



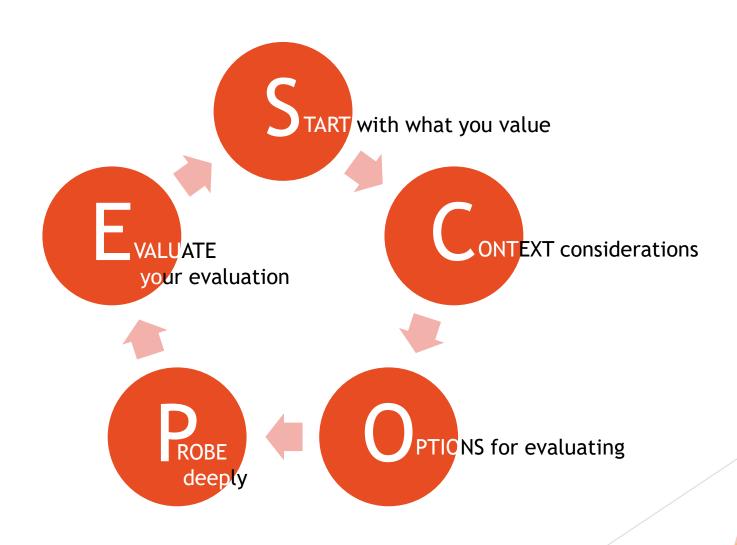
Better decision making through responsible research evaluation

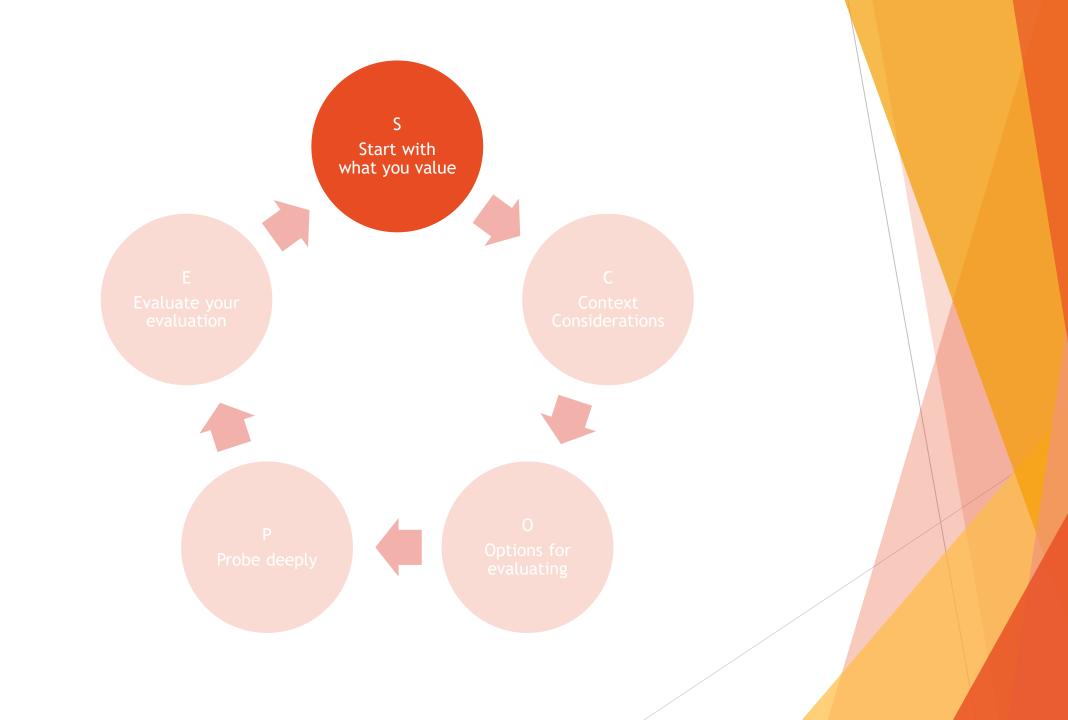
Senior Leader Briefing material

Why is responsible evaluation important?

