

Documenting and analyzing humanities and social sciences scholarship

David Budtz Pedersen PhD Rolf Hvidtfeldt PhD Louise Amstrup

28 March 2019 Technical University of Denmark | OPERA Conference



AALBORG UNIVERSITET

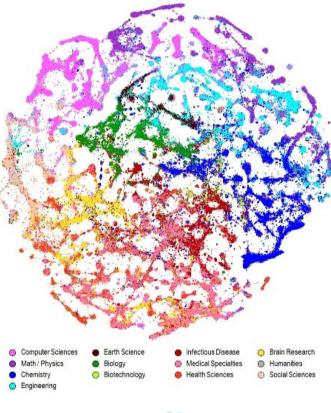
Agenda

- David Budtz Pedersen Introduction and Framework
- Rolf Hvidtfeldt Open Research Analytics for Tracing SSH Impact
- Louise Amstrup Field Observations of Implementing SSH Metrics
- Katja Mayer European Pathway to SSH Research Impact
- General discussion and Q&As



Humanomics Research Centre

- Meta-research unit focused on studying the interdisciplinary and societal impact of research.
- 15 researchers, grants: Velux Foundation, Danish Council for Independent Research, European Commission, Danish Ministry of Science etc.
- Running projects "Mapping the Public Value of Humanities", "Responsible Impact", "Open Science Research Analytics" & H2020 "ACCOMPLISSH"









David Budtz Pedersen *Professor Principal Investigator*



Birger Larsen Professor



Mikael Vetner Head of Department

Marianne Lykke Professor



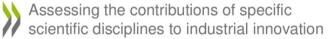
Rolf Hvidtfeldt *Postdoc*

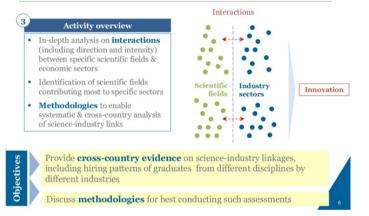


Louise Amstrup Research Fellow











R-QUEST Center for Research Quality and Policy Impact Studies

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RESEARCH QUALITY AND POLICY IMPACT

Quality in research is a highly prioritized, but also a much debated issue in research policy. The Centre for Research Quality and Policy Impact Studies (R-QUEST) constitutes an 8-year commitment to explore the nature and mechanisms of research quality – funded by the RCN FORINNPOL initiative. The centre will address three closely related questions:

ACCOMPLISSH

ACcelerate CO-creation by setting up a Multi-actor PLatform for Impact from Social Sciences and Humanitie



UiO University of Oslo

For employees Norwegian website O Search

OSIRIS - Oslo Institute for Research on the Impact of Science

A part of TIK Centre for Technology, Innovation and Culture at Faculty of Social Sciences

Liene Nieure Evente Alecut

Open Science Policy Agenda

- Increasing dissatisfaction with current (*closed*) publication models
- Increasing public demands for Responsible Open Science & Innovation
- Increasing policy interest in mission- and challenge-driven research (SDGs)
- Increasing importance of research for future employment, competitiveness, growth, well-being and policy-making ("broader impact")
- Increasing emphasis on reviewing merit & promotion criteria ("Meritudvalg")
- Increasing access to new digital tools and metrics that represent and track the dissemination and uptake of research (beyond bibliometrics)



... Also the Humanities?

OPERA WP2 objectives

- Enabling adequate documentation of humanities scholarship and social impact
- Documenting and analyzing SSH scholarship
- Experiment with metrics for publications, citations, co-authorship, and co-production w. collaborators

Open Human Science: Transdisciplinary and Transmedial Research David Budtz Pedersen and Kristian Moltke Martiny Open science is the idea that scientific knowledge of all kinds should be openly shared as early as practical in the discovery process Michael Nielsen

