

Research impact and its assessment: lessons from the UK Research Excellence Framework

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The assessment of the broader impact of research is a **necessary component** of research evaluation...

...and the experience of the UK Research Excellence Framework suggests that it is possible to do so robustly through the assessment of case studies.

The UK assessment provides insights into research impact, providing new challenges for the future of research evaluation, around interdisciplinary research, the role of co-production and the questions of societal legitimacy.

The next iteration of the UK REF is likely to represent evolution rather than revolution.

"The strengths of the current research and innovation system are clear and Government is committed to retaining them. But we believe the system has the potential to become even more effective. The challenges facing the world are complex, and increasingly require multi- or interdisciplinary approaches. Our ambition is to ensure that our research and innovation system is sufficiently integrated, strategic and agile to meet these challenges, and to deliver national capability for the future that drives discovery and growth."

UK Government White Paper, 2016



'Mode 2' research

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How it works

REF assesses the quality of research in all UK universities, in all disciplines. It is carried out by 36 expert panels, grouped into 4 main panels.

Main Panel A: Medical and life sciences

Main Panel B: Physical sciences and engineering

Main panel C: Social sciences

Main Panel D: Arts and humanities





What was assessed





"an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia"

- 4-page narrative
- `underpinning research'
- evidence and corroboration



Building on Success and Learning from Experience

An Independent Review of the Research Excellence Framework

- Review by Lord Stern
- Published July 2016
- Evolution not revolution

"By a large majority, panellists felt the process enabled them to assess impact in a fair, reliable and robust way"

RAND Europe Evaluation report

Source: RAND Europe (2015) Assessing impact submissions for REF 2014: An evaluation https://is.gd/hefce_RANDimpact2

Time lags



Source: Digital Science (2016): Publication patterns in research underpinning impact in REF2014 https://is.gd/hefce_dsreport2016

Evidence and attribution

"Evidence was the most difficult element of creating the [impact case study] document and as a result, you ended up thinking more about the evidence rather than the impact. The question was, can I evidence this?"

> HEI representative [quoted in RAND Europe Evaluation report]

Source: RAND Europe (2015) Preparing impact submissions for REF 2014: An evaluation https://is.gd/hefce_RANDimpact1

Impact and academic quality



Metrics for impact

"The quantitative evidence supporting claims for impact was diverse and inconsistent, suggesting that the development of robust impact metrics is unlikely."

King's College London/Digital Science report

Source: King's College London/Digital Science (2015) The nature, scale and beneficiaries of research impact https://is.gd/hefce_KCLDSreport

Impact and interdisciplinary research



Source: King's College London/Digital Science (2015) The nature, scale and beneficiaries of research impact https://is.gd/hefce_KCLDSreport



• System level conditions

Institution level conditions

• Academic culture

System level conditions

Institution level conditions

• Academic culture

In REF:

 Impact assessment incentivises interdisciplinary research

 Interdisciplinary outputs are ranked as highly as others



Sources:

- 1. Technopolis/SPRU (2016) Landscape Review of Interdisciplinary Research in the UK. https://is.gd/hefce_IDRlandscape
- 2. HEFCE analysis. http://www.ref.ac.uk/results/analysis/outputprofilesanddiversity/



 Strong perception that submitting IDR outputs is a risk...

 ...which leads to lower than expected rates of submission

Sources:

- 1. Technopolis/SPRU (2016) Landscape Review of Interdisciplinary Research in the UK. https://is.gd/hefce_IDRlandscape
- 2. Elsevier (2015) A review of the UK's Interdisciplinary Research Using a Citation-based Approach. https://is.gd/hefce_IDRcitation

Co-production and engagement

"[in the REF case studies] Public engagement is nearly always focussed on changes to understanding and awareness.[...] many researchers default to a paradigm of public engagement as 'dissemination', and in the process limit its potential to contribute to all stages of the research cycle."

National Co-ordinating Centre for Public Engagement, unpublished analysis

Co-production and engagement

"Qualitative and participatory research designs were rare, and only one case study described a coproduction model of impact [of 162 analysed in Public Health, Health Services and Primary Care panel]."

Greenhalgh and Fahy, 2015

Source: Greenhalgh and Fahy (2015) Research impact in the community-based health sciences: an analysis of 162 case studies from the 2014 UK Research Excellence Framework. BMC Medicine 13:232 https://doi.org/10.1186/s12916-015-0467-4

Which impact?

Who decides?



Source: http://www.un.org/sustainabledevelopment/sustainable-development-goals/



Source: http://www.rri-tools.eu/media-room

Impact in the next REF:

Case studies

Link to research outputs

• (some) Institutional-level

• Engagement

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Thank you for listening <u>s.hill@hefce.ac.uk</u> @stevenhill

