

Influencing the influencers

Beck Smith
Acting Director



Background

The campaign for Science & Engineering (CaSE) is the leading independent advocate for science and engineering in the UK.

Pallab Ghosh, *BBC*

“CaSE is an invaluable resource when I’m covering stories relating to science and engineering”

Gordon Brown

“Let me start by thanking CaSE for its powerful advocacy for science since it started back in 1986 as Save British Science”



Case study 1: Migrant cap

- Coalition Government announced intention to impose annual cap on immigration
- Science and engineering dependent on access to global talent pool
- UK academia and industry would suffer as a result of cap, and already disadvantaged by points-based system for visas

have a degree should also make more visas...the bizarre policy of having a quota of **migrants** per institution.” Mr Khan cautioned...

Image G
Interactiv

Visa quotas ‘will hit research backed by Cameron’, says top scientist

Mark Henderson

The Times | Published: 18 December 2010 | Health News

...t logically make sense. We are shooting ourselves in the foot.” Under the cap, the old Tier 1 visa for highly skilled **migrants** will be abolished and replaced with a new visa for people of “exceptional talent”. This will be capped at 1,000 and...

An unlevel playing field

Mark Henderson

The Times | Published: 04 November 2010 | Eureka

...interim limit of 24,100 skilled non-EEA **migrants**, from this July to next April, it specifically...as new points requirements for skilled **migrants** make it almost impossible for younger researchers...the Government’s aim: scientific **migrants** are no drain on national resources...

Immigration cap threatens cancer research in Britain

Mark Henderson

The Times | Published: 03 November 2010 | Medicine

...cut the number of “Tier 1” visas, for highly skilled **migrants** who do not need a job offer, to 600 a month, and the points...class academics and scientists, but we will no longer admit **migrants** to do jobs that could be done by resident workers.”

Nobel prizewinner Venki Ramakrishnan warns on risks of immigration cap

Mark Henderson

The Times | Published: 06 November 2010 | Politics

...the balance, even though I love the LMB and the UK.” The **migrant** cap, Professor Ramakrishnan said, would discourage...concerned by changes to the Tier 1 visa system for highly skilled **migrants**, who do not need a job offer. The new rules downgrade the...

Visa squeeze hampers recruitment of scientists for leading laboratory



Mark Henderson Science Editor
Last updated October 18 2010 12:01AM

Britain's leading genetics laboratory, which sequenced a third of the

Greg Baillie, a
scientist from New
Zealand

Mary Turner for The
Times

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skilled worker's](#)

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would now be refuse
Tier 1 work visa aft
Britain's immigrati
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October 18 2010

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Keep Britain open to best researchers, say scientists

Nobel winners condemn immigration curbs

Mark Henderson Science Editor

Britain's future as a centre of scientific excellence is threatened by the Government's cap on immigration, Nobel prize-winning researchers warn today.

Eight of Britain's Nobel laureates, including the two Russian migrants who won the physics prize on Tuesday, have written to *The Times* to protest against visa curbs that would keep leading international researchers out of the country. The coalition's plan to

UK must not isolate itself from research

Letter, page 25

Limit migrant numbers from outside the European Union 'would damage

which was a key part of the Conservative election manifesto. In June, ministers imposed an interim cap of 24,100 work visas for non-EU citizens, which will be replaced by permanent measures in April.

Vince Cable, the Business Secretary, has opened a coalition split by raising fears about "huge damage" to business and science. He has been backed by the CBI, the Royal Society and university vice-chancellors.

The laureates' letter also highlights growing tensions between scientists and the Government before the Comprehensive Spending Review, in which the £6 billion research budget is expected to be cut by 15 per cent or more.

The Royal Society has warned that savings on that scale would devastate research and jeopardise growth. Senior scientists say that the cap could worsen the damage by making Britain still less

Cameron's Kitchener moment: 'Your country needs you'

DAVID CAMERON



Roland Watson Political Editor

David Cameron issued a call to arms to the public yesterday to help to build a nation of "doers and go-getters" free from the mess of the deficit crisis and change for ever the way that Britain is run.

Evoking Lord Kitchener, he used his first speech to the Conservative Party conference as Prime Minister to tell Britons: "Your country needs you."

He hinted at pre-election tax breaks even as he braced voters for lost jobs and cuts. Mr Cameron said that he wants to give Britain "a brand new start" and urged people to control their own lives and reshape their communities.

He insisted that his vision of a transfer of power from the State to the individual was not about providing cover for £83 billion of cuts. Instead, he urged people to step forward and seize the moment. "Society is not a spectator sport. This is your country. It's time to step up and own it."

