What is the
[T]echnology [S]trategy [B]oard?

UK's 'national innovation agency'

Set up to invest in business innovation

Works across business, universities and government

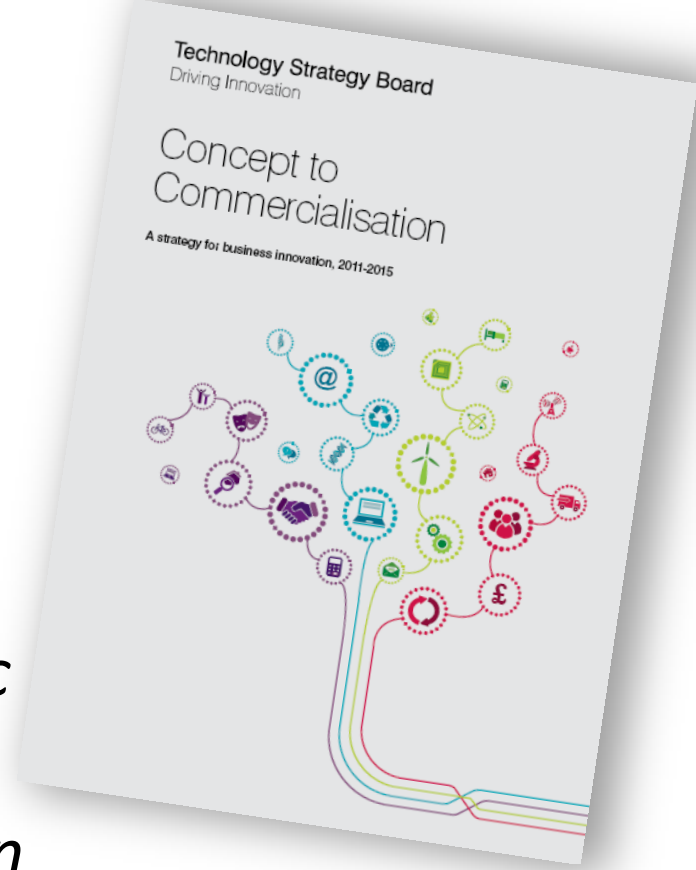190 people, mostly come from business backgrounds

Responsible for investing c. £400m a year

Concept to Commercialisation

A strategy for business innovation, 2011-2015

Our goal is to accelerate economic growth by stimulating and supporting business-led innovation
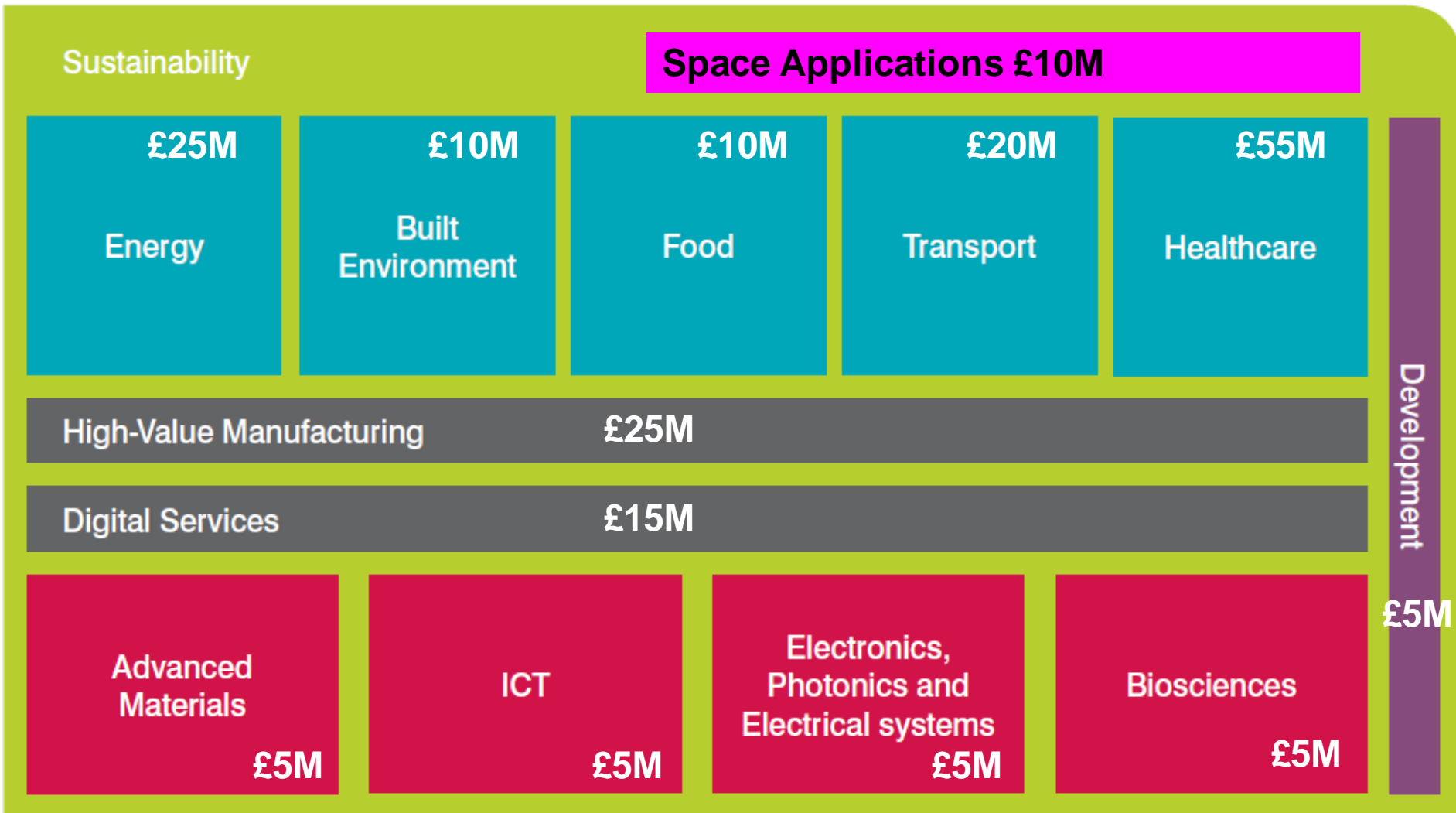
www.innovateuk.org

