ELSEVIER

UK Research Excellence, Collaboration and Brain Circulation: Adding to the Evidence

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A unique vantage point

Publishing industry, per year:

>3M	articles submitted
300,000	peer reviewers
>1.5M	articles published
30M	readers
2BN	digital article downloads
30M	article citations

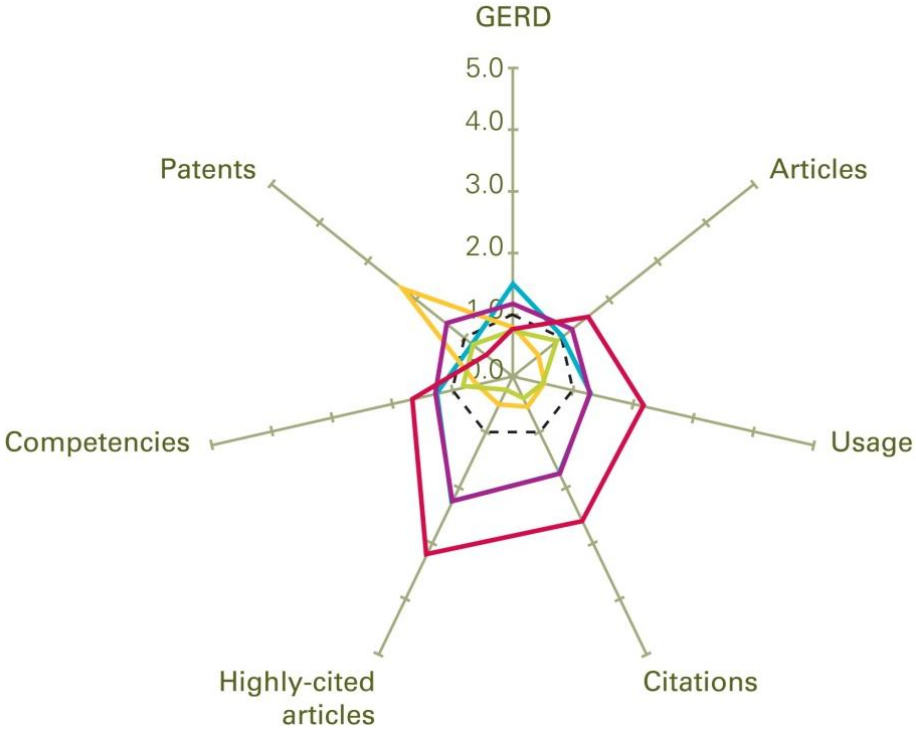
International Comparative Performance of the UK Research Base - 2011

A report prepared for the Department of Business, Innovation and Skills.

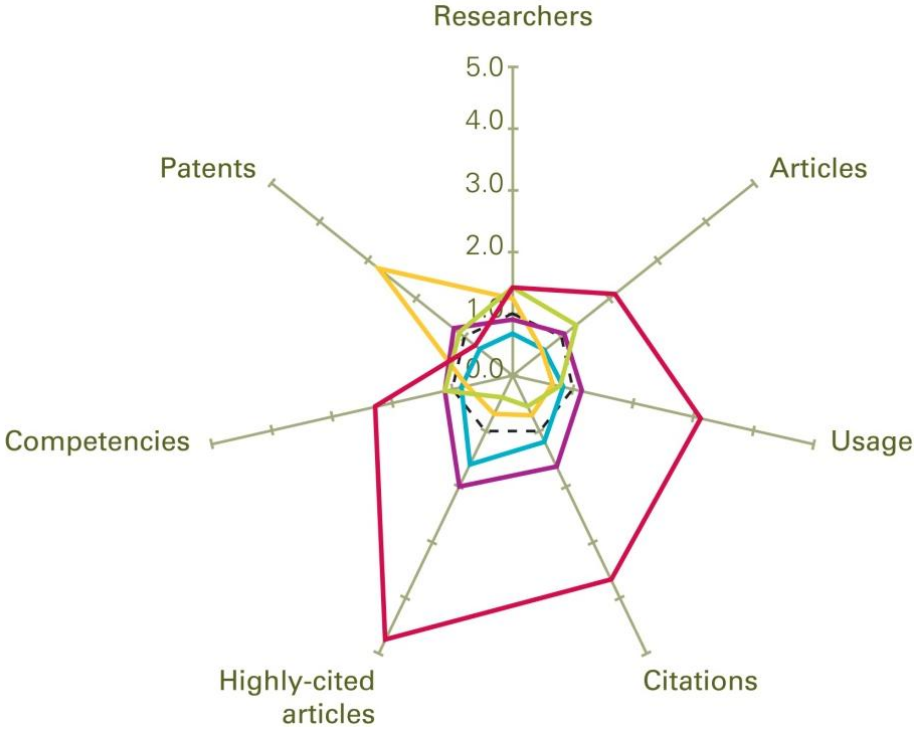
Scopus

UK research is world-class

Per researcher:



