Scientific governance: excellence and impact



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Towards a sociology of excellence: constructing and deconstructing scientific impact 7th-7 May, 2021

@Masaryk University 2021



Completion

What you need to do?







Participate

One academic blog post

Final paper

seminar (online)

The academic blog should reflect some current sociotechnical challenge, addressed via learnings acquired in the course (250-500 words)

the final paper will address a specific question within the realm of STS and analyze it according to general academic practice, (2500-3000 words)

Specific assignment(s)









What will happen?

The course



Science & society: the beginnings

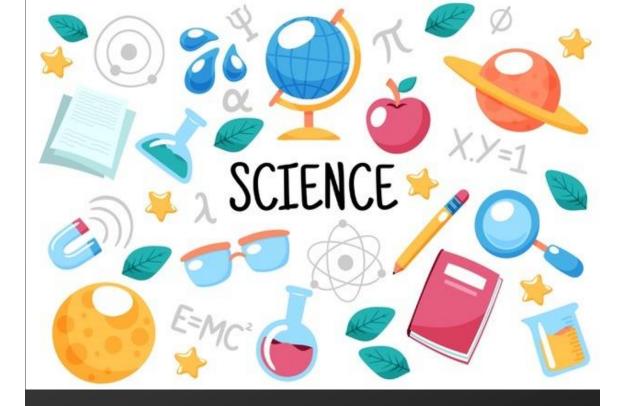
- What is science?
- The politics of science
- The beginnings of science policy

Science & society: Creating the idea of excellence

- What is science policy?
- The Republic of Science
- Measuring excellence
- The European Research
 Council

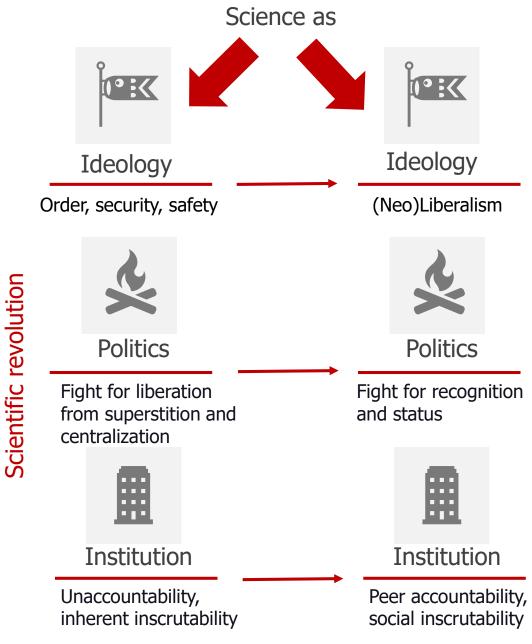
Science & society: Critique of excellence

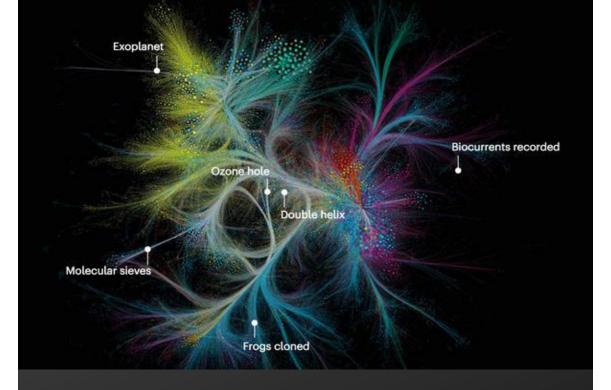
- ✓ Responsible research and innovation
- "Destitute excellence": decolonizing science
- The future of "excellence"





Hood & Wilson: The literature of bibliometrics, scientometrics, and informetrics

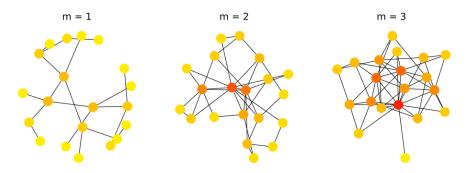




What is the science of science?

Hood & Wilson: The literature of bibliometrics, scientometrics, and informetrics

Science as institution



- ➤ **Imagined** as chemistry: ideas and scientific outputs as atoms, molecules and molecular transactional processes;
- Operated as mathematical physics: arithmetized interactions between constituents of the observable scientific universe;
- ➤ **Analysed** as creating economic value and as the production, distribution, and consumption of scientific goods and services.