Our 5 Strategic Focus Areas

- **Accelerating the journey - concept to commercialisation**
  - o Understanding the non-linear journey and how best to support

- **Connecting the innovation landscape**
  - o Developing the strategic relationships we need in UK, EU & Globally

- **Turning Government action into business opportunity**
  - o Where Government procures, regulates, standardises...

- **Investing in theme areas based on global potential**
  - o Building a synergistic programme based on data driven choices

- **Continuously improving Organisational capability**
  - o Impact assessment, metrics, measures, efficiency, effectiveness..

Investing in priority areas based on potential

Sustainability				
		Space Applications £10M		
£25M Energy	**£10M** Built Environment	**£10M** Food	**£20M** Transport	**£55M** Healthcare
High-Value Manufacturing £25M				
Digital Services £15M				
Advanced Materials £5M	ICT £5M	Electronics, Photonics and Electrical systems £5M	Biosciences £5M	

Development £5M

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Criteria for investment

- UK capacity to develop and exploit the technology
- The size of the global market opportunity
- The right potential for impact in the right time frame
- A clear role for the TSB to add value

The Toolset

Range of Tools with different objectives / characteristics

Smart ✓

SBRI Government challenges. Ideas from business. Innovative solutions.

Collaborative R&D ✓

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Knowledge Transfer Networks

Knowledge Transfer Partnerships

Launchpad

Innovation Vouchers

CATAPULT ✓

eurostars™

Entrepreneur Missions

Knowledge
Transfer
Network

Environmental
Sustainability

What are Knowledge Transfer Networks?

- Established by the TSB to;

- Stimulate innovation in the UK's key technology sectors

- Link different organisations - each playing a part in delivering the objectives

- Provide a means of efficiently using the support mechanisms already available

Knowledge
Transfer
Network

Environmental
Sustainability

Environmental Sustainability KTN

Industry led Management Board

BIS
Department for Business Innovation & Skills

MWH.
BUILDING A BETTER WORLD

Thames Water

wates
construction

Environment Agency

Viridor

Heineken UK

ARUP

suez
environnement

SITA

UK WATER INDUSTRY RESEARCH LIMITED
UKWIR

wrap

SOUTH WEST WATER

Delivered by a strong partnership

UNIVERSITY · OF · OXFORD
DOMI NVS ILLV MINA TIO MEA

8 FTE

5 FTE

C-Tech
INNOVATION

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Environment and Water - EcoNano
Official Group

Knowledge
Transfer
Network

Nanotechnology

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"Nanoscale innovations for a cleaner environment"

Environment and water

The environment and water sector encompasses a very broad range of activity, from waste and water treatment, hazardous materials treatment and disposal, and air pollution management, to in-building environment management and remediation of polluted areas. There are a number of drivers that will affect the take-up of nanoscale technology including:

- detection and monitoring
- industrial clean-up
- emissions reduction
- water purification
- air filtration
- recyclability

It is likely that the largest penetration of the market by 2015 will be in the areas of detection and monitoring, and industrial clean-up, with the adoption of technologies such as nanosensors capable of detecting minute traces of chemicals or organic compounds, and nanoscale bimetallic particles for in situ remediation.

Newest members

Steven Masia
Joined: 16 November

Charanjeet Singh
Joined: 09 November

Bob Squirrell
Joined: 02 November

Fernando Tadeo
Joined: 01 November

Michael Soegaard Joergensen
Joined: 01 November

📶 Subscribe to these activities.