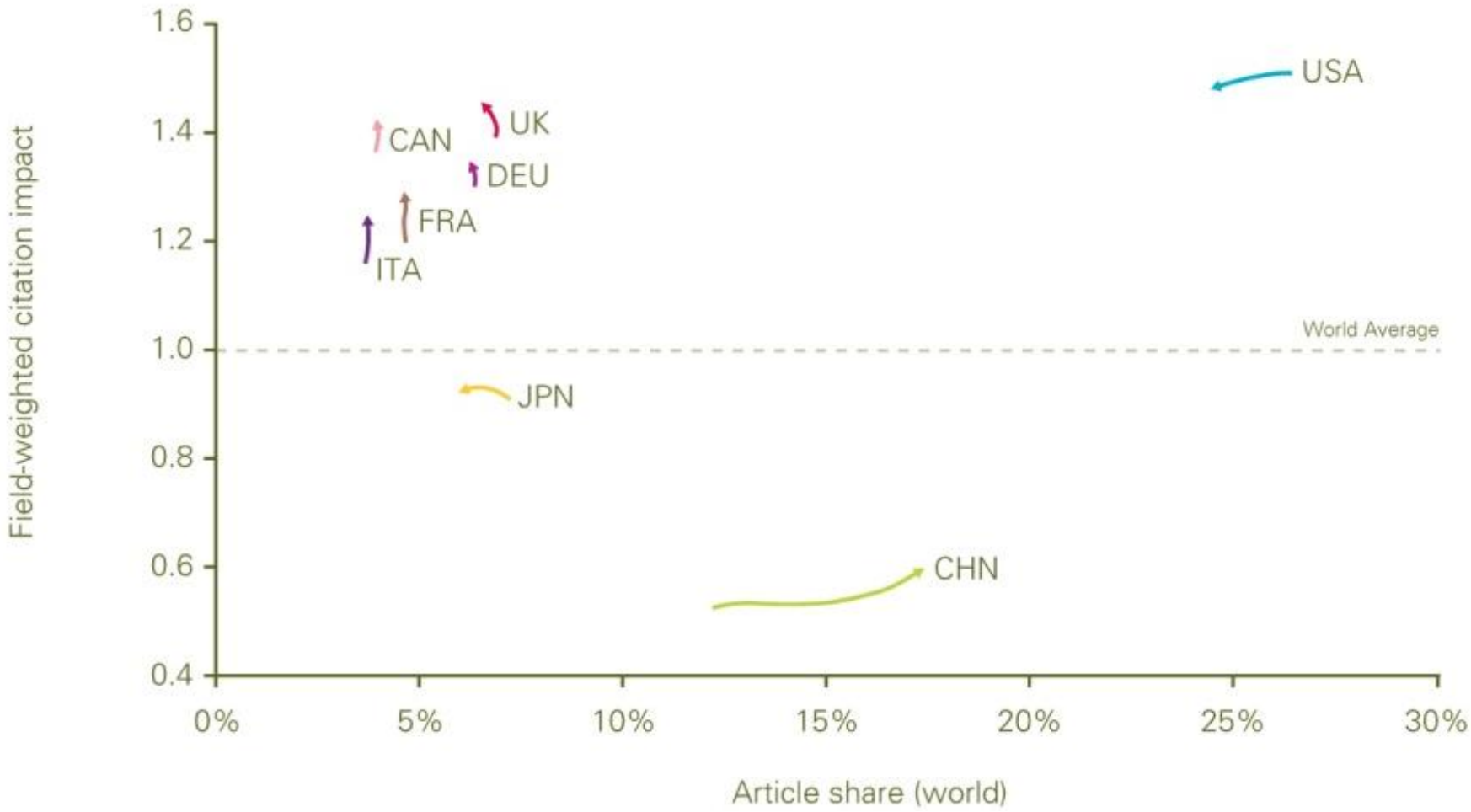
Per unit GERD:



