

Elsevier Research Intelligence

## Iceland International Collaboration

*A “bird’s eye view” on publication patterns & opportunities for collaboration*

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# Collaboration enhances quality



**“Collaboration enhances the quality of research, improves its efficiency and effectiveness, and is increasingly necessary as the scale of budgets and research challenges grow.”**

*The Royal Society, 2011*

# Most of the following analyses are based on the report we did for Science Europe



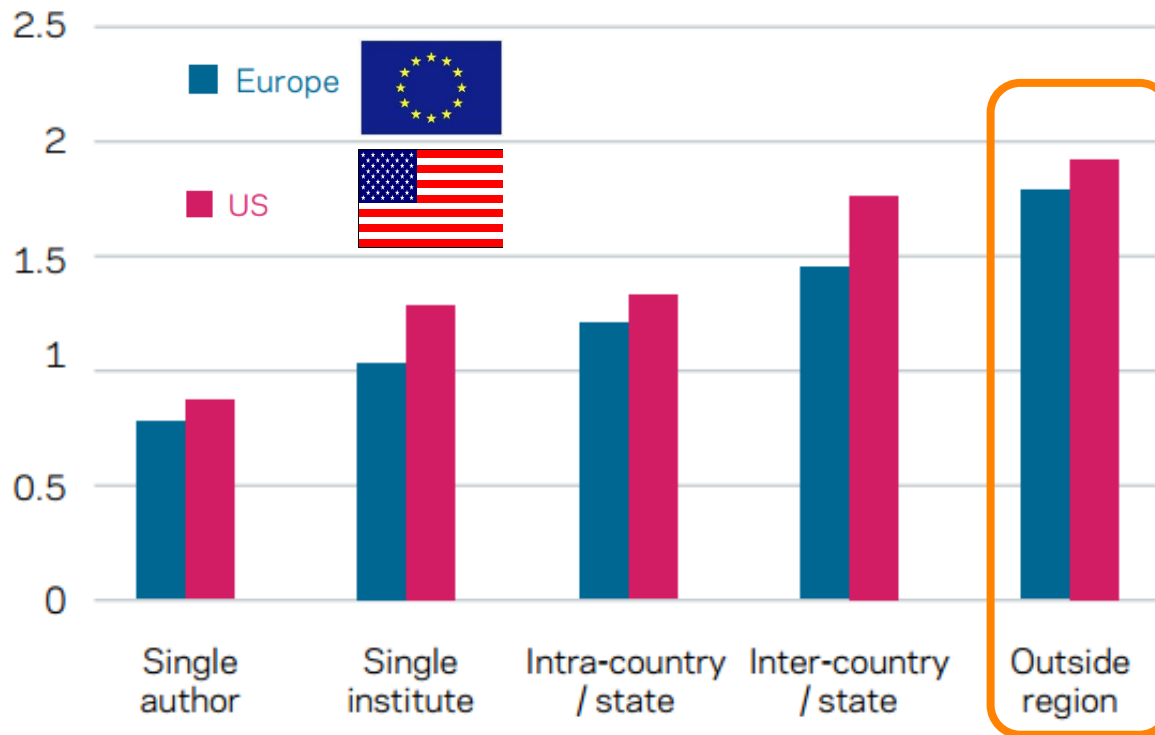
SCIENCE  
**EUROPE**  
Shaping the future of research



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# The Advantage of Collaboration

FIELD-WEIGHTED CITATION IMPACT  
PER COLLABORATION TYPE (2007-2011)



