



The Foundation for Science and Technology

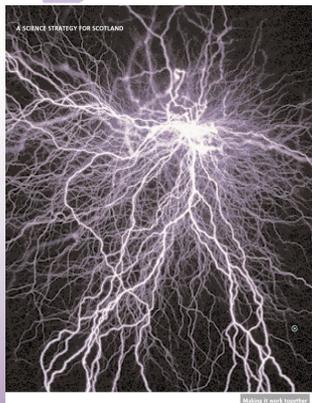
The Royal Society of Edinburgh

A Science and Innovation Strategy for Scotland

Professor Alice Brown



Scottish Funding Council
Promoting further and higher education



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Scottish Government's Purpose

A more successful country, with opportunities for all of Scotland to flourish, through increasing sustainable economic growth.

September 2011



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The Government
Economic Strategy

**PUTTING LEARNERS AT THE CENTRE:
DELIVERING OUR AMBITIONS FOR
POST-16 EDUCATION**





SFC Strategic Plan Outcomes

- Outcome 1: efficient and effective regional college structures
- Outcome 2: access for people from the widest possible range of backgrounds
- Outcome 3: the right learning in the right place
- Outcome 4: high quality, efficient and effective learning
- Outcome 5: a developed workforce**
- Outcome 6: sustainable colleges and universities
- Outcome 7: a research base that is internationally competitive and improving its reputation and standing in the world**
- Outcome 8: university/industry collaboration and the exploitation of research**



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Dual Support System

Funding Councils

- *Scottish Further and Higher Education Funding Council.*
- Higher Education Funding Council for England.
- Higher Education Funding Council for Wales.
- Department for Employment and Learning, Northern Ireland.



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Dual Support System

Research Councils (RCUK)

- Arts and Humanities Research Council.
- Biotechnology and Biological Sciences Research Council.
- Engineering and Physical Sciences Research Council.
- Economic and Social Research Council.
- Medical Research Council.
- Natural Environment Research Council.
- Science and Technology Facilities Council.



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Research Councils UK

1. Provide a highly skilled workforce as the basis for economic growth and sustainability.
2. Support national capability in essential disciplines.
3. Focus on strategic research and outcomes.
4. Support critical mass and centres of excellence.
5. Encourage multidisciplinary research collaboration.



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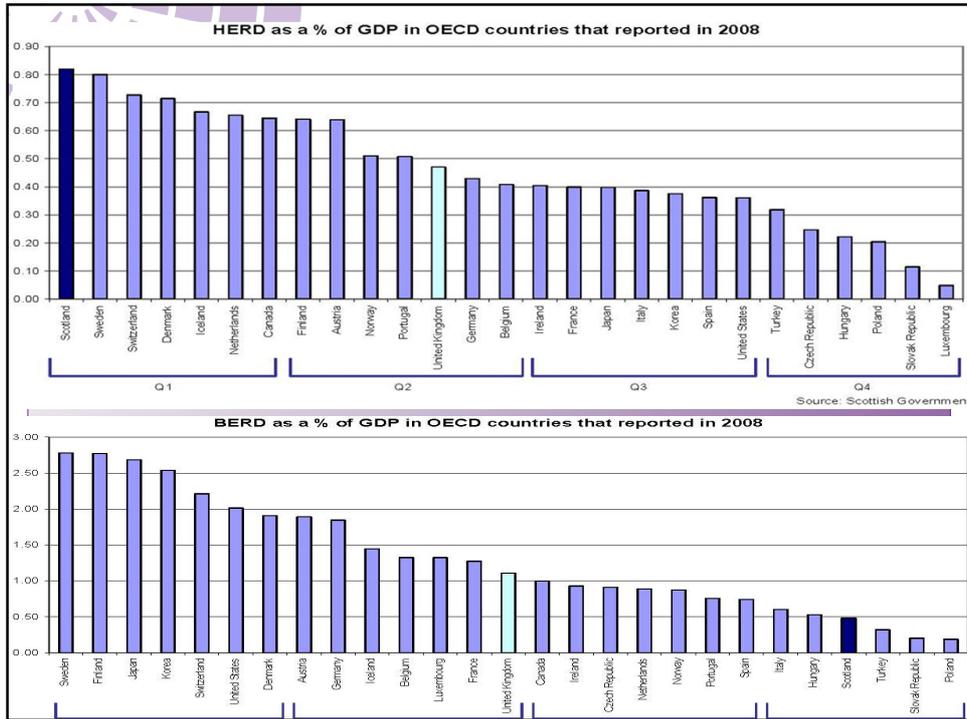
Research Council Cross-cutting themes