- UK
- China
- Germany
- Japan
- USA
- World Average

Scopus

UK research is world-class



Scopus

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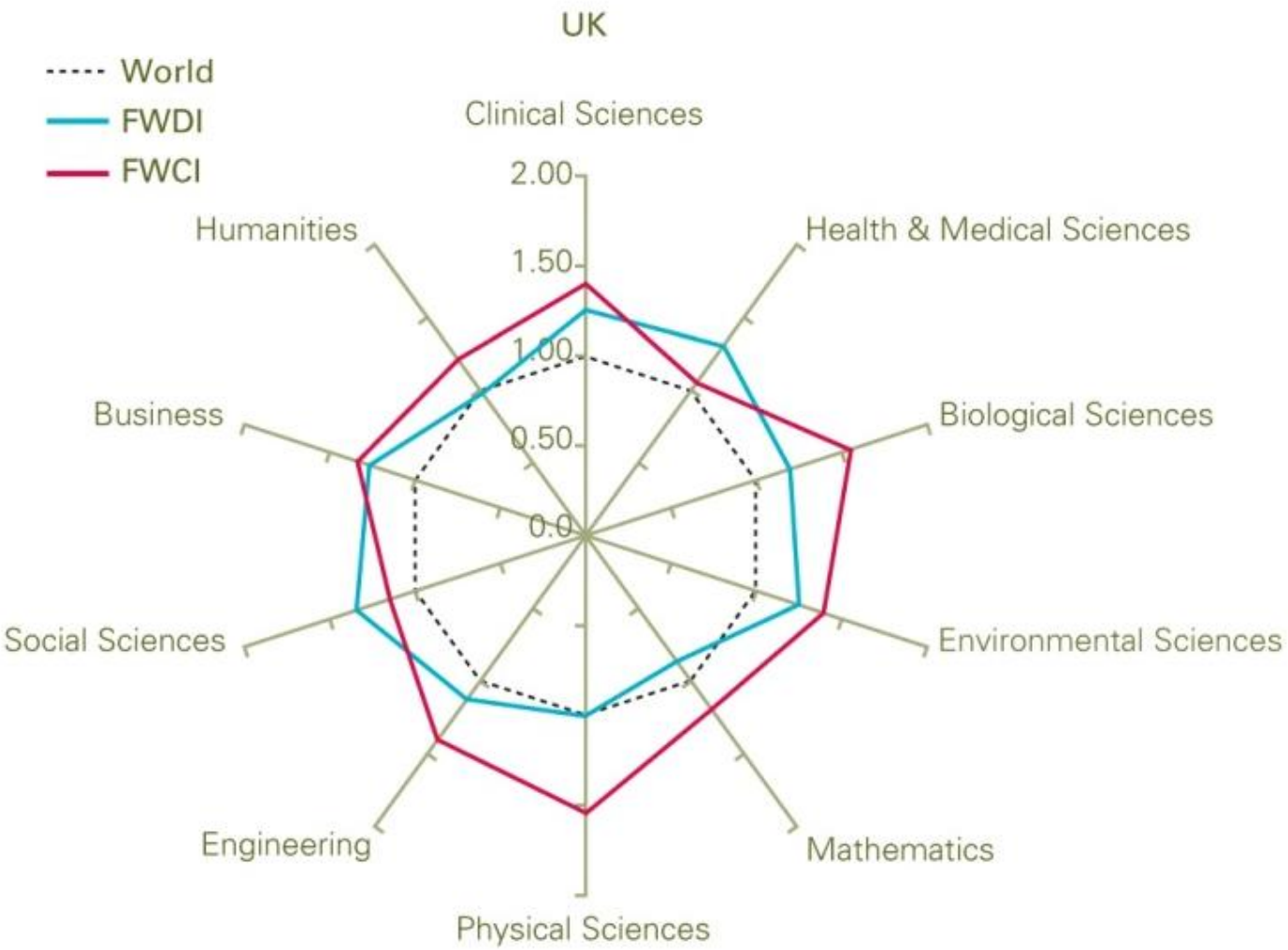
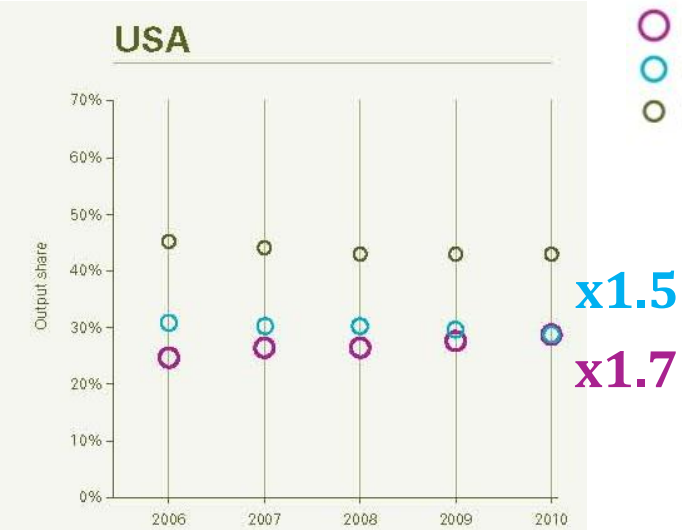


