

Technology Strategy Board

Driving Innovation

Technology Strategy Board Update

Dr Michael Sullivan

Lead Technologist – Regenerative Medicine

*Annual Tissue & Cell Engineering Society Meeting
Newcastle 4th July 2014*



The Technology Strategy Board

**A national organisation
promoting technology-enabled innovation...**

**for business benefit, economic growth,
and quality of life**

Investment Criteria

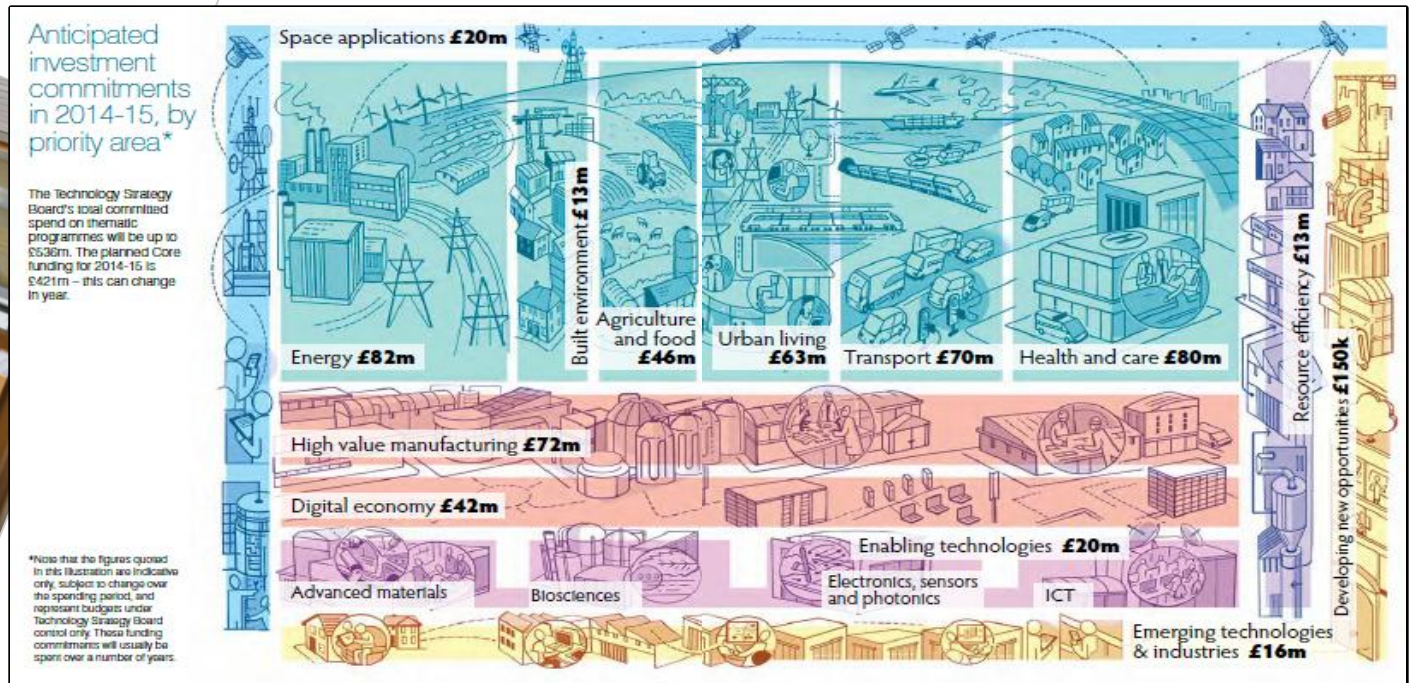
- Does the UK have the capability?
- Is there a large market opportunity?
- Is the idea ready?
- Can the Technology Strategy Board make a difference?



Technology Strategy Board 2014-2015



Core funding c£421million



The Toolset

Range of Tools with different objectives / characteristics

Smart

SBRI Government challenges.
Ideas from business.
Innovative solutions.

**Collaborative
R&D**

_connect

Knowledge
Transfer
Partnerships


eurostars™

Knowledge
Transfer
Network

Launchpad

CATAPULT®

**Innovation
Knowledge Centres
(IKCs)**

**Innovation
Vouchers**

**Feasibility
Studies**

**Entrepreneur
Missions**

Collaborative R&D since 2007

>2800
projects
launched

Working with

>4,900



>150



>£3bn
invested in
UK innovation
projects

Find out more at www.innovateuk.org

Funded Projects

Technology Strategy Board
Driving Innovation

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in _c g+ f t r YouTube

Funding & support | Priority areas | Innovation in action | Who we work with

Projects

Home / Innovation in action / Projects

Technology Strategy Board grant funded projects database.

