

UNITED KINGDOM

KOOPERATIONSMÖGLICHKEITEN UND ZUGANG ZU EUROPAS DICHTESTER WISSENSLANDSCHAFT

DR. PETER PESL

AUSSENWIRTSCHAFTSCENTER LONDON



AUSTRIA IST ÜBERALL.



...OUTLINE

- UNIVERSITÄTS- UND FORSCHUNGLANDSCHAFT UK
- BREXIT
- ZUGANG
- WIE WIR HELFEN KÖNNEN

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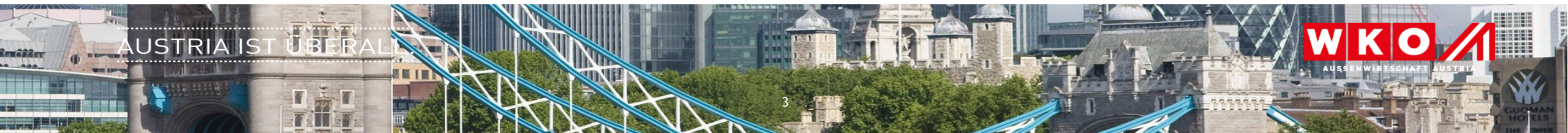
... EIN ÜBERBLICK

- > 130 Universitäten
 - Independed & Self-Governing
 - 3 Universitäten in Top 10
 - Fokus auf Naturwissenschaften

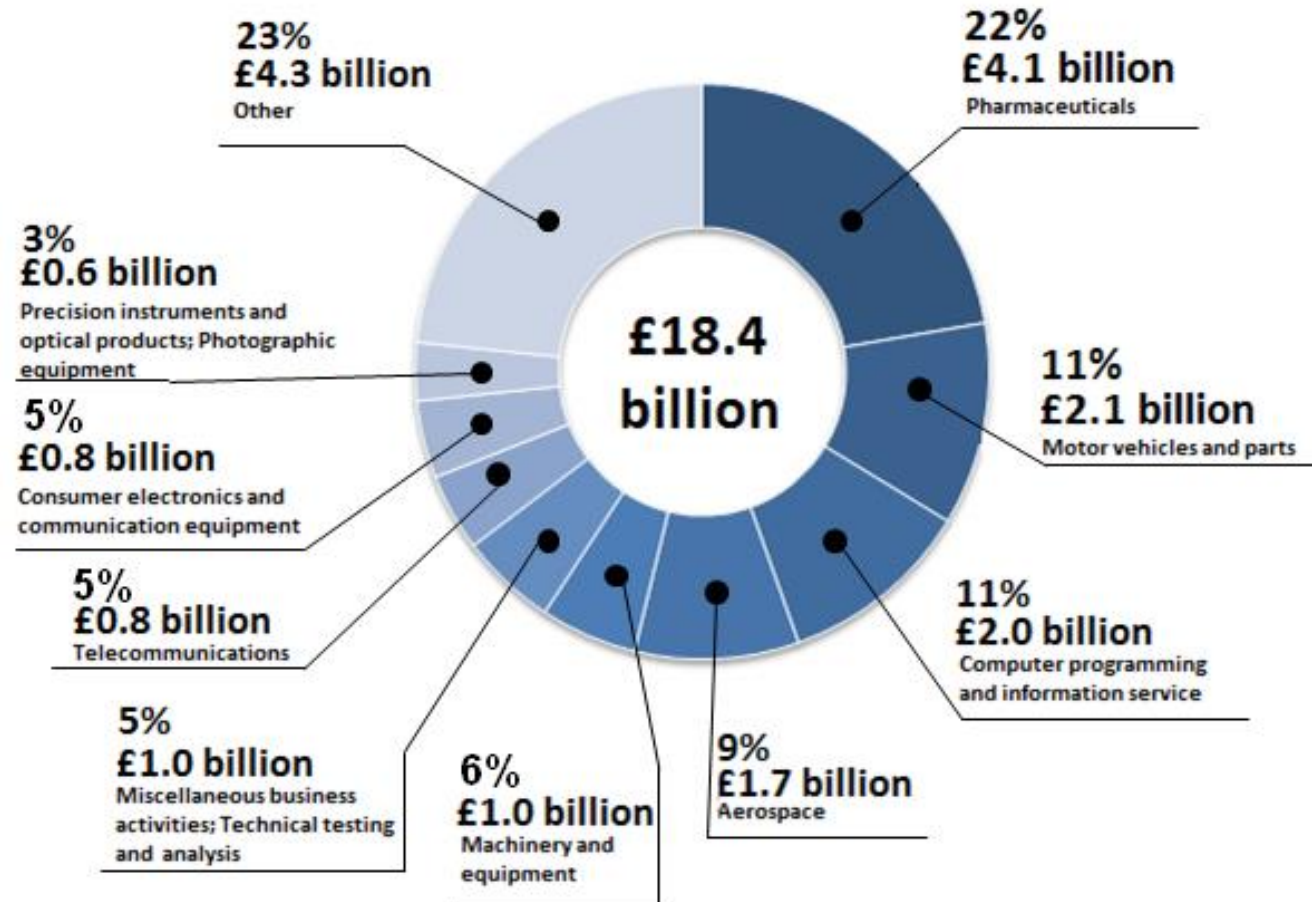
- 7 Research Councils
 - Engineering, Medicine, Science, Arts
 - Science Policy
 - Funding