Science **Publications**

Current **Collaborations**

**Potential** Collaborations

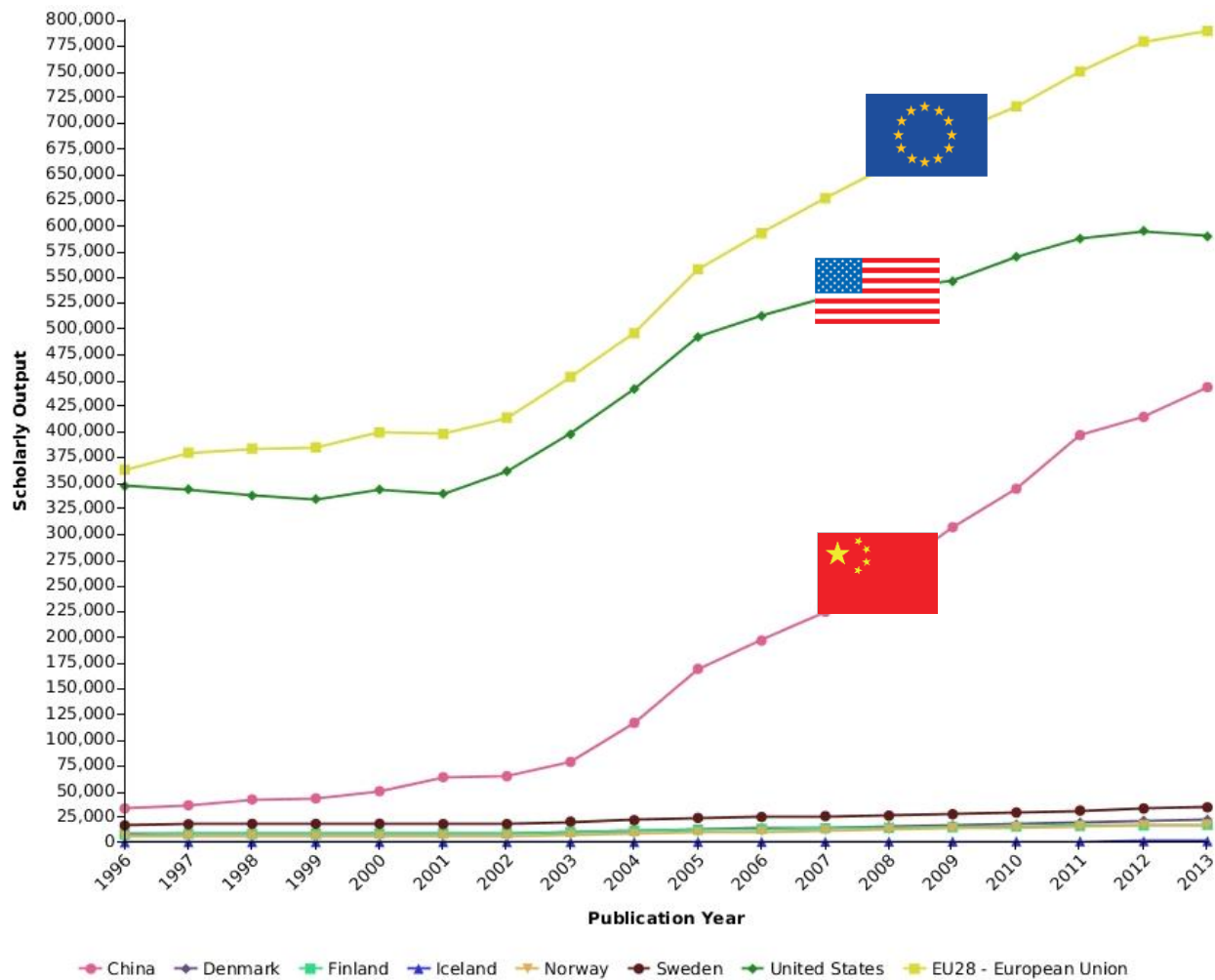
**People** make Science



# Science Publications



# Scientific Publication Trends (I)



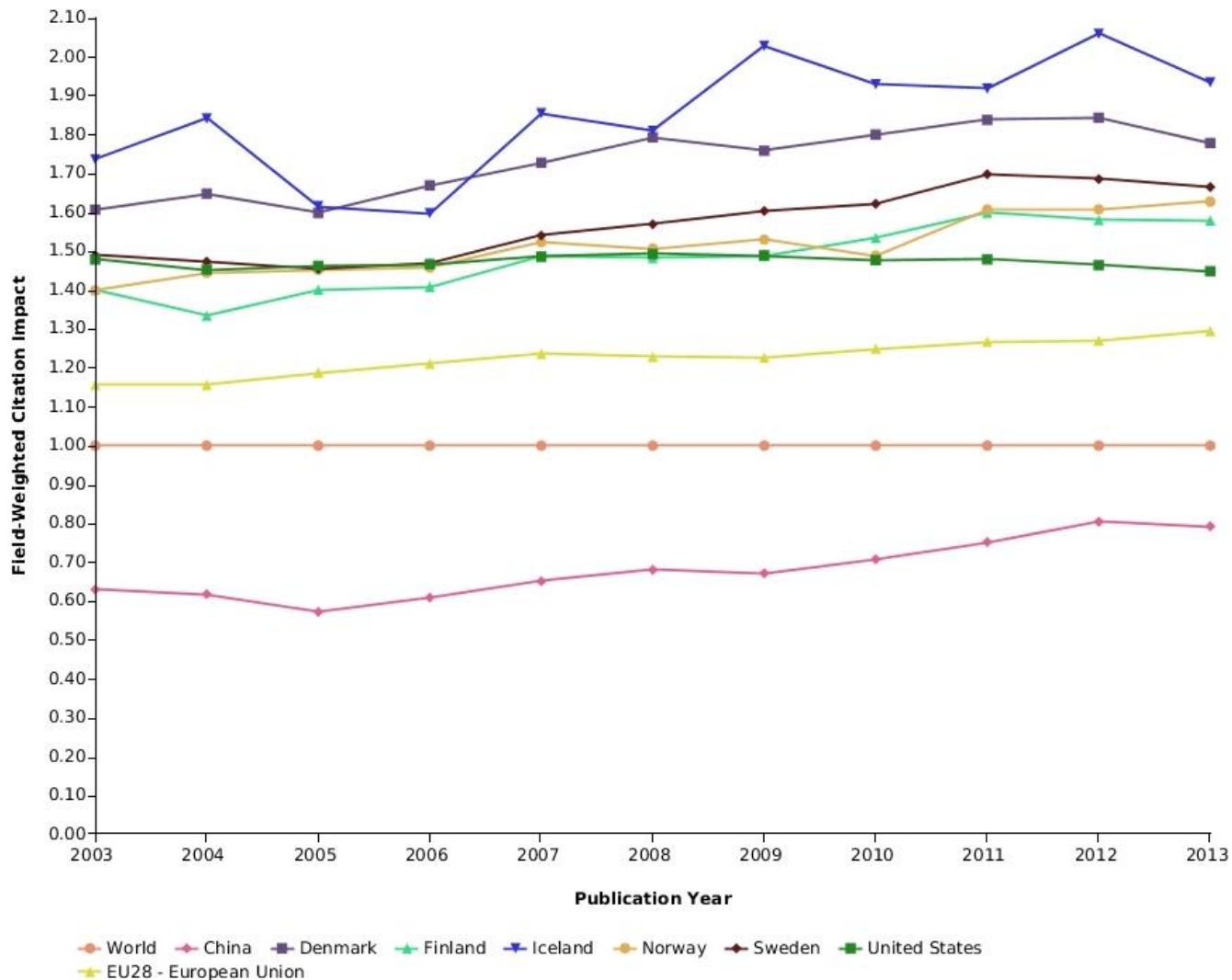
Country	CAGR* 1996-2013	CAGR* 2009-2013
EU 28	4.7%	3.4%
USA	3.2%	1.9%
China	16.5%	9.6%
Sweden	4.3%	5.6%
Denmark	6.2%	7.9%
Finland	4.8%	3.8%
Norway	6.6%	5.6%
<b>Iceland</b>	<b>9.1%</b>	<b>7.6%</b>