- External drivers, such as rankings, hand out values and missions to universities and use non-transparent methods to evaluate them
- Evaluations impact researchers and research organizations, scientific community has become more aware of the pitfalls of irresponsible evaluation (e.g. DORA, Leiden Manifesto, Plan S, Wellcome Trust)
- Responsible research evaluation leads to sensible decision making
- Organizations face a reputational risk around poor use of metrics

SCOPE: 5 stages for doing evaluation responsibly

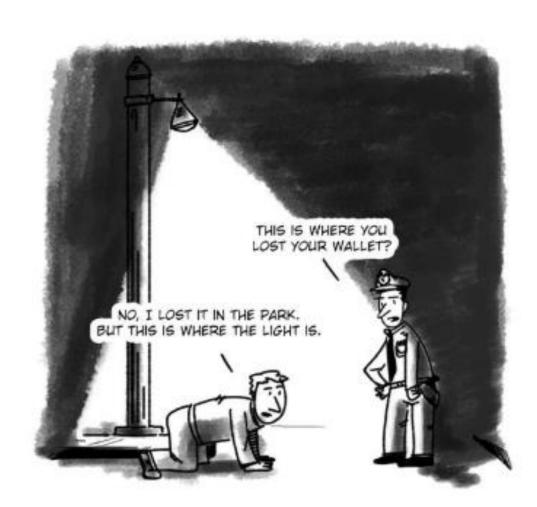




S - Start with what you value

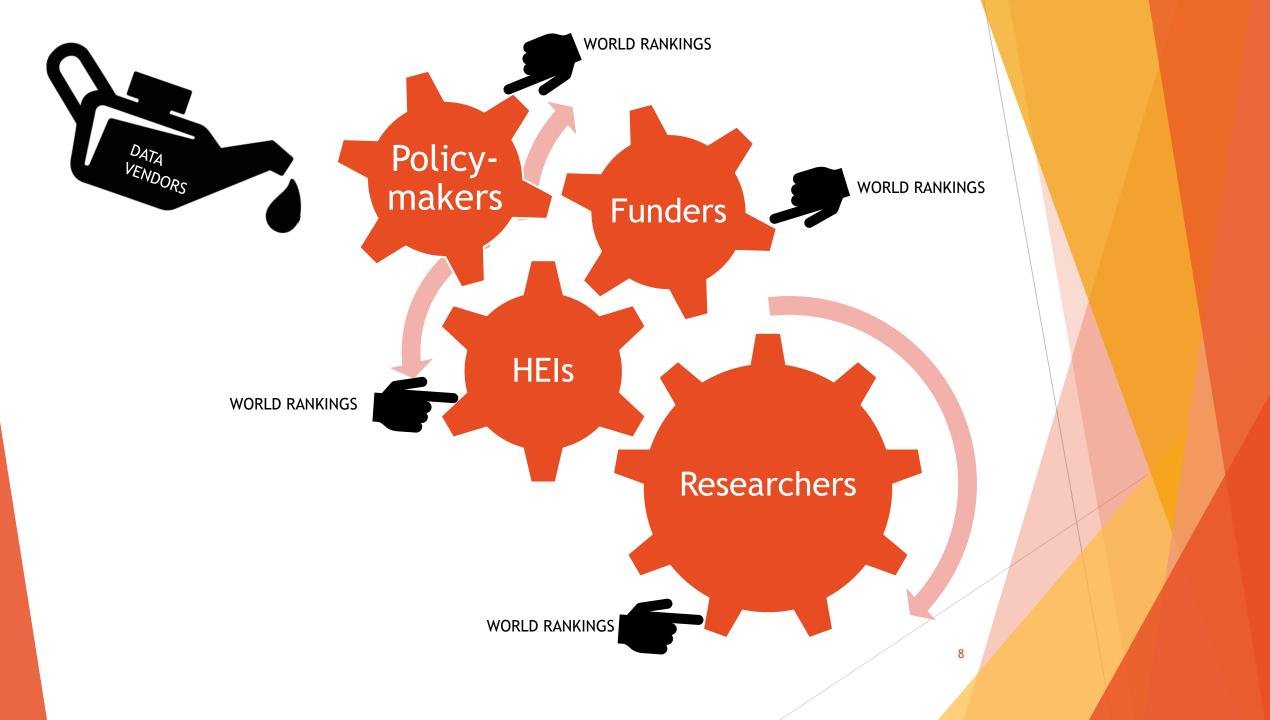
- Evaluation should be guided by an institution's mission and values
 - Not on what can be counted
 - Not on external drivers (such as rankings or national research assessment exercises)
- Allowing external drivers to dictate how and why you evaluate, leads to an outsourcing of those values
 - Keep institutional autonomy instead
 - Maintain distinct institutional character

