

Technology Strategy Board

Driving Innovation

Building an Innovation Economy

Beyond the recession: what can science
and innovation partnerships do for you

Foundation for Science and Technology event

Queen's University Belfast

7th October 2009 - Iain Gray



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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)**
 - 96 people with over 1200 years of business experience
- **We are responsible for investing £1bn over the next 3 years**

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We support the full range of business

- Help strengthen the global competitive position of our leading businesses
- Identify and grow sectors and businesses with the capacity to become the best in the world
- Nurture the businesses that can succeed in the growth sectors of tomorrow

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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

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Responding to the economic crisis



- We were allocated £50m from the Strategic Investment Fund in the Budget
- To be invested and spent by the end of financial year 2010/11
- We invested where we could rapidly upscale or extend existing activities

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Strategic Investment Fund

- **£14m to Low Carbon Vehicles**
 - £6m to Ultra Low Carbon Vehicle Demonstrator
 - £8m to Integrated Delivery Programme
- **£10m to Low Impact Buildings**
 - Retrofit for the Future
- **£10m to Digital Britain**
 - TestBed
- **£11m to Healthcare**
 - £10m to Regenerative Medicine
 - £1m to Stratified Medicine
- **£5m to High Value Manufacturing**



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And there's more..

- **£2.5m to Industrial Biotechnology jointly with BIS**
- **£7.2m to Fuels Cells jointly with DECC**
- **£6m into Composites jointly with BIS**



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Partnerships play an important part in everything we do



- **Building joined-up public sector support for innovation**
- **Brokering and supporting collaborative relationships**
- **Building partnerships with businesses**

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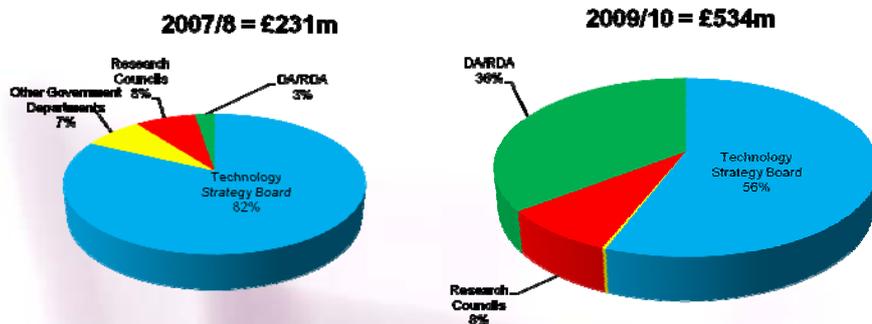
Building joined-up public sector support for innovation



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Working with the Public Sector Funding Leverage



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Brokering and supporting collaborative relationships

- Innovation Platforms
- Collaborative R&D
- Knowledge Transfer Networks
- Knowledge Transfer Partnerships
- Innovation and Knowledge Centres
- SBRI

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Low Carbon Vehicles Innovation Platform



Leadership, Influence and Engagement

- Specified the challenge
 - Worked with Government (DFT BIS), business, regions and research community to define challenge to ultimately deliver commercial solutions
- Established the links
 - brokered relationships and built the community
- Focused resource
 - CR&D projects and vehicle demonstrators, mix and match skills, funding and facilities, social science and user monitoring
- Leveraged funding
 - £250m joint Government/business funding over next 5 years
- Accelerated the route to market
 - Demonstration projects more focused on nearer commercialisation or fleet procurement initiatives

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Collaborative R&D competitions

- Encourages business R&D in specific technology areas
- Business and research communities work together
- Projects aim to deliver successful new technologies and products/services
- Currently working with 1500+ businesses (60% SMEs) and with 80+ Universities across the UK
= a portfolio of over £1bn of R&D activity

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ECIT

The Institute of Electronics,
Communications and
Information Technology



New KTN structure now largely in place

Materials

Biosciences

Electronics, Sensors, Photonics

ICT

Chemistry

Industrial Mathematics

Nanotechnology

Aerospace & Defence

Medicines & healthcare

Energy Generation & Supply

Ground Transportation

Environmental Sustainability

Modern Built Environment

Creative Industries

Financial services

Knowledge Transfer Partnerships - KTPs

- High calibre, qualified University graduates placed into technology and innovation based projects
- Aiming to double the number of KTPs and introduce more flexible short-KTPs

Currently:

- **916 KTPs running across UK**
- **62 KTPs in Northern Ireland**
 - Queen's University Belfast have 34 KTPs - the highest number in UK
 - Ulster University have 21 KTPs

How KTPs work in Northern Ireland

- Queens University Belfast
- Cherry Pipes Limited
- To gain knowledge of how to manufacture high value custom blends of polymer materials using a variety of high density polyethylene feedstock.
- Invest NI (50%)
Technology Strategy Board (50%)
- Grant amount: £85,397.00



SBRI

- Using government procurement to drive innovation.
- Enables public sector organisations to procure new technologies faster and with managed risk.
- Provides paid contracts for the critical stage of product development
- Relunched 2009
 - 13 Government Departments engaged
 - Major interest from other public sector bodies
 - 18 competitions
 - 750 applications
 - 270 contracts (>60% new companies)



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Innovation and Knowledge Centres

- To accelerate and promote business exploitation of an emerging research and technology field by:
 - Creating a shared entrepreneurial environment
 - Having resources, freedom and flexibility
 - Providing a clear strategy for technology-based, market-led innovation
 - Providing a focus for many different strands of industry relevant activity
 - Making a contribution to learning about driving effective commercialisation

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Innovation and Knowledge Centres



CSIT brings together research specialists in complementary fields such as

- data security
- network security systems
- wireless enabled security systems
- intelligent surveillance systems



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Industrial activism

- **‘New jobs – New Industry’**
 - Investing in the businesses/industries of the future
 - Developing the skills for the future

“We now need to focus on the resources, our businesses and people need to prepare for the upturn...”

“Critical to this will be ensuring that British science and technology are at the heart of the revolutions in industrial production that will define the 21st century.”



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SUMMARY

- **Technology Strategy Board have come a long way in a short time**
- **In 2008-09 we invested in:**
 - Around 1600 companies through collaborative R & D
 - Memberships of KTNs grew 45%
- **We adjusted our priorities to support recovery**
- **Forging partnerships, means our investments work harder**
- **We will continue to help businesses put innovation at the heart of the recovery**

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<http://www.innovateuk.org>

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