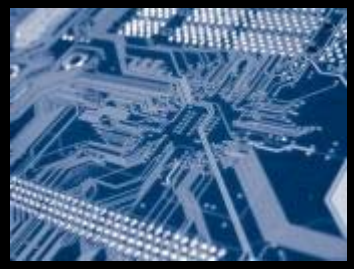
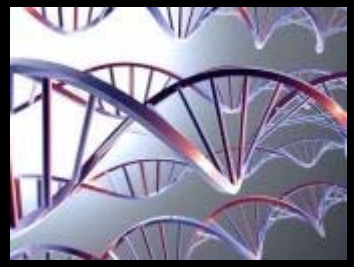

Technology Strategy Board

David Bott

Director of Innovation Platforms

Technology Strategy Board

The Vision

'for the UK to be seen as a global leader in innovation and a magnet for technology-intensive companies, where new technology is applied rapidly and effectively to create wealth'.

A wide remit

"Building on its success to date…the Technology Strategy Board will have a wider remit to stimulate innovation in those areas which offer the greatest scope for boosting UK growth and productivity, and plans for it to operate at arm's length from central government are being developed."

Science and Innovation Investment Framework 2004- 2014: Next Steps (March 2006)

UK plc

- Turnover : £1,170,000,000,000
- Government buying power : £150,000,000,000
- R&D investment : £22,230,000,000
- TSB current money : £200,000,000

We have real ambition and the drive to make a difference!!

A strategy focused on…

- Helping our leading businesses to remain prosperous - against global competition
- Identifying sectors and businesses with the capacity to be among the best in the world…
- …and stimulating them to fulfil that potential
- Making today's emerging technologies the growth sectors of tomorrow
- In these ways, making the UK a magnet for investment by world-leading companies

Delivering focused value-for-money programmes

- Collaborative R&D (£130m pa)
- Knowledge Transfer Networks (£20m pa)
- Knowledge Transfer Partnerships (£18m pa)
- Emerging Technologies (£1m pa)
- Nanotechnology centres (£10m this year)

Criteria for Support

- UK Capacity to Develop and Exploit the Technology:
  - significant research capability/capacity to exploit opportunities,
- Potential for Impact and Timescale:
  - further research and innovation with significant impact in right timeframe,
  - competitive activity – key benchmark for right things at the right pace.
- The Size of the Global Market Opportunity:
  - create value added in UK, taking account of the global market potential.
- A Clear Technology Strategy Board Role:
  - add value identifying and addressing barriers, critical policy challenges, lever in other public funds, raise engagement, cross-government co-ordination - a clear basis for business to engage in the agenda.

Collaborative R&D Competitions

- Primary mechanism for supporting business innovation
  - Business and research communities work together on research and technology projects to deliver successful new products and services
  - Collaborative R&D projects must have two or more collaborators, at least one from business
  - Project areas derived from Key Technology Areas and Innovation Platforms

Knowledge Transfer Networks

- A single over-arching national network in a specific field of technology or business application
- Which brings together businesses, universities, research & technology organisations, and the finance community …
- … to stimulate innovation through knowledge transfer

Knowledge Transfer Networks

- Aerospace and Defence
- bioProcessUK
- Bioscience for Business
- Chemistry Innovation
- Cyber Security
- Electronics
- Electronics Enabled Products
- Food Processing
- Grid Computing Now!
- Healthcare Technologies
- Industrial Mathematics
- Integrated Pollution Management
- Intelligent Transport Systems
- Location and Timing
- Low Carbon & Fuel Cell Technologies
- Materials
- Micro & Nano Technologies
- Modern Built Environment
- Photonics
- Resource Efficiency
- Sensors
- UK Displays and Lighting
- Creative Industries
- Digital Communications

Key Technology Areas

- Definition of broad, underpinning and application-focused areas
- Initially identified as the result of a wide-ranging consultation with business
- Each is prioritised into high value activities

Key Technology Areas

Underpinning Technologies

- Advanced Manufacturing
- Advanced Materials
- Bioscience
- Electronics, Photonics & Electrical Technologies
- Information and Communication Technologies

Application Areas

- Environmental Sustainability
- Energy Generation and Transmission
- Healthcare
- Transport
  (focus on aerospace & automotive)
- Creative Industries
- High Value Services
- Built Environment

…areas where UK has capacity to develop and exploit the technology and there is global market potential

Innovation Platforms

- Are a new approach to stimulating innovation
- Designed to address a major policy and societal challenge, by

  ..understanding Government's intended use of regulation and procurement to address challenge

  ..engaging with business and the research community to identify appropriate responses and their development needs

  ..supporting programmes to deliver innovative solutions

Innovation Platforms

- Pilots (launched November 2005)
  - Intelligent Transport Systems and Services
  - Network Security
- Phase II (planned to be launched by end of 2007)
  - Assisted Living
  - Low Impact Housing
  - Low Carbon Vehicles
- Phase III
  - Where next?

What's next?

- Low Carbon Vehicle competition now live
- Key Technology Area Autumn competition soon
- Innovate 07 on November 8th
- Assisted Living Innovation Platform launched at Innovate
- Low Impact Building Innovation Platform launched in December
- Key Technology Area Technologists in listening mode