Version 1.86, Updated March 2014 - added new projects

This data includes all funding provided by the Technology Strategy Board for innovation projects (except closed KTP projects, which will be added in due course). The projects are entered into the system once contractual arrangements have been completed and this database is updated monthly. The data may differ from information featured elsewhere in this website under 'Competition results' as successful competitors may withdraw, or may fail to meet qualifying conditions, before the start of a project. A guide to the tool is available [here](#). [x]

Regenerative Medicine x Search

Click to refine your search, blue = included, grey = excluded

Project Name Project Number Participant Name Competition Name

[+] Advanced Search

<https://www.innovateuk.org/projects>

Health + Care Activities

- In Health + Care we address challenges through the following activities:
 - Stratified Medicine Innovation Platform
 - Assisted Living Innovation Platform
 - The Biomedical Catalyst
 - Regenerative Medicine & Cell Therapy Programme

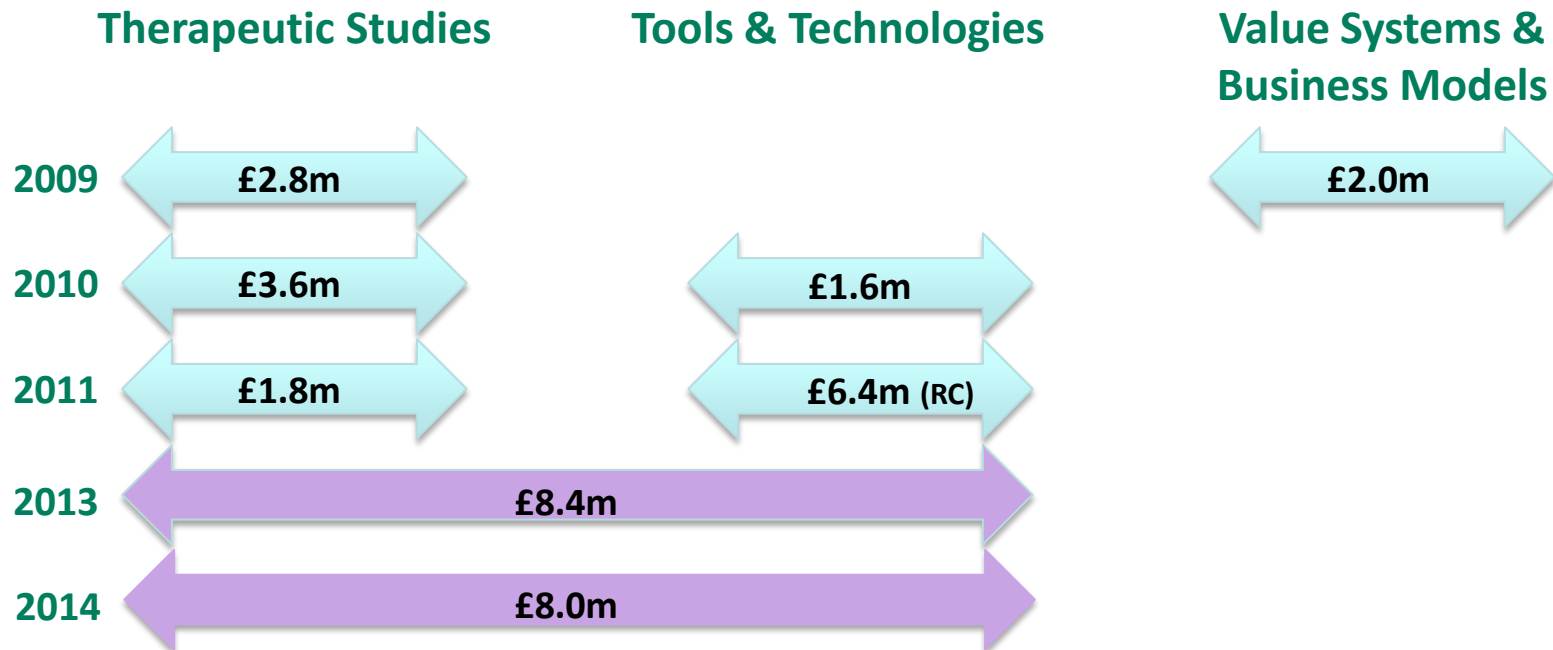
Regenerative Medicine Programme

- Established in 2009 - initial investment of £21m from Technology Strategy Board and partners
- Prior to this, invested £20m+ in a portfolio of 30 projects involving 20 different companies
- Work to complement UKRMP, other Technology Strategy Board groups (e.g. Stratified medicine)
- Support wider definition of regenerative medicine and cell therapy



