

### Why plant-based eating?

Dr Shireen Kassam Founder and Director of Plant-Based Health Professionals UK 21st November 2024

Promoting sustainable health and nutrition

### About me/disclosures



- Haematologist and Certified Lifestyle Medicine Physician
- Founder & director of Plant-Based Health Professionals UK
- Sustainability lead for pathology practice RCPath
- Education on plant-based diets and cancer at University of Winchester
- Author/Vegan since 2013







### Why are we talking about food?



### The case for change



Health policy

### Diet

- Dietary risk
- Over-consur

< Share

Fri 15 Nov 2024 20.24 CET

policy editor

**Denis Campbell** Health

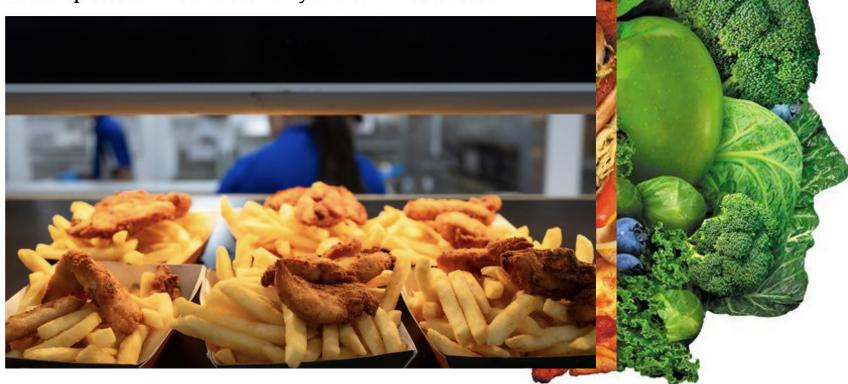
- Vastly under
- UK has fourt red and proc
  - >38,000
  - 36,000 c
  - =32% of

#### https://globalnutritionreport.org

https://globalnutritionreport.org/resources/nutrition-profiles/europe/northern-europe/united-kingdom-great-britain-and-northern-ireland/ https://ukhealthalliance.org/news-item/lancet-countdown-on-health-and-climate-change-2024-uk-policy-brief-identifies-key-health-priorities-for-cop29/

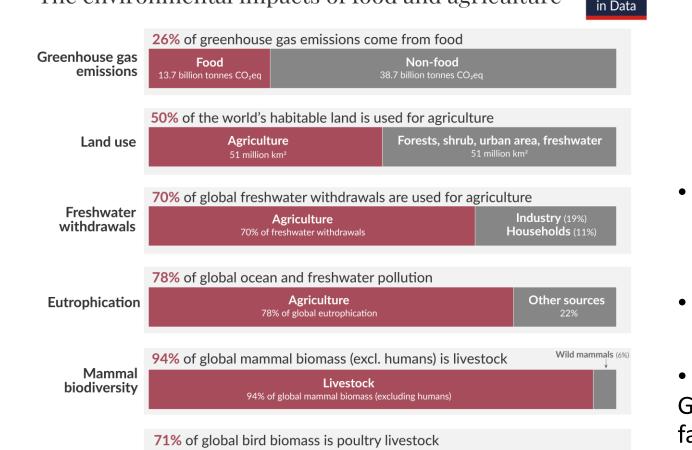
#### UK's unhealthy food habits cost £268bn a year, report finds

Exclusive: Food, Farming and Countryside Commission added up cost to NHS and economy of diet-linked disease





The environmental impacts of food and agricult	ure
--	-----



**Poultry livestock** 

71% of bird biomass

Bird

Data sources: Poore & Nemecek (2018); UN FAO; UN AQUASTAT; Bar-On et al. (2018).

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

biodiversity

#### Impact of our food system on planetary health

- >30% of all GHG emissions
  - Animal agriculture >50% of these emissions
- Animal ag is the leading cause of biodiversity loss
- In the UK, the food system accounts for a 1/5 of GHG emissions but that rises to around 30% if we factor in emissions from all the food we import
- Red meat and dairy production >70% of farming emissions

https://s41874.pcdn.co/wp-content/uploads/UK-Lancet-Countdown-policy-brief-2023-v1-1.pdf https://www.nationalfoodstrategy.org

