

# Changing institutions and arrangements, and the elusiveness of relevance

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# Research Relevance?

- Of research in universities and public research institutes
- Cannot be about impacts, in the sense of identifiable wealth creation and contribution to quality of life.
- If these occur, they cannot simply be attributed to research (let alone to university research)
- No linear-causal link
- So: elusiveness of relevance

# Ongoing changes

- Still, a desire – and a pressure – for relevance
- (And different ideas about relevance; for whom, for what? Also by whom – division of labour?)
- Changing modes of knowledge production and institutional arrangements, towards “more” relevance (cf. Forum Discussion Paper)
- Incl. combination of excellence and relevance (more than Pasteur’s Quadrant! (Stokes 1977))

Consideration

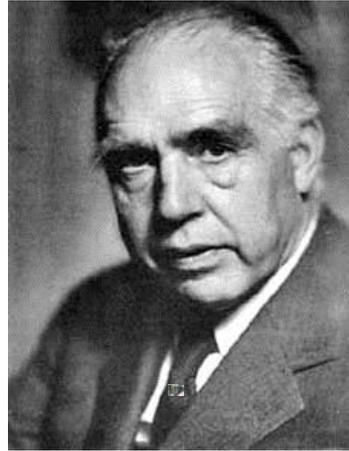
of use?

No

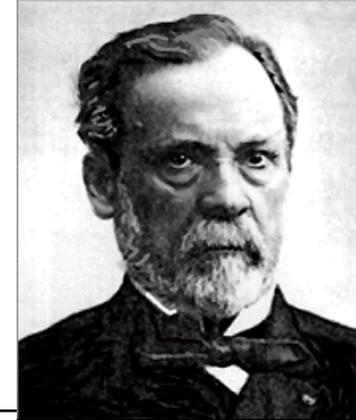
Yes

Quest for

Pure basic research  
(Bohr)



Use-inspired basic  
research (Pasteur)



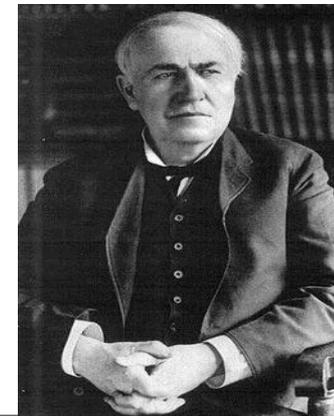
Yes

No

fundamental  
understanding



Pure applied  
research (Edison)



# Comments

- Fourth quadrant (run-of-the-mill science, with lots of useful results) was not filled in, focus is on the “heroes” on the main diagonal
- And these are old guys...
- While outcomes (“relevance”) depend on many people, and interactions
- So instead, take “strategic research” (as in the case of Pasteur and his co-workers) as the general situation (particularly recently), with ‘Bohr’ and ‘Edison’ as extremes.

# Strategic research – the new category that bridges the gap between excellence and relevance

- Basic research carried out with the **expectation**
- that it will produce a **broad base** of knowledge
- likely to form the **background**
- to the solution of recognized current or future practical problems

# A regime of Strategic Science?

- Thus, a distance is created between ongoing research and the eventual uptake of its results
- by emphasizing expectations, the production of a 'base of knowledge', and the provision of a background to problem solving rather than offering solutions.
- This is what happens anyway, and different institutional arrangements are emerging
- Some institutions bridge the distance internally

**Guided by  
resource  
mobilisation  
strategies**

Articulation of  
promises, options  
&  
selection (in the form of  
projects and programmes)

***Up to hype (and  
subsequent  
disappointment)***

Anticipations and feedbacks

**Links with prospective  
users, support from  
mediating actors (e.g.  
liaison offices)**

Process of realization  
of research products,  
some communication  
and dissemination