- 10 Catapult Centres
 - R&D through business-led collaboration
 - Each catapult focuses on specific sector (Digital Catapult, Energy Systems,...)

| Rank 2018 | Institution | Country/region |
|-----------|---|----------------|
| 1 | University of Oxford | United Kingdom |
| 2 | University of Cambridge | United Kingdom |
| -3 | California Institute of Technology | United States |
| -3 | Stanford University | United States |
| 5 | Massachusetts Institute of Technology | United States |
| 6 | Harvard University | United States |
| 7 | Princeton University | United States |
| 8 | Imperial College London | United Kingdom |
| 9 | University of Chicago | United States |
| -10 | ETH Zurich - Swiss Federal Institute of Technology Zurich | Switzerland |



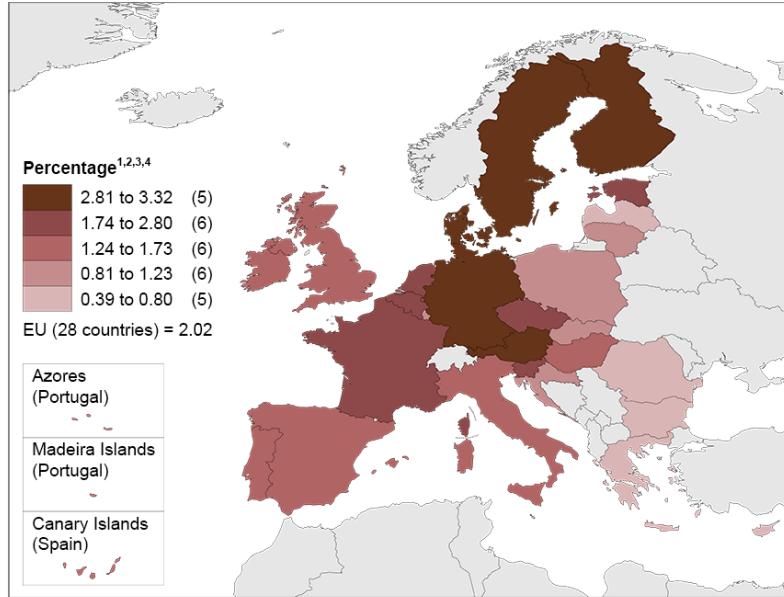
... WORAN WIRD GEFORSCHT?