Wild birds

29% of bird biomass

Licensed under CC-BY by the author Hannah Ritchie

Our World

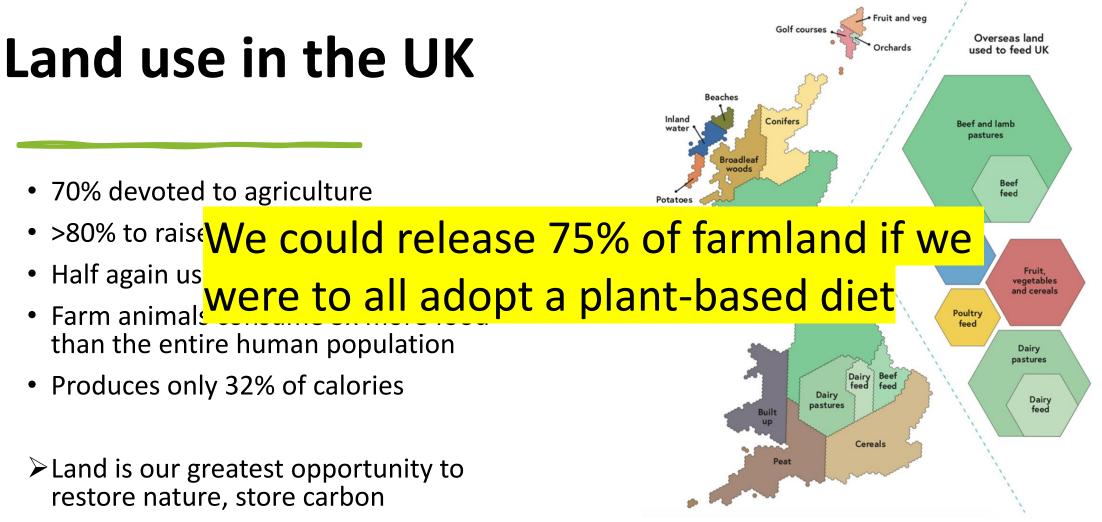
Global food system emissions could preclude achieving the 1.5° and 2°C climate change targets

'Even if fossil fuel emissions were eliminated immediately, emissions from the global food system alone would make it impossible to limit warming to 1.5°C and difficult even to realise the 2°C target'.

Global food system emissions could preclude achieving the 1.5° and 2°C climate change targets. Science. 2020 Nov 6;370(6517):705-708. doi: 10.1126/science.aba7357.







UK land area divided up by purpose. About 70% is devoted to agriculture, mainly livestock and livestock feed and pasture. The right-hand side of the chart, using the same scale, shows how much land is used overseas to produce food for the UK. About half of the total land use takes place overseas. The combined land area for rearing beef and lamb for UK consumption is larger than the UK itself. Source: The National Food Strategy, Part II.



### Methane

- 60% from human activities
- Short lived gas, but 28 x warming potential of carbon
- 32% from farming animals
  - Manure and enteric fermentation
- Methane emission alone will prevent us from limiting global warming
- Urgent action needed



https://www.unep.org/news-and-stories/story/methane-emissions-are-driving-climate-change-heres-how-reduce-them https://www.greenpeace.org/aotearoa/publication/report-turning-down-the-heat/



### Meeting our climate and nature targets



Measured as CO<sub>2</sub>e per person per day

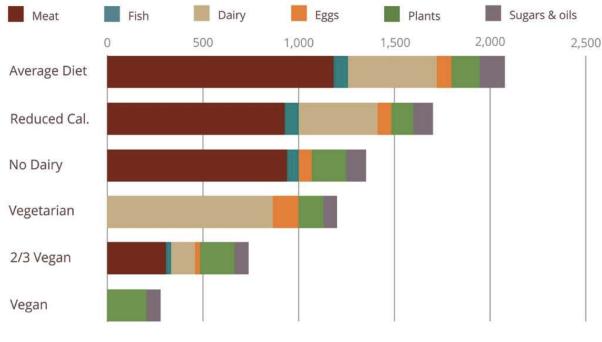
https://www.wwf.org.uk/eating-for-net-zero