Latest sub-groups

CATAPULT®

Closing the gap between concept and commercialisation

The vision: a network of world-leading centres

Bringing research and business together – accelerating commercialisation

A £200m investment in the future of the UK economy - for the long term

CATAPULT®

Closing the gap between concept and commercialisation

- High Value Manufacturing

- Cell Therapy

- Offshore Renewable Energy

- Satellite Applications

- Connected Digital Economy

- Future cities

- Transport systems

Materials innovation for a sustainable economy

Materials innovation for a sustainable economy
COLLABORATIVE RESEARCH AND DEVELOPMENT
MARCH 2013

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Status: Closed

Key features: Investment of up to £5m in highly innovative collaborative research and development that encourages the development and application of sustainable materials, products and processes.

Programme: Collaborative research and development

Award: Up to £5m

Opens: 04 Mar 2013

Registration closes: 17 Apr 2013

Closes: 24 Apr 2013

Smart

Smart

- Funding to small and medium-sized enterprises for R&D projects in science, engineering and technology

- Previously known as Grant for Research and Development

- Three types of grant are available:
  - **Proof of market**
  - **Proof of concept**
  - **Development of prototype**

Proof of market grant

- Enables companies to assess the commercial viability of a project, through:
  - Market research
  - Market testing and competitor analysis
  - Intellectual property position
  - Initial planning to take the project to commercialisation, including assessing costs, timescales and funding requirements

Projects will last up to 9 months, have a maximum grant of £25k, and up to 60% of total project costs may be funded.

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Proof of concept grant

- To explore the technical feasibility and commercial potential of a new technology, product or process, including:

  - Initial feasibility studies

  - Basic prototyping

  - Specialist testing and/or demonstration to provide basic proof of technical feasibility

  - Intellectual property protection

  - Investigation of production and assembly options.

- Also includes pre-clinical research studies

Up to 18 months, maximum grant £100k, up to 60% funded.

Development of prototype grant

- Used to develop a technologically innovative product, service or industrial process, such as:

- Small demonstrators

- Intellectual property protection

- Trials and testing, including clinical

- Market testing

Up to 2 years, maximum grant of £250k; up to 35% of total project costs for medium enterprises, or up to 45% for small and micro enterprises.

What is KTP?

Knowledge Transfer Partnerships (KTP) are partnerships involving a company, a knowledge base and a recently qualified person to carry out a strategic project with benefits to all parties.

A different form of University – Industry engagement

How does it work?

- Focused team for 6-36 months
- Associate works full time on the company premises – but employed by University
- Academic supervises Associate ½ day/week (average) at the company
- Company supervises as per normal employee
- Associate project-manages
- Formal project management disciplines imposed

PARTNERSHIP

Assessment dates

The new batch assessment dates for Smart scheme applications during the financial year 2013/14 are:

- 23 May 2013

- 18 July 2013

- **26 September 2013**

- **21 November 2013**

- **30 January 2014**

- **27 March 2014**

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European Funding Streams

- In a 'state of flux'
- H2020 is currently only a feint outline
  - Work packages not announced
  - Possibility post 2014
- Eco-Innovation aimed at close-to-market technologies
- *Horizon 2020 Initiative (confusingly)*
  - *Euro-mediterranean partners committed to substantially reducing pollution in Med. by 2020*
  - *Funds committed (DG EuropeAid)*

A couple of possibilities to consider

- ERA-NET

  ➢ the networking of research activities conducted at national or regional level, and

  ➢ the mutual opening of national and regional research programs.

- COST

  ➢ financial support for cooperation efforts of scientific groups across Europe and the coordination of these research networks called "Actions".

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ERA-NETs   What?

- **E**uropean **R**esearch **A**rea **Net**work

- Minimum 3 participants in different EU countries (or eligible partner countries)

- Up to €2.5M for 3 years (but some flexibility)

- Promoting transnational research

- Complementary to other EU/national funding

ERA-NET

"facilitating practical initiatives to coordinate regional, national and European research programmes in specific fields, and to pool fragmented human and financial resources, in order to improve both the efficiency and the effectiveness of Europe's research efforts"

ERA-NETs   Why?

- Mapping of past and current research funding programs
- Regular workshops to improve mutual understanding and trust
- Identify gaps, overlaps and possible synergies
- Can lead to collaborations of major significance, including the strategic planning and design of joint research programs

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COST

- **Co**operation in **S**cience and **T**echnology

- the costs of networking activities such as meetings (e.g. travel, subsistence, local organiser support), conferences, workshops, short-term scientific exchanges, training schools, publications and dissemination activities

- Does **not** fund the research itself

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COST   How?

- Contacts from at least five COST countries

- Must have, (or have good reason to expect to have), a national research grant or other research funding

- Make a good case that a COST network would make a positive impact over and above the normal benefits of networking

- C. €130k per annum

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Other...

What stage is the research?

- Early-stage – Research Councils (EPSRC, NERC, STFC)

Is there something near-market that might attract VC funding?

- Water technology is (slowly) beginning to be recognized as a sector ripe for investment
- VC Market is currently very **risk-averse**

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Other (continued)

Industry itself?

- **Veolia Innovation Accelerator, Severn Trent Services, BP Ventures, Siemens...**
- **What does industry look for?**

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