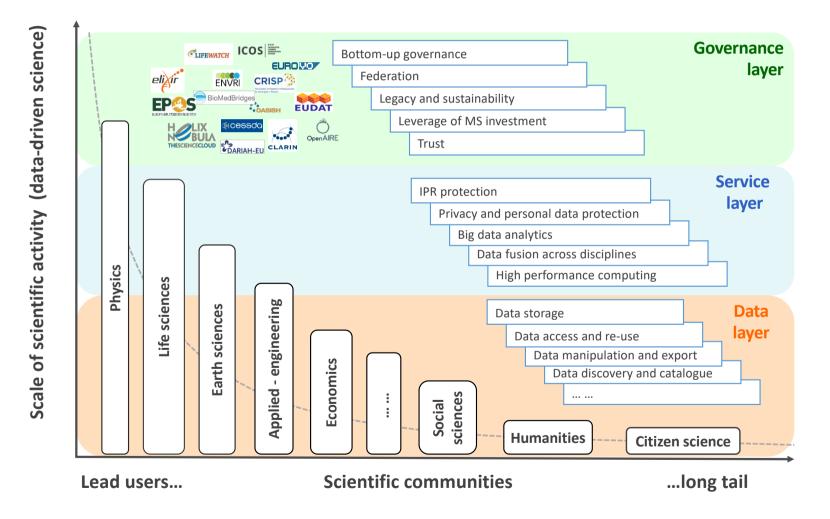
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Introduction

Open science is the practice of making everything in the research process openly available, creating transparency and driving research collaboration across disciplines and communities. Until now, open science has taken form as an emerging trend within the natural, medical and technical sciences, centred on notions of open data, open laboratories, open peer review and open access publication (Watson 2015; Aleksic et al. 2014; Delfanti 2013). In this chapter we want to examine the potential and possibilities of expanding the notion of open science to the human sciences. The humanities constitute a vast and variegated research field, with some disciplines closer to the natural and social sciences and others more integrated with traditional patterns of disciplinary knowledge production. What would an open human science look like? How can the humanities be inspired by current developments in the natural and medical sciences and open up to society in new and transgressing ways? In order to answer these questions it is crucial to move beyond simple notions of open data, and look at the resources available to the humanities to open up their educational resources, their communication practices, their methodologies and the way in which they produce and disseminate research to the wider public. In the end, we believe an open human science can overcome some of the oft-cited criticisms directed against the humanities (e.g. that they are self-referential and encircled



European Open Science Cloud



International Meta-Review of Impact Indicators in SSH

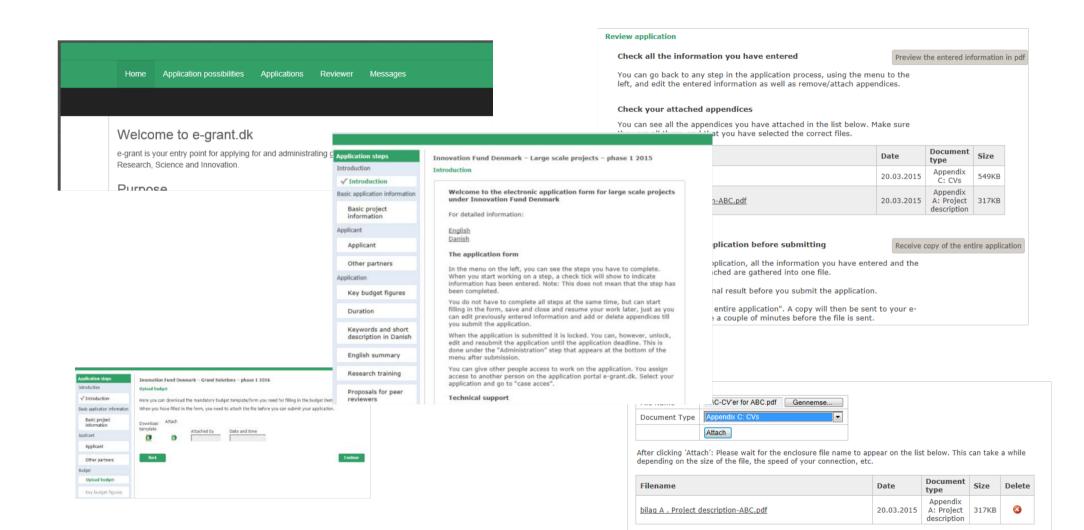
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Implemented ex ante (Prospectively)										
Implemented ex post (Retrospectively)										
Impact plan, template, theory of change										
 Tracking from process, interactions										
Tracking from outcome, impact										
Logic model/representation										
Stakeholder inclusion (alignment efforts										
 Bibliometrics indicators										
 Altmetrics indicators										
 Register and adm. data										
 Commercialization statistics										
Peer/expert review (judgement)										
 Impact repositories										
User-information										
 Case-study (impact narrative)										
Surveys										
Interviews										
Workshops/Focus groups										
Field/site visits										
 Document analyses										



