



The UK Foresight Programme

NISTEP Conference

Tokyo (8th – 9th March 2011)

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"The UK's Foresight Programme aims to bridge the gap in policy making between the short and the long term."

Professor Sir John Beddington, Government Chief Scientific Adviser

21st century challenges need enduring solutions

- Population
- Water resource and food production
- Energy security and supply
- Health and disease
- Environment and climate change
- Conflict and terrorism
- Sustainability





Foresight

We help Government to think systematically about the future to develop robust policies for the 21st century



Foresight achieves this in 3 ways:

- 1. Foresight Projects: landmark studies looking at big issues 20 100 years in the future
- 2. Foresight Horizon Scanning Projects: small projects on discrete issues across the entire spectrum of public policy futures 10 15 years in the future
- **3. Foresight Toolkits and Networks**: share best practice within and across government



Previous projects



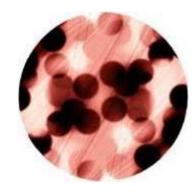
Land Use Futures



Mental Capital and Wellbeing



Sustainable
Energy & the Built
Environment



Detection & Identification of Infectious Diseases



Intelligent Infrastructure Systems



Tackling Obesities: Future Choices



Brain Science Addiction & Drugs



Flooding & Coastal Defence



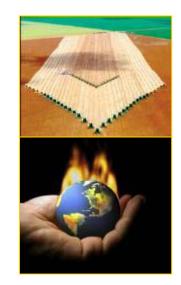
Cyber Trust & Crime Prevention



Exploiting the Electromagnetic Spectrum

Recent projects

- Global Food and Farming Futures (January 2011)
- International Dimensions of Climate Change (March 2011)

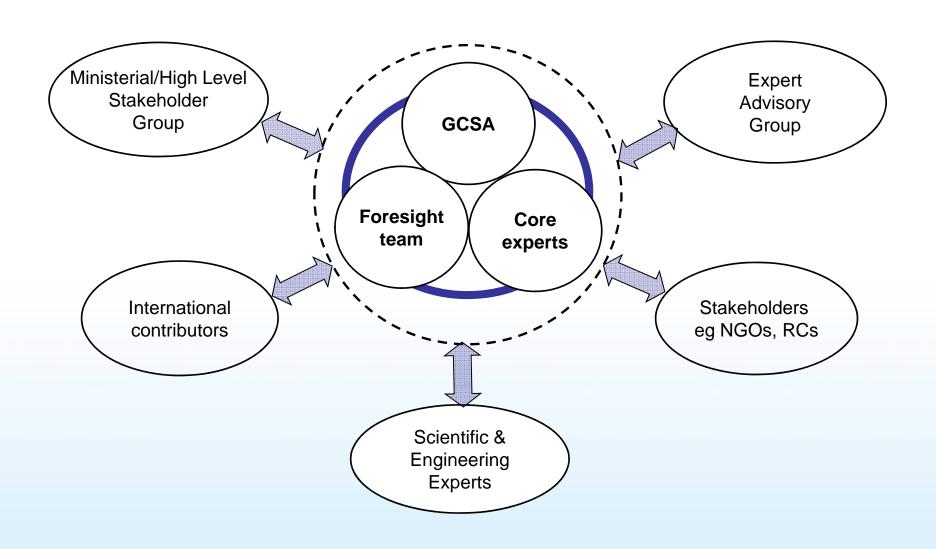


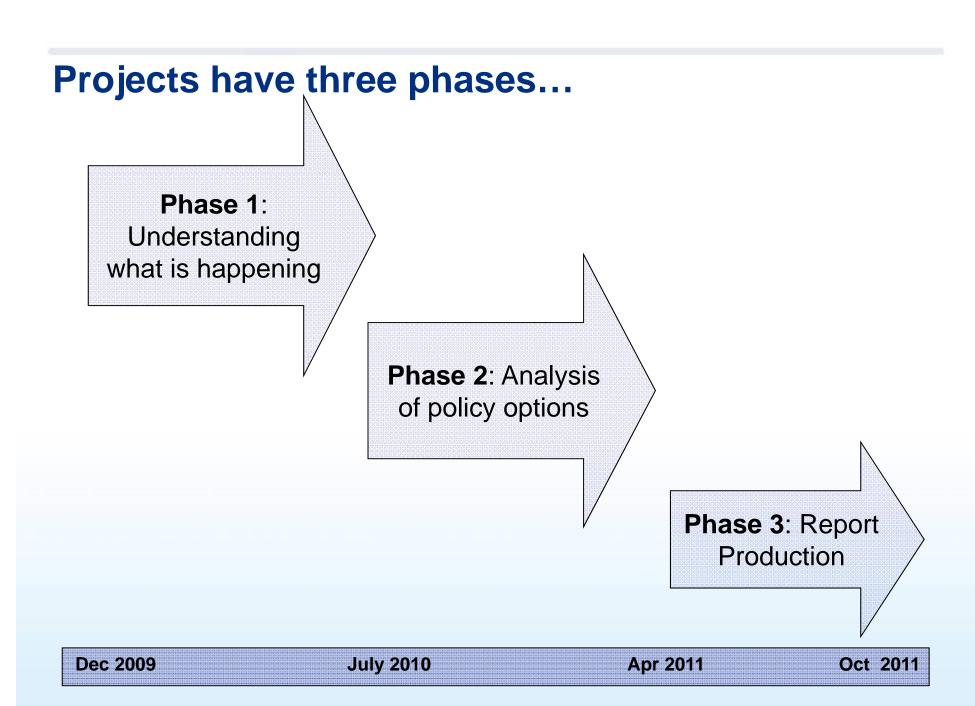
- Global Environmental Migration (Autumn 2011)
- Computer Trading in Financial Markets (Summer 2012)