Scopus

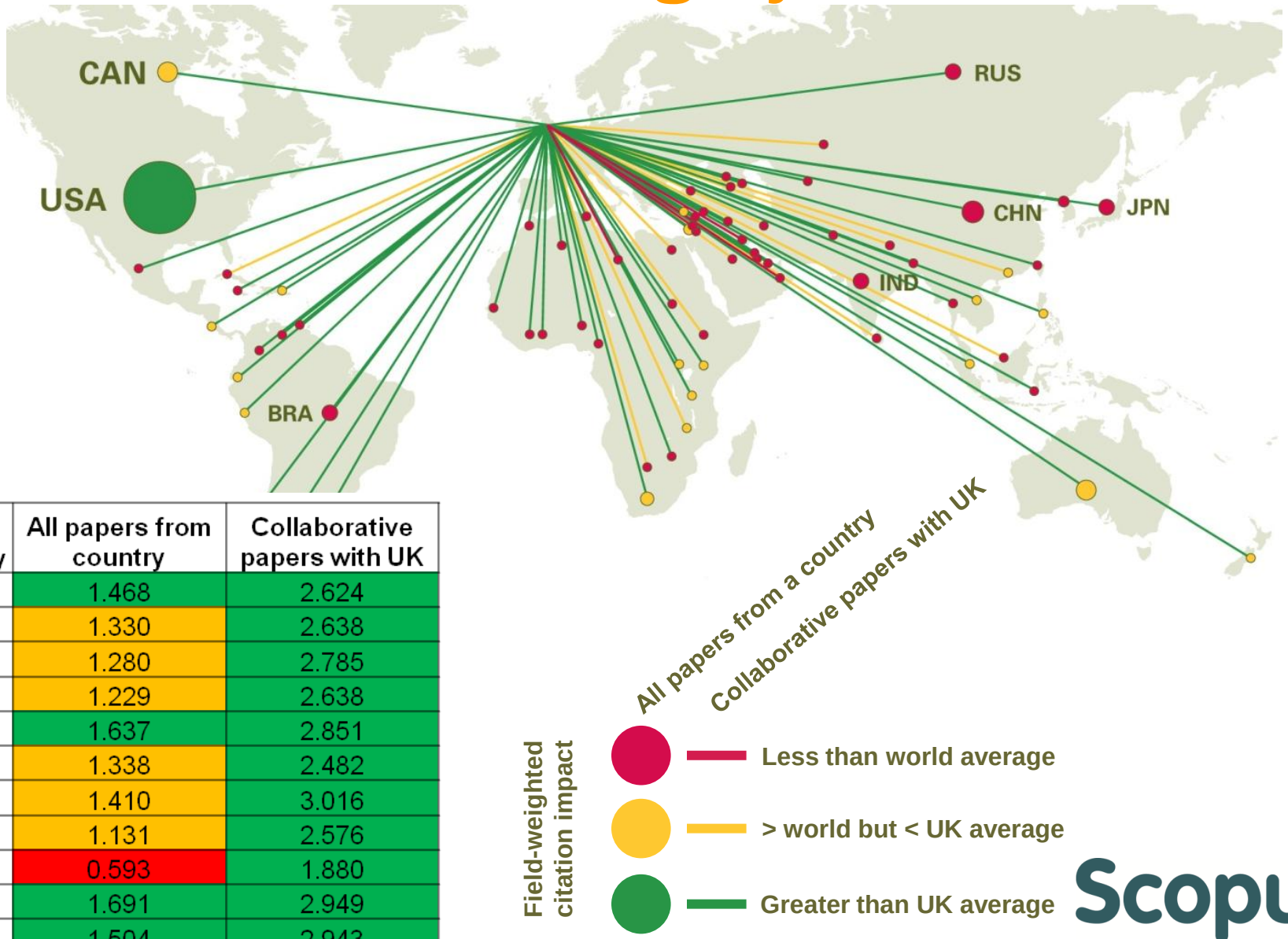
UK researchers are highly collaborative



International co-authorship
National co-authorship
Institutional co-authorship

Scopus

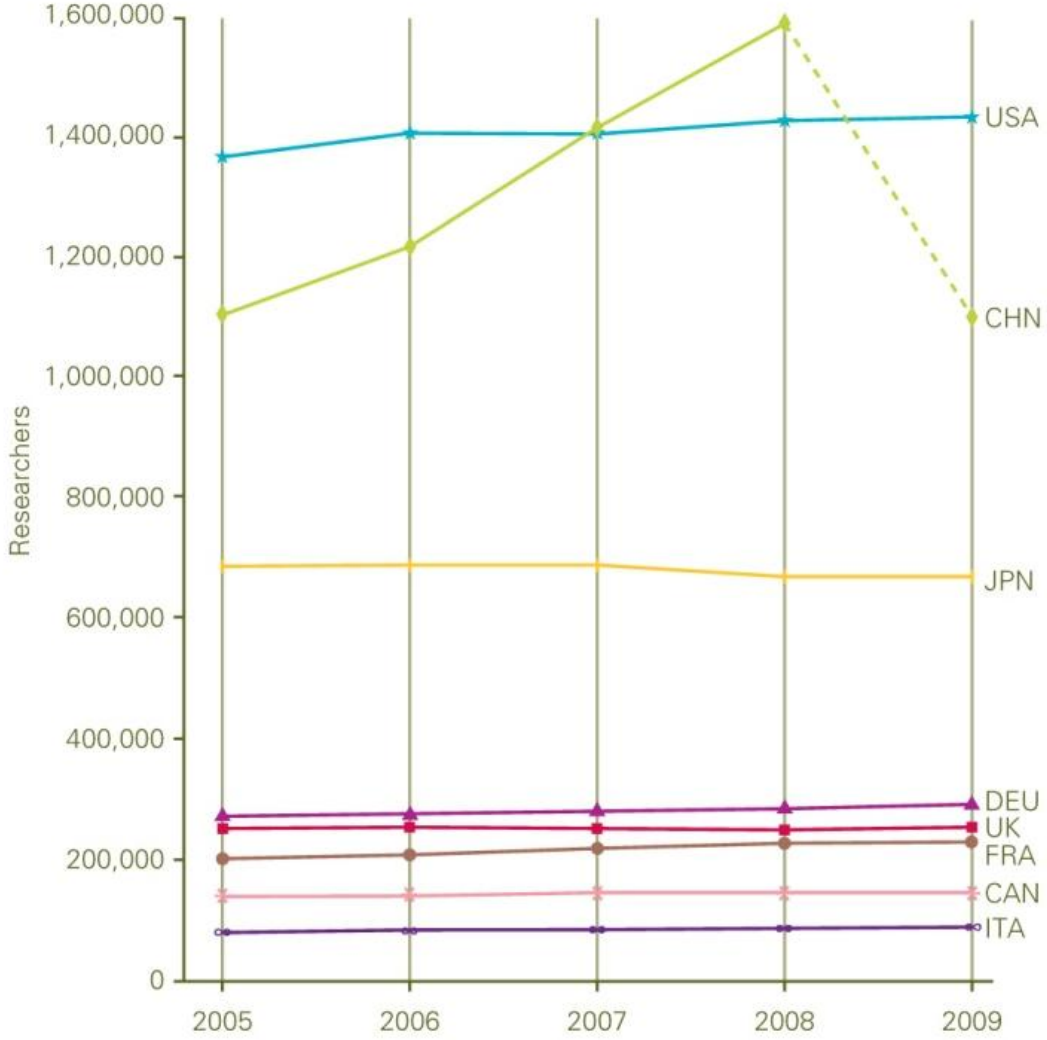
UK researchers are highly collaborative