### What we eat really matters



#### **GHG** emissions of various diets

kg of CO<sub>2</sub> equivalents per year



#### Which milk is best for the planet?



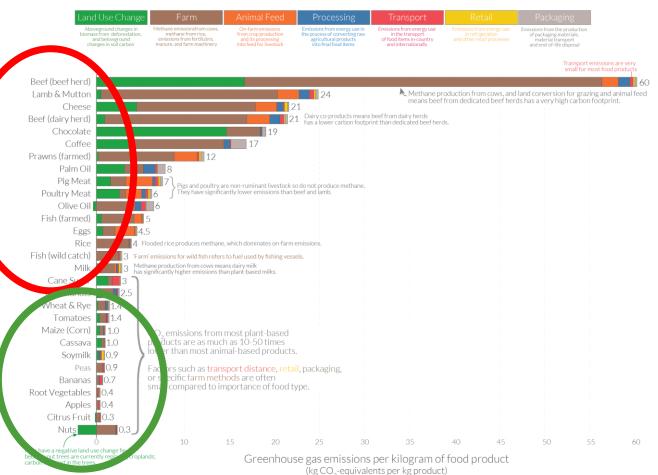
Kim et al (2019) Country-specific dietary shifts to mitigate climate and water crises. Global Environmental Change

https://awellfedworld.org/wp-content/uploads/Climate-Food-Guide-2024-single-pages.pdf

### Local is not the answer

- <10% of emissions are from transportation
  - For beef, it is 1%
- 80% from land use change and farm stage emissions
- Most plant-based foods are shipped
- The UK only grows 17% of fruit and 55% of vegetables
  - We don't have sufficient supply for 5 a day





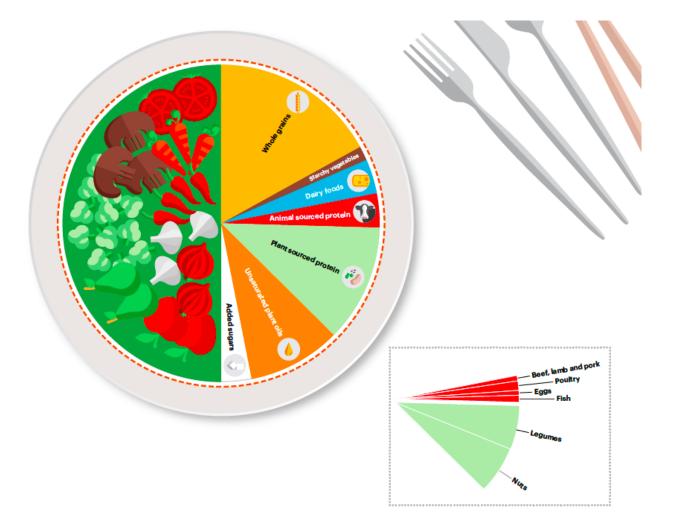
Our World in Data

Note: Greenhouse gas emissions are given as global average values based on data a cross 38,700 commercially viable farms in 119 countries. Data source: Poore and Nemecek (2018). Reducing food's environmental impacts through producers and consumers. Science. Images sourced from the Noun Project. DurWorldinData.org – Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Hannah Ritchie

https://ourworldindata.org/food-choice-vs-eating-local https://www.bbc.co.uk/news/science-environment-69009207

## What is a healthy and sustainable diet? >85% plant-based



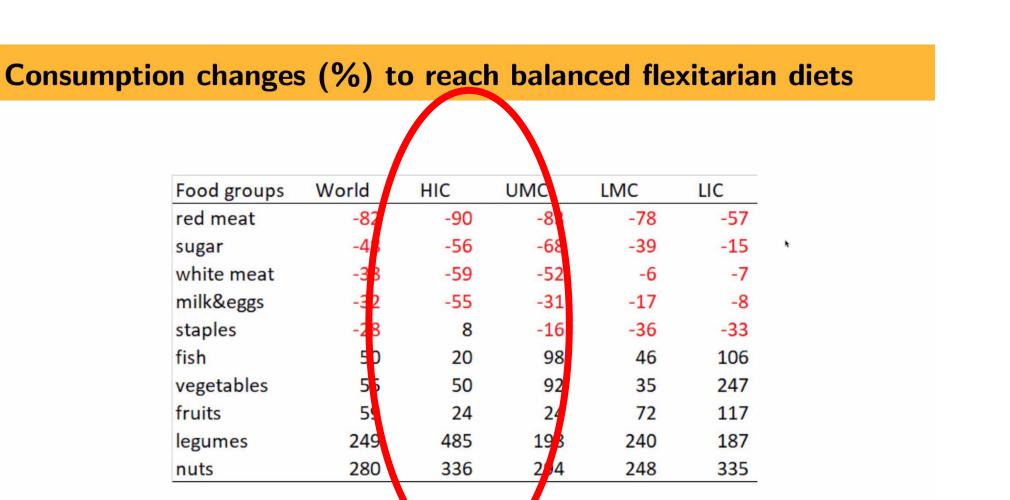


Per week
▶ 1 portion of red meat (98g)
▶ 2 portions poultry (200g))
▶ 2 portions of fish (196g)
▶ 3 eggs