**World**      **5.0%**      **4.0%**

\* Compound Annual Growth Rate

# Scientific Publication Trends (II)

- *What about publications' impact – FWCI\*?*



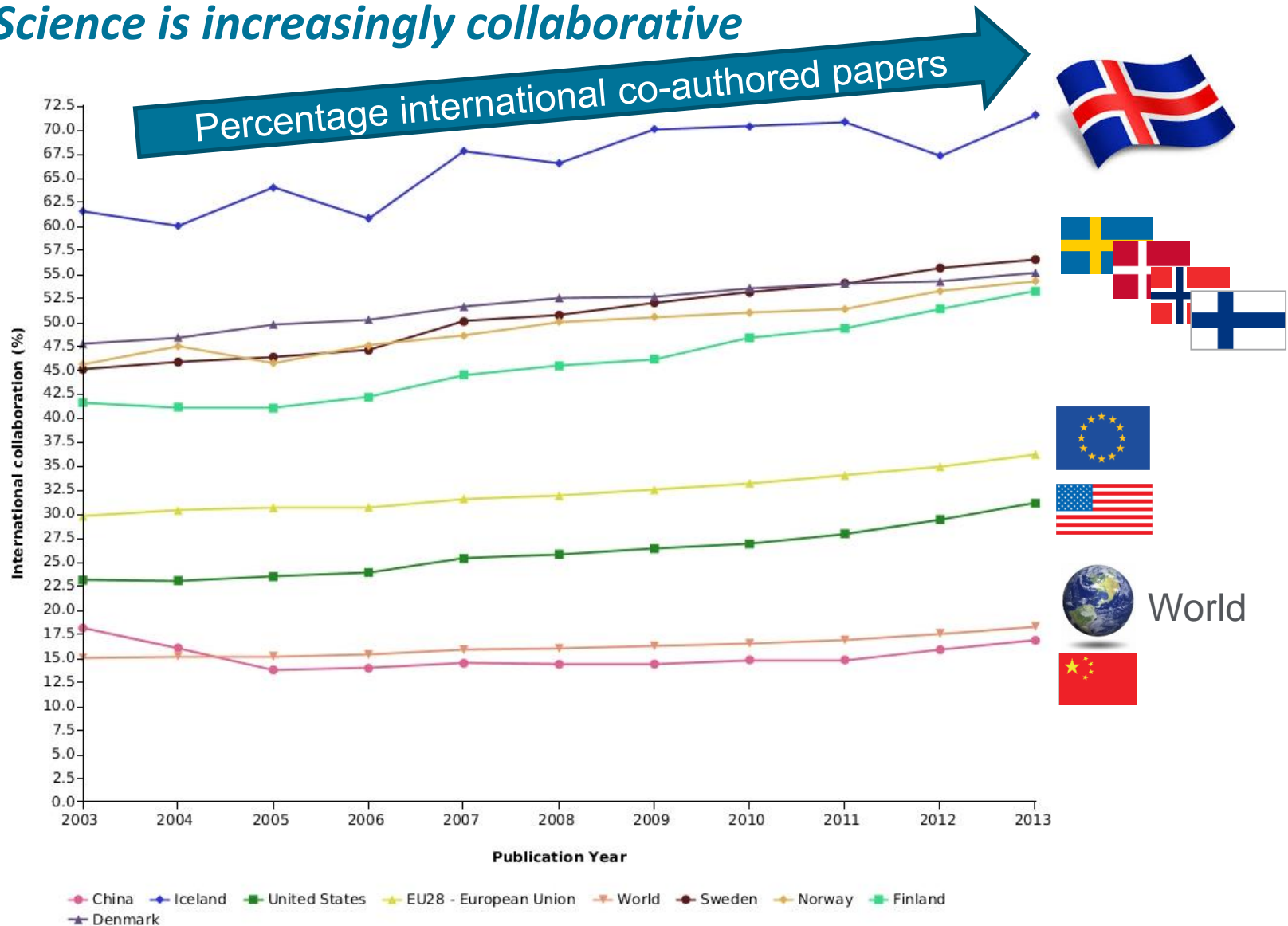
World





# Scientific Publication Trends (III)

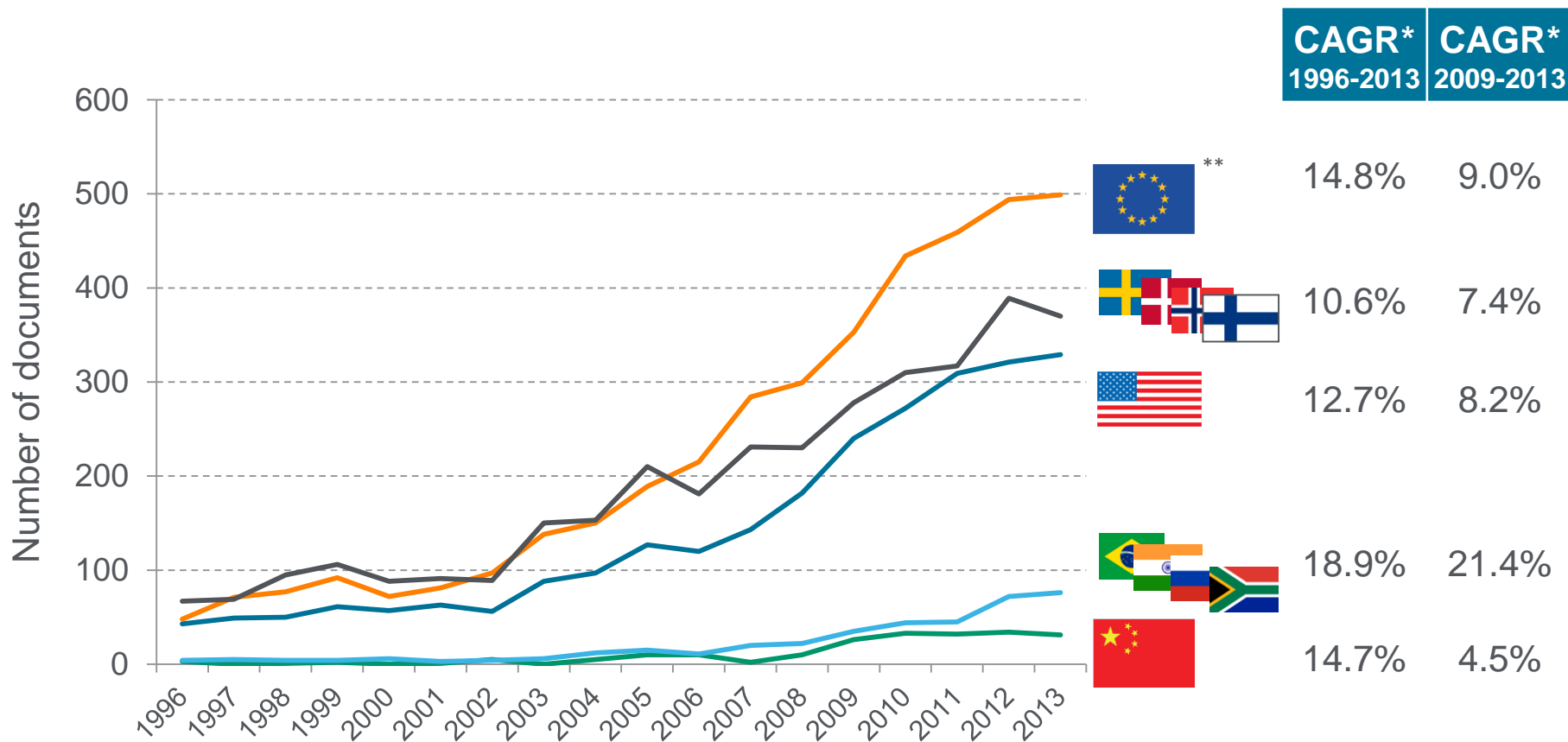
- *Science is increasingly collaborative*



