

**Cranfield** 

University

# Supply Chains Insights

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5 Key Takeaways

- The food and drink sector is the largest manufacturing sector in the UK and makes significant contributions to economy and employment.
- The agri-food sector contributed £146,7 billion (6,5% of the national Gross Value Added) in 2022 and 4.2 million people employed in the agri-food sector same year.

- UK's overall balance of trade and domestic production remains broadly stable, with the country sourcing food from domestic production and trade at around a 60:40 ratio.
- UK continues to be highly dependent on imports to meet consumer demand for certain food groups, particularly fruit, vegetables, and seafood, particularly from the European Union, which accounted for 64% of the volume of UK food, feed and drink imports.

- UK's food supply chain will continue to face potential disruptions due to climate change and geopolitical factors.
- The British Retail Consortium forecasts food price inflation of 4.2% on average in the latter half of 2025.
- This projected increase, while lower than the peak inflation rates seen during the cost of living crisis, will likely have significant impacts on consumer behaviour and food accessibility, particularly for lower-income households.

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## Review

Technological innovations ..... Food safety and food waste Pricing ..... Policies Production Handling & Processing and Consumption Distribution, packing wholesale, retail Storage • Cold chain storage New product Product reformulation Transport and Consumer education Development Food fortification distribution • Public health Biofortification Nutrition labelling education infrastructure Functional foods Portion packing • Integration of product Alternative Proteins market • Diversification of crop • Digitalization and epatterns commerce • Technology use in • Retail promotions • Public health farming methods procurement

## Key food categories

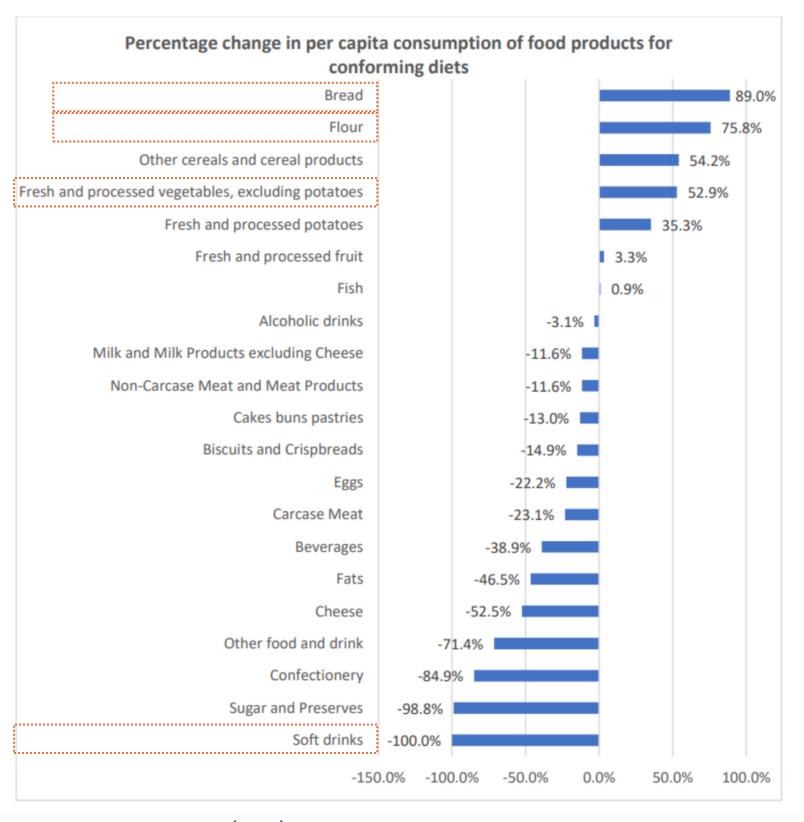


Vegetables



Bread and flour





Source: Srinivasan et. al. (2024) Estimating Food Consumption Changes for Transition to Healthy Diets in the UK

## Interviews with FSC members









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- Semi-structured interviews with representatives from companies in farming, manufacturing, logistics, and food service sectors. Both convenience and snowball sampling were employed to recruit participants.
- The interview questions were pre-tested with two academicians and one farm owner to ensure clarity, comprehensibility, and accurate representation of the research concept.
- Data was collected in-person and through online meeting platforms over three months in 2024.
- 15 participants in farming, manufacturing, logistics, and food service sectors. Interviews between 45-60 minutes.

# Findings •

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organisation vegetables probably able drinks ingredients sharing coming sustainably around government something carbon buying taking good chain maybe way sort part brand sure taking good supply differently put point big might back stuff now got products get business little definition times demand example years impact quite particularly price costs sugar markets questions customers regulations available challenge eating technology interestingly
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# challenges •

## Supply Chain Dynamics



- Availability and seasonality
- Quality and consistency
- Logistics and distribution
- Collaboration and information sharing

## Cost and Price Challenges



- Price perception and affordability
- Low profit margins in produce
- Power imbalances in SC

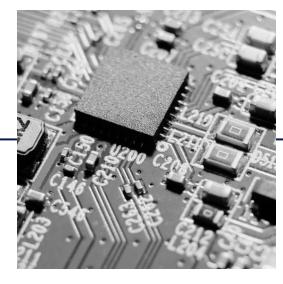
## Cultural and Behavioural Barriers



- Convenience culture
- Taste preferences
- Lack of cooking skills
- Consumer education

# Endblers

#### Technological Advancements



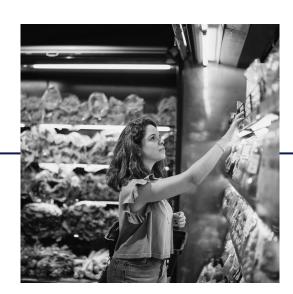
- SC optimization technologies
- Automation and Al

#### Industry Trends



- Sustainability and waste reduction
- Product innovations
- Plant-based, vegetarian and vegan options
- Product reformulations

### Changing Consumer Preferences



- Increased Health consciousness
- Interest in provenance and sustainability
- Demand for plantbased options

### Policy interventions



- Sugar Tax
- Import regulations
- Location restrictions of HFSS products

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# Conclusion



Each stage of the supply chain has a role to play in promoting healthy and sustainable diets.

Role of collaboration and information across the supply chain: the reluctance to share data and work as "one business" with shared

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Alignment and coherence of policies are key parts of the implementation process of HSD interventions, involving stakeholders from different sectors.

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# Key messages & Future Research

- The transition towards healthy and sustainable diets in the UK requires a comprehensive transformation of the food supply system, and this includes all stages from production to consumption.
- A meaningful shift toward healthy and sustainable diets would require supply to change in tandem with demand, increasing access and affordability of better foods to prompt consumer demand at the same time as responding to that demand.
- Collaboration and information across the supply chain is critical. The reluctance to share data and work as "one business" with shared goals remains to be a barrier. Overcoming this challenge will require building trust, establishing clear governance frameworks and demonstrating mutual benefits of increased transparency.
- The challenge of balancing affordability with profitability throughout the supply chain is a recurring theme.
   Significant disparity in profit margins between fresh produce and ultra-processed foods puts healthier options at a disadvantage in terms of marketing and promotion.

# Thank you

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