



# The importance of impact and its implications for evaluation of SSH

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1. Impact in context
2. Definitions of impact
3. Impact in European and national research policies and evaluation systems
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# Impact in context

Internationalisation

Quasi-Marketisation

Managerialisation

Model of « World Class Research University »

Scientific impact: citations to articles  
in international top journals

Digitalisation

« Exoterisation »

Model of « Open University »

Impact beyond academia

(Vanholsbeeck, 2017)

# Definitions of impact

# Definitions of impact

## Conceptual frames (1)

- Impact as dissemination
- Impact as direct economic effects (income from licenses, patents, spin-offs) (Benneworth, 2014)
- Impact as broader cultural, societal, health, environmental and political effects
- Impact as “extraordinary impact” vs. manifold and mundane types of impact (Sivertson, 2017)

# Definitions of impact

## Conceptual frames (2)

- Impact as the changes we can see (demonstrate, measure, capture) (Bayley, Phipps, Batac & Stevens, 2018)
- Impact as measure of impact
  - Bibliometrics for scientific impact
  - Economic metrics for economic impact
  - Altmetrics to measure societal impact? (Miedema et al., 2018)

# Definitions of impact

## Conceptual frames (3)

- Impact as 'pathways' to impact (Research Councils UK, 2014)
  - Linear (Caplan, 1977)
    - Knowledge Transfer / TRL
  - Non-linear
    - Co-creation of impact with societal stakeholders (Gronvad et al., 2017)
- From direct instrumental impact to indirect conceptual impact (King's College London & Digital Science, 2015)

# Definitions of impact

## Conceptual frames (4)

- Impact as « productive interaction » (Spaapen & Van Drooge, 2011)
  - *“Exchanges between researchers and stakeholders in which knowledge is produced and valued that is both scientifically robust and socially relevant;*
  - *Mediated through various ‘tracks’ (a research publication, an exhibition, a design, people or financial support);*
  - *Productive when if leading to efforts by stakeholders to somehow use or apply research results or practical information or experiences.”*

# From productive interactions to impact pathways: Understanding the key dimensions in developing SSH research societal impact.

Muhonen, R., Benneworth, P., & Olmos-Penuela, J. (2019).

- Based on 60 cases studies in 16 countries
- SSH pathways to societal impact by paying attention not only to productive interactions but to their effects on the status of the societal and scientific partners and the broader effects taking place in terms of societal development and scientific advancement
- Typology of SSH pathways to societal impact

COMPLEXITY OF THE RELATIONSHIPS

SIMPLE/LINEAR

INTERACTIVE

COCREATIVE

ITERATIVE-FEEDBACK

ACCRETATIVE



Impact in European and national  
research policies and evaluation  
systems

# Impact in EU research policies (1)

- Impact as (mostly) linear and economic but...
- “Mode 2 of knowledge production” (Gibbons et al., 1994)
- “Quadruple-Helix” model (Carayannis and Campbell, 2009)
- “Missions” of Horizon Europe (Kattel and Mazzucato, 2018)
- Open Access < Open Science Agenda including Citizen Science
- Responsible Research and Innovation

# Impact in EU research policies (2)

- Evaluation of FP proposals:
  - Only Excellence for ERC (with the exception of Proof of Concept)
  - All others: Excellence (5), Impact (5), Quality and efficiency of the implementation (5)
    - Weight of 1.5 for impact in Innovation Actions and SME instrument
  - Horizon Impact Award – a prize dedicated to EU-funded projects whose results have created societal impact across Europe and beyond

# Country Reports

## National Evaluation Systems

Editors: Michael Ochsner & Ginevra Peruginelli

Not yet published!  
(Don't quote without authors' authorization)

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# Belgium / Wallonia-Brussels Federation

- FRESSH (Fonds pour la Recherche en Sciences humaines) (2012) funding of doctorates from the F.R.S.-FNRS which “aim[s] to carry out fundamental research projects with significant societal impact, using tools provided by human and social sciences.”
  - Justification of the potential societal impact of the project in application file: players, groups or sectors likely to benefit from the results of the research in the shortmedium term.