After the conference was rattled by George Osborne's scrapping of child

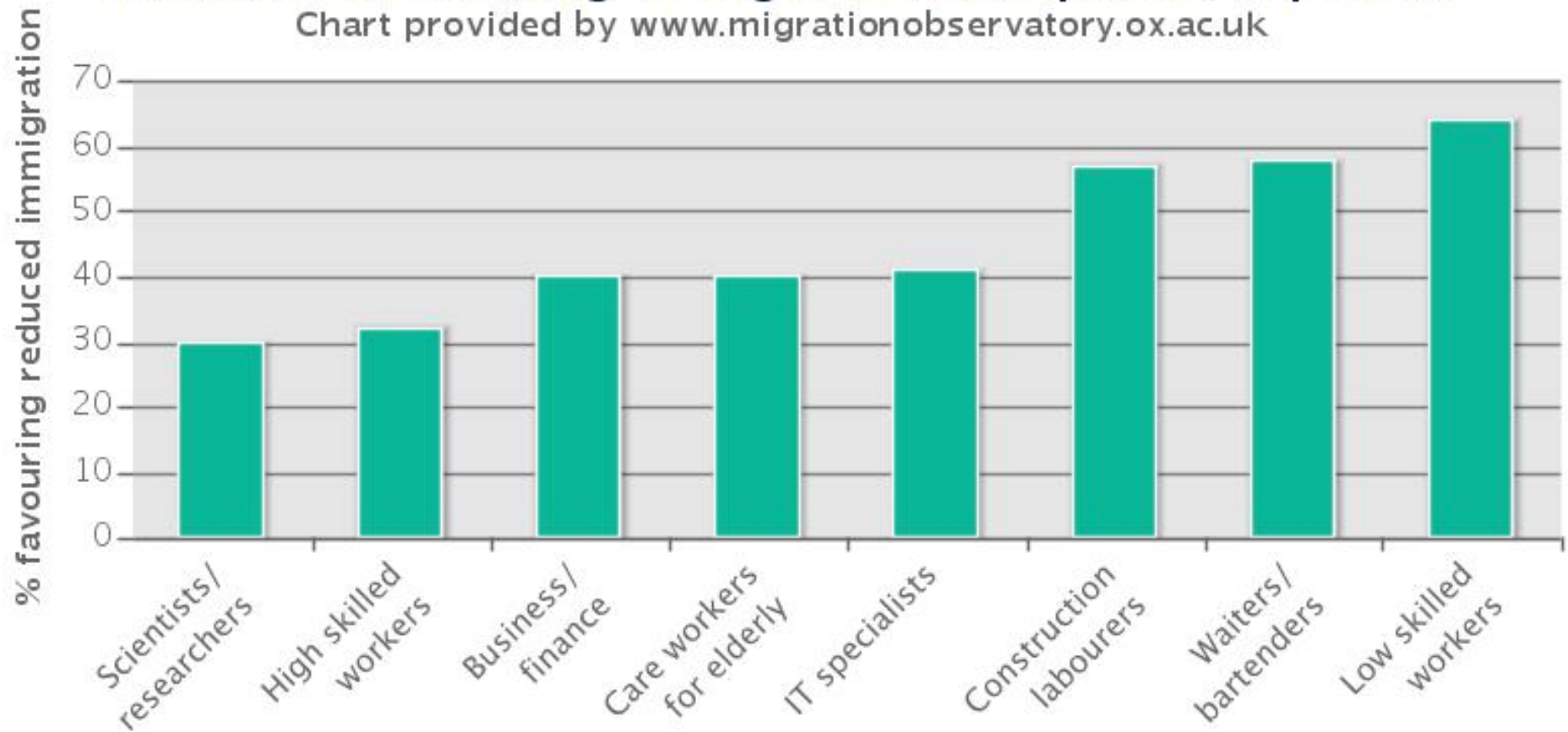
Lord Kitchener on a recruitment poster from the First World War. Mr Cameron evoked him to urge Britons to take control of their lives



benefit for higher-earning households. Mr Cameron sought to reassure

Attitudes to reducing immigration: occupation, Sep 2011

Chart provided by www.migrationobservatory.ox.ac.uk



"For each of the following groups of migrant workers, tell us whether you think immigration should be reduced, increased, or kept the same."

 All respondents (n=985 weighted)

Source : Migration Observatory/Ipsos MORI, 2-8 Sep 2011. See table 9, Appendix A

What's happened since?