# Current Collaborations



# Iceland joint scientific publication trends

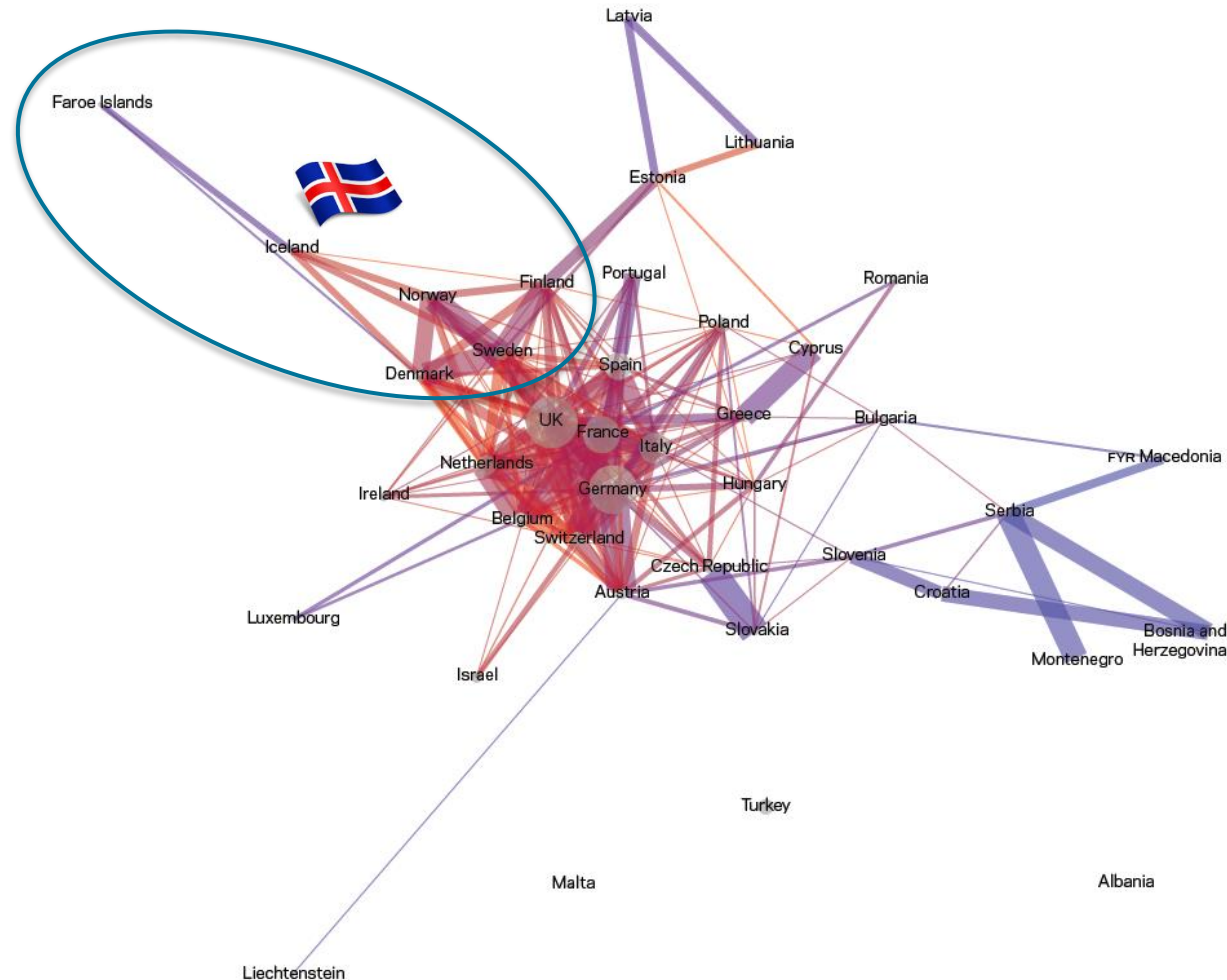


*Nordic countries still represent Iceland's 2<sup>nd</sup> collaboration partners, preceding the United States*

