DAY 2



WELCOME AND SUMMARY FROM DAY 1





Summary day 1

- Reasons to be here: make it operative, beyond bla bla, balancing basic science
- Logic models which show that there is more than just chance between research and impact (which is not evident)
- Stakeholder engagement, Impact Pathways,
- Create impact culture: by setting objectives, by starting with a clear mission
- Today: how to report on impact, nationally and as organisations how to implement the plan where to start
- Assignment



A 2.5-day International Winter Course on **Integrating Societal Impact** in a Research Strategy 27 - 29 November 2019 Oslo, Norway AESIS EARMA researchfish" For Managers of university research, Research councils and Research foundations and All professionals involved in stimulating societal impact of science

AESIS

OVERVIEW OF 3 DAY PROGRAMME

Day 1 Introductions (presenters and yourselves) Introduction to your Case Study *Presentations*

Day 2 *Presentations* Work on your Case Study and prepare your presentation

Day 3 Feedback, main issues & questions, close

4



Integrating societal impact in a research strategy

27th – 29th November, Oslo

Impact Assessment Frameworks as Policy Instrument

David Sweeney Executive Chair of Research England





Impact assessment frameworks as policy instrument: the example of the REF

AESIS, November 2019

David Sweeney, Research England

Research Contributing to Society

- Why we did it
- What we did
- How it has turned out
- Evaluation
- What has happened since



Outline

- The challenge from the UK government
- The economic context –
- Issues to consider in the international context
- The universities and academics response
- Progress



The Challenge from HM Treasury

- 'Convince us that increased research investment is worthwhile'
 - From their point of view a reasonable question!
 - Playing back senior policy-makers arguments for investment
 - A rational economic argument (not a rhetorical political argument)
 - A question we thought we could answer
 - But to many academics it was a difficult question
 - Broaden the definition of 'best'
 - Evaluation vs impact



What kind of research impact

- Impact not evaluation
- Assessment not measurement
- Institutions (not universities) not projects
- Retrospective not prospective (can't predict impact...)
- All disciplines, not some
- Comparative, not absolute



Vetenskapsrådet



FOKUS – Research evaluation in Sweden

19 December 2014

Opposition to research assessment grows in Sweden

The Swedish Association of University Teachers (Sulf) has said that it won't provide input to a government consultation on a proposed research evaluation system, in protest against the plan.

1 Comment

On 7 October, Sulf reiterated its position that the performance-based evaluation system—which would be used to determine how much basic funding universities would receive—should not be introduced.

The move follows a decision by the Association of Swedish Higher Education (Suhf) in September to abstain from the public consultation. The association, which represents Sweden's rectors, said that—while the government was presenting the plan as minor adjustments to the funding model, the plan would mean "big changes for individual universities".

"The most serious criticism Suhf want to convey is that the proposals put forward lack a thorough impact assessment," the association said.

The Swedish Research Council proposed the FOKUS evaluation system in December 2014, after the government asked it to come up with a proposal to increase national research quality. Under the plan, research excellence and impact would be evaluated through academic peer review every six years, and the results used to direct 20 per cent of university block grants.

Sulf first outlined its opposition to the model in January this year, stating that the costs of running the evaluation—estimated at 170 million Swedish kronor (€17.5m) per evaluation round—would not improve research quality to a sufficient extent to justify its cost.

"The union believes that institutions' basic grants allows for their long-term operations and should not be exposed to competition," Sulf said in its latest statement. Commenting on possible amendments would serve no purpose, the union said: "Sweden should not be forced to choose between two evils, but should free basic grants entirely from this kind of competition."

In a statement, Sulf said that institutions already have internal peer review systems for evaluating research quality. Instead of creating confidence, the model would lead to a perception of mistrust in researchers and universities, it said.

The Swedish government is expected to make its amended proposal for the evaluation system as part of its 2017 research bill, to be presented this month.

Image: <u>opensource.com</u> [CC BY-SA 2.0], via Flickr



K O N I N K L I J K E N E D E R L A N D S E AKADEMIE VAN WETENSCHAPPEN

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HOME | NEWS | ABOUT US | MEMBERS | INSTITUTES | ADVISORY WORK | AWARDS | INTERNATIONAL | TOPICS

Zoeken...

> Home > Topics > Quality

QUALITY ASSESSMENT OF SCIENTIFIC RESEARCH



The Academy monitors the quality of scientific pursuit in the Netherlands. The aim of its quality assurance and assessment activities is to enable the system of science and scholarship to function efficiently, effectively and in line with the stated research targets and societal objectives.

The Academy is involved in quality assessment in several ways:

- It gives advice about quality assessment in separate disciplines.
- Together with the Netherlands Association for Scientific Research (NWO) and the Association of Universities in the Netherlands (VSNU), it is responsible for the Standard Evaluation Protocol.

Academy advice on quality

indicators

Scientific quality cannot be assessed only on the basis of scientific publications and citation impact. That is far from sufficient for many disciplines. The standard methods for quality assessment disregard important parts of the research field. Examples include designs and software in the construction disciplines, or Dutchlanguage books and articles that are not taken into account in the citation statistics. The Academy advises on proper assessment criteria in a wide range of disciplines. There are reports about the design and construction disciplines, the humanities, and the social sciences.

Quality assessment in the design and construction sciences

Quality indicators in the humanities

Quality assessment in the social sciences

Accreditation of research schools

Research School Accreditation Committee (ECOS)

Accredited research schools

Standard Evaluation Protocol

The Academy, the NWO and the VSNU have adopted the Standard Evaluation Protocol 2015-2021 – (SEP) for evaluating research. The protocol is suitable for broad research assessments, including researcher training. The SEP provides guidelines for evaluating and improving research and research policy. An assessment according to the SEP 2015 - 2021 consists of an external evaluation conducted once every six years and involving a self-evaluation report and a site visit.

The three organisations are responsible for the SEP and any subsequent protocol in 2021.

Protocol

Standard Evaluation Protocol (SEP) 2015-2021

For more information about SEP

Rapport 'Kwaliteitszorg in de wetenschap'

Report 'Quality assurance in scientific research'

E-va-lu-e-ren' report of the Meta Evelvetien Committee







HOME PAGE MENU SEARCH PROGRAMME SITES

>News > Video archive

Societal impact of research to be evaluated

Society is investing more and more resources in research, and research results are being implemented in constantly new ways. From now on, the societal impact of research will be a key element of the Research Council of Norway's evaluations of subject fields and research institutes.

Previous subject-specific evaluations have primarily focused on the quality of the research. Now this perspective is being expanded to include evaluation of the various ways and extent to which the research yields returns for society.

"We need to obtain an accurate, up-to-date picture of the role of research in society," says Anders Hanneborg, Executive Director of the Division for Science at the Research Council. "To accomplish this we need more knowledge about the actual interaction between research and society. Our subject-specific and research institute evaluations are an important tool in this regard."