In Tier 2 alone:

- New visitor category introduced
- Resident Labour Market Test liberalised for PhD level jobs
- Employees in PhD level jobs exempt from requirement of earning at least £35,000 to qualify for settlement
- Migration Advisory Committee advised against its introduction of the 'sunset clause'

What happens next...?

Case study 2: Funding

Prior to the last Spending Review, the Royal Society outlined three possible scenarios for the future of research funding:

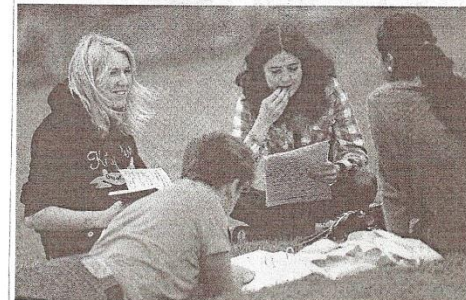
"One was constant cash, which is a substantial cut in real terms, and we felt that in a number of ways one could accommodate that; 10% cash cut we called 'slash and burn'; 20% cuts we headed 'game over' - that would irreversibly destroy the UK's potential as a leading scientific nation."

Professor Martin Rees

University cuts will jeopardise Britain's economic future

Science Funding

“The UK has an opportunity to drive future economic growth through science and engineering... [it needs to invest] in education and public sector research, so that highly skilled graduates and technicians in science, technology, engineering and mathematics are nurtured in the UK.”



British universities are essential in providing business with a skilled workforce

development and employs 150,000 people. Our companies are careful about where they invest. We value the scientific and engineering talent that flows from the UK's world-class universities and publicly funded research base, and how the tax regime supports research and development investment.

Scientists, engineers, and multinational companies will focus their pursuits in countries with the most favourable intellectual, financial and political environments.

High-skills industries are where the future lies. Demographic and socio-economic change in the EU and beyond means that this country will continue to become less

Sir, The UK's private sector invests £16 billion in research and

competitive in low-skilled sectors. Our competitor nations recognise these trends and are rapidly investing in high-tech infrastructures.

The UK has an opportunity to drive future economic growth through science and engineering. To do so, the Government needs a clear, strong and long-term strategy for making the UK the most attractive country for companies to conduct research and development. This includes investing in education and public sector research, so that highly skilled graduates and technicians in science, technology, engineering and mathematics are nurtured in the UK.

Such a stable and positive policy environment would give private research and development investors the confidence to undertake long-term projects here, helping to grow the UK's economy into one that is truly modern and innovative, with strength and security from a diversity of sectors.