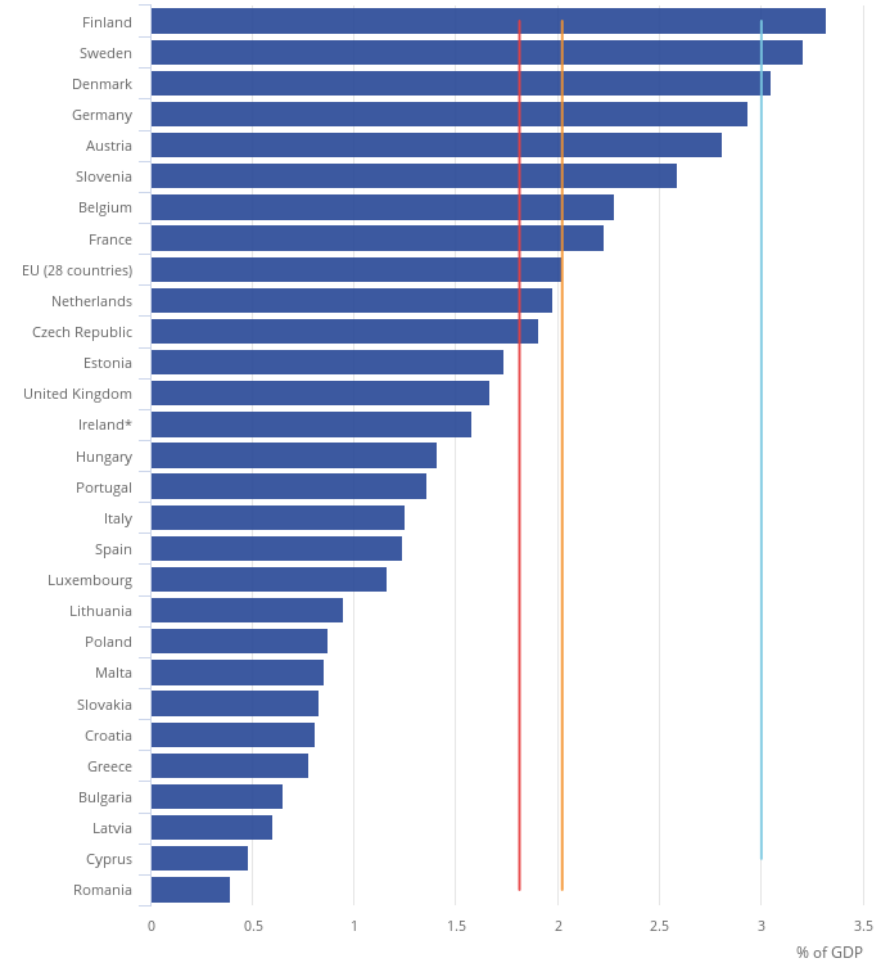
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... FALLING BEHIND?

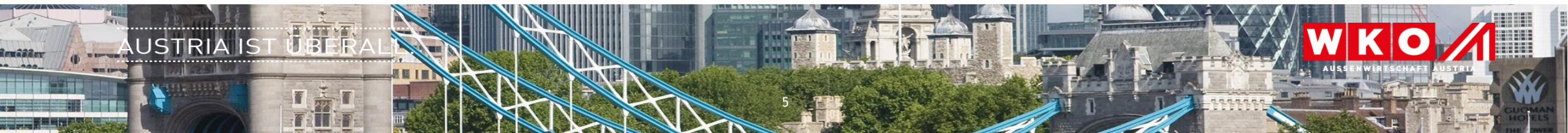
GERD to GDP ratio as a percentage (R&D intensity) by country, European Union (EU-28), 2013



1 Gross Domestic Expenditure on Research and Development (GERD) includes expenditure on research and development (R&D) in business, higher education, government and private non-profit organisations.
2 GERD is divided by Gross Domestic Product (GDP) and multiplied by 100 to express the ratio as a percentage. The GERD to GDP ratio is a relative measure of a country's investment in R&D.
3 Data for Ireland are shown for 2012.
4 Data are included for all of the EU-28 countries. Croatia joined the European Union on 1 July 2013.
Source of data: Eurostat
Source of boundaries: UNEP (2011): UNEP Environmental Data Explorer. United Nations Environment Programme. <http://geodata.grid.unep.ch>.



Source: Eurostat



... UND DANN KAM BREXIT

Imperial College London

Peisl, Peter

eeep Move to Categories Undo

From: President
Sent: 24 June 2016 07:53
To: Imperial College Staff <ic-staff-dl@imperial.ac.uk>; Imperial College Students <ic-students-dl@imperial.ac.uk>
Subject: EU Referendum

Dear staff and students,

Imperial is, and will remain, a European university, whatever your view of the referendum outcome. We are very proud of the innovations, ideas and inspiration that come from the European members of Imperial's global community.