TSB Regenerative Medicine Programme

- Aims to
 - Underpin and enable best businesses to flourish
 - Build connected regenerative medicine community to develop medicines



Regenerative Medicine Programme

Programme Achievements

- 80 collaborative R&D and feasibility projects funded to date
- 5 therapies entering clinical trials for the first time
- 2 companies raising over £21m of further investment as direct consequence of program
- Companies establishing overseas operations for the first time
- Established the Cell Therapy Catapult in 2012
- Budget 2014 - The Cell Therapy Catapult, through the Technology Strategy Board, awarded £55m to establish a large-scale cell manufacturing centre for Phase III clinical trials and commercial supply

videregen

avanticell science Stem Cell Development

Stabilitech

Pfizer

RegenTec

Plasticell



Biocompatibles

asymptote

smith&nephew

REPREGEN™
The Smart Biomaterials Company

AQIX®
Liquid Life

AEDSTEM

CliniMed®

TAP Biosystems

btl intelligent freeze drying

ORTHOX

Tissue Regenix Group plc

ReNeuron
pioneering stem cell therapeutics

neotherix®

MedCell

Orla PROTEIN TECHNOLOGIES

Roslin Cells

altrika



AGT Sciences
OxfordBioMedica

Renovo

kirkstall

coolgenics

Biolatris
Helping innovation succeed

domainex
the faster route to drug discovery

INTERCYTEX
Regenerative Medicine Products

TIGENIX
Living Medicines

LONZA

Orthomimet
whole medicine for a whole act

Cell Medica

LiverCyte

ZYOXEL
HUMAN TISSUE TESTING TECHNOLOGIES

Progenteq
ADVANCED CARTILAGE REPAIR

SSCN scottish stem cell network

pharmidex

Open Competitions

Technology Strategy Board
Driving Innovation

Funding & support | Priority areas | Who we work with | Innovation in action

Funding competitions


Home / / Funding & support / / Funding competitions

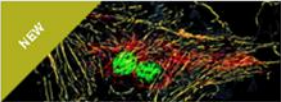
Please note that your search query will only apply to content related to the tab highlighted in grey.

Search

Open | **Forthcoming** | Previous | All

+ FILTERS

NEW  Entertainment on the move – Innovation Contest
£100k on offer for digital innovation in the music, publishing and games sectors
Opens: 02 Jun 2014 **Registration closes:** No deadline
Closes: 29 Jul 2014 **Programme:** IC tomorrow

NEW  Advancing regenerative medicines and cell therapies
Competition for collaborative R&D funding
Opens: 02 Jun 2014 **Registration closes:** 09 Jul 2014
Closes: 16 Jul 2014 **Programme:** Collaborative research and development

ABOUT FUNDING COMPETITIONS

You can apply for R&D funding in specific priority areas, as well as non-themed 'always open' competitions such as Smart. Browse, register and apply for our current competitions, or find out about those opening soon.

GUIDANCE FOR APPLICANTS

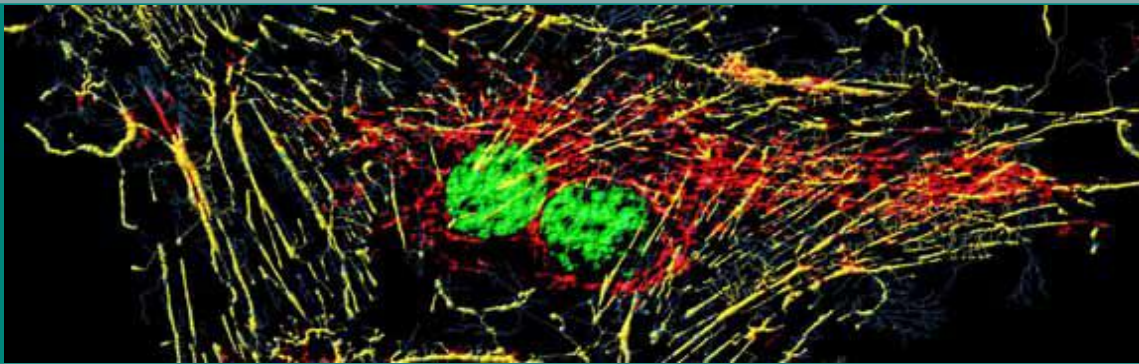
Please refer to the general guidance for applicants for important information about funding rules, project costs and how to submit your application.