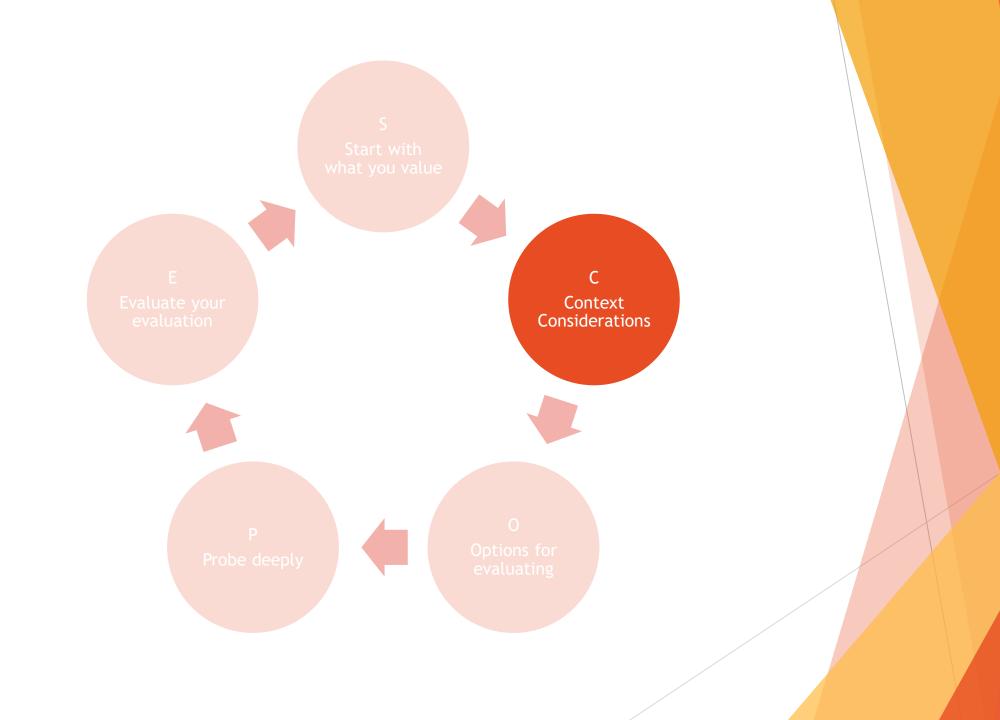
The Streetlight effect Measuring by available data not by mission



We are measured, therefore we are

We are measured, therefore we are all the same





C - Consider the Context



Why are you evaluating?



Who are you evaluating?



What works in one context won't work in another

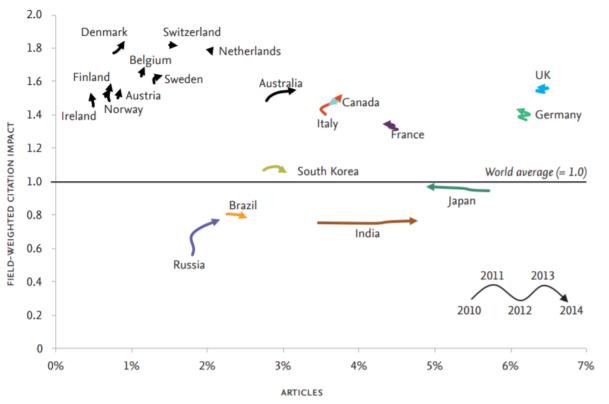
Why and what are you measuring? Balancing the risks.

	Country	University	Research Group	Researcher
Analysis				
Advocacy				
Accountability				
Acclaim				
Adaptation				
Allocation				
Low risk				
Medium risk				
High risk				

Risks associated with metric use in various settings

Use of FWCI in measuring to understand

Panel A(2): The UK and comparator countries plus top ten countries with the highest field-weighted citation impact in 2014 among OECD countries with at least 5,000 publications in 2014 (excluding the US and China).