We are determined that political changes will not hold Imperial back from delivering excellence in research and education for the benefit of global society. We will vigorously defend our international values if they are threatened and will continue to think and act internationally.

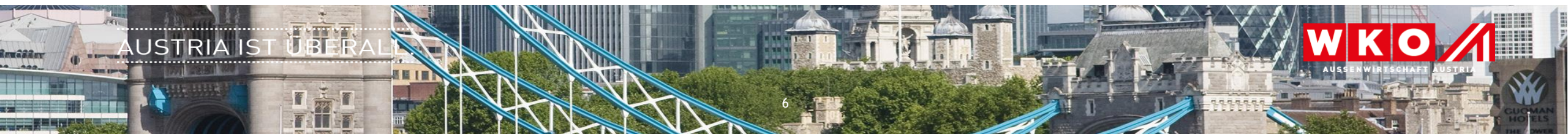
Our European students, staff and partners are crucial to the current and future success of this great university, and we look forward to continued strong ties with Europe and the world over the coming years.

We are urgently seeking clarification from the government on the visa and fee status of non-UK European Union students, as well as other key policy areas for the College as the UK negotiates its future relationship with Europe.

We will update the community, and especially those who may be affected, as we learn more.

Best wishes,

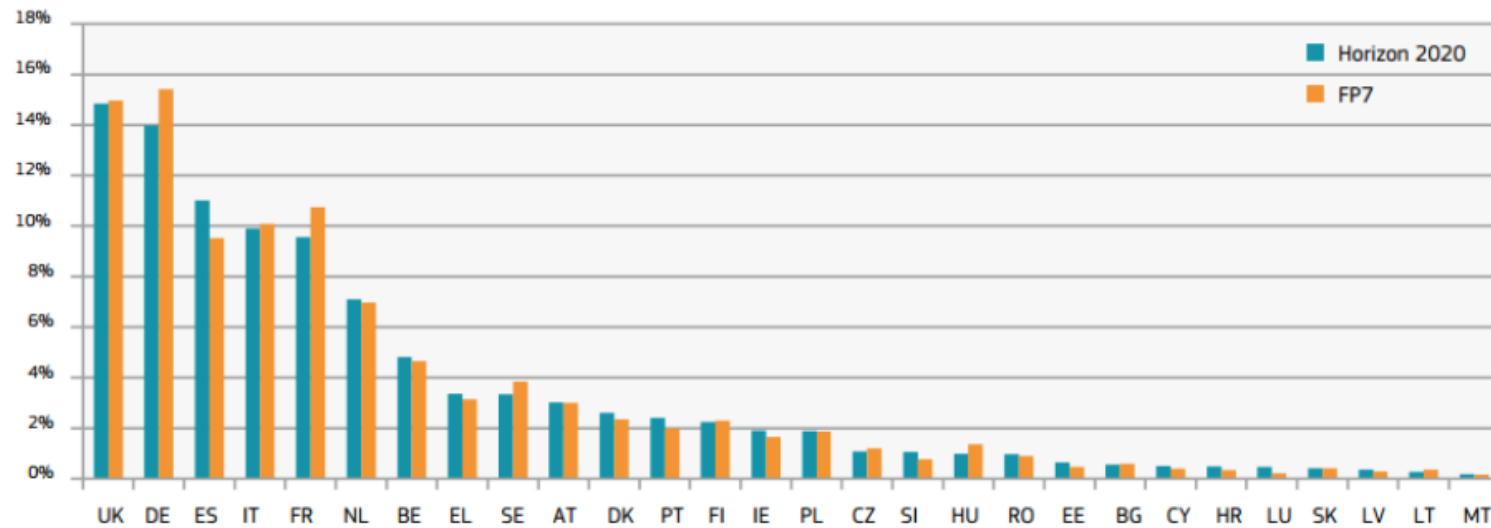
Professor Alice P. Gast
President



... ALL ABOUT THE MONEY?

