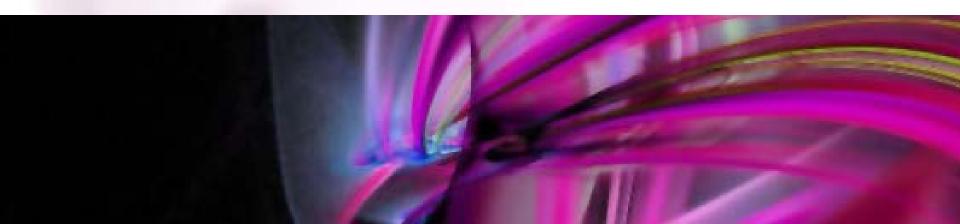






Sustainable Agriculture & Food Innovation Platform

Alex Chaix
Lead Specialist
Sustainable Agriculture and Food



Who are the Technology Strategy Board?

- We are a national body set up to invest in business innovation
- We work across business, universities and government
 - ...and anyone else who can help
- We come from business (and the public sector)
 - 90 people with > 600 years of business experience
- We are responsible for investing £1bn over the next 3 years

Driving Innovation

Our purpose

- Is to support businesses to be more profitable, now and in the future
- What they need to know is how the markets will evolve, and come and go, to be able to invest now
- There are some markets we can predict...
- ...the ones that are driven by Governments to address societal challenges...
- ... and others driven by the needs of people

Driving Innovation

And we make choices

 We don't pick winners, we pick sectors where UK businesses can thrive and support innovative companies in them

- We consider the size of the markets, the capability of the UK to address them and the timing
- And the difference our support would make

Driving Innovation



Four Criteria

Capability	Impact
Global Market	Additionality

Driving Innovation



Technology Strategy Board

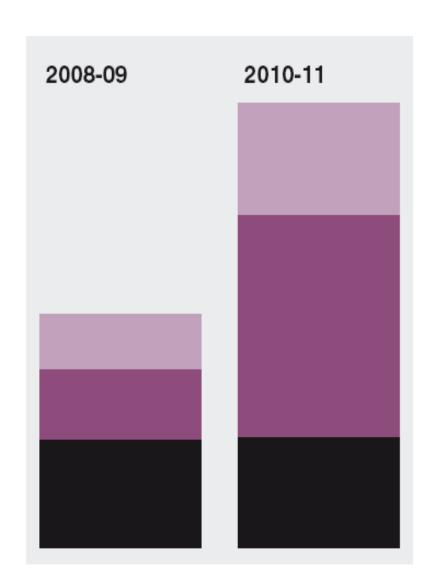
Technology
Strategy
Board
Strategy

Connect and Catalyse

A strategy for business innovation

Driving Innovation





£1 billion investment over 3 years

The innovation climate

Challenge-led innovation

Technology-inspired innovation

Delivery mechanisms

- Consortium R&D Investment
 - "normal" 2-stage
 - "fast track" 1-stage
 - feasibility first stage
 - 2-stage with consortium building workshop
 - sandpit first stage
- Single company "starter" grants
- SBRI R&D contracts
- KTPs

Driving Innovation

Application areas

Environmental sustainability Energy generation and supply Medicines and Healthcare Transport Creative industries High-value services Built environment

Advanced materials Biosciences High value manufacturing Electronics, photonics and electrical systems Information and communication technologies Nanotechnology

Technology areas

Driving Innovation

Innovation Platform

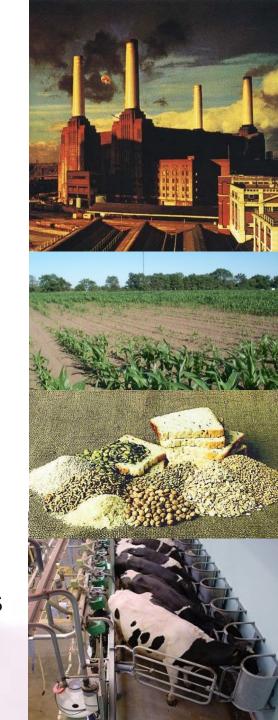
- A programme to assist UK businesses grow through the opportunities created by government action to address a societal challenge
- Lead by Technology Strategy Board with DEFRA and BBSRC: up to £90M over the next 5 years



Driving Innovation

The Challenge

- Agri-Food chain causes 18% of UK GHG
 - 50% Agriculture
 - 50% storage, processing & supply
- Environmental pressures on
 - crop protection chemicals
 - air and water quality
- Population growth requires more food
- Produced on less land
- High waste (up to 40-50%) reduces outputs
- Climate change likely to impact on yields



Driving Innovation

The Government Response

- Climate Change Act: 80% reduction by 2050
- Nitrates Directive
- Air Quality Directive
- Water Framework Directive
- New EU Directive on Pesticides
- Landfill Directive



Driving Innovation

Technology Strategy Board Criteria

- Does the UK have the capability?
 - Widespread business strength (£129bn, 7% GDP, employ 3.7m)
 - Deep scientific, technology & academic strengths
- Is there a large market opportunity?
 - Huge Global market. 2008 UK exports £13 bn.
- Is the idea ready?
 - Need to act now on climate change
 - Legislation is being introduced
- Can the Technology Strategy Board make a difference?
 - Yes, bringing people together

Driving Innovation

Overlapping Themes

- Crops Production (Arable and Horticulture)
 - Crop protection
 - Crop nutrition and management
- Livestock Production (Rumens, Poultry ...)
 - Waste management
 - GHG impact (including methane)
- Food Chain Waste
 - Reduction and management (on farm, post farm-gate and in food processing)
- GHG (reducing 18% of UK emissions)



Driving Innovation

Forward Plan

- 1st collaborative R&D competition open
 18 January 2010
- 'New Approaches to Crop Protection'
 - Answer to EU Directive 91/414
 - Broad remit (plant breeding, engineering solutions, chemical compounds)
- 2 stages: Eol and full stage application
- Eol deadline 25 February 2010
- Open to UK businesses: S2B or B2B







More information

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