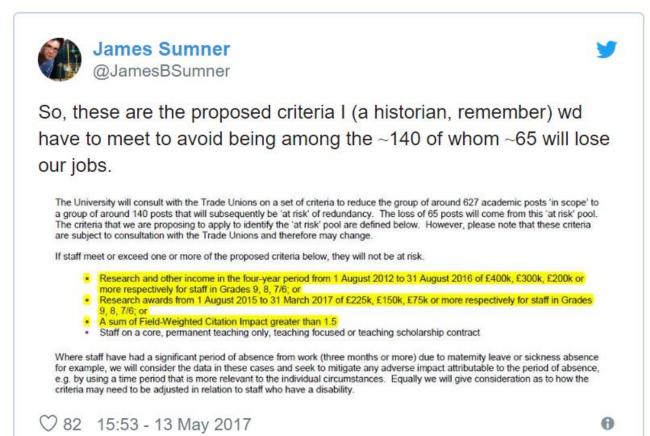


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	Country	University	Research Group	Researche
Analysis			огоцр	
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Low risk				
Medium risk				
High risk				

Measuring to analyse at the level of countries = low risk

International Comparative Performance of UK Research Base - 2016 report on 2011-2014 data https://www.elsevier.com/__data/assets/pdf_file/0018/507321/ELS-BEIS-Web.pdf

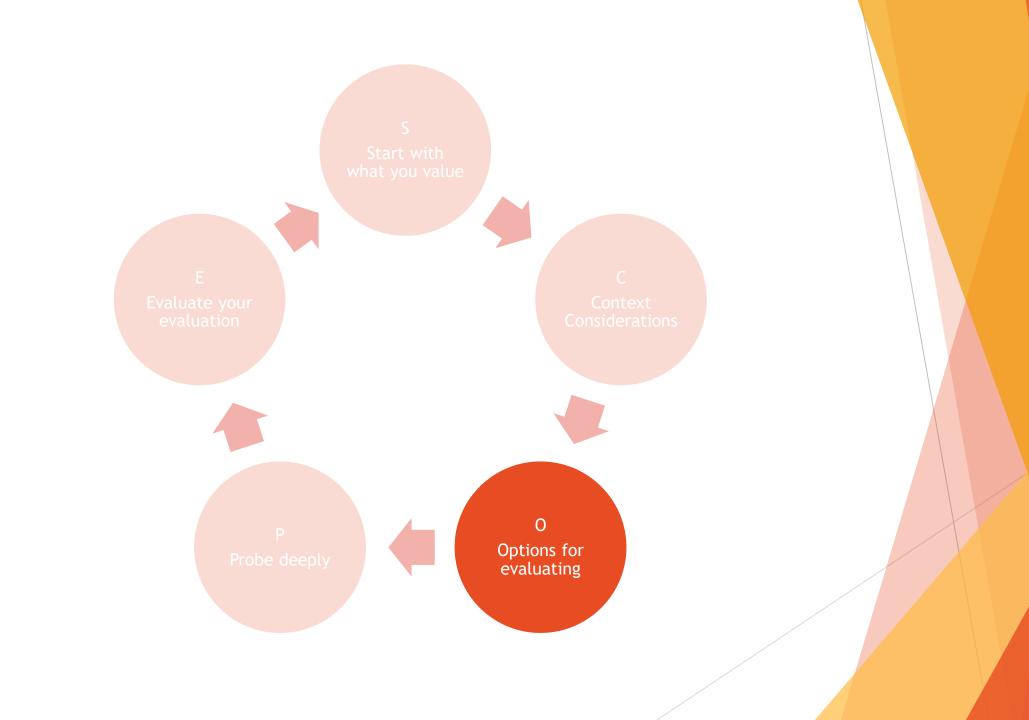
Use of FWCI to identify staff for redundancy...



200 people are talking about this

		\		
	Country	University	Research Group	Researcher
Analysis				
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Acclaim				
Adaptation				
Allocation				
Low risk				
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High risk				