We need more knowledge about the actual interaction between research and society, says Anders Hanneborg. (Photo: Sverre Jarild)

Methods depend on the discipline

The societal impact of research spans a wide range, from short-term economic gain to influencing how human identity is formed.

"It is clear that the interaction between research and society is different for the technology disciplines, for example, than for the humanities and social sciences," adds Mr Hanneborg. "To evaluate the societal impact of the research, we apply different methods tailored to the distinctive features of the respective disciplines."

The Research Council will soon be concluding its evaluation of the technical-industrial institutes (read more in Norwegian here). Evaluations of the social science institutes (more in Norwegian here) and of humanities research (more in Norwegian here) will begin in late 2015.

"For the technology disciplines, we can more precisely calculate the socio-economic impact in the short and long term, although these are complex calculations," explains Christen Krogh, Director of the Department for Humanities and Social Sciences at the Research Council. "In our evaluation of the technical-industrial research institutes, we calculate the financial added value generated for the research contractors. Among other things, we ask companies whether procurement of services from the institutes yields higher revenues."





Measuring the unquantifiable

At the opposite end of the spectrum are the social science disciplines and particularly the humanities. Humanities research contributes in many ways that are often less visible such as developing tests for child language disorders or enhancing cultural understanding of



The nature, scale and beneficiaries of research impact

An initial analysis of Research Excellence Framework (REF) 2014 impact case studies

King's College London and Digital Science

Prepared for the Higher Education Funding Council of England, Higher Education Funding Council for Wales, Scottish Funding Council, Department of Employment and Learning Northern Ireland, Research Councils UK and the Wellcome Trust

















Working Group 2: Impact Assessment

BMJ Open Understanding the relative valuation of research impact: a best-worst scaling experiment of the general public and biomedical and health researchers

Alexandra Pollitt,¹ Dimitris Potoglou,² Sunil Patil,³ Peter Burge,³ Susan Guthrie,³ Suzanne King,³ Steven Wooding,³ Jonathan Grant¹

To cite: Pollitt A, Potoglou D, Patil S, *et al.* Understanding the relative valuation of research impact: a bestworst scaling experiment of the general public and biomedical and health researchers. *BMJ Open* 2016;6:e010916. doi:10.1136/bmjopen-2015-010916

 Prepublication history and additional material is available. To view please visit the journal (http://dx.doi.org/ 10.1136/bmjopen-2015-010916).

Received 18 December 2015

ABSTRACT

Objectives: (1) To test the use of best–worst scaling (BWS) experiments in valuing different types of biomedical and health research impact, and (2) to explore how different types of research impact are valued by different stakeholder groups. **Design:** Survey-based BWS experiment and discrete

choice modelling.

Setting: The UK.

Participants: Current and recent UK Medical Research Council grant holders and a representative sample of the general public recruited from an online panel.

Results: In relation to the study's 2 objectives: (1) we demonstrate the application of BWS methodology in the quantitative assessment and valuation of research impact. (2) The general public and researchers provided similar valuations for research impacts such as improved life expectancy. iob creation and reduced

Strengths and limitations of this study

- This study contributes to the evidence base on how different stakeholder groups (researchers and the general public) value different types of research impact, an area in which there is a lack of methodological and empirical research.
- This study is important because research funders are increasingly interested in measuring (and rewarding) the societal (or non-academic) impact of research.
- We demonstrate the first application of surveybased best worst scaling methodology in the quantitative assessment of research impact and show that the general public and researchers value research impacts in different ways.
- There are limitations related to the samples used, in that the general public sample was not fully representative of the population and the drop-out



European Union

 Setting out his vision for Framework 9 for the first time at a conference on the European Research Area in Berlin on 10 October, Carlos Moedas said that impact was one of three 'core values' that he thinks the programme should have. The other two – excellence and openness – have already received a great deal of attention in Horizon 2020.



European Union (2)

In his speech, Moedas said that the Commission and researchers "have an obligation and an incentive to be much better at understanding and communicating the impact of what we do". He said that more could be done to "capture and measure different kind of outputs – including the unexpected ones", and that he hoped the next Framework programme could have a "more sophisticated approach" to impact'.



European Union (3)

 'Moedas didn't specify what this approach would be. But national government, mostly in northern Europe, that have implemented 'impact agendas' have called on grant applicants to draw up plans for ensuring impact in areas such as policy, public understanding, publications, patents and industrial application.'



Different approaches

- UK Knowledge Transfer metrics (HE-BCI and HEIF, income based)
- Australia 'engagement and impact'
- USA Star Metrics (intervention-based)
- EU Moedas Prospective to assess grants (cf UK Research Councils)
- UK Health Research Best/Worst
- Grants for USA Measuring research A guide to research evaluation frameworks and tools



Government response

- Acknowledged that impact was now a major driver (which was win for us long before we assessed impact)
- Because of impact the whole frame of reference around research had shifted far more important than the mechanics of assessment
- Science and Research investment protected while the rest of public investment cut by at least 30%
- At enormous political cost, investment in education was protected by passing the cost to the graduate
- Universities declared to be at the heart of business recovery, particularly outside London and the South East
- University investment used to unlock the capital which big business was sitting on



What it was & what it wasn't

- Demonstrating the contribution to society:
 - Not about conceding the authority to dictate research directions
 - Not about moving to lots more applied research, but about validating the contribution of 'fundamental' research – although equally about recognising and rewarding applied work alike
 - Not about favouring one discipline over another equality of opportunity on this
 - Not about replacing academic excellence by societal impact, but complementary and an opportunity to demonstrate the impact of academically excellent work
 - Equally not about pretending that academic impact is societal impact



National objectives

Intellectual leadership in the development of new knowledge

- 'International comparative performance of the UK research base'— 'better than world average in all subject fields based on field-weighted citation impacts
- 'Well-rounded portfolio'







National objectives (2)

- Optimal contribution to society from that new knowledge 'Impact'
 - Culture change & broad engagement of universities/academics
 - Greater investment from business, not just to capture cash, but to support shared objectives
- 'When do we want it' now, of course, but recognising that is based on past investment
- Long-term success e.g. e-infrastructure, graphene









Determining a strategy

- Performance-based funding
 - Past success is a good guide to future success in a stable environment with long cycles
 - A mixture of metrics, peer judgement and expert advice to determine 'excellence'
- Public funding to unlock
 private funding
- Investing now for long-term success

Research Assessment (UK)

- Research Assessment Exercise RAE
 - Periodically since 1986
 - Primarily a peer review exercise for all disciplines metrics play a strictly limited part
 - Carries the confidence of academics and universities
 - A selective exercise, not an assessment of all UK research
 - The single most important driver for academics and universities in the United Kingdom.
 - Liked by Government as allows funding based on quality, unlike teaching.
 - Now the Research Excellence Framework REF



REF: A UK-Wide Framework

- 'Aiming to maintain the capacity of higher education to undertake world-leading research across a range of academic disciplines, promote economic growth and national well-being and the expansion and dissemination of knowledge'
 - Delivered by the REF team on behalf of the four funding bodies
 - Drives our selective allocations of research funding, supporting excellence wherever it is found, with strong performance incentive
 - Provides international benchmarks and reputational yardsticks
 - Provides accountability and demonstrates the benefits of public investment in research
 - Evidence base for strategic decisions at national level
 - Used by universities and others for resource allocation decisions
 - It provides a periodically updated reputational benchmark, which is based on rigorous peer judgement by fellow academics



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

2011-12 Preparation

Panels were appointed. Guidance and criteria were published.