# International perspective (1)

- Not taken into account: Bosnia-Herzegovina, Ireland, Israël, Romania
- In debates: France, Italia, Poland (Impact Assessment to be conducted in 2021)

# International perspective (2)

- Social relevance criteria applied
  - to the institutional research assessment and funding of applied and basic research: Czech Republic;
  - to institutional research assessment: Latvia, Portugal, Switzerland;
  - to project funding: Slovenia.
- Non peer-reviewed types of publications with societal impact taken into account in performance-based national funding of universities system (+ weighting of OA publications, 2021):  
Finland

# International perspective (3)

## UK, Research Excellence Framework

- REF 2014: peer review based assessment of 1911 submissions, 52061 academic staff, 191150 research outputs and **6975 impact case studies**
- Criteria
  - REF (2014): Outputs (scholarly publications, 65%); **(ex post) Impact (Societal Impact, 20%)**; and Environment (15%);
  - Upcoming REF2021: Output (scholarly publications, 60%); **(ex post) Impact (Societal Impact, 25%)**; and Environment (15%);

# International perspective (4)

## UK, Research Excellence Framework

- ‘Impact’ is *any effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia*;
- ‘Reach and significance’ taken as a whole;
- SSH specificities taken into account;
- Only Impacts that were given 3- or 4-stars eligible for funding (£2 billion to over 154 UK universities).

# International perspective (5)

## Inspired by UK REF

- Lithuania (National assessment of research units, 2018)
- Norway
  - Societal impact as a priority in long-term plan for research and higher education (2015-2024);
  - Societal impact assessed on the basis of submitted impact cases (REF 2014 template) and self-assessments from institutions;
  - Initial resistance (cases studies too limited);
  - Enhanced visibility of SSH impact.

# Perceptions and attitudes towards impact

1. Senior researchers

# Senior academics as key negotiators in the implementation of impact policies in the social sciences and humanities

Marc Vanholsbeeck, Theodosia Demetriou, Agne Girkontaite, Andreja Istenic Starcic, Ville Keiski, Emanuel Kulczycki, Elena Papanastasiou, Janne Polonen, Hulda Proppe and Maja Vehovec

In press

(Don't quote without authors' authorization)

# Attitudes of researchers towards organisational changes (1)

- Individual scholars' power to « negotiate » the prescriptions (Linkova, 2014)
  - **Scholars' definitions of impact** (Derrick and Samuel, 2017)
  - **Not many studies on the impact agenda** (Besley and Nisbet, 2013; Dobbels et al., 2015; Besley et al. 2018)

# Attitudes of researchers towards organisational changes (2)

- **Acceptance, symbolic compliance** (Kehm and Leiðytë, 2010; Teelken, 2011; Kalfa et al., 2018), « **tinkering** » (Vanholsbeeck, 2012), **manipulation, « micro-politics of resistance »** (Linková, 2014) or **resistance to organisational changes** (Chandler et al., 2002; Kirkpatrick and Ackroyd, 2003)
  - « **Double allegiance** » (Davies and Horst, 2016)

# Methodology

- 16 interviews conducted in 2018 with senior academic sociologists in Belgium, Croatia, Cyprus, Finland, Iceland, Lithuania, Poland and Slovenia
- Perceived roles in the implementation of research evaluation policies, including impact
- Impact as resulting from “productive interactions” (Spaapen and Van Drooge, 2011)

# Perception of the impact agenda

- Impact not perceived as a (major) prescription
  - A few institutional initiatives but not at the same level than research and teaching
- Prescribed form of research output = article in « International Top Journal » (with high bibliometrical value)
  - Bibliometric indicators as a tool for more transparency (and less nepotism) but not an end in itself

# Attitude towards impact (1)

- Impact deemed as important by most respondents
  - But risk of loosing substance in case of institutionalized impact

« I just have this feeling that people have adapted some standard phrases about impact. And, you know, about social impact, holding some conferences and connecting to some stakeholders, and things like that, involving someone from the labor market as consultant, background groups and bla bla bla. A few things are like this, yes. ”