Budtz Pedersen, Grønvad & Hvidtfeldt (2019), forthcoming/in press. Research Evaluation



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ÖPLUMX

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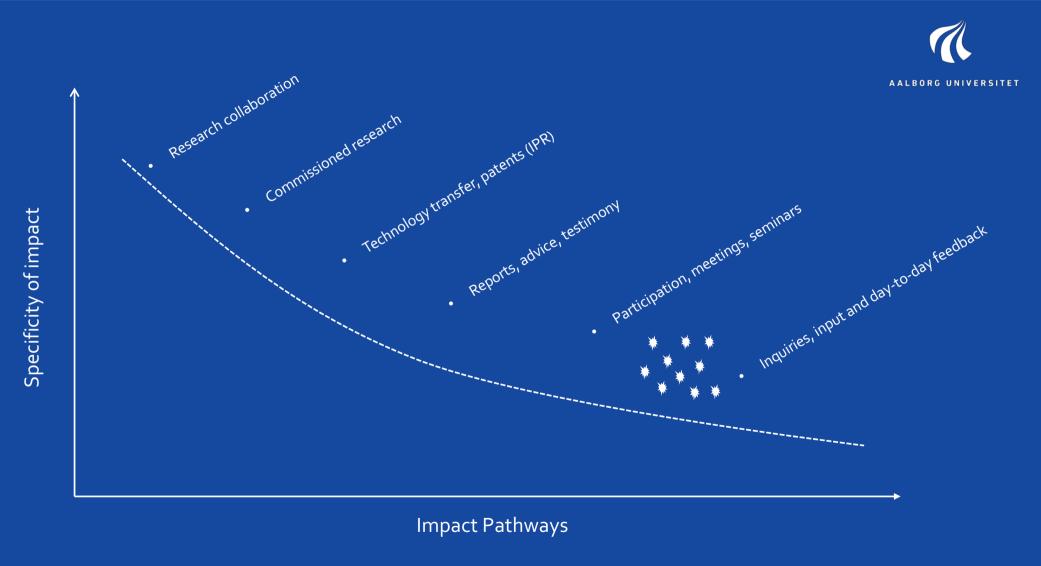
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Domain-specificity and impact profiles