What is each Member State's share of signed grant agreements?

Share of participations in signed grant agreements per EU Member State: Horizon 2020 compared with FP7

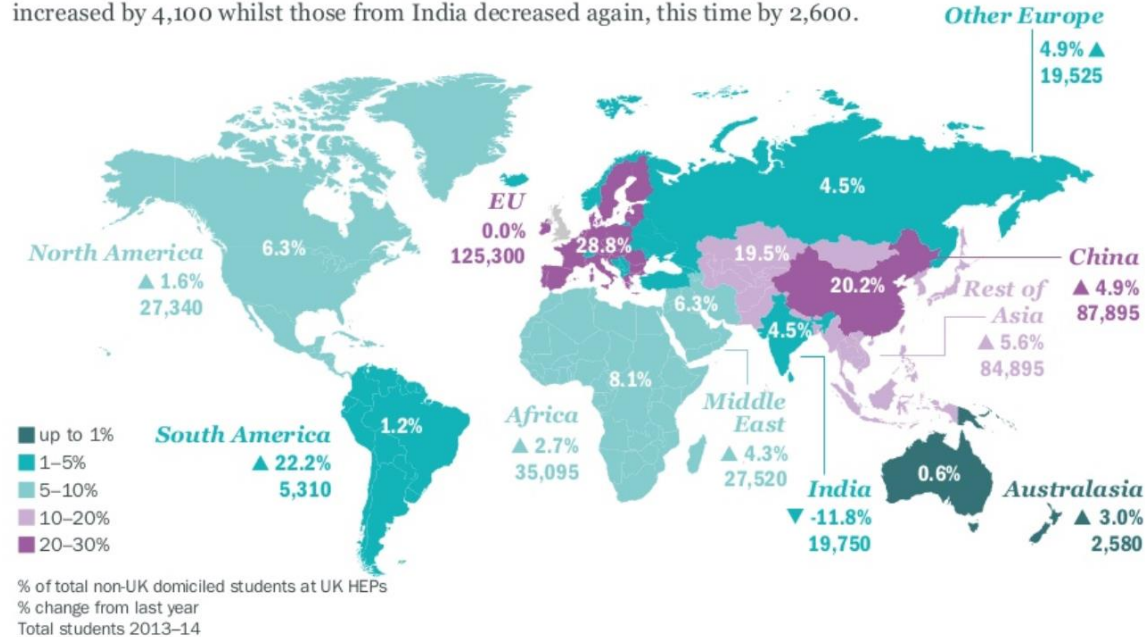


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... AND THE PEOPLE ?