Estimated to save 11 million premature deaths per year

Food in the Anthropocene: the EAT-Lancet Commission on healthy diets from sustainable food systems. Lancet. 2019 Feb 2;393(10170):447-492. doi: 10.1016/S0140-6736(18)31788-4

### Achieving the Eat Lancet recommendations



**PLANT-BASED** 

Health Professionals UK

Food in the Anthropocene: the EAT-Lancet Commission on healthy diets from sustainable food systems. Lancet. 2019 Feb 2;393(10170):447-492. doi: 10.1016/S0140-6736(18)31788-4

# Plant-based diets as a solution



### **Benefits of a plant-based diet**

- Low in energy yet high in nutrients
  - Supports a healthy body weight
- Low in saturated fat
  - improves blood lipids
- High in fibre
  - Helps satiety
  - improves gut health
  - improves insulin sensitivity
- High in phytonutrients
  - Lowers inflammation
- Low in sugar
- Can support health across all ages and stages of life



### Health impacts of adopting a plant-based diet

Disease	<b>Risk reduction</b>
Coronary heart disease <sup>1</sup>	25%↓
Type 2 diabetes <sup>2</sup>	34%↓
Cancer risk <sup>3</sup>	15%↓
Stroke <sup>4</sup>	10%↓
Renal failure <sup>5</sup>	14%↓
Fatty liver <sup>6</sup>	24%↓
Parkinson's Disease <sup>7</sup>	22%↓
Sleep apnoea <sup>8</sup>	17%↓
COVID-19 incidence/severity <sup>9</sup>	10%↓/40↓%
All-cause mortality <sup>10,11</sup>	10-16%↓



### **Cost savings**

- Improved health
- Less diabetes and CVD
- Environmental benefits
- Lower household costs

 Implementing meat-free defaults in public catering could save the NHS £74M a year



The global and regional costs of healthy and sustainable dietary patterns: a modelling study, The Lancet Planetary Health, Volume 5, Issue 11, 2021

https://www.conservativeanimalwelfarefoundation.org/plant-based-diet/the-2-2-billion-windfall-for-the-nhs-new-research-reveals-how-the-uk-could-unlock-savings/ https://www.ohe.org/insight/could-plant-based-diets-transform-health-care-spending/