\* Compound Annual Growth Rate

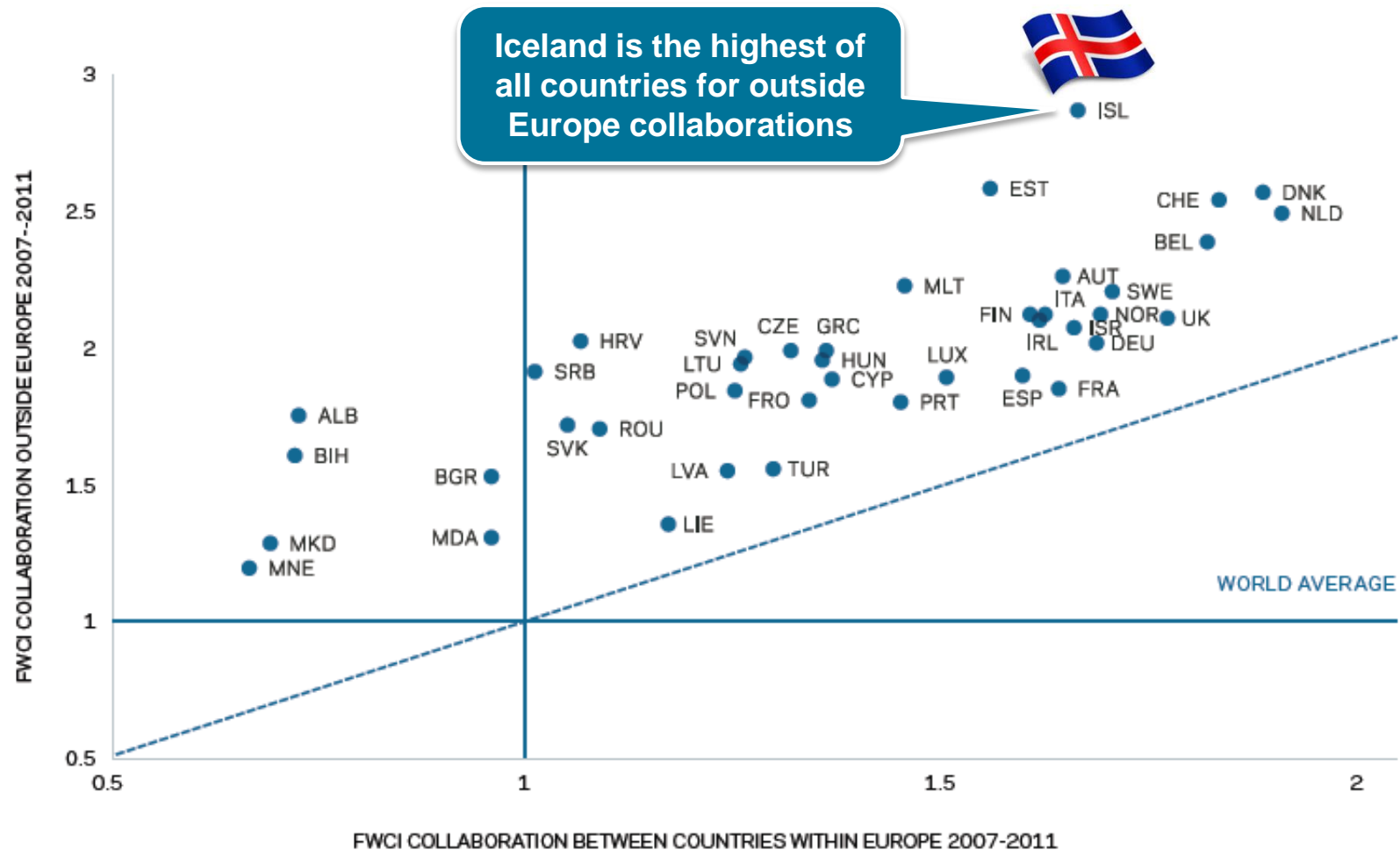
\*\* Excluding Scandinavia

# Iceland within the network map of research collaboration between European countries



Nodes represent countries sized to represent total research outputs and are connected by edges weighted by Salton's measure and colored by field-weighted citation impact of the collaborative research outputs (range of values 8.438 for most red to 0.890 for most blue). Collaborations below a limit of 0.015 are suppressed for visual clarity. Research outputs, Salton's measure and field-weighted citation impact are for the 2007-2011 datapoint