***This is out of the hands  
of the primary  
research producers***

Knowledge reservoirs,  
“grabbing” by users

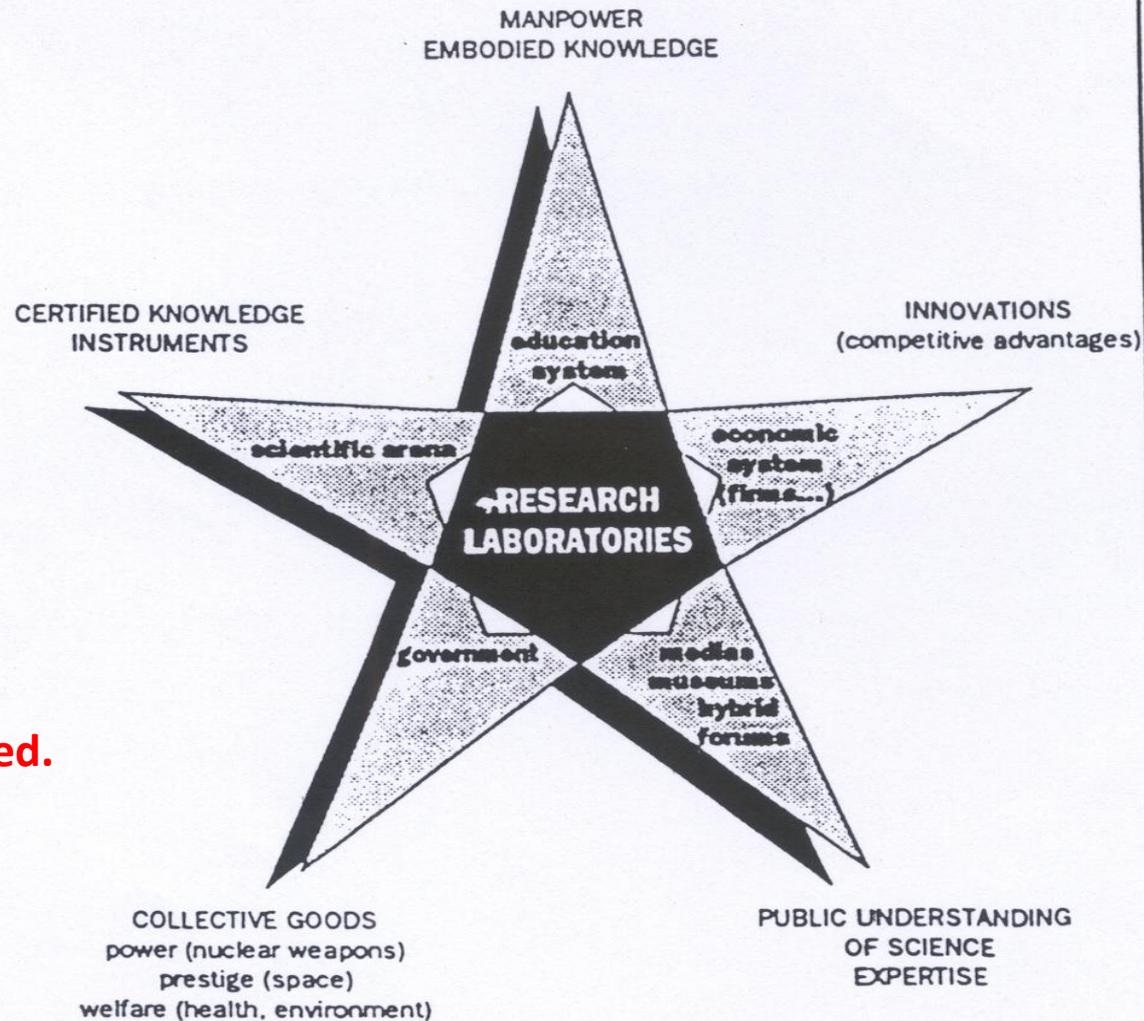
Co-production of  
eventual impacts  
and effects

***Not predictable, and not ‘manageable’ from a central point***

Developed to evaluate research performance of institutions on their own terms.

Can be used to monitor how far the [de facto] mission is achieved.

Balancing the different components requires a strategic choice.



**the research compass card**

(Larédo et al.)

# Overall picture: institutions

- The old division of labour between fundamental and applied or problem-oriented research has almost disappeared, and with it, the functional distinctions between universities, public labs and private research.
- This is part of the regime of Strategic Science.
- Universities have responded by becoming more entrepreneurial, in combination with New Public Management approaches
- Is at best partly adequate