### What's happening in the NHS now



### NHS weight loss app



### Lunch

Sat, 29 Jun 2024

#### Name

- -

100 characters

e.g. Sandwich



### Dinner

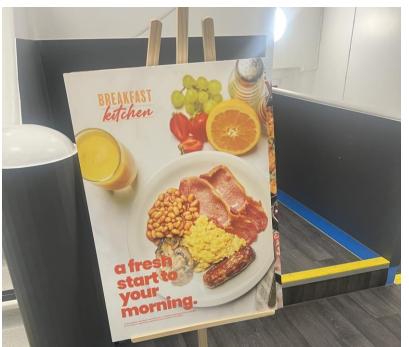
Sat, 29 Jun 2024

#### Name

100 characters

e.g. Salmon

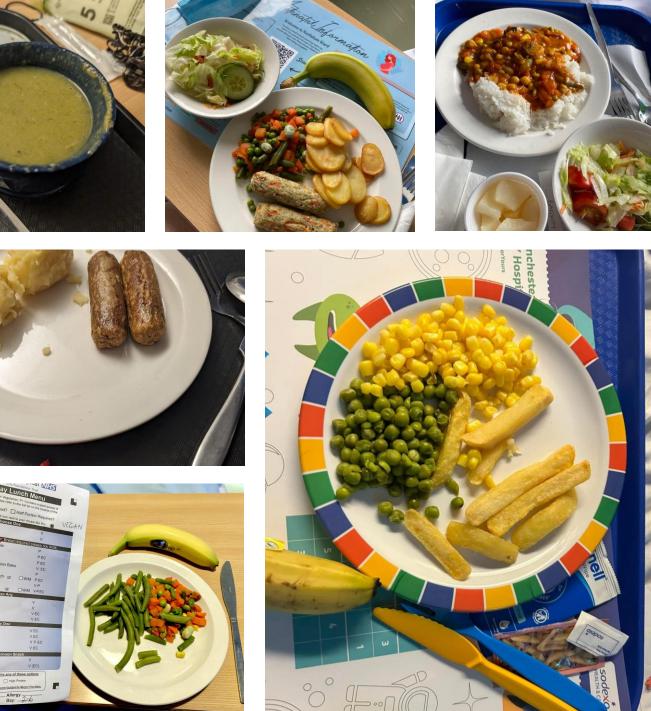


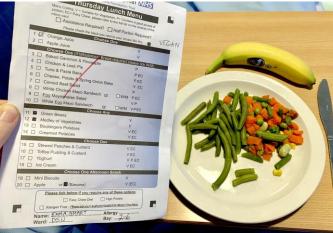




### **Food in hospitals**

### **Current reality**





### **NHS Trust Green Plan Assessment**



Health Professionals UK

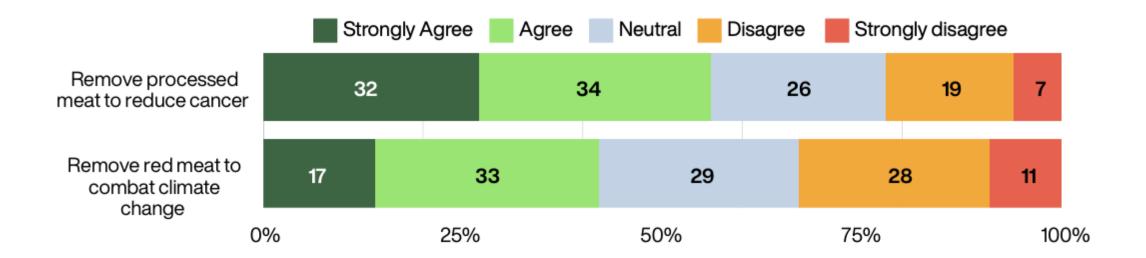
**Sample:** We assessed Green Plans from 40 NHS Trusts, covering 40 of the 42 Integrated Care Systems across all regions of England.

<b>50%</b> Include a section focused on food and catering.	<b>48%</b> Aim to increase the availability of plant-based options.
<b>20%</b>	<b>5%</b>
Propose reducing meat consumption through menu	Aim to promote and encourage staff, visitors,
changes or initiatives like Meat-Free Mondays.	and patients to choose plant-based options.
<b>15%</b>	83%
Outline methods to track the increase in plant-based food offerings.	Refer to local produce

Work conducted by Isabelle Sadler, research assistant

### What our patients tell up: Survey of 118 people

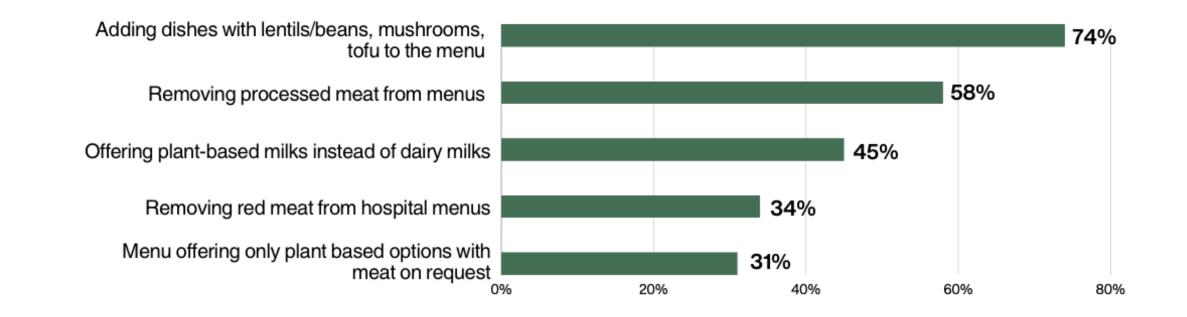
 Patients at King's College Hospital would be supportive of removing red and process meat from menus



Truman M, Smith L-J, Kassam S. Attitudes of hospital patients regarding removal of processed and unprocessed red meats from menus to support sustainable healthcare targets: A single-centre survey. *Lifestyle Medicine*. 2023; 4:e87. <u>https://doi.org/10.1002/lim2.87</u>