2012-13 Submissions Universities made submissions in whichever subjects they chose to.

2014

Assessment

36 expert panels reviewed the submissions, guided by the 4 main panels.







The research of **154** UK universities was assessed

They made **1,911** submissions including:

- 52,061 academic staff
- **191,150** research outputs
- 6,975 impact case studies

The **overall quality** of submissions was judged, on average to be:

 \star \star \star **30%** world-leading (4*)

- **46%** internationally excellent (3*)
- **20%** recognised internationally (2*)
- **3%** recognised nationally (1*)





Overview: Timetable

2011

- Panels appointed (Feb)
- Guidance on submissions published (Jul)
- Draft panel criteria for consultation (Jul)
- Close of consultation (5 Oct)

2012

- Panel criteria published (Jan)
- HEIs submit codes of practice (by Jul)
- Pilot of submissions system (Sep)
- HEIs may request multiple submissions (by Dec)
- Survey of HEIs' submission intentions (Dec)

2013

- Launch REF submissions system (Jan)
- Additional assessors appointed to panels
- Staff census date (31 Oct)
- Submissions deadline (29 Nov)

2014

- Panels assess submissions
- Publish outcomes (Dec)







KK

The assessment framework

Overall quality



Overview:

Timetable 2012 2011 2013 Panel criteria • Panels appointed published (Jan) (Feb) (Jan) Guidance on

- submissions published (Jul)
- Draft panel criteria for consultation (Jul)
- Close of consultation (5 Oct)

- HEIs submit codes of practice (by Jul)
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2014

- Panels assess submissions
- Publish outcomes (Dec)





Research England

For the first time, REF has demonstrated the impact of UK research in all subjects

- Over 250 research users judged the impacts, jointly with academic panel members.
- **44%** of impacts were judged outstanding (4*). A further **40%** were judged very considerable (3*).
- Impressive impacts were found from research in all subjects.
- REF shows many ways in which research has fuelled economic prosperity, influenced public policy and services, enhanced communities and civic society, enriched cultural life, improved health and wellbeing, and tackled environmental challenges.




Impact: Submissions

Impact template (REF3a)

- Sets out the submitted unit's general approach to enabling impact from its research
- One template per submission – with a page limit depending on the number of staff submitted
- Covered the period 1 Jan 2008 to 31 Jul 2013
- Contributed 20% to the impact sub-profile

Case studies (REF3b)

- Specific examples of impacts that were underpinned by the submitted unit's research
- The number of case studies required depends on the number of staff submitted
- Impacts during 1 Jan 2008 to 31 Jul 2013; underpinned by research since 1 Jan 1993
- Contributed 80% to the impact sub-profile



Impact: Template (REF3a)

- The unit's approach to enabling impact from its research:
 - Context for the approach
 - The unit's approach during 2008-2013
 - Strategy and plans for supporting impact
 - Relationship to the submitted case studies
- Provided additional information and context for the case studies, and could take account of particular circumstances that may have constrained a unit's selection of case studies
- Assessed in terms of the extent to which the unit's approach was conducive to achieving impact of 'reach and significance'



Impact: Case studies (REF3b)

- In each case study, the impact described needed to:
 - Meet the REF definition of impact
 - Have occurred between 1 Jan 2008 and 31 July 2013 (could have be at any stage of maturity)
 - Be underpinned by excellent research (at least 2* quality) produced by the submitting unit between 1 Jan 1993 to 31 Dec 2013
- Submitted case studies needed **not** be representative of activity across the unit: pick the strongest examples



Impact: Case studies (REF3b)

- Each case study was limited to 4 pages and must have:
 - Described the underpinning research produced by the submitting unit
 - Referenced one or more key outputs and provide evidence of the quality of the research
 - Explained how the research made a 'material and distinct' contribution to the impact (there are many ways in which this may have taken place)
 - Explained and provided appropriate evidence of the nature and extent of the impact: Who / what was affected? How were they affected? When?
 - Provide independent sources that could have been used to verify claims about the impact (on a sample audit basis)



What about Metrics

- http://www.hefce.ac.uk/rsrch/REFreview/evaluation/What we did
- http://www.kcl.ac.uk/sspp/policy-institute/publications/Analysis-of-REF-impact.pdf
- 'The quantitative evidence supporting claims for impact was diverse and inconsistent, suggesting that the development of robust impact metrics is unlikely'



Impact Background (2)

- Definition: 'Research impact is the demonstrable contribution that research makes to the economy, society, culture, national security, public policy or services, health, the environment, or quality of life, beyond contributions to academia.'
- REF definition: 'Effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life beyond academia'



Research contribution

- Our starting point was that an optimal submission should include a portfolio of excellent research **and** build on that excellent research to deliver benefits which contribute to society.
- Contribution must be linked to high quality research
- Assessed at the level of whole units (not individual outputs or researchers)
- Equally demanding standards to the assessment of outputs



Assessing quality – 'Impact Agenda'

To identify and reward the contribution that high quality research has made to the economy and society:

- Making these explicit to the Government and wider society
- Creating a level playing field between applied and theoretical work, but recognising only impact based on excellent research
- Encouraging institutions to achieve the full potential contribution of their research in future
- Intellectually coherent with the historical purposes of universities



A wide view of impact





Impact: Definition for the REF

- An effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia
- Impact **includes** an effect, change or benefit to:
 - The activity, attitude, awareness, behaviour, capacity, opportunity, performance, policy, practice, process or understanding
 - Of an audience, beneficiary, community, constituency, organisation or individuals
 - In any geographic location whether locally, regionally, nationally or internationally
- It excludes impacts on research or the advancement of academic knowledge within HE; and impacts on teaching or other activities within the submitting HEI



Challenges of assessment

- *Time lags* we looked at impacts that were evident during REF period (from 2008-2012), underpinned by research over a longer timeframe
- **Attribution** case studies to tease out how the research *contributed* to the impacts
- Limitations of metrics expert panels assessed rather than measured impact; indicators were used as supporting evidence
- Corroboration there was scope for third party verification, and expert panels to judge credibility of the evidence



Assessment criteria

- Expert panels assessed benefit in terms of their 'reach' and 'significance'
- All panels included substantial user representation we suggested user members focus on the impact element, with reviewing outputs as 'optional'