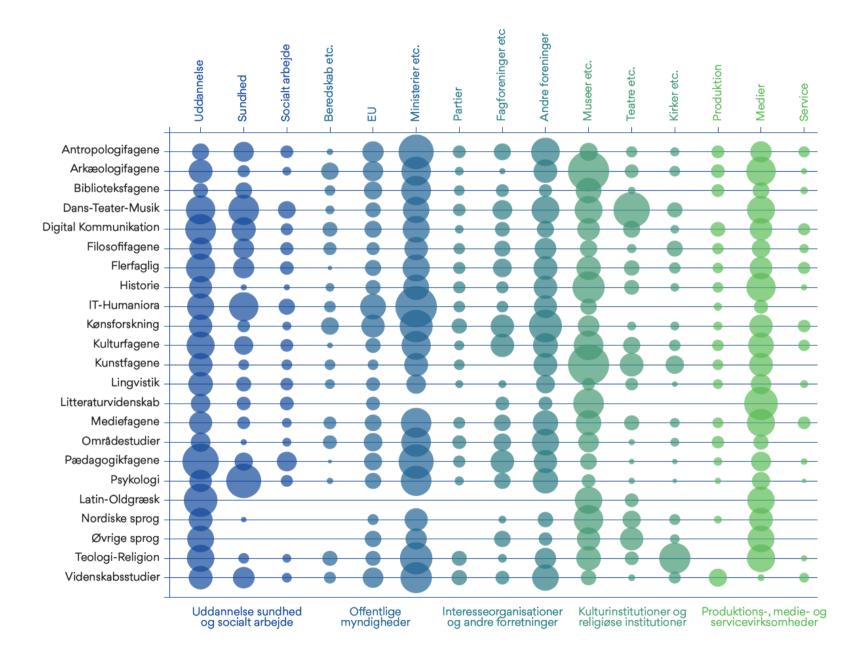


Budtz Pedersen et al. 2018 Humanities Impact Survey 1371 respondents

Knowledge exchange in the Humanities in Denmark (n=1372)

"The survey shows that a large part of humanities scholars at Danish universities actively participate in knowledge exchange and collaboration. 82 per cent of faculty has collaborated with actors and institutions outside academia within a reference period of three years" 82,29%

Budtz Pedersen et al. 2018 Humanities Impact Survey 1371 respondents



ReAct VIVO Impact Assessment Platform

Budtz Pedersen & Hvidtfeldt (2019)

- Building an Open Impact Assessment system comprised of three main analytical steps:
 - 1. metrics-based 'participatory indicators' to trace "micro impacts" and monitor their real-time dynamics ('numbers');
 - 2. qualitative contextualisation of these indicators supplemented with qualitative evidence of specific impact pathways ('narrative');
 - 3. integrated analysis and case studies focusing on the local dimension of impacts assessed by 'extended peer review'.



RESEARCH & TESTING

- Analyses of existing systems and metrics
- Literature review
- Conceptual development
- Participatory workshops
- Data collection (n≈50 researchers)
- "Bottom up" calibration of taxonomy
- Focus groups response

DEPARTMENT OF COMMUNICATION AND PSYCHOLOGY



e.g. publications of all kinds, distribution of research based products of all kinds, activities such as talks, debates, discussions, participation in development, meetings, events, exchanges of advice, collaborative interactions. Points of contact. Quite tangible indicators that there might be Something interesting going on... MICRO-IMPACT

IMPACT:

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

Are, public policy or wironment or academia" (REF) Transient, geographically dispersed, temporally dispersed, haunted by attribution problems...

e.g. cultural development, legislative changes, altered educational practices, policy adjustments, economic growth, technological developments etc.

4 TYPES OF MACRO-IMPACT

Prototypical form of macro-impact: Scientific insight or innovation that immediately (more or less) result in significant change or disruption. E.g. technology that rapidly and significantly alter general circumstances such as smartphones, social media, or self 1. driving cars. ·.. Uhi

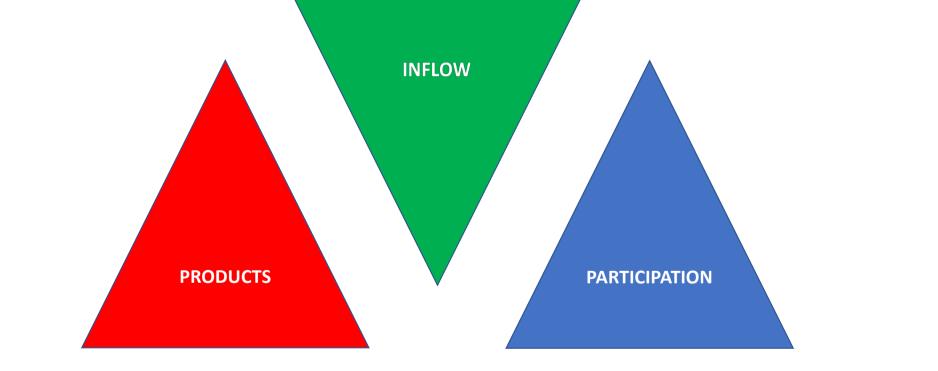
INVISIBLE PATHWAYS

- 2. Series of recompacts which eventually, once critical mass is reached, results in significant change. Egrope gradual buildup to legal change on the basis of research.
- Gradual progress, buildup of capacity, or etrenforms of change based on accumulation of micro-impacts. BUT without ever reaching any remarkable tipping point. E.g. didactical research: a steady general progress (perhaps with occasional setbacks) that leads to overall increase in literacy and/or bildung. (Ner natimpact?) 3.