Measuring to allocate at the level of individuals = high risk





Quantitative - indicators

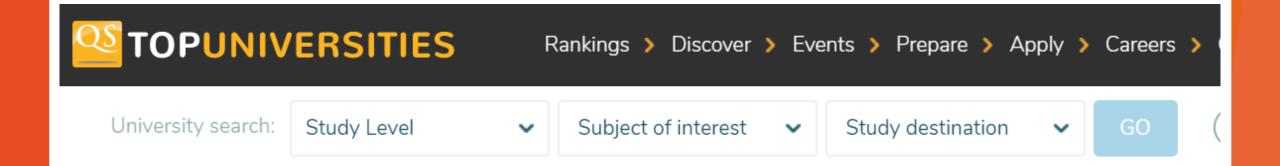
Explore all the options



Qualitative - peer review



Take care when using quantities to indicate qualities



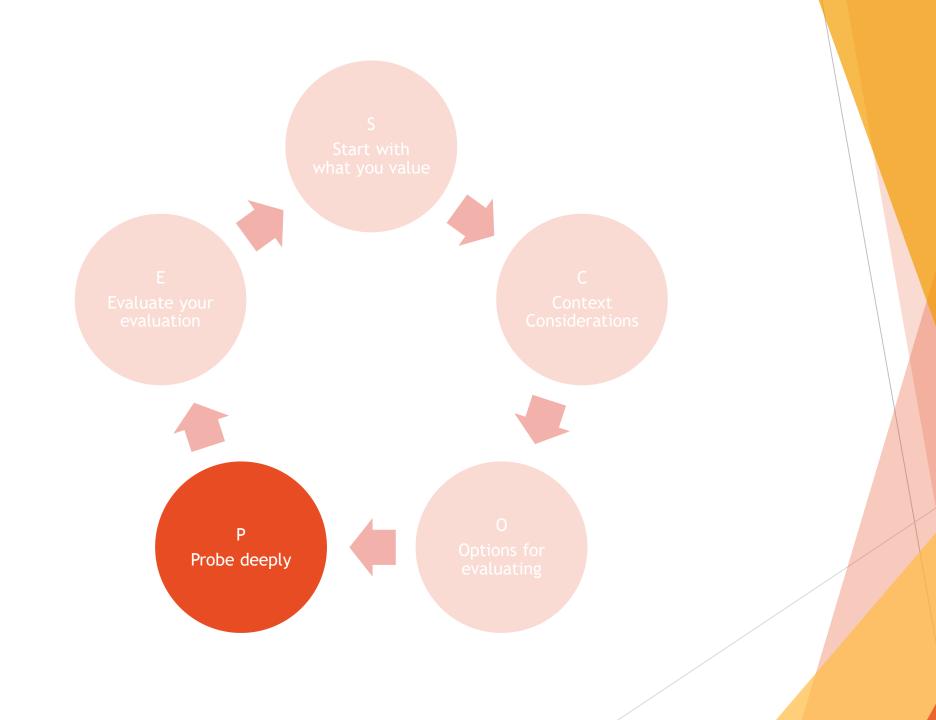
Faculty/Student Ratio (20%)

Teaching quality is typically cited by students as the metric of highest importance to them when comparing institutions using a ranking. It is notoriously difficult to measure, but we have determined that measuring teacher/student ratios is the most effective proxy metric for teaching quality. It assesses the extent to which institutions are able to provide students with meaningful access to lecturers and tutors, and recognizes that a high number of faculty members per student will reduce the teaching burden on each individual academic.

Faculty/student Ratio constitutes 20 percent of an institution's final score.

Evaluate WITH the evaluated

- Engage with communities under evaluation
 - ▶ Understand what the unit of assessment values, what are their aims
- Co-produce evaluative approaches where possible
 - CWTS 'Evaluative Inquiry'
 - Consider the scientific fields under evaluation to choose relevant indicators
- Jointly interpret the results
 - Openness and transparency increases the legitimacy of evaluation results



P - Probe deeply



Who does this discriminate against?



How might this be gamed?



What might the unintended consequences be?



Does the cost of measuring outweigh the benefit?



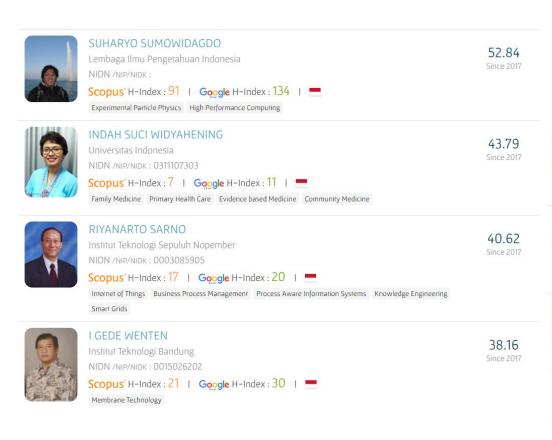
Indonesia's scientists voice concerns about the country's researcher ranking system