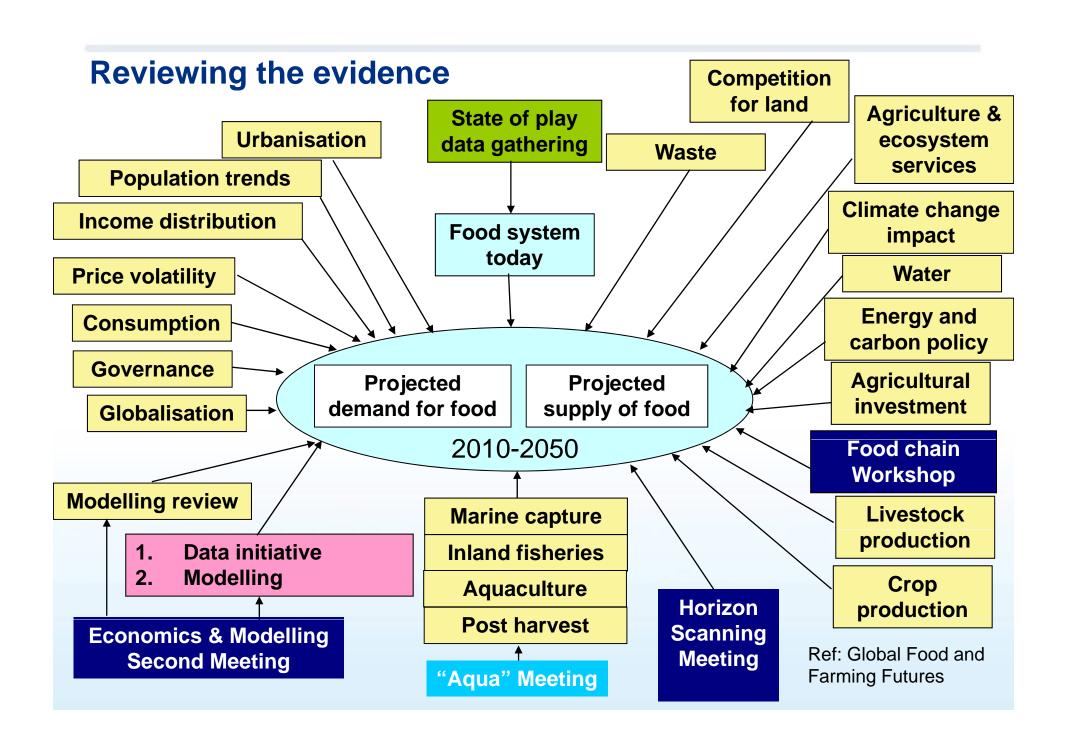


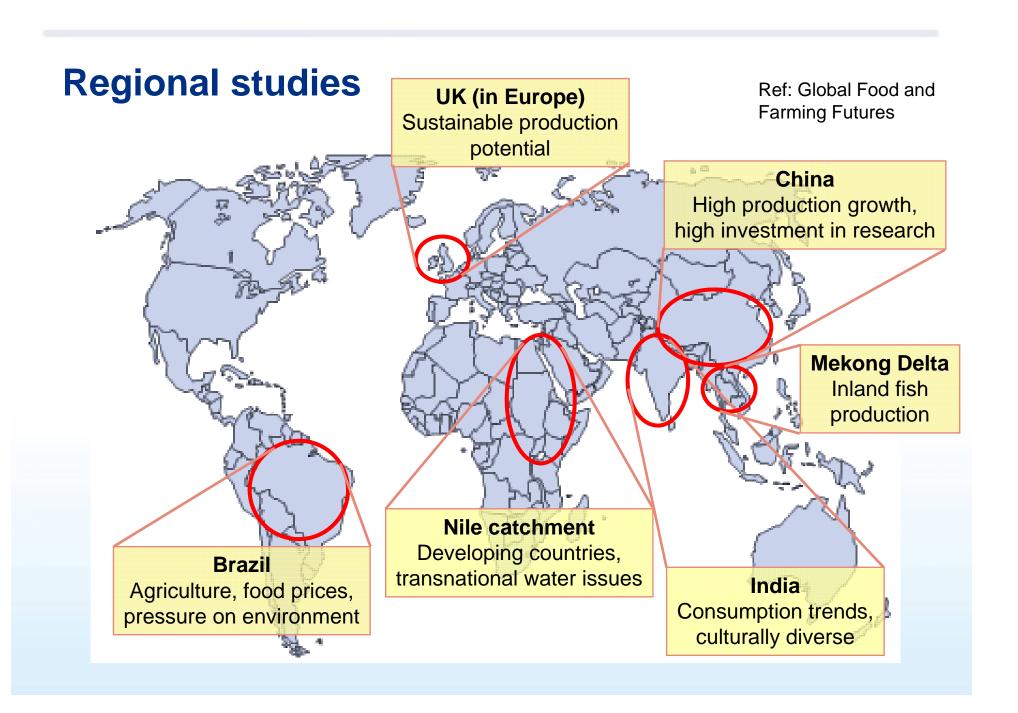


Who is involved?



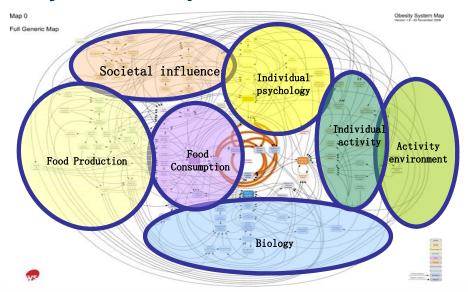




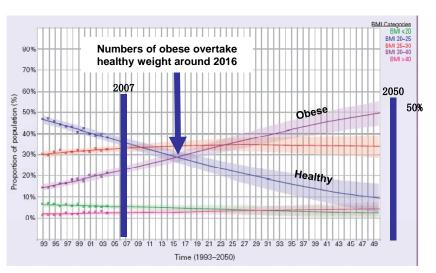


Examples of futures analysis...

