



## Strategy in Defra



#### Purpose

To secure a healthy environment in which we and future generations can prosper

#### RFC – Key DSOs



### partmental Strategic Objectives (DSOs)

- A thriving farming and food sector
- A secure, sustainable, healthy food supply
- Healthy, resilient, productive and diverse natural environment
- Sustainable low carbon and resource efficient patterns consumption and production
- Economy and society resilient to environmental risk
- Society adapting to the effects of climate change

### od Security



Access for all, at all times, to sufficient, saf and nutritious food, adequate for an active festyle at affordable prices, and produced sustainably'

### od security



- Slobal availability
- Blobal resource sustainability
- JK availability and access
- JK food chain resilience
- Food security at household level; and
- Safety and confidence in our food supply

#### od policy - External influences



se in commodity prices (oil, cereals)

besity

lobal population growth - demand for food

ood production and productivity

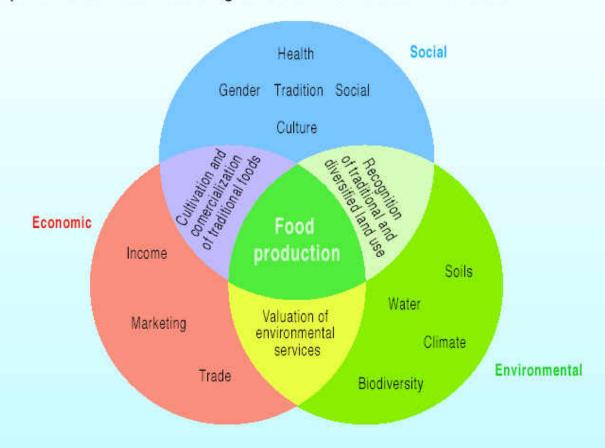
and use — bio fuels

ood and fuel security

# e Multifunctionality of riculture



The inescapable interconnectedness of agriculture's different roles and functions



## Greenhouse gas emissions





7% of UK greenhouse gases (2004)

66% of UK total N<sub>2</sub>O

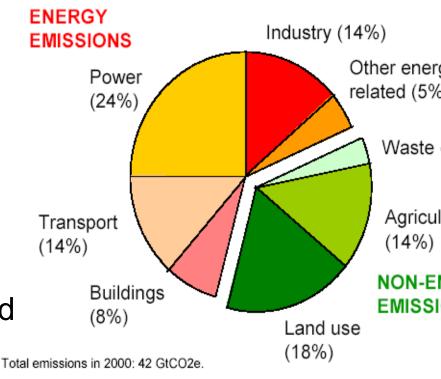
emissions

36% of Methane (second

largest emitter behind

waste sector).

Only 1% of CO<sub>2</sub> emissions



Energy emissions are mostly CO<sub>2</sub> (some non-CO<sub>2</sub> in industry and other energy re Non-energy emissions are CO<sub>2</sub> (land use) and non-CO<sub>2</sub> (agriculture and waste).