Other sources of funding

- **Technology Strategy Board – Catapults, Knowledge Transfer.**
- **National Institute for Health Research (UK).**
- **Chief Scientist's Office (Scotland).**
- **Research Charities - Wellcome Trust, Cancer Research UK, etc.**
- **European Commission – Framework Programme (FP7).**
- **European Research Council.**
- **National Institutes for Health (NIH).**
- **Bill and Melinda Gates Foundation.**



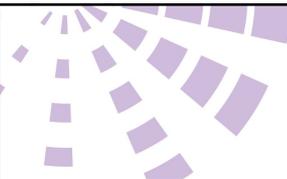


The Scottish Government
Riaghaltas na h-Alba

SCOTLAND CAN DO
BECOMING A WORLD-LEADING
ENTREPRENEURIAL AND INNOVATIVE NATION

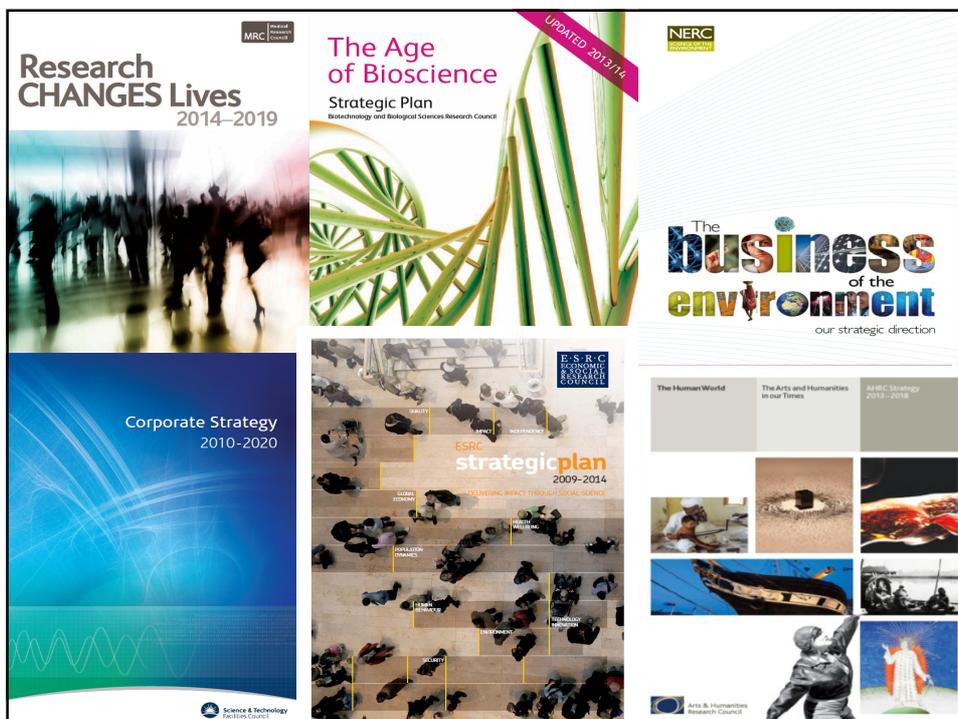
Capable
Ambitious
Networked

Demand and
Opportunities



Scotland CAN DO

- An increase in entrepreneurship and innovation activity from individuals and businesses in Scotland resulting in more businesses being formed and new products and services from existing businesses;
- **More people from all walks of life with the ambition and skills to create, lead and grow successful businesses;**
- An education system with entrepreneurship and innovation at its core, seizing the opportunities presented by Curriculum for Excellence, college reform and the world-leading strength of our universities;
- **More of our knowledge and intellectual capital being commercialised and greatly increased collaboration between business and the academic sector; and**
- A greater focus on, and share of, global markets as our business leaders grow in confidence and expand their horizons internationally.