Systems maps

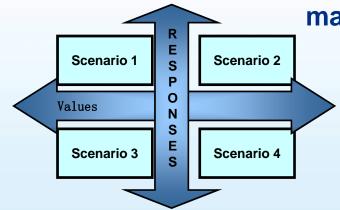


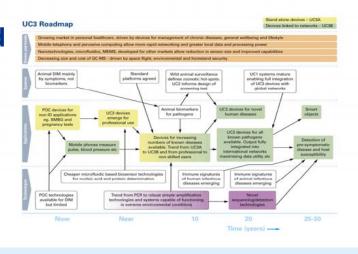
Quantitative analysis



Data source: HSE







Typical project outputs

Analysis of recent developments

Visions of possible futures

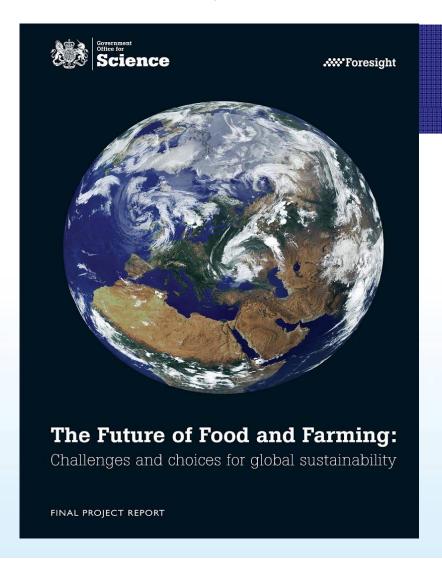
Recommendations for action

 Networks of people keen to take findings forward



The Future of Food and Farming

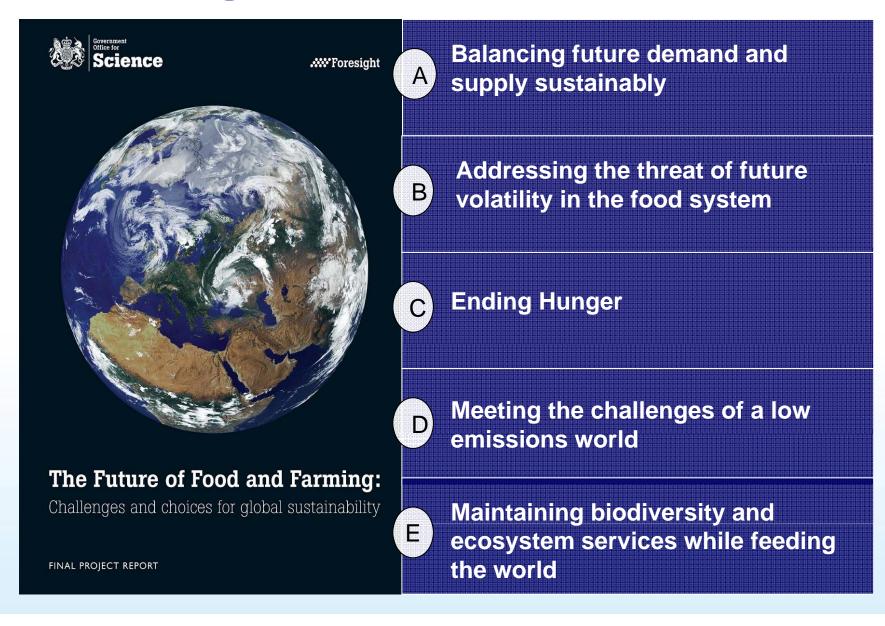
(Launched: January 2011)



Three key messages

- Radical redesign of the global food system
- "No action/change" is not an option
- Policies and decisions outside of the food system also critical

Five Challenges



Achieving impact - International

- North America
 - Canada Animal Health Strategy
 - US Modelling obesities
- China
 - Flood risk management
 - Drivers of infectious disease
- EU
 - Nutrition Platform
 - European Centre for Disease Control
- Africa
 - AU and Southern African Centre for Infectious Disease Surveillance



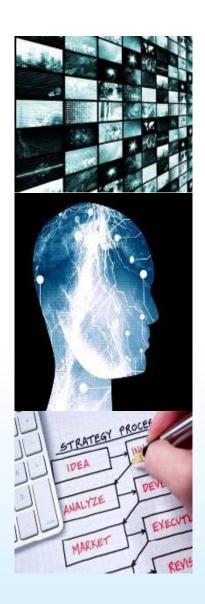
Foresight Horizon Scanning Centre