This was not about

- Quantifying impact
- Focusing narrowly on economic impact
- Assessing impact of every researcher or output
- Trying to predict future impact
- Discouraging curiosity-driven research
- Trading-off impact and excellence



Culture and society

	A Impacts on society, culture and creativity: Impacts where the beneficiaries are individuals, groups of individuals, organisations or communities whose knowledge, behaviours or practices have been influenced	B Impacts on society, culture and creativity Impacts where the beneficiaries may include individuals, groups of individuals, organisations or communities whose knowledge, behaviours, creative practices and other activity have been influenced	C Impacts on creativity, culture and society: Impacts where the beneficiaries are individuals, groups of individuals, organisations or communities whose knowledge, behaviours, practices, rights or duties have been influenced
Research	D Civil society Influencing the form and content of associations between people or groups to illuminate and challenge cultural values and social assumptions.	D Public discourse Extending the range and improving the quality of evidence, argument and expression to enhance public understanding of the major issues and challenges faced by individuals and society.	D Cultural life Creating and interpreting cultural capital in all of its forms to enrich and expand the lives, imaginations and sensibilities of individuals and groups.



Economic and Commercial

A Commercial impacts:

Impacts where the beneficiaries are usually companies, either new or established, or other types of organisation which undertake activity that creates wealth A Economic impacts: Impacts where the beneficiaries are usually the NHS or private health care or agricultural activity B Economic impacts Impacts where the beneficiaries may include businesses, either new or established, or other types of organisation which undertake activity that may create wealth

C Economic, commercial, organisational impacts: Impacts where the beneficiaries may include new or established businesses, or other types of organisation undertaking activities which create wealth

D Economic prosperity Applying and transferring the insights and knowledge gained from research to create wealth in the manufacturing, service, creative and cultural sectors.



Health and welfare

A Health and welfare impacts:

Impacts where the beneficiaries are individuals and groups (both human and animals) whose quality of life has been enhanced (or potential harm mitigated) **B** Health impacts Impacts where the beneficiaries may include individuals (including groups of individuals) whose health outcomes have been improved or whose quality of life has been enhanced (or potential harm mitigated) through the application of enhanced healthcare for individuals or public health activities C Health and welfare impacts: Impacts where the beneficiaries are individuals and groups (human or animal) whose quality of life has been enhanced (or harm mitigated) or whose rights or interests have been protected or advocated



Public policy and services

A Impacts on public policy	B Impacts on public policy	C Impacts on public policy,
and services:	and services	law and services: Impacts
Impacts where the	Impacts where the	where the beneficiaries are
beneficiaries are usually	beneficiaries may include	usually government, public
government, public sector,	government, non-	sector and charity
and charity organisations	governmental organisations	organisations and societies,
and societies, either as a	(NGOs), charities and public	either as a whole or groups
whole or groups of	sector organisations and	of individuals in society
individuals in society,	society, either as a whole or	through the implementation
through the	groups of individuals in	or non-implementation of
implementation of policies	society	policies, systems or reforms
D Education Influencing the form or the content of the education of any age group in any part of the world where they extend significantly beyond the submitting HEI.	D Public services Contributing to the development and delivery of public services or legislation to support the welfare, education, understanding or empowerment of diverse individuals and groups in society, including the disadvantaged or marginalised.	D Policy making Influencing policy debate and practice through informed interventions relating to any aspect of human or animal well-being



Environment

A Impacts on the environment: Impacts where the key beneficiary is the natural or built environment B Impacts on the environment Impacts where the key beneficiaries are the natural environment and/or the built environment, together with societies, individuals or groups of individuals who benefit as a result C Impacts on the environment: Impacts where the key beneficiaries are the natural, historic and/or built environment, together with societies, individuals or groups of individuals who benefit as a result



Practitioners and services

A Impacts on practitioners and services: Impacts where beneficiaries are organisations or individuals, including service users involved in the development of and delivery of professional services	A Production impacts: Impacts where the beneficiaries are individuals (including groups of individuals) whose production has been enhanced
B Impacts on practitioners	C Impacts on practitioners and
and professional services	professional services:
Impacts where beneficiaries	Impacts where the beneficiaries
may include organisations or	may include organisations or
individuals involved in the	individuals involved in the
development of and delivery	development and/or delivery of
of professional services	professional services and ethics



REF Case Studies: Outcomes

- Universities and academics galvanized due to the importance of REF
- 6975 case studies
- Many focused on the long-term contribution of research to society
- Teased out the way in which impact arises
- Offered every discipline the opportunity to make its case in its own terms
- Stunning opportunity to build multi-disciplinary work into an exercise based around disciplines
- Evaluation by Rand Europe completed



Detail or Big Picture

- Easy to criticise the detail which may or not work in other contexts
- Arguing over detail misses 'the wood for the trees'
 - Do we want universities to be central to society?
 - How does that sit with our traditional mission?
 - Universities are already major economic actors where do we sit with our consequent social responsibility?



REF: the evidence





Myths and Anxieties

- Some impact is negative (Yes, but Panels can handle)
- All research must have impact (No)
- Only economic impact counts (No)
- The best impact does not come from the best research (Perhaps, but we need to know that)
- Arts and Humanities cannot demonstrate impact (No)
- Impact cannot be 'measured' (Yes, but it can be assessed)
- It takes time for happen (Yes, so allow for it)
- The expectation of impact is a threat to academic freedom (No)
- Impact will become an industry (Only if you let it be so)



• Measures will become targets (Depends if you own the agenda)

Challenges

- Assessing impact isn't perfect but we can learn and make it better
- There will be opposition from vested interests uncomfortable change for university leaders and for academics
- We don't have enough to offer to make it worthwhile
- Our traditional purposes will be eroded and
- Our research policies are already optimal perhaps we will indeed discover that
- We can do the same thing with a few simple metrics



What have we learnt

- Case studies are a lot of work but why?
- The attitude to impact has been transformed in universities
- The understanding of impact is much enhanced and by analysing the case studies as a whole – was even greater than anticipated
- It was costly



What we don't know yet

- Is research excellence highly correlated with research impact (and what are the implications)?
- How difficult is it to assess case studies across all disciplines?
- Which of the difficulties in assessment were particularly challenging?
- Will the revitalised approach to impact persist?



Next Steps

- 'If only the government would take the lead'
- 'There needs to be a funding reward for impact'
- Or should universities own and shape their futures?
- Cannot our best brains craft the solution which makes universities more central to societal futures?
- Or is collective action beyond us in the same way it sometimes seems to be beyond government?



Conclusion

- Government should be clear about its values
- Research instruments should recognise and reward what is valued so that incentives are provided
- Value judgements should not be a solely internal affair
- Methodology to do this was developed in Australia
 - Taken forward and piloted successfully in the UK
 - Implemented on large scale in the UK and will be evaluated
 - Further refined and piloted successfully in Australia
- Education & Research directions and outcomes driven by understanding of societal needs and contributing to societal outcomes





Questions?