EPSRC RESEARCH LEADERS

CAPABILITY
IMPACT
FUTURE
SKILLS
CREATIVITY
CHALLENGES
PARTNERSHIP
EXCELLENCE

Ingenious Britain
Making the UK the leading high tech exporter in Europe
A report by James Dyson
March 2010

The Formula for Success
A Strategic plan for the Chemical Sciences in Scotland



Scottish Life Sciences Strategy 2011
Creating Wealth, Promoting Health



2020 Vision



OIL + GAS
STRATEGY 2012-2020



O&G ILG
Oil & Gas Industry Leadership Group

Maximising our Future

National Plan for Industrial Biotechnology
Towards a Greener, Cleaner 2025

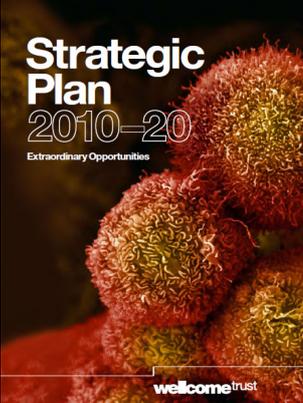


Research Councils UK Strategic Vision

A Review of Business-University Collaboration

Professor Sir Tom Kilburn CBE
February 2012

Strategic Plan 2010-20
Extraordinary Opportunities



wellcome trust

Diabetes UK

Working together towards a future without diabetes and its complications

Research Strategy 2011-2015



BEATING CANCER SOONER
OUR RESEARCH STRATEGY



Let's beat cancer sooner
cruk.org

CANCER RESEARCH UK

A COLLABORATIVE 5-YEAR VISION FOR LEUKAEMIA & LYMPHOMA RESEARCH DRAFT

THE CUNNING PLAN

State of the Innovation Union
Taking stock 2010 - 2014

Reindustrialising Scotland for the 21st Century: A Sustainable Industrial Strategy for a Modern, Independent Nation

LEUKAEMIA & LYMPHOMA RESEARCH
Beating Blood Cancers

Scottish Government Rural Affairs and Environment
Strategic Research Strategy 2011-2016

Scotland
A LAND OF food and drink
Developing our vibrant and dynamic industry - the next chapter

Scottish Promoting it

The Scottish Government

HM Government Industrial Strategy

Eight Great Technologies
Technologies in which the UK is set to be a global leader

Accelerating the commercialisation of technologies

BIS Department for Business Innovation & Skills
Innovation and Research Strategy for Growth
DECEMBER 2011

Accelerating the commercialisation of technologies
www.gov.uk/bis/industrial-strategy #8great



INNOVATE UK

<p>Agriculture & food</p> <p>Built environment</p> <p>Digital economy</p> <p>Emerging technologies & industries</p> <p>Enabling technologies</p> <p>Energy</p>	<p>Health and care</p> <p>High value manufacturing</p> <p>Resource efficiency</p> <p>Space applications</p> <p>Transport</p> <p>Urban living</p> <p>Other areas</p>
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Innovation Scotland

Universities and businesses
working together



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Innovation Landscape

- **Pooling**
- **Interface – Innovation Vouchers – Skills?**
- **Easy Access IP**
- **Innovation Scotland**
- **Alignment with SE and HIE**
- **Innovation Centres**
- **Horizon 2020**



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Aims of Research Pooling

- **Excellence**
- **Critical mass**
- **Competitiveness and Leverage**
- **Facilities**
- **Training**
- **Culture change**



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Northern Research Partnership





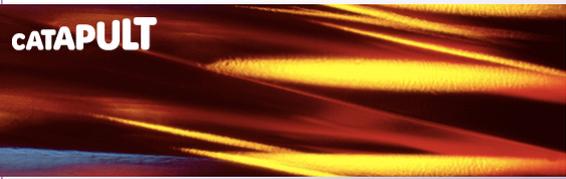









Competitiveness and Leverage



MAX PLANCK INTERNATIONAL PARTNERSHIP







Innovation Centres

Supported by The Scottish Funding Council,
Highlands and Islands Enterprise and
Scottish Enterprise.