(IS, female senior sociologist)

## Attitude towards impact (2)

- Impact not only « instrumental »: critical social engagement as a sociologist's duty
- Possible to combine international publications with impact driven activities and publications

“[The Open Access institutional repository of my university] gives an extremely important visibility to works that are not necessarily recognized as such. I realize that one of my syllabus has been downloaded so many times. [...] It gives visibility to less recognized types of research outputs. Conversely, my latest publications [...] are clearly peer reviewed and had an impact factor, but finally they seem to me to have infinitely less social relevance than things that I would have a hard time putting in a scholarly journal, because they are not ‘in the canons’.”

(BE, male senior sociologist)

# Perceived obstacles (1)

- Quick penetration in the international research market (in English)  
& International ranking of universities  
*vs.*
- Societal engagement at the local level (in vernacular languages)

“So, if a university wants to be globalized (what we call internationalization) and compete with other universities in Europe, it has to be part of these university rankings. Therefore, in our university we encourage our staff to publish in English and even those who publish in Greek are encouraged to have an abstract in English so it can count in Scopus. Now, at a local level, it is of course important to publish in Greek (the local language) in order for the university to be part of society and social activities, but if we want to go beyond the small boundaries of Cyprus we have to publish in English.”

(CY, male senior sociologist)

## Perceived obstacles (2)

- General lack of rewards and incentives: lack of (or lower) valorization of outreach (outputs)
- While outreach is time- and skill- intensive
- Open Access journals perceived as lower quality/reputation
- Lack of sound impact indicators
- Impact Factor not correlated to social impact

# Perceptions and attitudes towards impact

## 2. Early Career Investigators

# Diversity in impact conceptualization and engagement: accounting for social, epistemic and local contexts within the social sciences and humanities

Marc Vanholsbeeck, Karolina Lendák-Kabók and Alexis Dewaele

Not yet published!  
(Don't quote without authors' authorization)

# Methodology

- CARES project: 105 questionnaires in 29 European countries about ECIs' definitions and experience of impact and impact creation
- Impact to be considered as a “boundary object” (Star and Griesemer, 1989)
  - Common structure across “social worlds”
  - Community-specific conceptualizations
- Hence better to avoid any “one size fits all” approach in the implementation of the “impact agenda”

# Exploratory results (1)

- Commonalities
  - Positive views even if time consuming and in tension with research
  - Complex notion
  - Specific SSH pathways to impact creation
  - Accountability
  - High motivation but lack of support and incentives

## Exploratory results (2)

- Difference in meanings linked to
  - Generation gaps: “entrepreneurial” ECIs vs. older researchers
  - Stage of the (early) career
  - Type of methodology
  - Motivation by research (and impact as a potential outcome) or impact (and research as a tool) first
  
- Next steps: is impact gendered?

# Discussion

- Polymorphic universities needed
  - Diversified and open ecosystems of research production-dissemination-evaluation
  - Diversified career paths and profiles
- Impact and Open Science related skills (as part of the doctoral education)

# References



Barry, J., J., & Chandler, H. C. (2001). Between the ivory tower and the academic assembly line. *Journal of Management Studies*, 38(1), 87-101.

Bayley, J., Phipps, D., Batac, M., & Stevens, E. (2018). Development of a framework for knowledge mobilisation and impact competencies. *Evidence & Policy: A Journal of Research, Debate and Practice*.

Benneworth, P. (2014). Tracing how arts and humanities research translates, circulates and consolidates in society. How have scholars been reacting to diverse impact and public value agendas?. *Arts and Humanities in Higher Education* 1474022214533888, first published on May 14, 2014 as doi:10.1177/1474022214533888.

Besley, J. C., Dudo, A., Yuan, S., & Lawrence, F. (2018). Understanding scientists' willingness to engage. *Science Communication*, 40(5), 559-590.

Besley, J. C., & Nisbet, M. (2013). How scientists view the public, the media and the political process. *Public Understanding of Science*, 22(6), 644-659.