Coffee/tea break We will start again at 11.00



UP NEXT....

How to set up an impactful research program

- Continuing to set the foundations for integrating and implementing societal impact
- Assessing and measuring the impact of your research strateg
- Communicating the societal impact

Barend van der Meulen & Kathryn Graham



LEARNING OUTCOMES

- Think about assessing and measuring progress to achieving your societal impact strategy
- Consider how to communicate your impact to your key stakeholders
- Review hands on examples and discuss
 lessons of implementation experiences



INTEGRATING AND IMPLEMENTING IMPACT







Assess and measure societal impact

ASSESS AND MEASURING SOCIETAL IMPACT: EVIDENCING IMPACT





"What gets measured gets improved"



Peter Drucker


ACHIEVING SOCIETAL IMPACT REQUIRES CONTRIBUTION FROM MANY ACTORS







27th – 29th November, Oslo

PERENNIAL CHALLENGES...



Time lags

Attribution & Contribution



AESIS

Transaction costs



Unit of assessment







TIMING CONSIDERATIONS FOR TRACKING IMPACT







WHAT ELSE SHOULD WE CONSIDER?









HOW DO WE CAPTURE THE EVIDENCE REQURIED? INDICATORS DEFINED

Measure, metric and indicator often used interchangeably

- Indicator: The particular characteristic or dimension used to determine change (e.g. speed)
- Measure/metric: The unit of measurement (e.g. km/hr)



27th – 29th November, Oslo

ENGAGE STAKEHOLDERS AND STRATEGICALLY ALIGN TO GENERATE AND SELECT INDICATORS



Strategically align

- Research vision
- Organization's mission
- Organizational and/or external mandatory requirements

Participative approach

- Ask stakeholders about their intended societal impacts
- Identify indicators of interest

Stakeholders can value different impacts – the challenge is prioritization and agreement







DEVELOP QUESTIONS AND INDICATORS ALONG IMPACT PATHWAY

> Develop impact questions and ask stakeholders what they need to know

> > Indicators

Gives the evidence to answer their questions





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USE THE CONCEPT OF INDICATORS

TO THINK THROUGH WHAT COUNTS AS EVIDENCE



NEXT WE MEASURE AND EVIDENCE IMPACT

MPACT



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wellbeing

HOW DO WE CAPTURE THE EVIDENCE REQURIED TO ANSWER STAKEHOLDER QUESTIONS?

INPUTS	PROCESSES	OUTPUTS	OUTCOMES	IMPACT
What resources are invested in research?	What activities are you doing to achieve organizational mission	What are the direct results/services/ solutions produced?	What was the uptake or adoption?	What were the changes/effects/benefits of using solutions for the beneficiaries?
 staff FTE funding in-kind contributions equipment/facilities 	 RTD education industry engagement (incl. SMEs) 	 publications prototypes patents applications training packages updated standards 	 Awareness of products Build capacity Knowledge advanced Stakeholder adoption Behavioral change 	 Economic diversified economy quality workforce Environmental water savings reduced GHGs Social health



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EXAMPLE ALBERTA INNOVATES IMPACT



* Research and Innovation Impact Framework V1.0, Jan. 07, 2019 (will be further refined)



Performance Monitoring, Evaluation and Assessment Activities

EXAMPLE OF FIT FOR PURPOSE INDICATORS



ENVIRONMENTAL IMPACT CATEGORIES	SOCIAL IMPACT CATEGORIES	ECONOMIC IMPACT CATEGORIES		NAPHRO indicators		
1. Air quality	1. Health and wellbeing	1. National economic performance		Provincial share of national & other funding		
2. Ecosystem health and integrity	2. Access to resources and opportunities	2. Trade an competitiveness		Research & Innovation (R&I) GDP		
3. Climate	3. Quality of life (material security and livelihoods) 3. Productivity and efficiency			Pharmaceutical R&I spending		
4. Natural hazards mitigation	4. Safety	4 Management of risk and uncertainty		4. Management of risk and uncertainty		Biotechnology R&I spending
				Federal-level funding success rates		
5. Energy generation and consumption	5. Security (e.g. cyber, biological, civil and military)	 Policies and programs New services, products, experiences and market Securing and protection existing markets 		Patents		
6. Land quality	6. Resilience			Licensing		
7. Aquatic environments	7. Indigenous culture and heritage			Spin-offs		
8. Built environments	8. Innovation and human capital (creativity and invention)			Employment		
	9. Social cohesion			Educational impacts		

MULTI DATA COLLECTION



ESIS

- Interviews
- Bibliometrics
- Focus groups
- Document analysis
- Surveys / questionnaires
- Economic analysis
- Case studies
- Text mining

SELECTING INDICATORS

INDICATOR QUADRANT TECHNIQUE





Making an Impact:

A shared framework for assessing the impact of health services and policy research on decision-making

PREPARED BY THE IMPACT ANALYSIS WORKING GROUP OF THE CANADIAN HEALTH SERVICES AND POLICY RESEARCH ALLIANCE (CHSPRA) AUGUST 2018

Horizon 2020

Assessing the results and impact of Horizon 2020





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EXAMPLE OF KEY PERFORMANCE INDICATORS





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BEST PRACTICE GUIDELINES

Guidelines, Manifesto, Standards, Professional Organizations

EC GUIDELINES

AESIS

ISRIA IMPACT STATEMENT

RESEARCH METRICS STANDARDS RECOMMENDATIONS











88



FINALLY WE COMMUNICATE THE IMPACT

Communicate Societal Impact

COMMUNICATE SOCIETAL IMPACT









"We have an obligation and an incentive to be much better at understanding and communicating the impact of what we do. Not only to ministers of finance, but to the general public!"

- Carlos Moedas, European Commissioner for Research and Innovation



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PURPOSE OF COMMUNICATIONS

Accountability Advocacy Analysis & Learning Allocation

Communicate for...

Sharing information Generating information Exchanging information **Engaging** decision makers

In order to...

Build relationships Impart knowledge, tools Create awareness, interest Stimulate behavior change

and inform policy/practice







MESSAGE-DRIVEN COMMUNICATION





Key Considerations

- Reach: Extent and diversity of communities, environments, individuals and others that have benefited or been affected
- Significance: Degree to which impact has enriched, influenced, informed or changed policies, opportunities, perspectives, or practices of communities, individuals or organizations





COMMUNICATE IMPACT TO STAKEHOLDERS

• 1 Pager

AESIS

- Presenting key findings at strategic meetings
- Complex data made clear
- Influencing positively
- Links back to strategic themes

WHAT CHANNELS DO I NEED TO USE?

