

Technology Strategy Board

Driving Innovation

What does your **business** need to innovate?

How the Technology Strategy Board can help



The **Technology Strategy Board** is the UK's national innovation agency. Our goal is to **accelerate economic growth** and deliver a **better quality of life** by stimulating and supporting **business-led innovation**.

We work with business on removing barriers to innovation so business can apply technology rapidly and profitably.

Our budget is more than £1bn over the period 2011-15 which, together with contributions from our public sector partners and matched funding from business, forms an overall investment of more than £2.5bn to make innovation happen.



Innovation, the successful exploitation of new ideas, drives economic growth. To achieve this, we will help businesses on their routes to success.

Iain Gray, Chief Executive,
Technology Strategy Board



The Technology Strategy Board provides a critical link in the innovation chain, helping business in the development stages where research ideas can be taken through to products and services can be commercialised.

Dr Neil Bentley, Deputy Director-General,
Confederation of British Industry



Investing in new ideas

Some of the world's biggest challenges – such as climate change and the ageing population – offer great opportunities for UK businesses to develop ideas and create new products and services. We invest in business innovations that tackle these challenges head on.



Tapping into the best brains

The UK has expertise in many cutting-edge technologies and our academic capabilities are outstanding. We help businesses make the most of new UK research so they can benefit from Britain's best brains. And we work in areas where there is a clear business benefit, helping today's emerging technologies become the growth sectors of tomorrow.



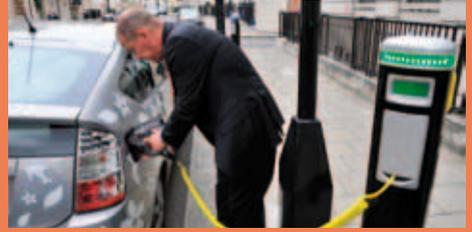
Connecting the innovators

We are using new approaches to bring together those developing ideas, helping them to break down barriers and to create a culture in which people share innovations and quickly develop them in a way that creates wealth and improves quality of life.

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This funding has enabled us to invest in UK-based expertise and achieve a revolutionary breakthrough in a highly competitive field.

Will West, CEO, CellCentric
(cell therapy company)



Green car trial: Our ultra low-carbon vehicle demonstrator competition has put over 300 electric and plug-in hybrid cars on UK roads in the world's largest trial involving multiple manufacturers. The £25m programme brought together manufacturers, local authorities, power companies and universities and influenced Nissan's decision to build the Leaf electric vehicle in Sunderland.

Does your business need investment for R&D?

We invest in business-led innovation, mainly through competitions open to enterprises of any size and from any sector. Our competitions aim to develop areas of technology, to test how they might work in practice, and to create the commercial conditions necessary for those technologies to thrive. In 2010-11 we committed to invest £165m in collaborative R&D competitions, or £191m including funding from our partners.



Efficient aircraft: Technology developed in a collaboration between six UK universities and Rolls-Royce will reduce emissions and cut an aircraft's fuel costs by around US\$50,000 per year. Supporting global firms to develop innovative technology in the UK helps establish a market advantage, expand export opportunities and create jobs.



Sign up for our competitions feed at
www.innovateuk.org/competitions



Novel construction: The Modern Built Environment KTN helped innovator Mark Singleton to meet supply chain partner Costain, secure R&D funding, and commercialise his innovative construction solution for energy-efficient, low-cost housing. The new technology is forecast to increase Costain's turnover by £3.5m per year and create nine jobs.



Does your business need to find partners?

Our 15 knowledge transfer networks (KTNs) bring organisations and individuals together to share knowledge and stimulate innovation. The online platform **_connect**, at ktn.innovateuk.org, offers innovators free online tools in a secure and confidential setting to explore together some of the challenging projects and issues they face.



The networking and consortium building opportunities offered by the KTNs has significantly helped with commercialising Stratophase's technology.