INVISIBLE

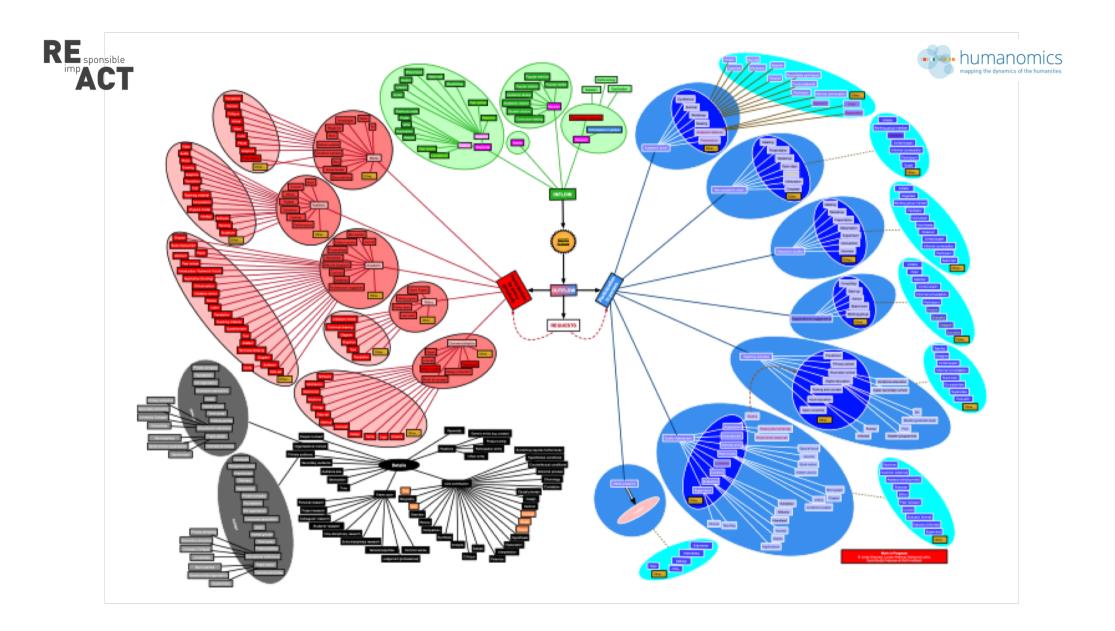
Micro-impacts contributing to the sustainment of functionality. "You don't know what you got till it's gone". E.g. comments to law-texts by legal scholars. 4.

≈120 TYPES OF MICRO-IMPACT









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REACT - RESPONSIBLE IMPACT

() () (ii)



Responsible Impact (ReAct) is an explorative research project intended to develop new tools for registering and monitoring research impact in real-time. By applying a rich and comprehensive impact taxonomy developed by interactive feedback from researchers combined with a user-friendly web-based research registration interface, the project aims to capture the diverse

impact profiles of heterogeneous research groups while at the same time allowing researchers to have significant influence on how their impact is represented and communicated. The project is supported by **The Obel Family Foundation** and hosted by the Department of Communication and Psychology at Aalborg University.

BACKGROUND

Universities and research funding agencies increasingly seek to understand and assess the way in which research translates into societal impact. In recent years there has been a dramatic increase in attempts to promote and measure knowledge exchange between universities and society as well as to capture the impact of research by indicators and metrics. Most indicators focus on bibliometric output and economic benefits (e.g. numbers of spin-offs, patents, gross value added, jobs created). While these are relatively easy to measure, it has turned out much more difficult to answer, especially with data and evidence, how universities and research groups are bringing about broader societal benefits (in society, economy, environment).