- Advisory board invitation
- Briefing notes
- Infographics
- Visualizations
- Blogs
- Twitter campaigns





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EXAMPLE USE OF REPORTS AND SCORECARDS



novo

AESIS

HEALTH RESEARCH AND INNOVATION (R&I) IMPACT HIGHLIGHTS (2016-17) Ś Collaborating to accelerate health R&I 36 INDUSTRY Catalyzing Health R&I FROM DISCOVERY TO IMPACT to practice with Alberta Health O 74% of our researchers engage & partner with industry & end-users Making R&I easier to do in Alberta Ľ Almos to test new ideas and address health challeng ation about berta clinical trials Enhancing health and wellbeing Growing our economy Research impacts improving health 829 quality of care \$3.47 9 follow-on funding leveraged by leveraged by Alberta Innovate our funded research projects for our partnered projects

access to

ealth data

by providing

access to

51

HEALTH

DATABASES

2795

\$1

knowledge-based

workers supported

\$8.33

*The reported results are a sample of key investments

A Spotlight on amrc **Healthy Ageing** 10 million only 50% \$8% of the UK with other living in the UK 2/3 of people over 65 in the of people over 65 reports stay can expect to workforce in 2050 will UK have at least two long- having good health vs. 88% be over 50 years old term health conditions of secole under 65 in the UI each 100 years old Medical research charities work to prevent disease and promote health in the UK's ageing society. £300m 850 projects 10,000 people AMRC charities have a antificantly invested in the UK serve recruited into 41 AMRC in disease prevention and ageing over the past 5 years arity funded clinical studies on ageing over the past 5 years. AMRC charities with a range of health focuses ANRY charities fund disease environment and fund research on disease prevention and againg ageing research throughout the UK and overseas



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EXAMPLES OF FUNDERS USING IMPACT NARRATIVES TO COMMUNICATE SOCIETAL IMPACT

ALBERTA INNOVATES

Collaborating from 'Door to Needle' to Implement New Stroke Therapy



A team of researchers led by Dr. Michael Hill is using an endovascular treatment (ET) to improve the quality of stroke care. Stroke patients receive ET treatment during transport on specialized ambulances to improve health outcomes. This is integrated health service delivery in action.



novo nordisk fonden

Classification and prognostification of colorectal cancer

Colorectal cancer is known to have great inter-tumour diversity which means that the cells in the tumors can be very different. Tumours at the same stage can equally be very diverse and unpredictable. Due to this great diversity in colorectal cancer prognosis and response to treatment can be difficult to predict leading to both under- and overtreatment.

The research group under Jesper Bertram Bramsen has found a molecular-subtype-specific biomarker that can be used to improve the prognosis for patients with colorectal cancer. The research group has analysed 1,100 colorectal cancer samples, discovered three different cancer cells and five tumour archetypes and made it possible to find specific subtype-biomarkers. This subtyping-framework and the newly discovered biomarkers can be an important factor in improving the treatment and prognostics for colorectal patients.

There is annually 4,500 new cases and 1,900 deaths of colorectal cancer in Denmark, which accounts for 3.7% of all deaths. The findings are published and thereby other researchers can use the new subtypes-framework in their research.





Being obses can increase the risk of many illnesses. It increases chances of having high blood pressure, diabeles, coronary aftery disease and stroke - and after smoking, is the most preventable cause of cancer. Male obsety is more prevention in the rest of Europe and is set to increase at a faster rate than femato debays in the next dy sers. Current treads suggest that 60 percent of men will be obset in England by 2050, with figures for Scotland likely to be similar, and it is predicted that the link between obesity and socioeconomic deprivation, triandy evident in women, will soon appear in men.

Recognising the need for more research-based evidence, and in response to the publication of 'Healthy Weight, Healthy Lives: A cross-government research and surveillance plan for England', the NHR issued an Obesity Themed Call in 2009, and the Football Fans in Training (FFIT) evaluative study was funded as a result.

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ILLUSTRATION: Political impact: from Vision to Measurement

Rathenau Instituut

Challenges

- Many activities, publications
- Political debate issue oriented Link impact to vision
- No control on political arena •
- Outcomes and impacts difficult to trace
- Attribution difficult

What we did

- Focus on 3 themes (12 -> 5 -> 3)
- - Communication department responsible for media content and contact
 - Liaison officer for parliament •
 - Dedicated publications for parliament
 - Monitoring direct results •
 - Narratives for annual reports and evaluation for long term impacts





Rathenau Instituut

Oµr vision		Science, Technology, and Innovatio well-being, prosperity and innovative The Rathenau Instituut connects sci	n (STI) are essential for society, for our eness. ence, technology, and society.			
Our mission		The Rathenau Instituut encourages and decision-making on the social a	public and political opinion formation spects of STI.			
Our objectives	The Rathenau Instituut puts the social aspects of emerging STI on the agenda.	The Rathenau Instituut encourages public and political debate on disputed STI within society.		The Rathenau Instituut provides expertise and information in support of political decision-making and policy-making regarding STI.		
What we do	Initiate, organise and support interaction between stakeholders about social aspects of STI through: • Debates • Stakeholder consultation • Campaigns about urgent issues	 Disclose and produce knowledge about STI in society for stakeholders, through: Projects within own work programme or at request of stakeholders STI information function (website, Facts and Figures) Exploration of social aspects of STI Campaigns about urgent issues 	Create and maintain links with stakeholders by means of: Programme Panel Network activities Late summer social event Newsletter	 Share knowledge and information with stakeholders through: Specific information for Parliament Targeted communication Active media policy External appearances and participation as expert on panels, commissions, etc. 		
D: / //			T			
Direct results	 Organised debates Dialogue sessions (Scenario) workshops 	Involvement of all relevant stakeholders in projects	I argeted publications Essays Reports Facts and Figures Press releases and news reports Scientific publications	Meetings with MPs Reports to Parliament	Network about STLin society constructed and maintained	
Outcomes	In public and political debate, STI is linked to social values	Stakeholders take account of societal aspects of STI	Policy-makers (specifically the government and ministries) are aware of STI issues and have options for action.	Parliament is informed about STI and makes use of expertise of Rathenau Instituut.		
Our impact		Well-considered, democratic decision-making on STI within society				

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Political Impact

Lessons learned

- 1. Focus, focus, focus
- 2. Be ambitious, and realistic
- 3. Organize those impact paths that really matter
- 4. Monitor at level of organization or organization unit
- 5. Narratives at level of long term issue

• Public debate

- N stakeholder activities
- N public lectures
- Mentions in newspapers
- Website visitors, downloads
- Social media followers
- Monitoring public image
- Political debate
 - mentions in debates
 - mentions in all parliamentary documents
 - meetings with MoP
 - invitations by parliament,



KEY MESSAGES



- Use monitoring and evaluation evidence to trace progress and make course correct to achieve impact
- Impact pathway help guide selection of a balance set of indicators that can answer stakeholder questions
- Measure responsibly
- Communicate to your stakeholder by leading with your impact





FURTHER READING

- American Evaluation Association (AEA), Research, Technology and Development (RTD) Evaluation Topical Interest Group. 2015. Evaluating outcomes of publicly-funded research, technology and development programs: Recommendations for improving current practice. Version 1.0. https://higherlogicdownload.s3.amazonaws.com/EVAL/271cd2f8-8b7f-49ea-b925e6197743f402/UploadedImages/RTD%20Images/FINAL_RTD_Paper_20150303.pdf
- Wilsdon J, et al. 2015. The metric tide: Report of the independent review of the role of metrics in research assessment and management. HEFCE. <u>http://www.hefce.ac.uk/pubs/rereports/Year/2015/metrictide/Title,104463,en.html</u>
- HM TREASURY, CABINET OFFICE, NATIONAL AUDIT OFFICE, AUDIT COMMISSION, and OFFICE FOR NATIONAL STATISTICS, 2001. Choosing the Right FABRIC: A Framework for Performance Information. London, UK: HM Stationary Office. <u>https://www.nao.org.uk/wp-content/uploads/2013/02/fabric.pdf</u>



UP NEXT....