# Collaboration within Europe and with countries outside Europe results in high impact for Iceland



# Potential Collaborations

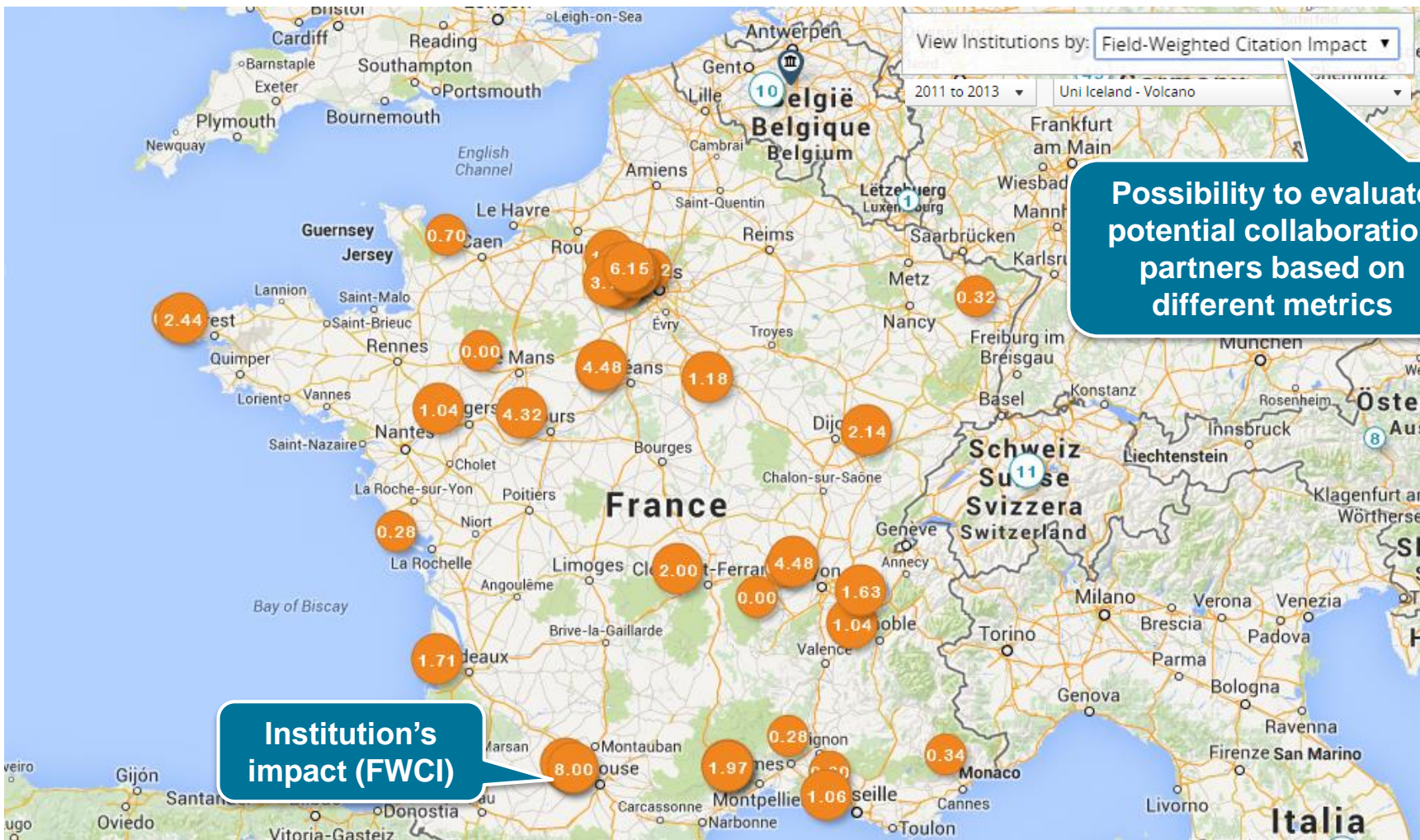


# University of Iceland - Potential collaborations

## Earth and Planetary Science



# University of Iceland - Potential collaborations Volcanology







# People make Science

# Icelandic researchers' mobility patterns

## Sedentary researcher distributions by European country

Key:

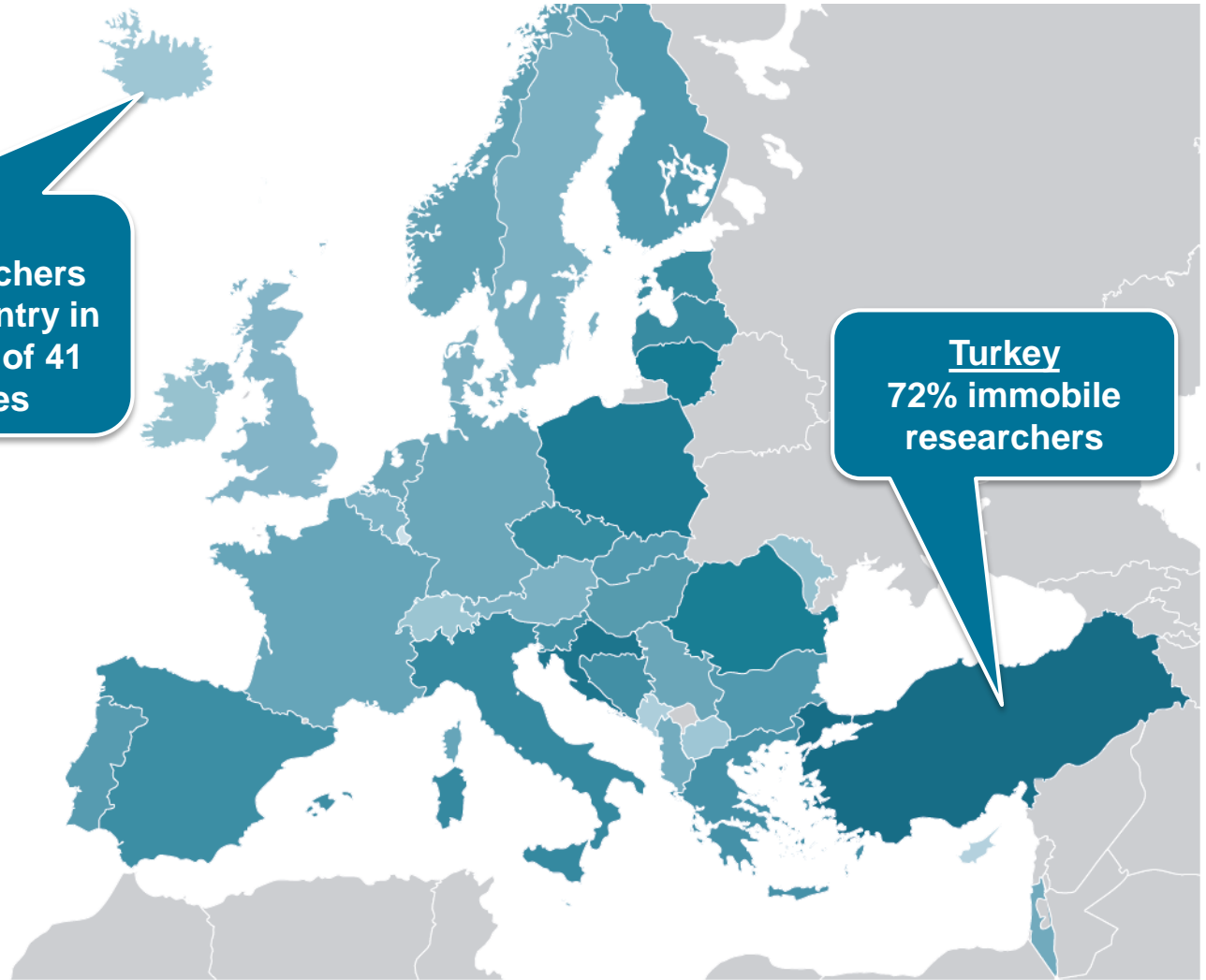
*Darker the color = higher  
immobility percentage*

### Iceland

22% immobile researchers  
Iceland is the 35<sup>th</sup> country in  
terms of mobility out of 41  
evaluated countries