DR MIKE BUSHELL
Principal Scientific Adviser, Syngenta

JANE CANNON
Group managing director, Lockheed Martin UK

DR MENE PANGALOS
Executive vice-president innovative medicines, AstraZeneca R&D

DR DAVID ROBLIN
Senior vice-president, R&D, Pfizer

NEIL SCOTT
Vice-president, engineering, Airbus UK

DR PATRICK WALLACE
Senior vice-president, drug discovery, GlaxoSmithKline

DR CHRIS FRANCIS
Government programmes, IBM

*-Airbus UK,
AstraZeneca, GSK,
IBM, Lockheed
Martin, Pfizer,
Syngenta*

CaSE 
Campaign for Science
and Engineering



Science is Vital

**Banks
don't cure
disease**

Science is Vital
**Do the
maths.
Science =
Growth**

**CUT
BONUSES
NOT
BOFFINS**

Science:
More useful
than
Don't Turn Out the Lights

No more
Dr Nice

Science
akes

N
D

SCIENCE
NOT
CT

The 2010 Spending Review

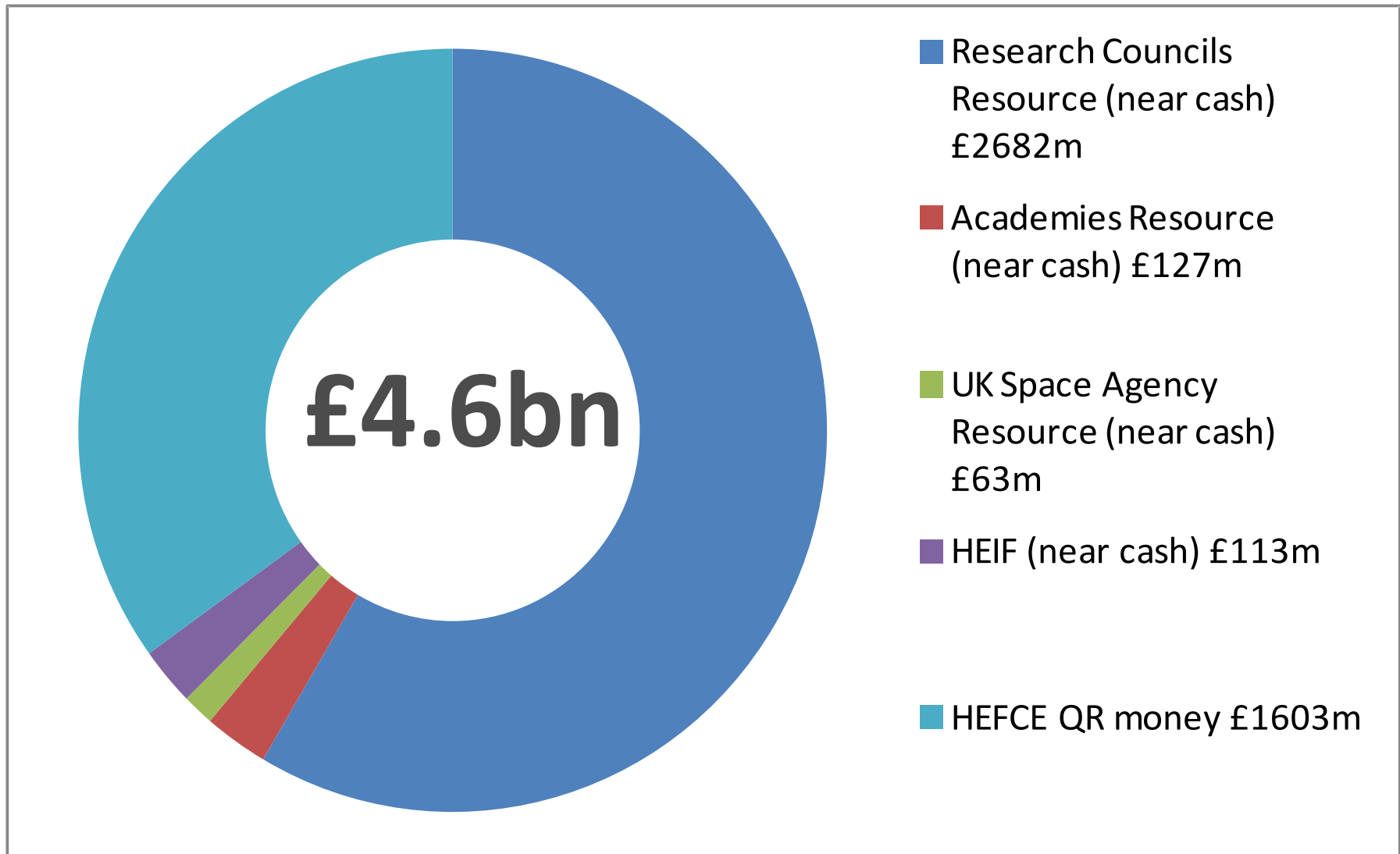
“When money is short we should ruthlessly prioritise those areas of public spending which are most likely to support economic growth, including ... our science base and the skills and education of citizens”