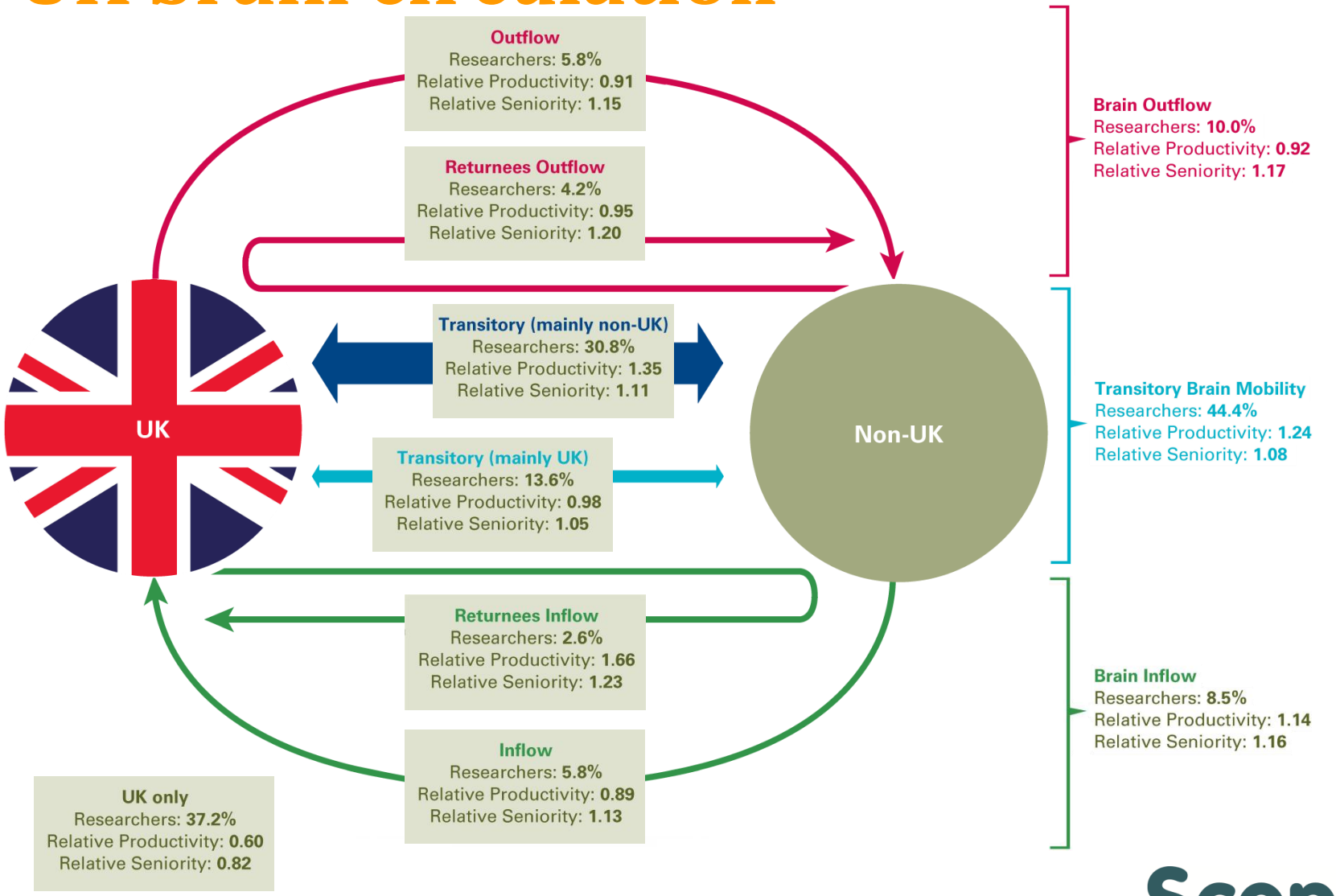
Country	All papers from country	Collaborative papers with UK
USA	1.468	2.624
DEU	1.330	2.638
FRA	1.280	2.785
ITA	1.229	2.638
NLD	1.637	2.851
AUS	1.338	2.482
CAN	1.410	3.016
ESP	1.131	2.576
CHN	0.593	1.880
CHE	1.691	2.949
SWE	1.504	2.943
JPN	0.915	2.532