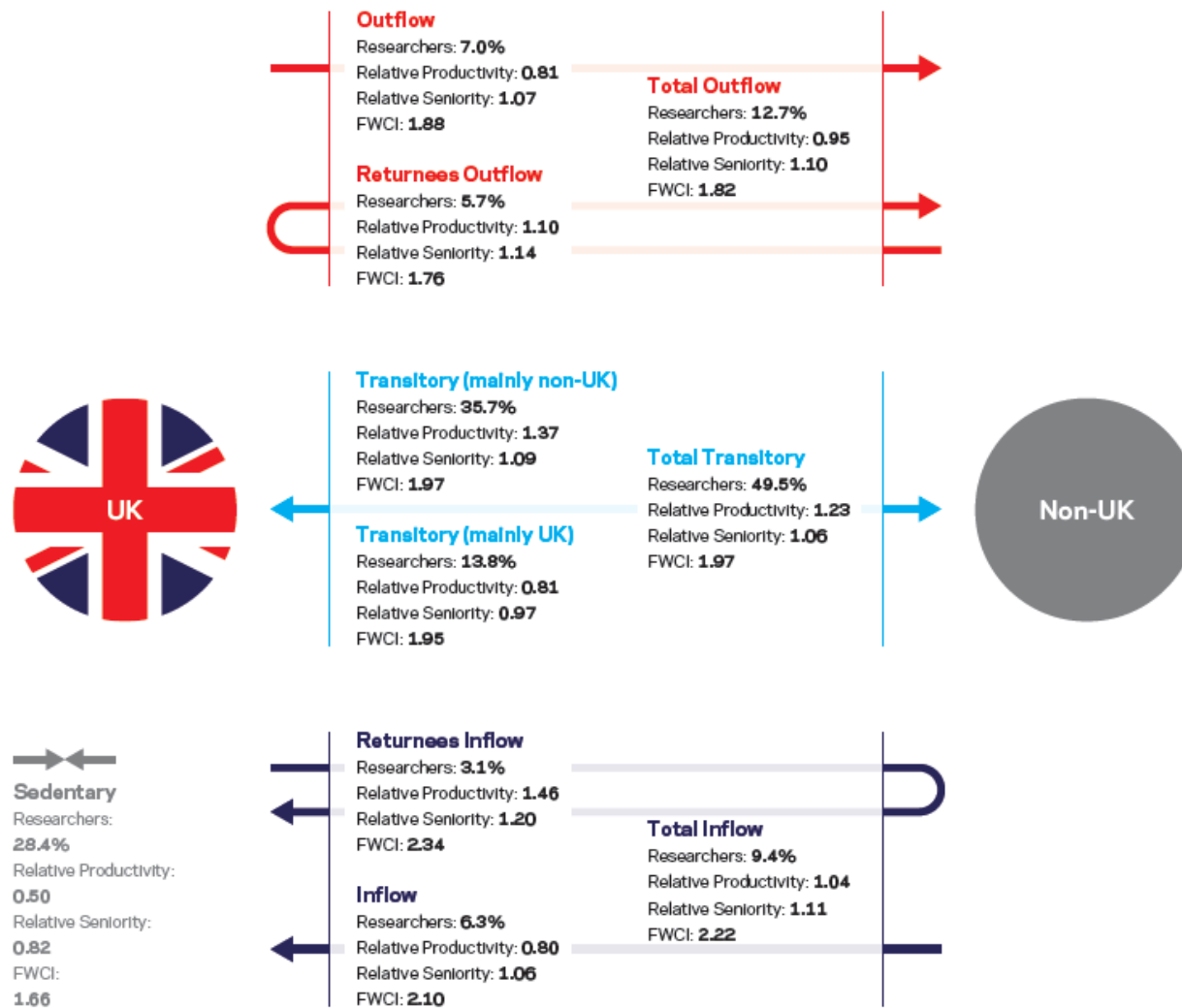
### Turkey

72% immobile  
researchers



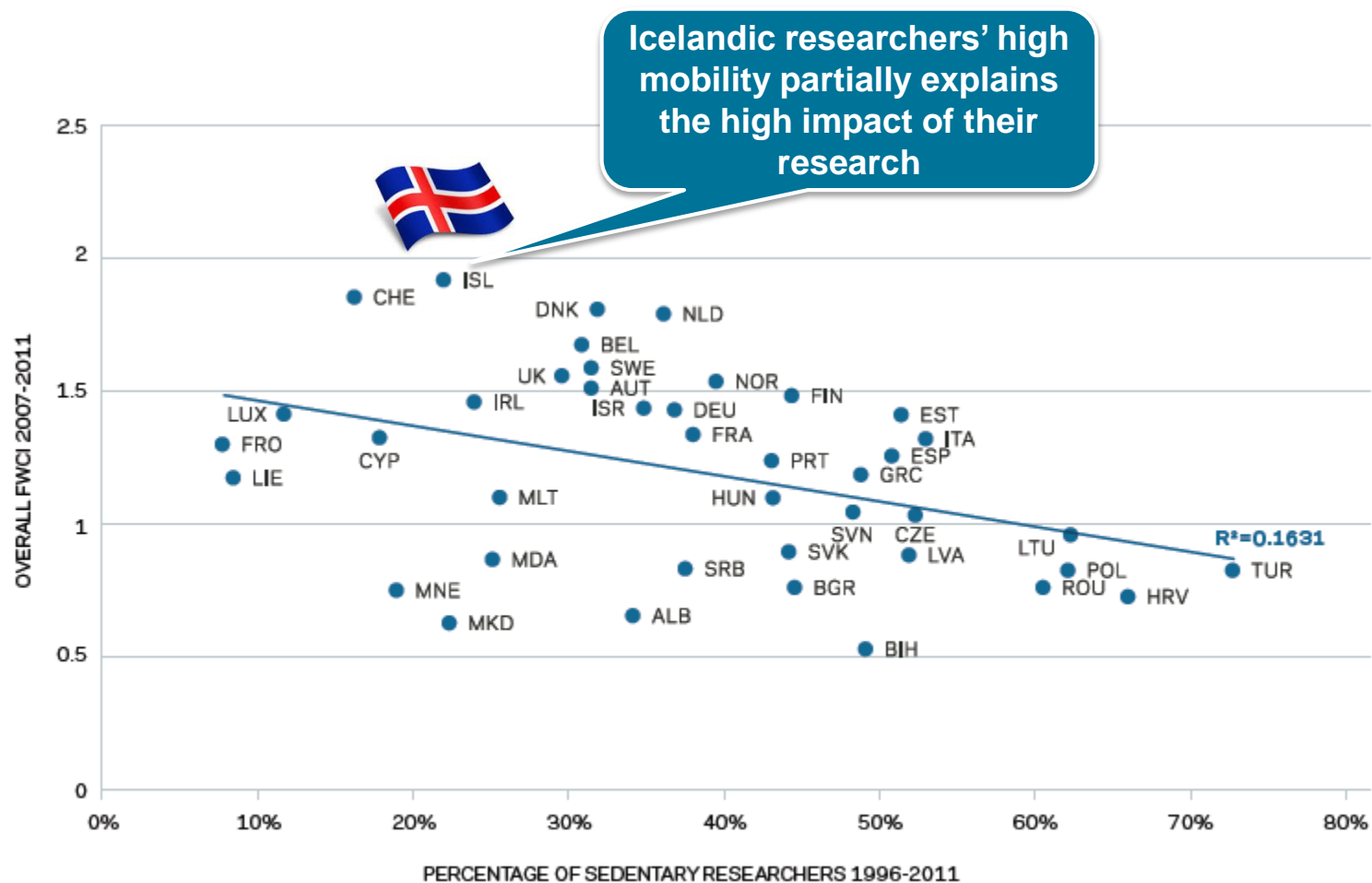
# Impact of the international mobility of researchers

