Challenges in International Mobility in Higher Education
Panel session

Chicago, May 1, 2012
Dr Nick Fowler, Managing Director, Academic & Government Institutions
Elsevier: global leader in Science and Health information

- Founded 130+ years ago
- Serving 30 million+ scientists, students, health and information professionals in 180+ countries
- 2,000 E journals, 2,000 E books each year, dozens of research databases
- 7,000 employees in 25 countries
Each year
- 800,000 manuscripts submitted to 2,000 Elsevier journals
- 300,000 articles published
- 600 million digital article downloads delivered to 10 million researchers
- 30 million article citations tracked and counted by Scopus (18,000+ journals)
- Terabytes of data: SciVal analytical tools
Scopus and SciVal inform national research assessments and policies

- Sole citation data service provider for UK’s national Research Excellence Framework assessment program, 2014

- Data, analyses, insights: Knowledge Networks and Nations Royal Society, 2011

- Sole citation data service provider for national Excellence in Research for Australia assessment program, 2012

- Data, analyses, insights: International Comparative Performance of UK Research Base, UK Government (BIS), 2011
### Elsevier report for UK government (BIS): inputs

**Quantitative**

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<tr>
<th>Scopus</th>
<th>20MM+ articles, 200MM+ citations, 3B downloads</th>
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<td>ScienceDirect usage</td>
<td>45MM indicator values</td>
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<td>OECD</td>
<td>Largest indicator: 6MM+ values</td>
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**Qualitative**

- 31 UK researcher interviews
- 3 workshops, 7 organisations, 18 attendees
Key finding: UK research is highly efficient and productive

Output per $Million Gross Expenditure on R&D (GERD)

- Articles per GERD: UK: 1st among comparators, 3.84 articles per $Million GERD
- Citations per GERD: UK: 1st among comparators, 108 citations per $Million GERD
International mobility of researchers is a key driver of UK’s success

Returnee Researcher = 2 or more years abroad.
Transitory Researcher = less than 2 years abroad.
International mobility of researchers: where’s the beef?
International mobility of UK researchers drives international collaboration.

The UK’s rate of international co-authorship is high and rising.

This is good news, because internationally collaborative articles are associated with significantly higher publication impact.

- 46% of UK authored-articles were co-authored with a non-UK researcher in 2010

- UK ranks 2nd only to France in the comparator group by levels of international collaboration.
International collaboration map

Data source: Scopus
UK’s internationally collaborative articles raise UK’s publication impact

Data source: Scopus
Global Research: tectonic shifts

Global share of R&D increased 2006-2011

Global share of R&D decreased 2006-2011
Projected publication share, 1996 - 2020

Data source: Scopus
Universities globally: rough sailing, increasingly competitive

International mobility of researchers and associated benefits of international collaboration enable universities to leverage their spending and resources to perform more effectively in an increasingly competitive global research landscape.
Summary

1. Quality information
2. Quality research
3. Quality of life