Chancellor’s speech

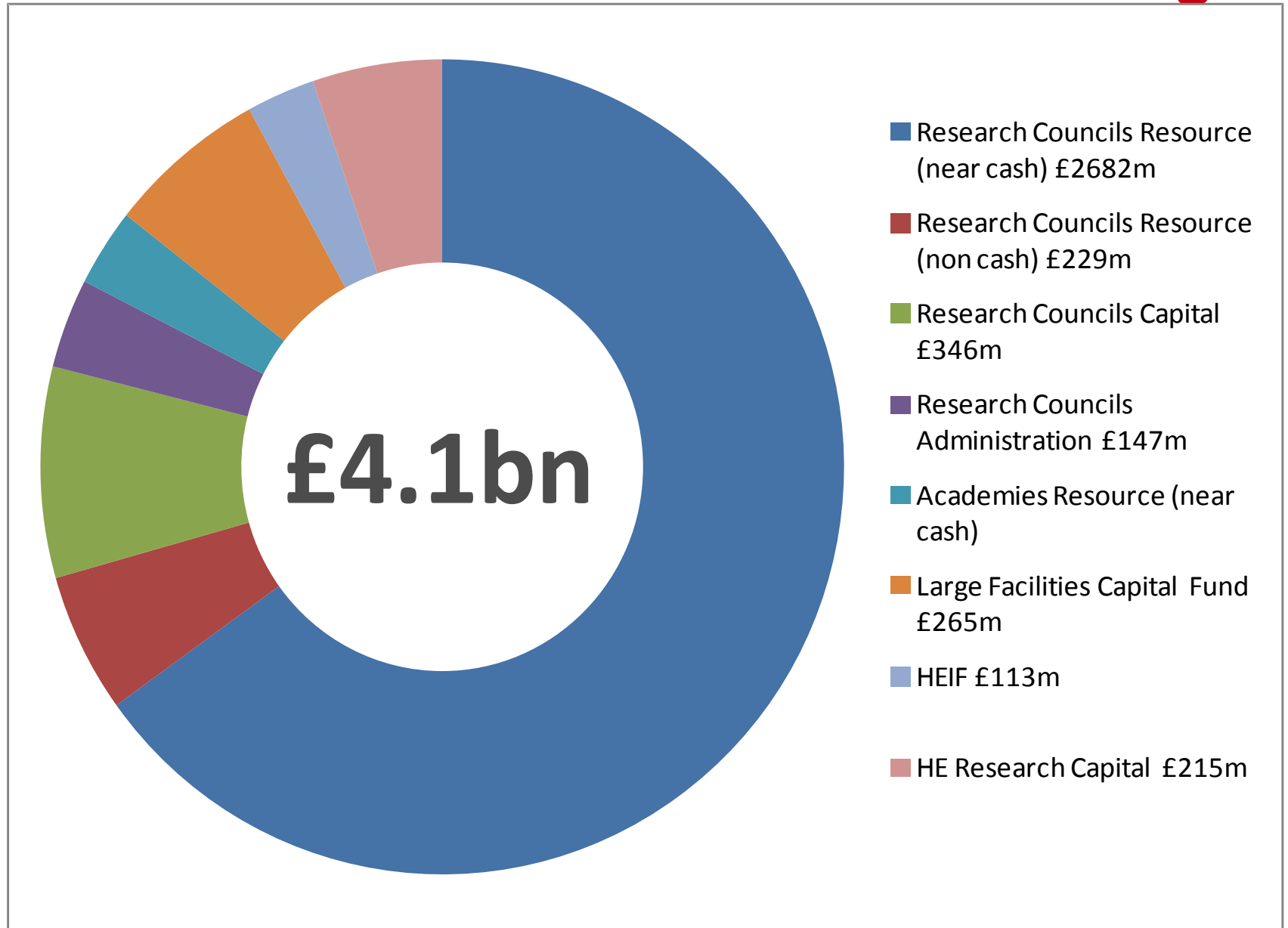
2010 Spending Review



The Coalition Government's Science Budget



The Labour Government's Science Budget



BEFORE SR2010

Included Capital

Excluded Funding Council
QR money



AFTER SR2010

Excluded Capital

Included Funding Council
QR money

Included UK Space Agency



So, capital is out in the cold and spending is going to decrease by nearly 46% over the course of the spending review.

What has CaSE done since SR10?

Was Science Investment Really Protected?

By NICK HALL | Published: 13/09/2011

New analysis by CaSE has revealed an alarming decline in UK science and engineering funding, despite political pledges to protect such investment.

CaSE's paper ([Public Funding of UK Science and Engineering: Putting Government Rhetoric to the Test](#)) shows that by 2014-15 the research base will be £1.7bn worse off, in cash terms, as a result of funding decisions taken since the Spending Review last year. Inflation will lead to a further erosion of investment available for science and engineering.



Sign the 4Growth petition

The Government is about to receive up to £4bn from the upcoming 4G spectrum auction. We need your help in arguing that the money, which is a return on past generations' investment in science and technology, should be reinvested in helping the UK become a growing, high-tech economy.

“ *It's absolutely true without investment in people like Marconi and Berners-Lee we wouldn't have the technologies we take for granted today... CaSE and Nesta's report is an important and illuminating contribution to the debate on industrial strategy. ([Michael Heseltine](#))*

theguardian

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Isis laboratory funding shortfall 'damaging UK's research standing'

Scientists say lack of annual £3m for running costs means £400m facility is under-used

Ian Sample, science correspondent
The Guardian, Sunday 27 November 2011 16.14 GMT

[Jump to comments \(35\)](#)



IT'S 4G GROWTH

The forthcoming CSR

- Another year of flat cash seems likely – but by no means certain
- Still facing a considerable shortfall in capital
- Need for evidence to show both return on investment and impact of cuts
- CSR campaign will lead directly into a focus on the manifestos



How can we work together?

- Help us to develop the necessary evidence base
- Continue to focus on the 'size of the cake'
- Attend the CaSE cross party debate on science and engineering on 30th April at The IET

Thank you

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