Caplan, N. (1977). The use of social research knowledge at the national level. *Social Research in Public Policymaking*, 183 – 197.

Carayannis, E. G., & Campbell, D. F. (2009). 'Mode 3' and 'Quadruple Helix': toward a 21st century fractal innovation ecosystem. *International journal of technology management*, 46(3-4), 201-234.

Chandler, J., Barry, J., & Clark, H. (2002). Stressing academe: The wear and tear of the new public management. *Human Relations*, 55(9), 1051–69.

Davies, S. R., & Horst, M. (2016). *Science Communication: Culture, Identity and Citizenship*. Springer.

Deem, R. (2003). "New managerialism in UK universities: manager-academic accounts of change". In H. Eggins (Ed.), *Globalization and reform in Higher Education*. Berkshire : Open University Press, 55-67.

Derrick, G., & Samuel, G. (2017). The future of societal impact assessment using peer review: pre-evaluation training, consensus building and inter-reviewer reliability. *Palgrave Communications*, 3, palcomms201740.

DiMaggio, P. J., & Powell, W. W. (1983). The iron cage revisited: institutional isomorphism and collective rationality in organizational fields. *American Sociological Review* 48(2), 147–160.

Dobbels, J., Kesbeke, W., & Ysebaert, W. (2015). Hoe onderzoekers werkelijk denken over valoriseren. *TH&MA*, 1: 93-97.

European Commission (2018). *Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee and the Committee of the Regions: Horizon 2020 interim evaluation: maximising the impact of EU research and innovation*. 11/01/2018.

Gibbons, M., Limoges, C., Nowotny, H., Schwartzman, S., Scott, P., and Trow, M. (1994). *The new production of knowledge: The dynamics of science and research in contemporary societies*. London: Sage.

Gläser, J., & Laudel, G. (2016). Governing science: how science policy shapes research content. *European Journal of sociology/Archives Européennes de sociologie*, 57(1), 117-168.

Gronvad, J., Hvidtfeldt, R., & Pedersen, D.B. (2017). Analysing co-creation in theory and in practice – A systemic review of the SSH impact literature. Retrieved from [https://docs.wixstatic.com/ugd/35d470\\_78a9168f52d347de9ea1c8b29998826a.pdf?index=true](https://docs.wixstatic.com/ugd/35d470_78a9168f52d347de9ea1c8b29998826a.pdf?index=true)

Hammarfelt, B., & de Rijcke, S. (2015). Accountability in context: effects of research evaluation systems on publication practices, disciplinary norms, and individual working routines in the faculty of Arts at Uppsala University. *Research Evaluation*, 24(1), 63-77.

Hammarfelt, B., & Haddow, G. (2018). Conflicting measures and values: How humanities scholars in Australia and Sweden use and react to bibliometric indicators. *Journal of the Association for Information Science and Technology*, 24(2), 106–935.

Hug, S. E., Ochsner, M., & Daniel, H.-D. (2013). Criteria for assessing research quality in the humanities: a Delphi study among scholars of English literature, German literature and art history. *Research Evaluation*, 22(5), 369–383.

Kalfa, S., Wilkinson, A., & Gollan, P. J. (2018). The academic game: Compliance and resistance in universities. *Work, Employment and Society*, 32(2), 274-291.

Kaltenbrunner, W., & de Rijcke, S. (2017). Quantifying 'Output' for Evaluation: Administrative Knowledge Politics and Changing Epistemic Cultures in Dutch Law Faculties. *Science and Public Policy*, 44(2), 284-293.

Kattel, R., and Mazzucato, M. (2018). Mission-oriented innovation policy and dynamic capabilities in the public sector. *Industrial and Corporate Change*, 27(5), 787–801.

Kehm, B. M., & Leiðytė, L. (2010). "Effects of New Governance on Research in the Humanities—The Example of Medieval History". In D. Jansen (Ed.), *Governance and Performance in the German, Public Research Sector*. Dordrecht: Springer, 73-90.