## Example of UK researchers (1996-2012)



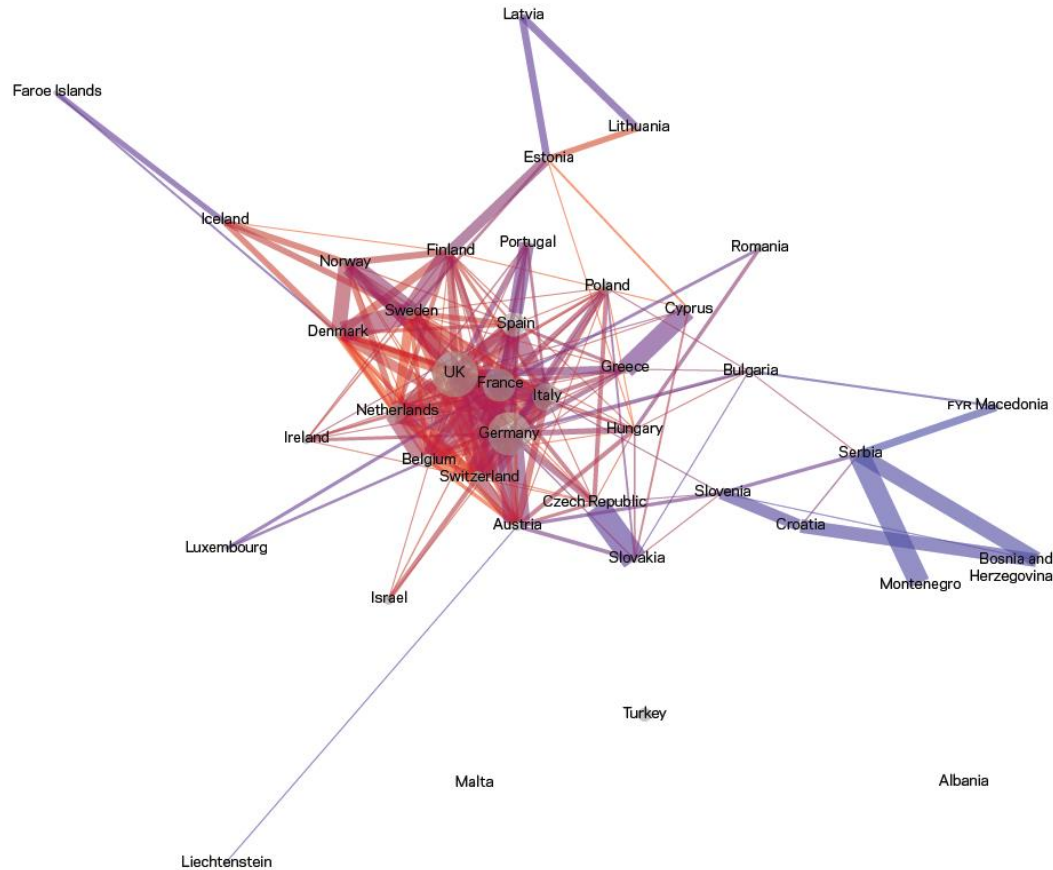
# Icelandic researchers' mobility patterns (II)

## Migration researchers impact





# Thank you very much for your attention!



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# University of Iceland - DC#2 competency

## Competency DC #2

record; tephra; volcanic eruption

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Summary

Trends

Disciplines

Institutions

Authors

Compare

Methodology

Based on an analysis of publications over the period 2009-2013, SciVal has identified **DC #2** as a distinctive competency of the University of Iceland

[See why this field is a distinctive competency of the University of Iceland](#)

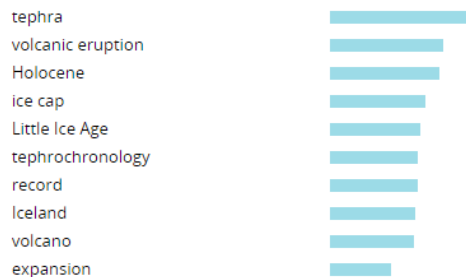
### Articles published in this field (2009-2013)

	Articles	Annual growth	Citations
Articles published worldwide	2,181	+ 13.1% ▲	10,650
Articles published in Iceland	81	+ 9.0% ▲	662
Articles published at the University of Iceland	81	+ 9.0% ▲	662

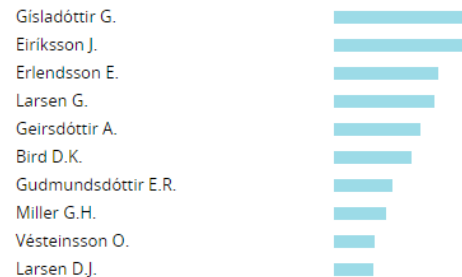
### Show the contribution to this field from:

- University of Iceland
- all contributing institutions worldwide

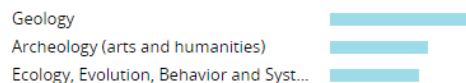
### Top keywords for the University of Iceland [show all »](#)



### Top authors from the University of Iceland [details »](#)



### Top disciplines for the University of Iceland [details »](#)



### Top journals for the University of Iceland