A (new) definition



Excellence

- Excellence is the institution representing and operating the nomocratic order that is science.
- Science is a space produced ("the ever new frontier") of which epistemic violence is constitutive and, as it is bracketed, it is normalized to include/exclude knowledges and their subjects.
- ➤ The "science of science" is the map, producing space and the nomos (order made visible). "Just" and "unjust" enemies are created, frontiers are colonized by the sovereign that is "Western" science, operated by the "laws of scientometrics" the power/violence that is its apparatus.



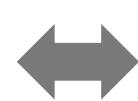
recap



Political institution

Politics comprises all efforts directed at collective goal attainment, anything from the preparation of collective harvesting to the smooth operation of a voluntary association. Differentiated, complex societies can not cope without an extensive set of distinct regulatory institutions directed at societal goal attainment.

van der Wusten, H. (2012) Symbols in political centres. Where they are and what they mean, *Belgeo*.



Symbolism

Symbols are manifestations of the deeply felt human need to order. Order is socially cued and of human construction. Symbols are the artifacts or objectifications of this search for meaning.

Rothman R. (1981)
Political Symbolism. In:
Long S.L. (eds) The
Handbook of Political
Behavior. Springer.



recap

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Operated as mathematical physics: arithmetized interactions between constituents of the observable scientific universe;

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The chemistry of excellence

The physics of excellence

The economics of excellence

Measuring units of thought

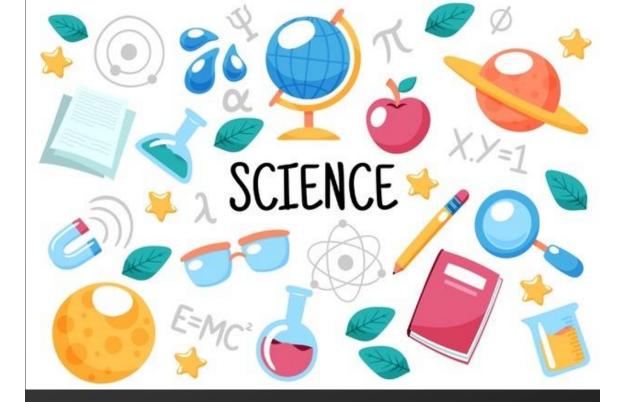
Measuring interactions of objects and subjects of science

Measuring
economic impact
(+creating
headline
indicators, like
Hirsch index)

A regulatory institution directed at economic goal attainment

An objectification of the search for order.





What is science?

Hood & Wilson: The literature of bibliometrics, scientometrics, and informetrics

Excellence as



Ideology

Nomocracy



Politics

Colonization

Scientific excellence

Epistemic injustice



Institution

Unaccountability, inherent inscrutability

Peer accountability, social inscrutability



Ideology

Democracy



Politics

Decolonization

Epistemic equitability



Institution

Social inclusion

Democratic control

Lay accountability







Deconstructing Excellence

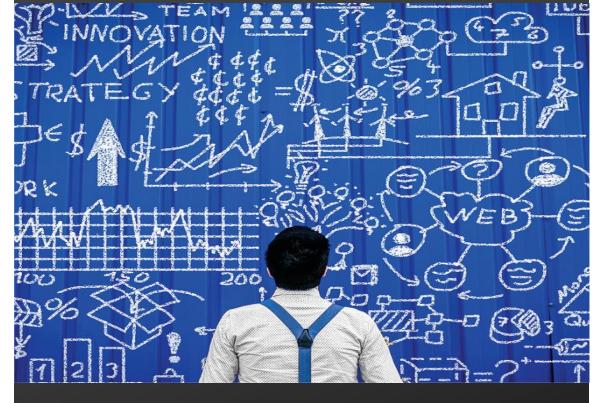
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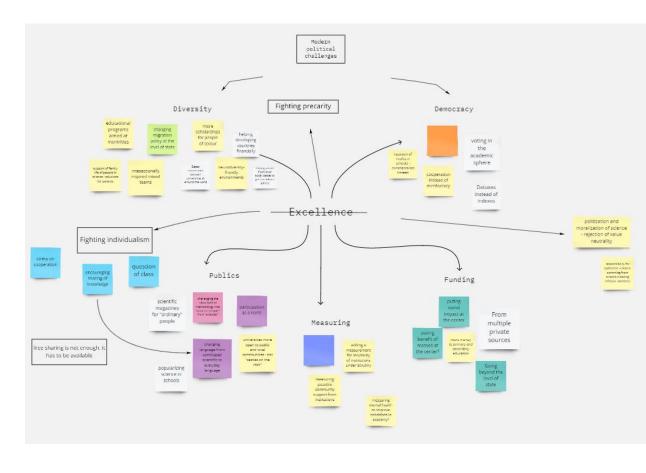
- Questioning the nomocratic order that is science.
 - Rethinking space/frontier and addressing it as "camp".