"Everyone has a plan until they get punched in the face"





Barend van der Meulen Kathryn Graham



Lunch break We will start again at 13.30





27th – 29th November, Oslo

Aligning Multiple Research Strategies Within Impact Mapping

David Budtz Pedersen

Director of the Humanomics Research Centre, Denmark.





Responsible and responsive university impact assessment

David Budtz Pedersen PhD Professor of Impact Studies & Science Communication Aalborg University Copenhagen

A

28 November 2019 AESIS Winter Course on Societal Impact | Oslo

AALBORG UNIVERSITET

Professor, Aalborg University

Director of Humanomics Research Centre AAU Department of Communication & Psychology

Mapping the Dynamics and Public Value of Humanities 2012-2020 Responsible Impact (ReACT) 2016-2020 Open Research Analytics (OPERA) 2017-2019 ACCOMPLISSH H2020 EU 2016-2019

> Danish Government's Commission on Rewards in Research Danish Government's Expert Group on Open Science

David Budtz Pedersen



VELUX FONDEN










Agenda of the presentation

The four I-s of Research Impact

- 1. INVESTING IN IMPACT. Alignment of mission statement (strategy/values) impact profile and indicators.
- 2. INCENTIVES. Without emphasis on incentives, recognition, and impact awards, most research impact activities will not occur.
- 3. **INSTRUMENTS.** Build inter- and transdisciplinary teams with a challengedriven, mission-oriented, partnership approach to research
- 4. INDICATORS. Better, more robust data about impact activities used to learn from best practices and inform new strategies



Humanomics Research Centre 2019

European universities' impact agenda

- Universities and research units are expected to establish an ex post record for impact (for careers, funding, accountability etc.)
- In several countries, societal impact becomes obligatory component of research (EU, SIAMPI, IMPACT-EVT, REF, NSF, SEP etc.)
- University management often lacks strategic data about impact activities / third mission / social / cultural / regional impact
- Nordic model of impact: No uniform model or national framework, myriad of initiatives & indicators, TTO, rewards, incubators, etc.



1. Investments



The Institutional Challenge



Impact Investing

- Investments "made into companies, organizations, and funds with the intention to generate measurable, beneficial social or environmental impact" alongside and beyond financial return." (2017 Annual Impact Investor Survey)
- Provides resources for researchers to create companies, collaborate or co-create solutions, which fall within the university's attempt to address societal challenges.
- Impact investing can help organizations carry out their projects and initiatives without having to rely heavily on subsidies or venture capital e.g. external funding.





"Missions around societal challenges are more complex than going to the moon and must be open, bottom up, flexible, adaptable and engage with citizens from the beginning"

Mariana Mazzucato 04.03.2018





nature

EDITORIAL · 03 JANUARY 2018

Reward research that changes society

Tracking societal impacts encourages academics to pursue them. The launch of three new Nature journals should also help.



Work to improve water quality in northern England shows how science has direct impact on

کی PDF version

RELATED ARTICLES

How to avoid glib interdisciplinarity

UK releases world's largest university assessment

2. Incentives



Incentives, Rewards and Purpose

- Building an impact culture / impact literacy
- Getting researchers onboard in entrepreneurial activities incl. support, incubation, acceleration
- Strong identity of public good character of knowledge production (e.g. Open Science)
- Alignment of research portfolio, reward system and institutional culture







~

NATURE | COMMENT

Fewer numbers, better science

Rinze Benedictus, Frank Miedema & Mark W. J. Ferguson

26 October 2016

Scientific quality is hard to define, and numbers are easy to look at. But bibliometrics are warping science — encouraging quantity over quality. Leaders at two research institutions describe how they do things differently.

🖄 PDF 🛛 🔍 Rights & Permissions

Subject terms: Research management

"Publications that directly influence patient care are weighted no higher in evaluations than any other paper, and less if the work appears in the grey literature (official reports rather than in scientific journals). Researchers are actively discouraged from pursuing publications that might improve medicine but would garner few citations. ... Publication pressure is keeping scientists from doing what really matters"



Mobility of researchers

- Different ways of producing tangible societal impact
- Interactions with society: start-ups, fellowships, special grants, visits, consultancy, joint appointments, co-creation, cost-sharing, collaboration, alliances, research parks etc.
- New positions tailor-made for collaborative research: "clinical" professor, knowledge brokers.



Bilag 2, Figur 10: Udviklingen i antal kliniske professorater

Kilde: Uddannelses- og Forskningsministeriet

Matrix for sector mobility

	Full mobility	Shared positions	Longer visits	Part time affiliation	Shorter visits
NAT					
HUM					
SOC					
HEALTH					
VET					
ENGI					
	Inter	nsity scale			
Kilde: bilag 2					







Larivière V, Macaluso B, Mongeon P, Siler K, Sugimoto CR (2018)



PUBLICATION BOOST

Academic scientists who collaborate with large established firms publish more papers.

- O No industry collaboration
- Collaboration with a startup
- O Collaboration with an established company



INCREASED CHATTER

Papers authored by academic researchers in 2016 were more widely publicised when they had a corporate co-author, as measured by their Altmetric Attention Score. The Altmetric score tracks the discussion around a published paper, from news articles to blog posts and tweets.









Instruments for making universities drivers of dual impact



The permeable university

Permeability is the new lens which should reframe the purpose of universities in the 21st century

The permeable university is one where all barriers to engagement are removed, both within the institution and around it.



21st Century Lab



The Ohio State University

The Discovery Themes provide Ohio State with an unprecedented opportunity to find durable solutions to today's—and tomorrow's—most compelling global issues.



Chronic Brain Injury

Advancing the prevention, detection, and treatment of brain injuries to relieve the human and economic burdens they cause.

LEARN MORE



Foods for Health

Integrating food, nutrition and metabolomics for a healthier future.

LEARN MORE



Food and AgriCultural Transformation (InFACT)

New thought for sustainable systems to produce and distribute food as we confront climate change, shrinking resources and a growing population.