ReAct aims to develop a model of *Responsible Impact* by assessing how research practices translate into societal capacities and are directed towards a number of social ends. By explicitly drawing on a responsible approach to research analysis, ReAct takes into account the **diversity of impacts** by creating a participatory REACT > REACT MANIFESTO > WORK PACKAGES > TEAM > PUBLICATIONS > NEWS & EVENTS > ADVISORY BOARD >

CONTACT

ReAct welcomes inquiries regarding the group's research activities and partnership opportunities. Inquiries from the media are also welcomed.

For general inquiries, contact:

Prof. David Budtz Pedersen (PI) davidp@hum.aau.dk

GENERAL FEEDBACK

The feedback we have received on the project have overall been positive. The participants find the aim and the discussions the project addresses important and relevant.

The participants hope that the project will make it more evident what is going on in research, how many steps it takes just to collect the data, and lead to more appreciation of all the "invisible" and informal work taking place. They also hope the project somehow can make the terms better for comparing the SSH and the natural sciences.





But I think it can help breaking down some of the frontiers drawn between, what is our job or how do we achieve some research results, because we somehow have a separate world, one with some research groups and some research, and then you have teaching on the other side, and it is often you experience "no, we should not talk about that right now, because that is teaching" or "no, we should not talk about that, it is research", but it becomes very distinct, when you are registering, how connected it actually is... 🖦 humanomics

REsponsible

ACT

DATA COLLECTION AND REGISTRATION BEHAVIOR

452 meetings (includes e-mails, Skype- and phone calls)

In average 10 meetings per person - approximately half of them physical meetings of 45 minutes in average

Flexible service - approximately 18% of the participants have independently been responsible for their own registration



VIVO DATA

Creates an overview and supports memory

The data can be used for documentation, e.g. in job applications and for internal learning.

The taxonomy can also be used as a tool to e.g. facilitate dialogue and for professional development



" And this is where I think, that if you are getting some big EU project, then maybe there won't be any publications the first two years, because you have been spending your time on something else, and then suddenly it becomes very important to be able to document, it is not because this person has been lazy for two years, it is actually just because"

SOME CONCLUSIONS

The project have overall been well received

The registration and the taxonomy have been found usable for several purposes

If future use of Vivo/ a similar impact assessment tool it is important to consider impact portfolio management: how to facilitate the registration process



Scenarios for future implementation

- Achilles heel for Open Science is "merit & metrics" (EU Commission Expert Group on Open Science 2018).
- Commission urges Member States to align university reward structures with OS activities.
- Commission calls for an emerging need to expand European university indicators to include OS metrics ('Bucharest Declaration').
- Commission is committed to make OS performance a mandatory criterium for grants and impact assessment in FP9 Horizon Europe



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HOW TO ORGA		PATHWAYS? Practices
Questions value-for-society of SSH research	Skill sets for impact & co-creation Research Readiness Independent research + Honest broker	timely advise Merit & Incentives More societal allies (industry/policy)
changes in the e/valuation systems (role) models and forms	Keeping diversity in eval. criteria Develop Open Indicators / Evaluation Transparency – in <i>infrastructure</i> Importance of research group Diversification of career paths	From outcome- to process-oriented Focus on 'collectives' rather individuals Learned societies & alliances – more involved in expert groups / statements
of leadership interaction with existing value systems and strategies (SDGs,)	Collect better evidence for SSH involvement in policy-making (incl. SDG, missions etc.)	Alignment of values, practices, incentives and indicators Involve NEW 'concerned' stakeholders in mission at all levels (more chairs)
role models and leadership of SSH in mission oriented and participatory settings	Permanent positions for Honest brokers (science attaches, boundary spanners).	Change agents / brokers / Impact Management Impact literacy SSH should make 'topics' more levant for SSH research

Thank you for the attention

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Contributions from Rolf Hvidtfeldt, Jonas Grønvad and Louise Amstrup