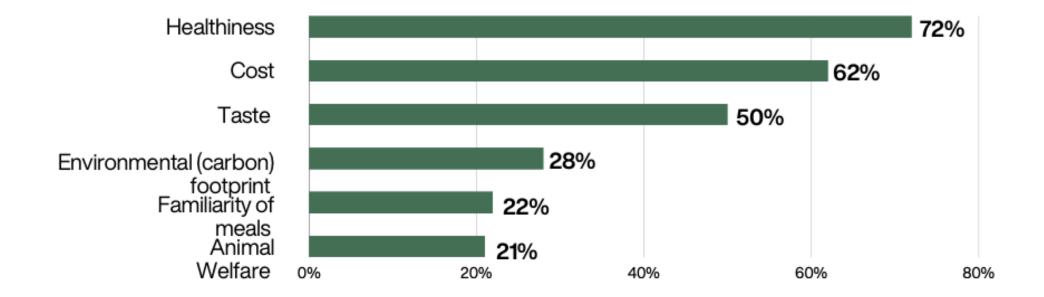
### What our staff tell us: Survey of 109 people

#### What changes would staff support on hospital menus?



### What our staff tell us: Survey of 109 people

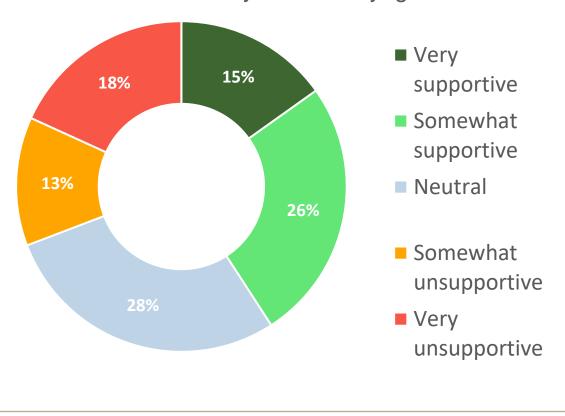
What is the most important factor in deciding what you eat in hospital?



# Attitudes towards change in NHS hospital menus

- Only 11% of participants consider hospital meals to be healthy.
- However, 94% believe it's important for hospitals to promote healthy lifestyles and 64% believe that hospitals should prioritise offering healthy meals.
- 35% support the switch to an entirely plant-based menu in NHS hospitals.

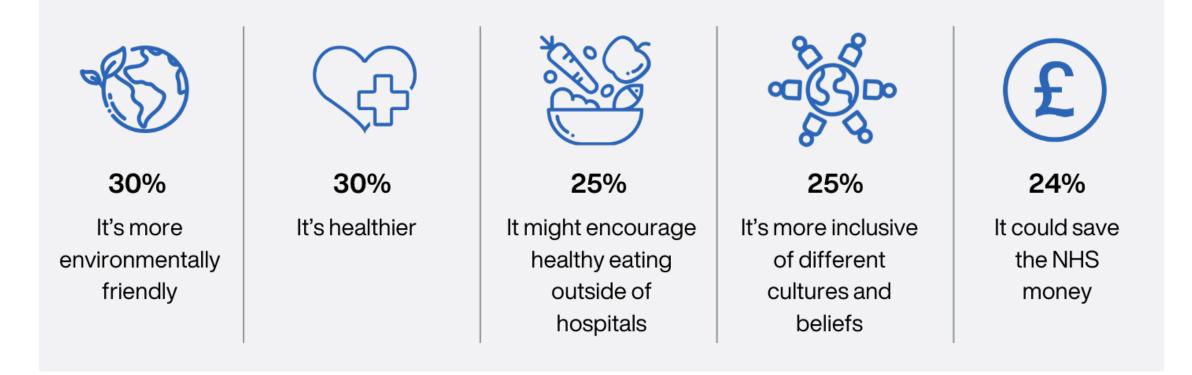
How supportive or unsupportive would you be of plant-based milks and yoghurts being served in hospitals instead of dairy milks and yoghurts?



Source: OnePoll consumer survey of 2000 UK adults, 2024

## Attitudes towards change in NHS hospital menus

What benefits do the public perceive for meat-free meals?



Source: OnePoll consumer survey of 2000 UK adults, 2024

# Our proposal for action

Normalise plant-based meals in healthcare by making it the default option



### **Further resources**





### Plants First Healthcare

We are calling on NHS trusts, Integrated Care Boards (ICBs) and all other healthcare organisations across the United Kingdom to adopt a 'Plant-Based by Default' food menu.

Sign the letter