Global Arts + Humanities

Breaking down barriers to meaningful collaboration and creating an inclusive culture that empowers faculty, staff and students to foster social change

LEARN MORE



Infectious Diseases

Toward a world free from the threat of infectious diseases.

LEARN MORE



Materials and Manufacturing for Sustainability

New materials and manufacturing innovation accelerating global sustainability.



Sustainable and Resilient Economy

Integration of science, engineering, humanities and the arts to enable a global transition to an equitable and prosperous society.



Translational Data Analytics

Connecting complex data sets to advance education, business, and communities.

Novo Nordisk Foundation Symposia

Medical humanities: Contributions, new approaches and future pathways









Edit profile

Interacting Minds @interact_minds

The Interacting Minds Centre (IMC) provides a transdisciplinary platform to study human interaction.

◎ Århus, Denmark & interactingminds.au.dk III Joined August 2010

452 Following 3,000 Followers









Realizing the impact value chain



ReAct Impact Assessment Platform

Budtz Pedersen et al. (2018). 'Narratives by Numbers'

PRODUCTS

- blogs
- e-newsletter/brief
- educational material
- data analysis
- software
- fact sheet
- handbook
- journal article
- newspaper article
- press release
- physical artefacts
- reports
- research testimony
- video, audio, film
- product development

EVENTS

- annual meeting
- awards ceremony
- conference
- debate
- forum
- interactive workshop
- guest lecturing
- media event (e.g. TV or radio segment)
- panel / debates
- presentation
- symposium
- policy advice

NETWORKS

- policy network
- community of practice
- discussion board
- listserv
- online forum
- social media
- media contacts
- Incubators
- partner pitch



EX ANTE

EX POST



EX ANTE

RESEARCH BENEFITS

INTERACTIONS

IMPLEMENTATION

EX POST

e.g.	e.g.	e.g.	e.g.	Direct observable impacts				
 Impact Planning Match-making & partner search Shared definitions of research problem Clarify expectations Incentives & rewards 	 Co-production of new knowledge Deeper partnerships New methods New tools New research questions 	 Publications Conferences and seminars with stakeholders Social media Media & public awareness Artefacts & exhibits IP including patents 	 Contextualizing results Best practices established Practical recommendations Networks and relationships Science & Policy Advise 	 Media / public awareness Socio-economic benefits New research questions Behavioural / institutional change e.g. Change in policy New practices 				
Contracts, grant applications, impact strategies, technology transfer agreements etc.	Openness, accessibility, increased knowledge base, sharing findings,	Dissemination of outputs through scholarly & non- scholarly channels	Benefits for stakeholders, enhanced Impact Readiness, contributions to practice	Changes in policy, organisation, business, practice etc. described in collaboration with non- academic partners				
Resources, inputs and planning	Research and engagement	Outputs	Outcomes	Impact				
				humanomics				



Figure 1 Conceptual Framework of Research Impact in the Field of Education





Amo, C. 2007. Conceptualizing research impact: the case of education research. The Canadian Journal of Program Evaluation 22(1):75-98

Responsible & Open Impact Indicators (ReACT)

Aalborg University, Department of Communication and Psychology, 2017-2020

- Create a conducive institutional environment, e.g. re-engineering the academic reward system, funding, infrastructure and culture.
- When designing indicators, a one-size-fits-all solution is unlikely to work (high domain-specificity across disciplines).
- Open Science offers multiple data sources for tracking impact but should be complemented with case studies and narratives.









ViVO ReACT Impact Platform

https://vivo.aau.dk/display/n360						Q 1	۵	
Home People	Input Log ou	it						
Admin Panel								
Edit this individual								
Verbose property display is off Turn sn								
Resource URI: http://vivo.mydor	nain.edu/individual/n36	iO						
	Participation	Products	Inflow	Other				
200	Academic Even	0						
	seminar							
CTV.	Research seminar	m. Rolf Hvidtfelt (05.12), Speak	ker 2018 🔟				
	ReAct: Internat (16	-17.08), Participa	ant 2018 🕎					
	meeting							
Π	Gruppemøde, Publ	c Value of the Hu	umanities d. 0	2.11.18, Participa	nt 2018 🔟			
Hvidtfeldt, Rolf	Meeting with Associate Vice Chancellor at UC Davis (12.06.), Participant 2018							
Postdoc, Aalborg University 1.	Meeting with professor at UC Berkeley (09.06), Participant 2018							
January, 2017 - 🟢	Gruppemøde, Publ	ic Value of the Hu	umanities d.13	3.04.18, Speaker 2	2018 🔟			
	presentation							

Conclusions

- We need healthy, connected institutions
- Create infrastructures and incentives to enable knowledge exchange
- Build your impact strategy from mapping key institutional contributions, audiences, stakeholders and values 🔗
- Align university mission/strategy with impact indicators, skills, incentives, co-design metrics with staff and stakeholders ('theory of change')



	NISE IMPACT	PATHWAYS?
HOW TO ORG	ANIOL III	Practices
Questions	Policy priorities	timely advise
Questions value-for-society of SSH	Skill sets for impact & co-creation Research Readiness	Merit & Incentives More societal allies (industry/policy)
research	Independent research + Honest events	Train reviewers for epistemic diversity
changes in the	Develop Open Indicators / Evaluation Transparency – in infrastructure	From outcome to proceed
e/valuation systems	Importance of research group	Focus on 'collectives' rather individuals
(role) models and forms	Diversification of career paths	involved in expert groups / statements
of leadership	Collect better evidence for SSH	Alignment of values, practices,
value systems and strategies (SDGs,)	Involvement in policy-making (Incl. SDG, missions etc.)	Involve NEW 'concerned' stakeholders in mission at all levels (more chairs)
role models and leadership of SSH in mission oriented and	Permanent positions for Honest brokers (science attaches, boundary spanners).	Change agents / brokers / Impact Management Impact literacy

participatory settings

SSH should make 'topics' more evant for SSH research .

Thank you for the attention

David Budtz Pedersen: <u>davidp@hum.aau.dk</u> Twitter: @HumanomicsMap Website: <u>http://mapping-humanities.dk</u>

Contributions from Rolf Hvidtfeldt & Jonas Grønvad





Integrating societal impact in a research strategy 27th – 29th November, Oslo

Coffee/tea break We will start again at 15.45



Integrating societal impact in a research strategy 27th – 29th November, Oslo

UP NEXT....

Case Study Session 3 Preparing the presentations in groups



Integrating societal impact in a research strategy

27th – 29th November, Oslo

UP NEXT RECAP AND REMAINING QUESTIONS




Integrating societal impact in a research strategy 27th – 29th November, Oslo

Up next

18.00Elias mat & såntCourse dinner(Kristian Augusts gate 14)

Tomorrow

8.30 OsloMet Coffee and Tea
9.00 OsloMet Start of the course – day 3