Critics flag unclear methodology, lack of credit for research contributions other than publications

by Dalmeet Singh Chawla

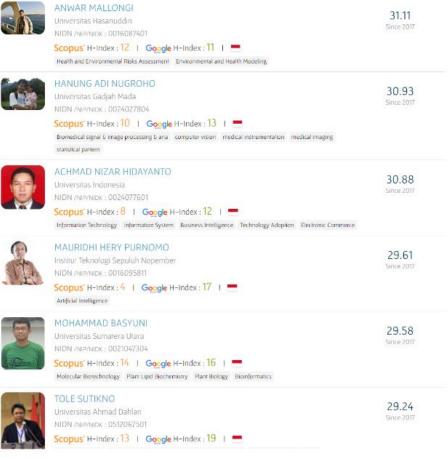
DECEMBER 31, 2018

Technology Index (SINTA), are unclear. SINTA takes into account the number of journal and non-journal articles indexed in the database Scopus, the number of citations these documents accumulate in Scopus and Google Scholar, and researchers' h-index. The h-index is another controversial metric that is designed to measure researchers' productivity and the impact of their publications.



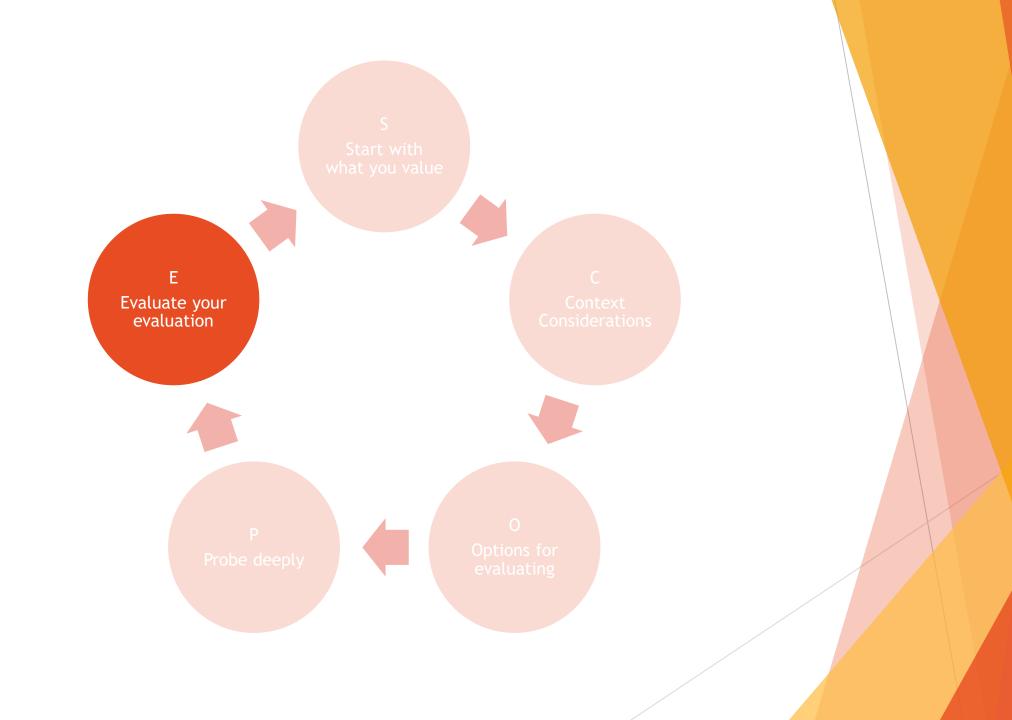


Top Ten



Unintended consequences

- Neglecting all activities that aren't measured
- Goal displacement
- Short termism
- Transactional cost of metrics which may not actually add any value to the organisation
- Discourage initiative, innovation and risk-taking
- Negative influence on interdisciplinary research caused by biases against interdisciplinarity



E - Evaluate your evaluation

- ▶ Did you fulfil the aims of your evaluation?
- ► Keep performance indicators under review
- Does evaluating research actually make the research any better?
- What will the long-term effects of evaluating be?