Scopus

UK researcher count is stable



UK brain circulation

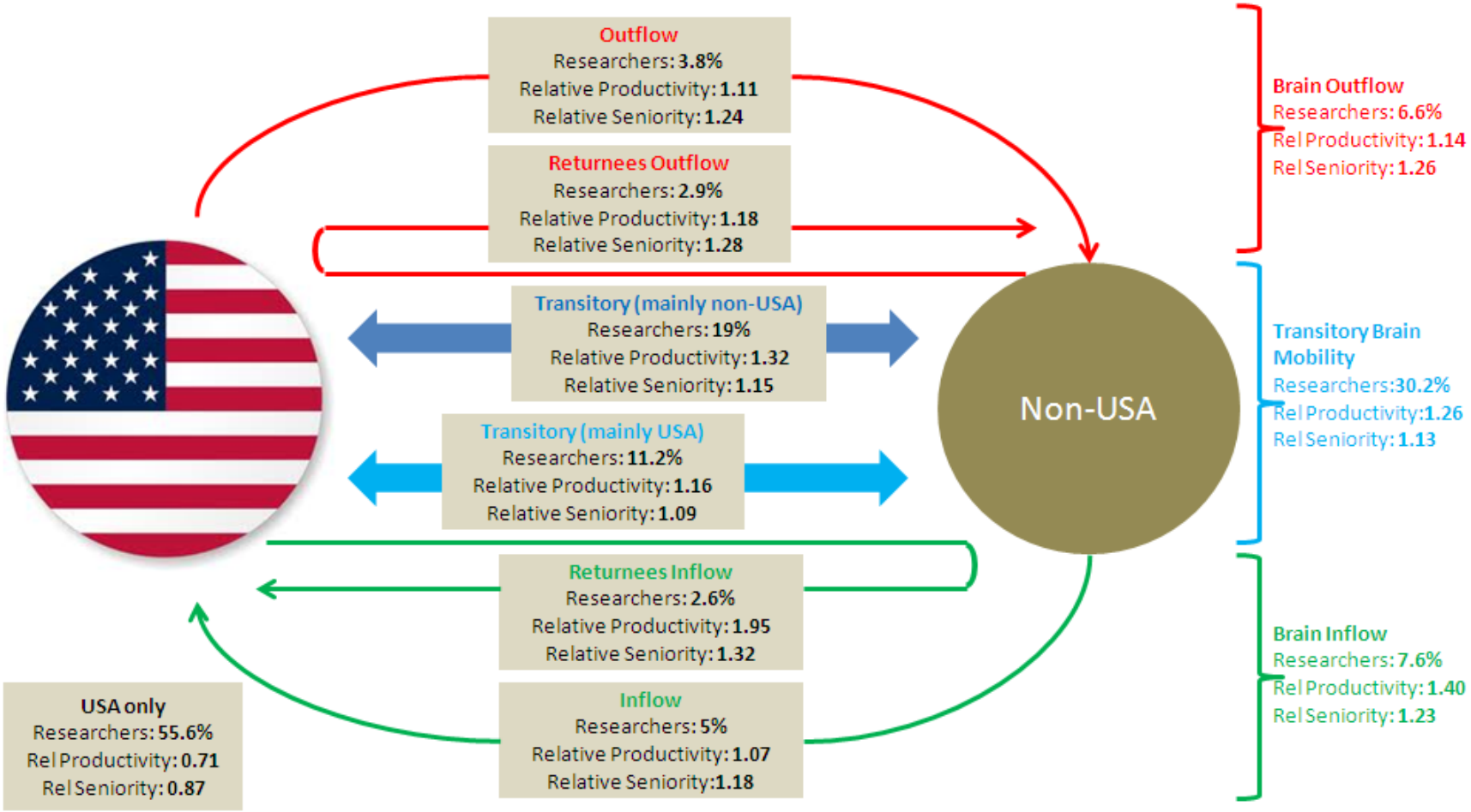


Scopus

Migratory researcher = permanent or returnee (2 or more years abroad)
Transitory researcher = less than 2 years abroad