King's College London, & Digital Science (2015). "The nature, scale and beneficiaries of research impact An initial analysis of Research Excellence Framework (REF) 2014 impact case studie". Research Report 2015/01.

Kirkpatrick, I., & Ackroyd, S. (2003). Transforming the professional archetype? The new managerialism in UK social services. *Public Management Review*, 5(4), 511-531.

Kulczycki, E., Engels, T. C., Pölönen, J., Bruun, K., Dušková, M., Guns, R., Nowotniak, R., Petr, M., Sivertsen, G., Istenič Starčič, A., & Zuccala, A. (2018). Publication patterns in the social sciences and humanities: evidence from eight European countries. *Scientometrics*, 116(1), 463-486.

Lam, A. (2010). From "ivory tower traditionalists" to "entrepreneurial scientists"? Academic scientists in fuzzy university-industry boundaries. *Social Studies of Science*, 40(2), 307–340.

Linková, M. (2014). Unable to resist: Researchers' responses to research assessment in the Czech Republic. *Human Affairs*, 24(1), 78-88.

Meagher, L., Lyall, C., & Nutley, S. (2008). Flows of knowledge, expertise and influence: a method for assessing policy and practice impacts from social science research. *Research Evaluation*, 17(3), 163-173.

Miedema, F., Mayer, K., Holmberg, K., & Leonelli, S. (2018). Mutual Learning Exercise: Open Science — Altmetrics and Rewards. [file:///C:/Users/vanhma01/Downloads/MLE%20OS Final%20Report 0%20\(4\).pdf](file:///C:/Users/vanhma01/Downloads/MLE%20OS%20Final%20Report%20(4).pdf)

Medina, L. R. (2013). *Centers and Peripheries in Knowledge Production*. Routledge.

Merton, R. K. (1973) [1942]. "The Normative Structure of Science". In R.K. Merton, *The Sociology of Science: Theoretical and Empirical Investigations*. Chicago: University of Chicago Press, 267-278.

Morris, N., & Rip, A. (2006). Scientists' coping strategies in an evolving research system: The case of life scientists in the UK. *Science and Public Policy*, 33(4), 253–263.

Muhonen, R., Benneworth, P., & Olmos-Penuela, J. (2019). From productive interactions to impact pathways: Understanding the key dimensions in developing SSH research societal impact.

Oliver, C. (1991). Strategic responses to institutional processes. *Academy of management review*, 16(1), 145-179.

Research Councils UK (2014). Pathways to Impact. Retrieved from <http://www.rcuk.ac.uk/innovation/impacts/>

Ruiz-Pérez, S. (2017). Drivers and barriers for open access publishing: from soap data 2010 to wos data 2016. PhD Thesis. University of Granada. <https://zenodo.org/record/842016#.W8MUoVSLSCo>

Sivertsen, G. (2017). Frameworks for understanding the societal relevance of the humanities. Paper presented to RESSH2017 - Research Evaluation in the Social Sciences and Humanities, Antwerpen, 6th7th July 2017.

Spaapen, J., & Van Drooge, L. (2011). Introducing 'productive interactions' in social impact assessment. *Research Evaluation*, 20(3), 211-218.

Star, S. L. & Griesemer, J. R. (1989). Institutional ecology, 'translations' and boundary objects: Amateurs and professionals in Berkeley's Museum of Vertebrate Zoology, 1907-39. *Social studies of science*, 19(3), 387-420.

Teelken, C. (2011). Compliance or pragmatism: how do academics deal with managerialism in higher education? A comparative study in three countries. *Studies in Higher Education*, 37(3), 271-290.

Vanholsbeeck, M. (2012). Entre qualité prescrite et qualité souhaitable. L'ambivalence des chercheurs en communication face à l'évaluation de leurs publications. *Quaderni. Communication, technologies, pouvoir*, (77), 71-84.

Vanholsbeeck, M. (2017). La notion de Science Ouverte dans l'Espace européen de la recherche. Entre tendances à l'«exotérisation» et à la «gestionnarisation» de la recherche scientifique. *Revue française des sciences de l'information et de la communication*, (11).