HOME COUNTRY OF INTERNATIONAL STUDENTS AT UK HIGHER EDUCATION PROVIDERS, 2013-14

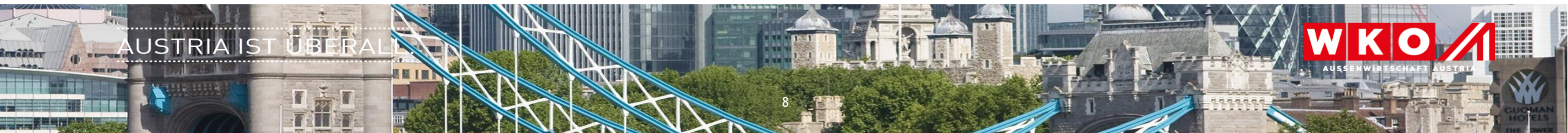
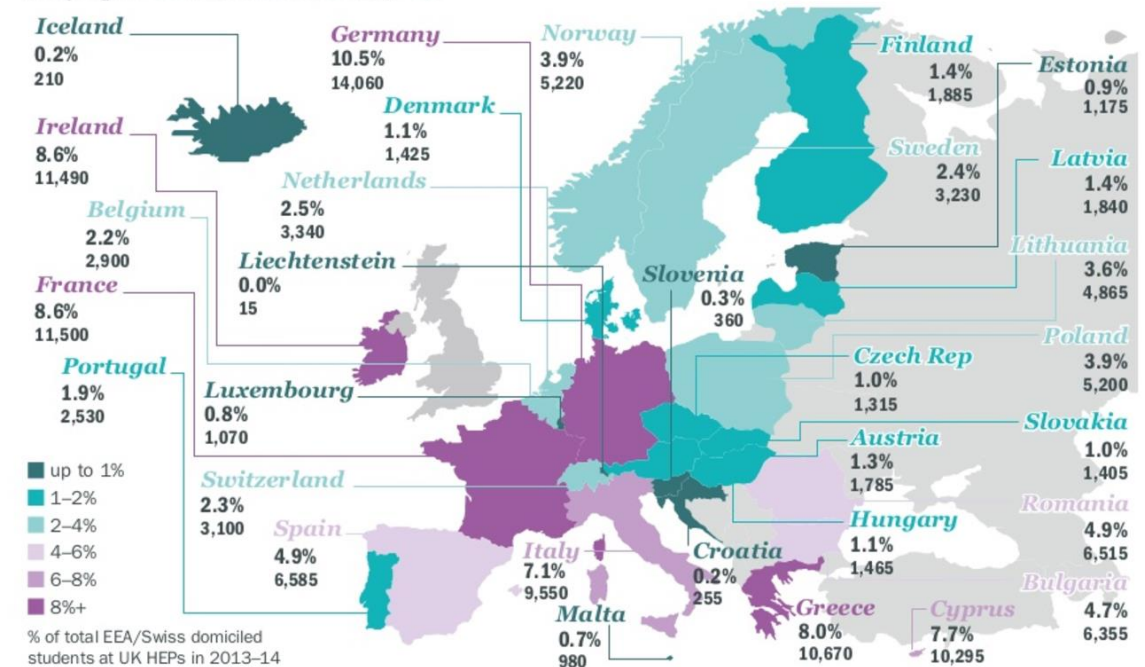
The number of international students in the UK increased between 2012-13 and 2013-14 by 2%. Students from China made up 20% of all international students and those from India made up 5% in 2013-14. The number of students from China increased by 4,100 whilst those from India decreased again, this time by 2,600.



20% of academics in engineering from EU

HOME COUNTRY OF EUROPEAN ECONOMIC AREA STUDENTS AT UK HIGHER EDUCATION PROVIDERS, 2013-14

There were 133,845 students from the EEA and Switzerland studying in UK universities in 2013-14.



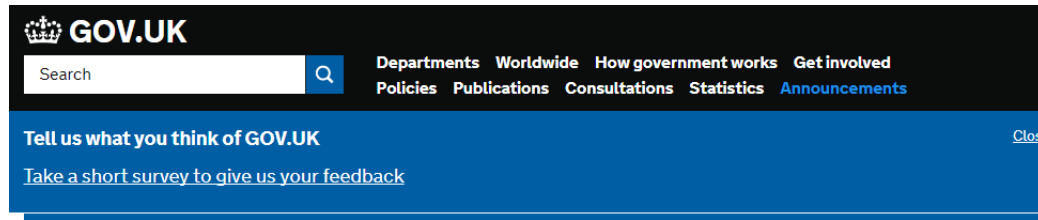
...PLANEN, PLANEN, PLANEN

- Aber für was?
- UK will Status als Zentrum für Spitzenforschung bekräftigen
- Maßnahmen von Universitäten und Regierung

Key points

- **Ease of movement is a prerequisite for accessing the best global talent.** Clarity is needed on the status of EU researchers currently in the UK, while provision for longer term access to knowledge and skills is important for the UK to maintain its global position in research.
- **But perceptions of the UK research 'brand' are also important.** To remain an attractive research partner, the UK's research brand must be preserved, both in terms of pursuing research excellence and in maintaining an open and international outlook.
- **Maintaining access to EU Framework Programmes is considered to be the best option, but an early 'plan B' should also be developed,** based on optimising access to knowledge/skills and funding/infrastructure. The opportunity should be taken to consider the costs and benefits of different forms of international engagement.
- **Funding UK research domestically is not as straightforward as simply providing money.** While maintaining access to funding is important in absolute terms, providing this through a national channel would need a strategic, sector-wide approach, with a careful consideration of incentives, and is crucial for attracting talent.
- **Investing in unique infrastructure would strengthen the UK's international offer.** This could encourage collaboration and attract talent to the UK.
- **Developing bilateral agreements is likely to be useful,** regardless of access to EU programmes. Under such agreements, collaboration could be facilitated (if necessary) by either also funding the other partner country or at least avoiding 'double jeopardy' through, for example, a coordinated application process.