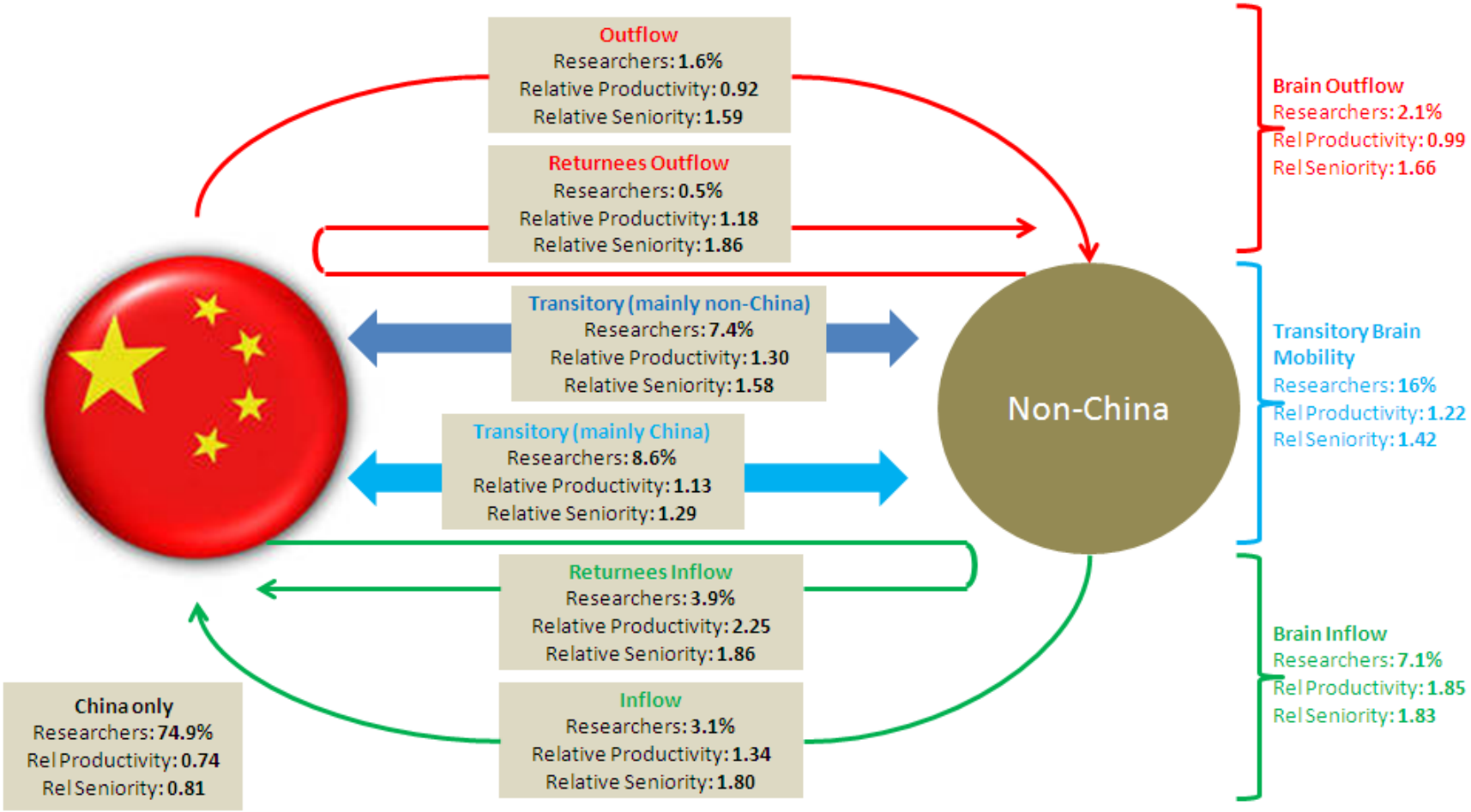
Relative Productivity = articles per year relative to all UK researchers
Relative Seniority = years of publication activity relative to all UK researchers