 Decolonizing science: addressing sovereignty questions and critically assessing the power/violence that is its apparatus.



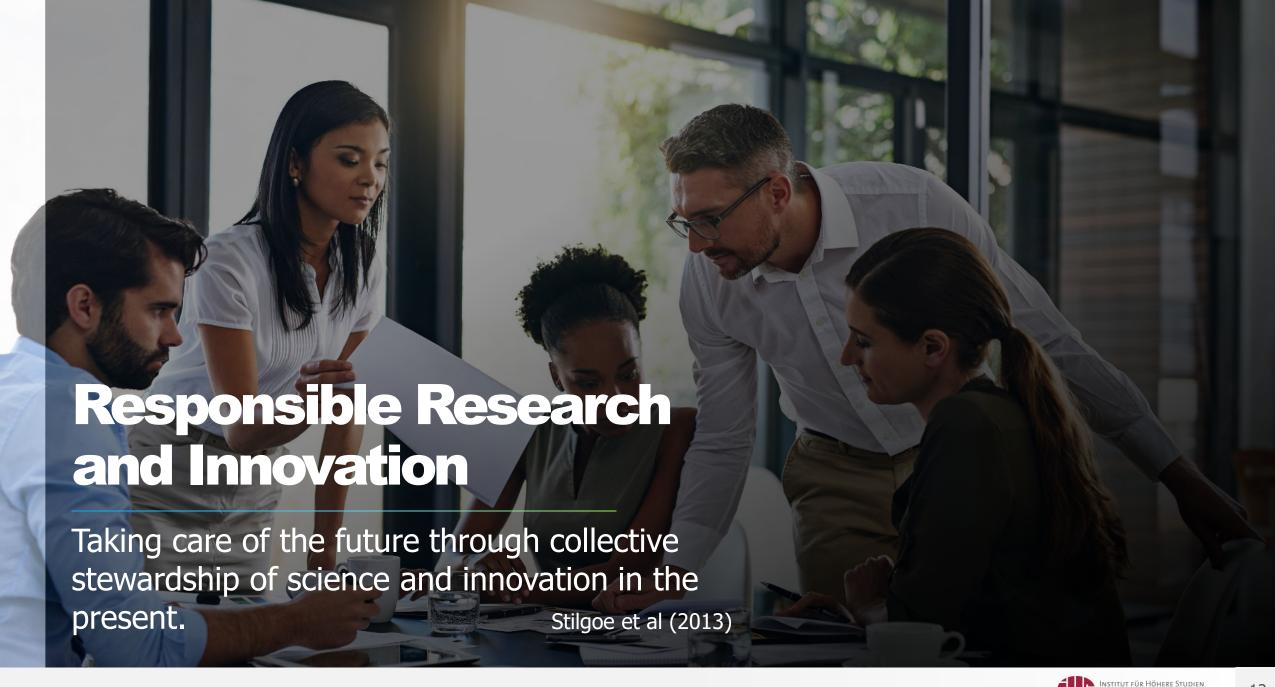


Alternative conceptualizations to excellence



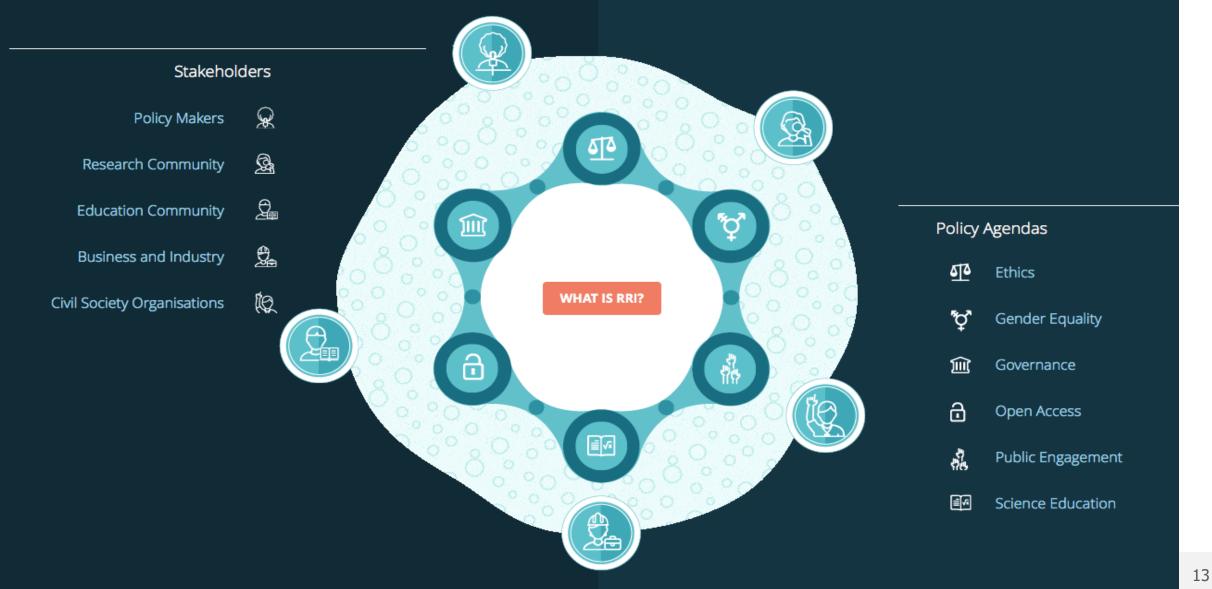
https://miro.com/app/board/o9J_ILQkC-o=/





