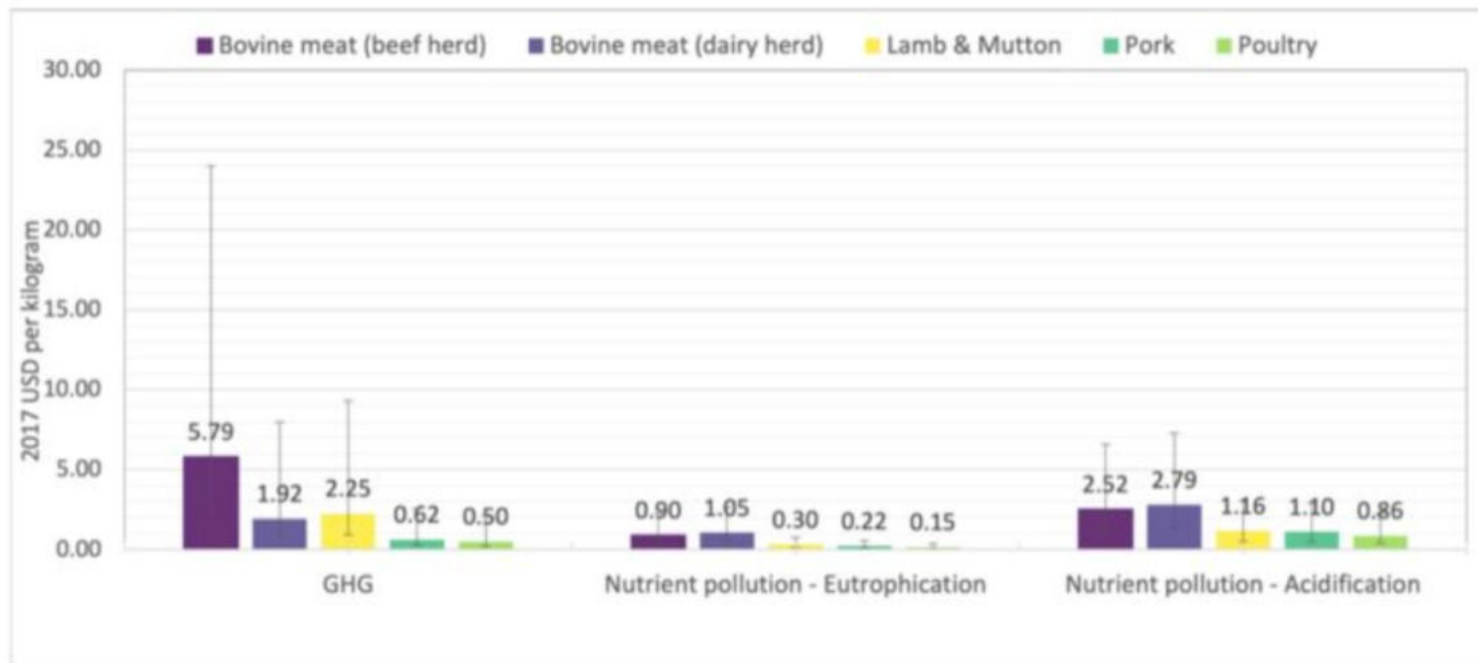
Beef prices and sales Netherlands (2015-2030), effect ecotax on meat starting 2021



Source: CE Delft, The Netherlands

- 50% meat consumption in 2030

In high income countries a CO2 tax on meat needed: 5,79 USD/kg beef, 0,62 USD/kg pork



Source: Oxford University Report 2022 “Is meat too cheap? Towards optimal taxation of meat.”

CO2? Tax food too!

Figure 2: Environment-related social costs from climate change and nitrogen pollution for selected meat types, in sum 5.76-9.21 USD/kg for beef, 3.71 USD/kg for lamb and mutton, 1.94 USD/kg for pork

Meat tax in OECD & China : 147 bln USD/year for climate funding and loss & damage

Closing the climate finance gap by taxing meat 10 cents?

Table: revenues from meat taxes in world regions available for climate finance

Country/region	Annual per capita meat consumption (beef, veal, pork, chicken) 2021	Inhabitants per country/region in million in 2021	Annual revenue from meat tax 1 dollar/euro per kg in billion USD/year or Euro/year	Available for Loss and Damage / climate finance in billion USD or Euro/year
USA	100,8	341	34,3 billion	34,3 billion
China	41,8	1387	57,9 billion	57,9 billion
EU-27	69,3	514	35,6 billion	35,6 billion
Brazil	78,3	207	16,2 billion	16,2 billion
Russia	61,8	141	8,7 billion	8,7 billion
OECD	69	1291	89 billion	89 billion
OECD + China			146,9 billion	146,9 billion
OECD + China + Brazil + Russia			171,8 billion	171,8 billion





**Dear leaders of countries,
regions and (food)companies**

**Will you reduce greenhouse gas emissions from
food systems 30% by 2030?**

Sign the COP27 Climate Agreement on Food and Farming to
endorse or support this pledge now!

Goal of the Agreement



Reducing food and farm related greenhouse gas emissions with at least 30 percent by 2030 (compared to 2020 levels)

Help realise Paris Climate Agreement goals of 1,5 degrees C.



What? Commitments needed under the Climate Agreement Food/Farming (1)

Signatories can choose 3 options: reducing agriculture GHG-emissions 30 percent by 2030, or reducing food related (per capita) GHG-emissions 30 percent by 2030 or reducing both.

- A. Taking **at least two actions on Food and two actions on Farming (agriculture)**, put in place by the end of 2025, that substantially help to realise the 2030 reduction goals
- B. Updating the Climate Agreement on Food and Farming website annually with existing and new Food and Farm policies and National Determined Contributions.

Who can sign?

All countries can sign + States/regions with > 10 million inhabitants + food/retail companies

- We analyzed policies for 9 countries who comply with the Agreement :
- **Germany, Netherlands, China, New Zealand, United Kingdom, Sweden, Denmark, Belgium, Italy) and the European Union**
- <https://climateagreementfoodfarming.org/existing-country-commitments/>
- More countries can comply (to be analysed by themselves)
- **Signatory countries, states, regions, food/retail companies can sign here:**
<https://form.jotform.com/222742859990369>
- Supporters like ngo's, financial institutes, local governments, UN organisations can sign here: <https://form.jotform.com/222964663419364>

Questions?

Please share & support:

<https://climateagreementfoodfarming.org>

Jeroom Remmers

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