US brain circulation



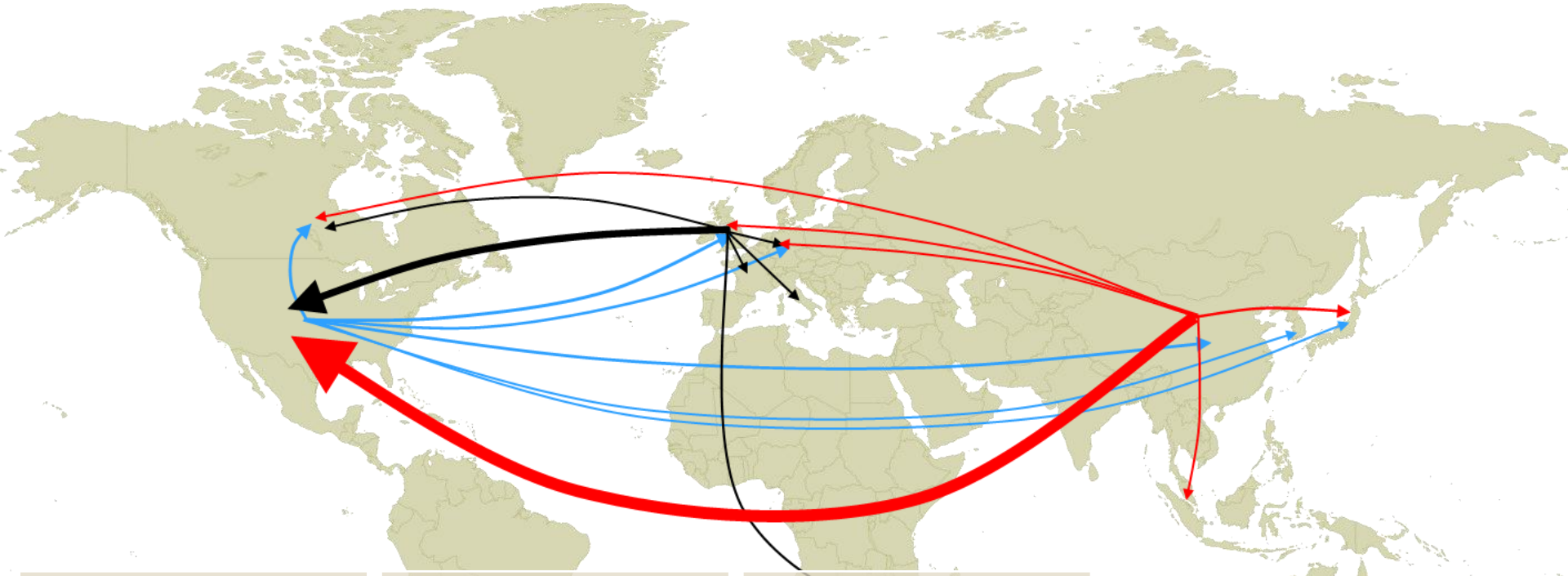
Scopus

China brain circulation



Scopus

Global migration patterns



Study country: UK

To-country	% migration
USA	28.7
AUS	6.9
GER	6.1
CAN	5.4
FRA	4.8
ITA	3.3

Study country: USA

To-country	% migration
UK	10.6
CAN	9.7
CHN	9.6
GER	8.6
South Korea	5.0
JPN	4.6

Study country: CHN

To-country	% migration
USA	50.4
JPN	8.3
CAN	6.0
UK	5.5
SGP	5.2
GER	4.2

UK is a world leader in research

- Global research landscape is fluid, dynamic and intensely competitive
- UK is well positioned, but ability to sustain leadership position is far from inevitable
- Striving for continued research excellence, with the aid of researcher mobility and international collaboration, can help UK hold or advance its position