Richard Williams, CEO, Stratophase
(biosensor chip developer)



Commercial success: NanoKTN events helped a university spin-out meet partners and access funding, enabling the leap from research to commercial success. With NanoKTN support, Covesion improved processing costs and timescales for its manufacturing technique for the laser projection industry, achieving year-on-year sales growth exceeding 85%.

>> Join **_connect**, the free online networking portal at www.innovateuk.org/connect



Cleaner hands: Winning an SBRI contract will help Creo Medical build its business, save lives and reduce NHS costs. Creo Medical's plasma-based hand sterilisation system could dramatically reduce hospital bacteria and viruses. The £100,000 contract funded concept viability work prior to full product development.

Does your business want government contracts for innovative ideas?

It can be hard for companies to access government departments, or for the public sector to discover businesses with the most innovative products and ideas. We champion the Small Business Research Initiative (SBRI) which matches business ideas to government challenges through a simple procurement process.



SBRI helped us develop our technology, find a new product design partner and gain funding for cutting-edge innovation.

Neil Garner, CEO, Proxama
(technology company)



Greener social housing: Our SBRI 'Retrofit for the future' initiative is upgrading UK social housing stock to meet future CO₂ emissions and energy use targets. The £17m programme, which involves 86 projects, is developing new products and services for dedicated customers.



Flat pack bridge: Macrete Ireland collaborated with Queen's University Belfast and KTP associate Abhey Gupta to develop a novel, flexible 'flat-pack' concrete arch for bridges. The project allowed Macrete to exploit new market areas and see an increase in profits of over 11%.



Businesses will be able to use our technology and innovation centres to draw on expert staff and gain access to state-of-the-art equipment that might otherwise be out of reach.

Iain Gray, Chief Executive,
Technology Strategy Board

Does your business need expertise to be more innovative?



We are creating a network of world-leading technology and innovation centres to transform the UK's capability for innovation in specific technology areas and help drive future economic growth. The £250m+ investment will see the first centre, in high-value manufacturing, open during 2011.

The Knowledge Transfer Partnerships (KTP) scheme has been helping business innovate for more than 30 years.

The scheme helps any business find recently-qualified experts to spearhead projects. Overall, each £1m invested generates a £3m annual company profit increase and 54 new jobs.

Herbal trial: A KTP project between Bioforce (UK) and Queen Margaret University College, Edinburgh, established the UK's first clinical trial department to take herbal products through scientific scrutiny and licensing to the mainstream pharmaceutical market place. New expertise put Bioforce in a position to license Devil's Claw (*Harpagophytum*) for arthritis relief, with an anticipated £550,000 turnover.



>> Visit www.ktponline.org.uk to find experts

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Driving Innovation

Where we focus our efforts

The following technology and application areas show how we prioritise and guide our work. Innovation platforms address challenges faced by global society.

Priority areas

- Advanced materials
- Bioscience
- Built environment
- Digital services
- Electronics, photonics and electrical systems
- Energy
- Food
- Healthcare
- High-value manufacturing
- Information and communication technology
- Sustainability
- Transport

Innovation platforms

- Assisted living
- Detection and identification of infectious agents
- Low-carbon vehicles
- Low-impact buildings
- Stratified medicine
- Sustainable agriculture and food

Further information

Concept to Commercialisation – a strategy for business innovation

www.innovateuk.org/publications

_connect, the free online networking portal

www.innovateuk.org/connect

Competitions feed

www.innovateuk.org/competitions

Technology Strategy Board newsletter

www.innovateuk.org/contact.ashx

Knowledge Transfer Partnerships

www.ktponline.org.uk

SBRI

www.innovateuk.org/sbri

The Technology Strategy Board is a business-led, arm's length, public body supported by the Department for Business, Innovation and Skills (BIS). Its vision is for the UK to be a global leader in innovation and a magnet for innovative businesses, where technology is applied rapidly, effectively and sustainably to create wealth and enhance quality of life.

Technology Strategy Board

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