Looking ahead – beyond usual timescales

Looking across – beyond usual sources

Looking around – beyond usual cultures





Horizon Scanning Previous Projects





The Future of Ageing



The Future of Communications Convergence



WIST (Wider Implications of Science & Technology)



EU Neighbours



Future of Food



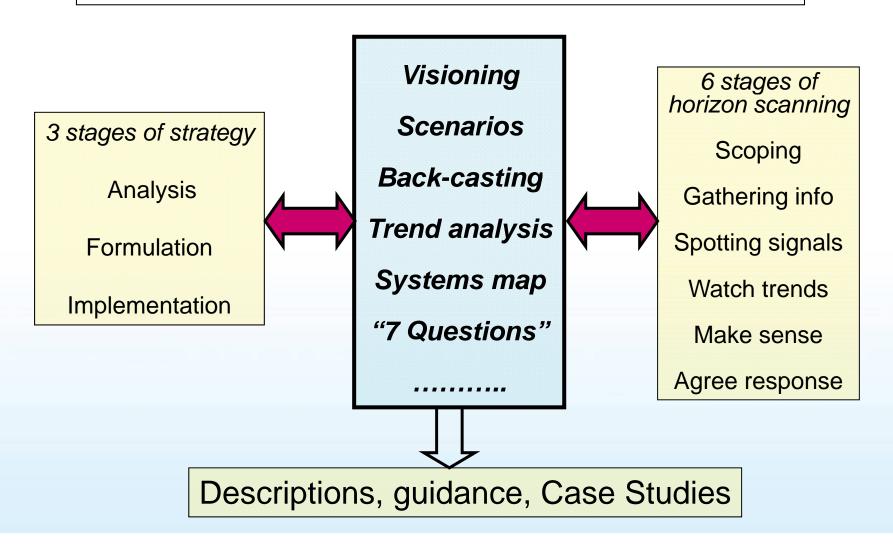
The Future Families Project

Technology and Innovation Futures

(Launched: November 2010)



HSC toolkit: 24 futures techniques



Conclusions

- Foresight is critical to long term policy-making
- Foresight is able to understand and impact policy, through evidence-based, peer reviewed strategic insights
- Our findings have supported the Government to think beyond normal time horizons to identify <u>enduring</u> solutions



Useful web-links:

- Foresight: http://www.bis.gov.uk/foresight
- Horizon Scanning Tool Kit: http://hsctoolkit.tribalhosting.net/
- Government Office for Science: http://www.bis.gov.uk/go-science
- Department of Business Innovation and Skills: http://www.bis.gov.uk/