Entering into RRI

What's in it for me? Play your part in Responsible Research and Innovation (RRI)



ransparent, interactive process by which societal actors and innovators become mutually responsive to each other with a view to the (ethical) acceptability, sustainability and societal desirability of the innovation process and its marketable products (in order to allow a proper embedding of scientific and technological advances in our society)

Von Schomberg,Rene (2012)



Responsibility

Stewardship of the future





Doing responsibility



Plato

"Wherever you go, you will be a polis"



Paul Fayerabend

R&I to be put under democratic control



Richard Owen

R&I as part of democratic political governance

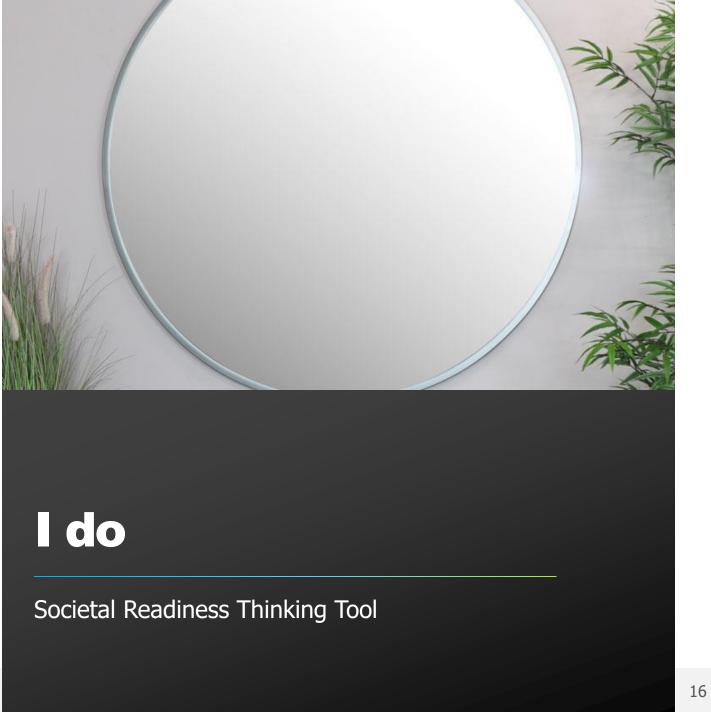


Braun et. al.

R&I as participatory process



https://youtu.be/HdH8qSUy4Mk



Testimonial





I never thought about responsibility besides finding a solution to the 'problem'.

Partipant, Social Lab





Society is complex, this should go into technology.

Participant, interview





I thought I am acting ethically, and that is enough. I did not anticipate other consequences.

Participant, Social Lab



Major changes in science politics

Transformations







Thinking

Who is thinking?

What is being thought?

Science is a concern for the whole of society and a tool for equitability and democracy Everybody (e.g. expert and pay inclusion, participation in agenda setting & research)

Transdisciplinarity
Participatory

science

Citizen's science

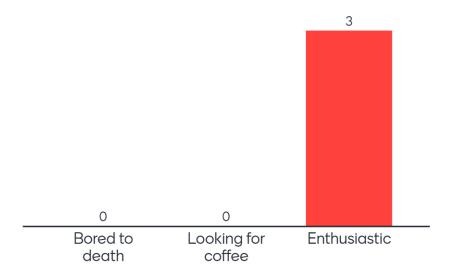
Open science



Feedback

The course

How do I feel after class?



Go to www.menti.com 1549 2630