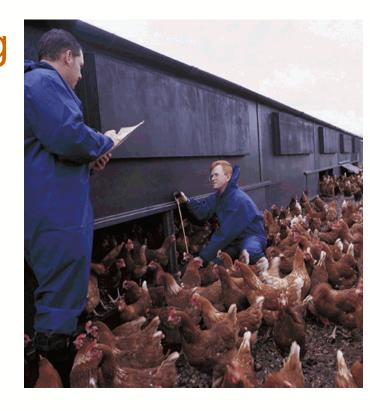
Source: Met Office

# y does Government invest in earch?



o inform policy making o inform regulation support policy mplementation

o measure progress



# Policy cycle





# vironmental impact of food oduction and consumption



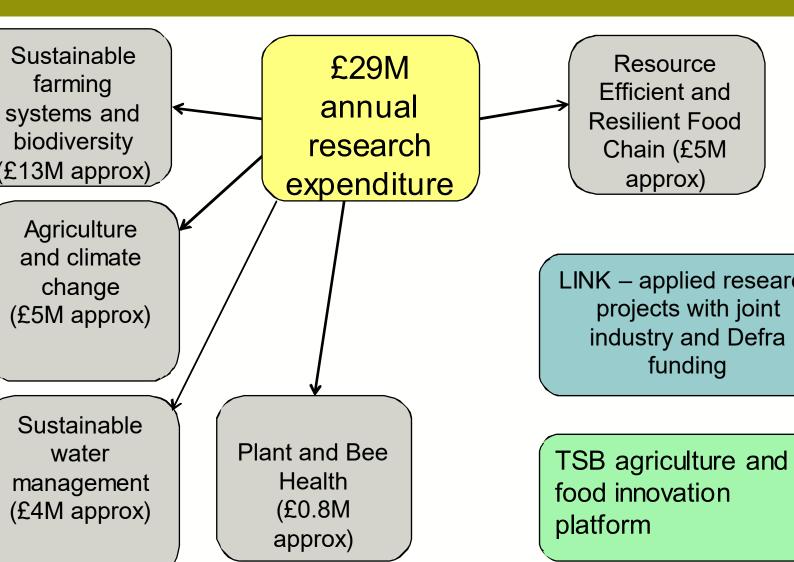
er et al., Manchester Business School

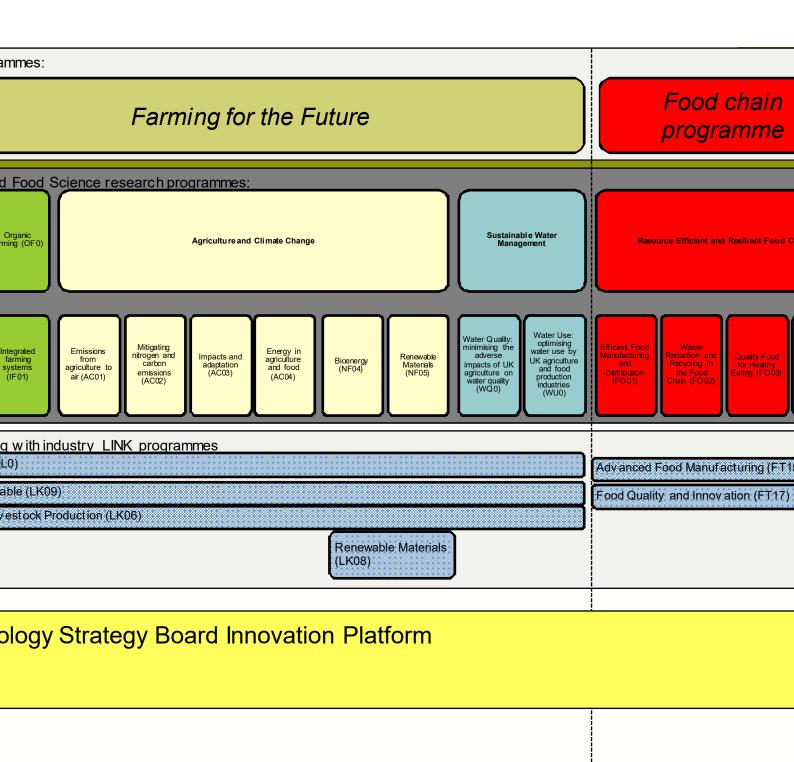
- Produced to inform Government policy.
- Environmental Life Cycle Assessments of a range of food products:
- Fresh & processed; organic & conventional; local & global source.



### a Food and Farming research grammes







# SB Agriculture and Food Innovation atform

- Crop productivity including protection and nutrition
- Sustainable livestock production
- Waste reduction and management
- GHG Reduction Technologies and Methodologies

# dence-based policy and research ordination



Food Matters Report

Foresight Farming and Futures study

Council of Food Policy Advisors

Food Research Partnership

Fruit and vegetable task force