Please click here to see the general

<https://www.innovateuk.org/funding-competitions>



Llywodraeth Cymru
Welsh Government



Advancing Regenerative Medicines & Cell Therapies

Competition: 2 stage single-company and collaborative R&D

Opens: 2nd June 2014

Maximum project length: 3 years

Total investment: up to £8m

Technology Strategy Board

Driving Innovation

Aims

To advance the industry by addressing sector-specific challenges related to preparing regenerative medicines and cell therapies for use

Opportunity to engage with the Catapult network if appropriate

Competition Expectations

- Two stage application (expression of interest, full application)
- Projects to be business led
- Single company, or collaborative projects:
 - Research organisation participation in a project should not exceed 50%
- Project costs to be £500k to £2.5m
- Projects to last between 1-3 years
- Industrial Research
 - 60% funding for micro/small/medium company
 - 50% funding for large company

Scope Stream 1

Stream 1: Support for preclinical & clinical development

- Preclinical testing
(e.g. efficacy, safety, cell environment, cell migration, self-repair, differentiation)
- Formulation and delivery
(e.g. incorporation into devices or scaffolds, combination delivery)
- Clinical trials
(e.g. Phase 1 and 2 trials, determining and improving outcomes)
- Scale-up and manufacturing
(e.g. transition to GMP, introducing scalable cell culture methods)

Scope Stream 2

Support for development of underpinning tools & technologies

- Product safety and/or efficacy
(e.g. new model development for testing, new companion biomarkers)
- Manufacturing at scale
(e.g. automation and reproducibility, bioprocessing, cell/product characterisation, delivery, transport, storage)

Welcome applications concerned with modernising methods /processes

- greater efficiency
- cut the time involved in getting products to market

Cell Therapy Catapult

Competition provides opportunity to engage, where appropriate, with the Cell Therapy Catapult enquiries@ct.catapult.org.uk

- Established by TSB in 2012
- Make the UK a global leader in development, delivery & commercialisation of cell therapy
- Taking therapies into clinical trial, so de-risking future investments
- Provide technical expertise & infrastructure to develop manufacturing processes for GMP
- Understanding health economics, business models, and regulatory environment



Competition Briefing

- Briefing document describes scope of the competition
- Has its own application form and Guidance for Applicants
- Is posted on our web site

Briefing Document and Guidance for Applicants are key to understanding what we seek to support

Briefing event webinar:

tsb.innovate.adobeconnect.com/p1hkwcilr8/



Key Dates

Competition opens	2 June 2014
Applicant Briefing day	10 June 2014
Registration deadline	9 July 2014 at noon
Expressions of interest deadline	16 July 2014 at noon
Stage 2 opens (for invited applications)	14 August 2014
Deadline for receipt of full applications	8 October 2014 at noon
Full stage applicants informed	November 2014



- **TSB** and **MRC** jointly investing **£180m over first 3 years** to:
- Support healthcare R&D carried out in partnership between clinicians, academics and industry (**SMEs**)
- Drive translation of **innovative** ideas into marketable products and services
 - more rapidly and more effectively
 - ensuring maximum **healthcare impact**
- Deliver **economic growth**

Current Status (business-led projects):

- Rounds 1,2,3&4 combined: out of 563 proposals received (requesting £521m); 122 funded = **£96.8m**
- Round 5: 80 Early + Late stage proposals and 75 Feasibility proposals requesting over £100m total; 23 Feasibility projects funded = **£3.2m**.
Assessment of Early and Late stage still in progress
- Round 6: 84 Early + Late stage applications received.

Key Dates Round 7: *Late Stage* only

Time line	Dates
Competition Open	5 th June 2014
Registration Closes	Noon 23rd September 2014
Deadline for EOI applications	Noon 1st October 2014
Applicants Informed of decision	24 th October 2014
Full Stage opens (for invited applications)	27 th October 2014
Deadline for submission of the full application	Noon 26th November 2014
Full Stage Applicant Interview (TBC)	February 2015
Full briefing and MedTech Workshop: 24th June	Queens Hotel, Leeds

KTN Ltd

Knowledge
Transfer
Network

One Knowledge Transfer Network

•Key roles:

- to encourage cross-sector innovation, by coordinating collaboration between business and the research base
- to encourage business-to-business collaboration, particularly between companies from quite disparate sectors

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