...ON THE BRIGHT SIDE



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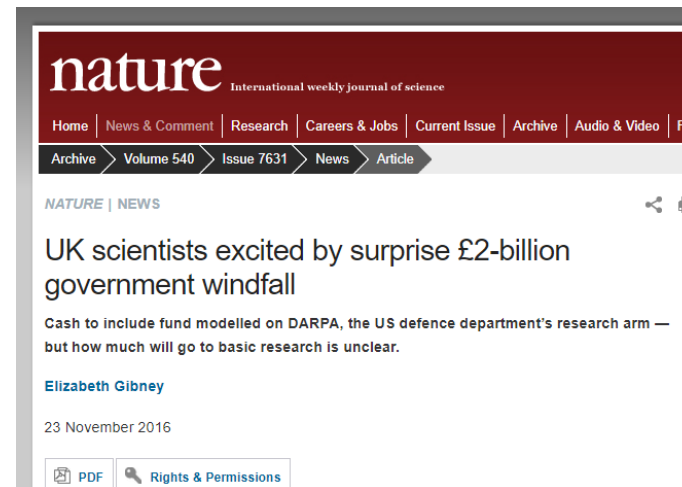
Autumn Statement – Boosting UK Research & Innovation

From: [British Embassy Tokyo and UK Science & Innovation Network in Japan](#)
Part of: [Japan](#)
Published: 16 December 2016

Boost for science, research and innovation partnerships from UK Chancellor's Autumn Statement; 20% increase in government R&D investment by 2020-21



The Chancellor's Autumn Statement set out a number of measures relating to science, research and innovation, including an increase in government investment in R&D by £2 billion a year by 2020-21, a total of £4.7BN new money. This funding is part of a £23BN National Productivity Investment



...KOOPERATIONEN? YES, PLEASE - WE NEED YOU

- Universities
 - International Offices
 - Enterprise Labs
- Research Councils
 - Joints-Grants
 - Travel
 - Workshops
 - Networks
- R&D Labs
 - Multicenter Labs
 - E.g. EMBL-EBI

April 2017

INTERNATIONAL RESEARCH COLLABORATION AFTER THE UK LEAVES THE EUROPEAN UNION
A report from Digital Science Consultancy for Universities UK
Jonathan Adams

SUMMARY OF KEY POINTS

1. **International collaboration is integral to creating world class research with impact.**
International collaboration is increasingly synonymous with excellent research. Working internationally enables individual academics to increase their impact and nations to pool talent and resources to address global challenges that no country can tackle alone.

Research shows that international research collaboration is also vital for individual institutions that aim to produce outstanding research, and that the increase in such collaboration has been very rapid indeed.

International collaboration increases citation performance because combined talents produce more innovative and useful outcomes. The global reach of the UK's universities is therefore a source of strength that increases the quality and efficiency of the UK's national research base.

Imperial College London

Study Research & Innovation Be Inspired About

Strategy 2015-2020

Partners

Collaboration

We will strengthen collaboration with non-profit, healthcare and government globe

EPSRC
Engineering and Physical Sciences Research Council

FUNDING RESEARCH INNOVATION SKILLS NEWS, EVENTS AND PUBLICATIONS

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EPSRC funding for International collaboration

As well as acting to further UK researchers' involvement in EU research programmes, we work proactively with partners in China, India, Japan and the US in targeted joint funding initiatives. In line with RCUK strategy to promote collaboration between the best UK and overseas researchers, these four countries are prioritised either because they are historically strong in engineering and the physical and mathematical sciences, or else they are rapidly growing their capabilities in

RESEARCH COUNCILS UK

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Funding international collaboration

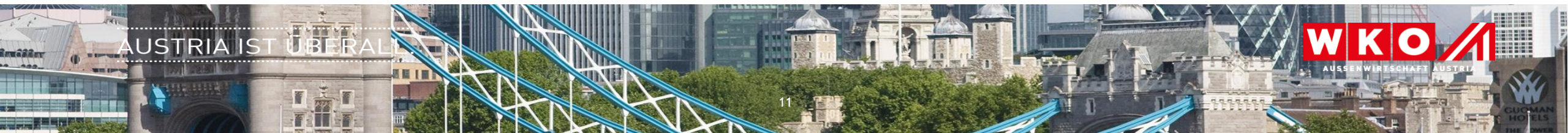
RCUK/DFID Concordat

RCUK/FNR Statement of Intent

The G8 Research Councils Initiative on Multilateral Research Funding

RCUK/FAPESP Memorandum

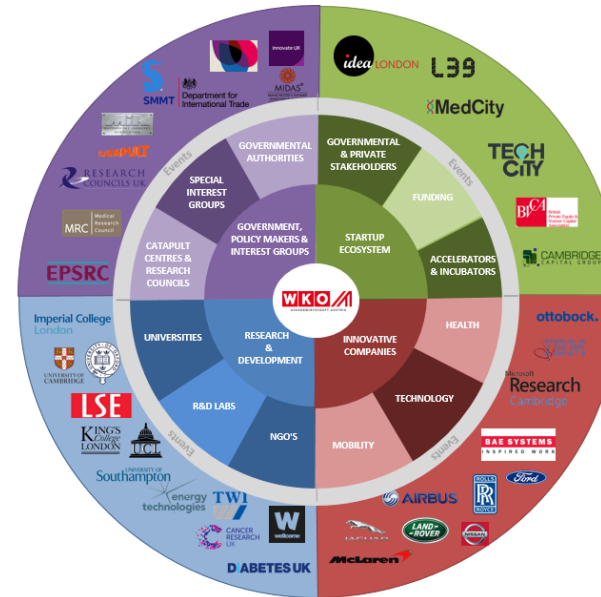
RCUK aims to make it simpler for UK researchers to col their preferred research partners around the world, by st enabling activities and reducing barriers.



...WIR HELFEN GERNE

- **NETZWERK**
 - Partnersuche
 - Kontakte
 - Beratung und Unterstützung zum Zugang
- **WISSEN**
 - Forschungslandschaft
 - Innovation
 - Reporte
 - Kultur/Mentalität
- **PLATTFORMEN/EVENTS**
 - Besuch von Forschungseinrichtungen vor Ort
 - Workshops (z.B. Brexit)

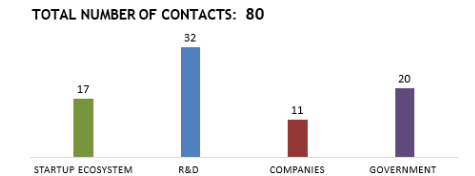
UK Stakeholder Map 2017



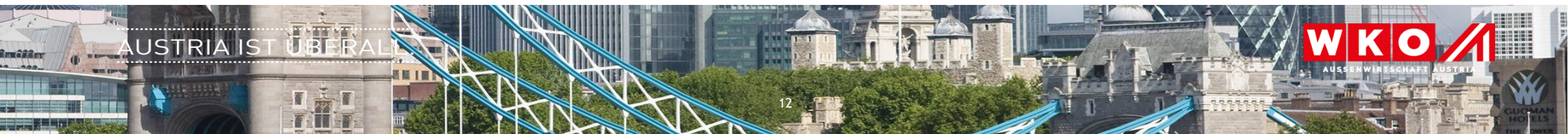
UK Stakeholders - Organisations



UK Stakeholders - Individual Contacts



Besuch Imperial College & Data Science Institut mit österr. Delegation im November 2017



AUSTRIA IST ÜBERALL.



Über Ihre Fragen freuen wir uns!

DR. PETER PESL
HEAD OF TECHNOLOGY AFFAIRS
AUSSENWIRTSCHAFTSCENTER LONDON
T +44 (0) 20 7584 4411
E london@wko.at
W wko.at/aussenwirtschaft/gb