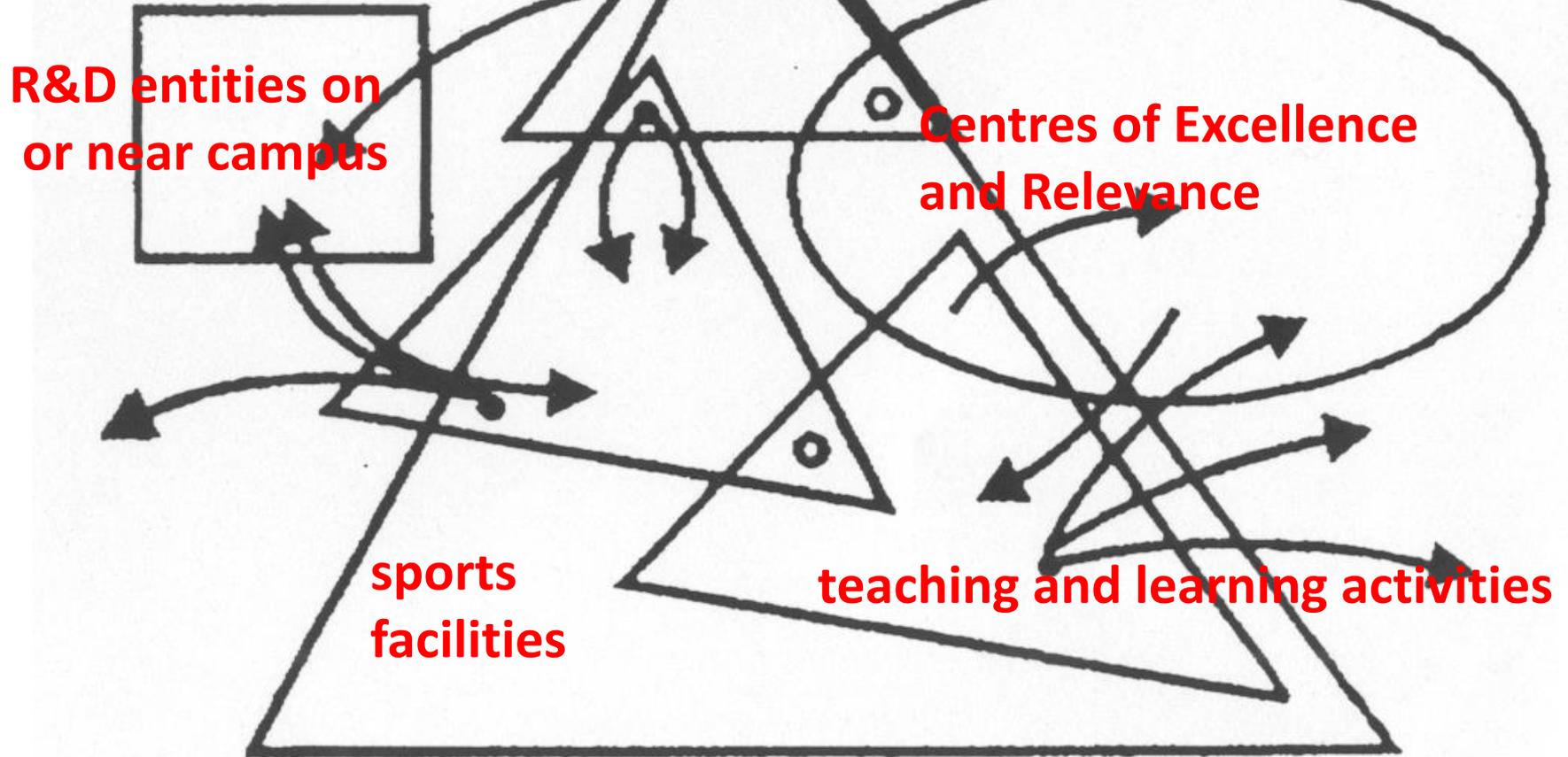
# Recent changes

- *[Marginson, S. & Considine, M. (2000) The Enterprise University: Power, Governance and Reinvention in Australia. Cambridge: Cambridge University Press, p. 133 ff]*
- the dilemma of research management: **how to harness** "all that creative energy" of researchers in order to maximise the university's position - in other words, **how to 'make the butterflies fly in formation'**.
- in a competitive higher education system, **research** (among other things) has become a means of defining value and excellence; it is a primary **source of institutional prestige and income**
- no university drives the management of research explicitly from above: this would be construed as a "frontal attack" on the tradition of collegiality, directly challenging the integrity of the disciplines.
- but research management is becoming **more comprehensive and indicator-driven**, and (also in older universities) traditional research practices are seen as obstacles to be overcome
- the need for new organisational modes of decision-making ("control structures") so as to respond more effectively to the external imperatives of industry and government

# But more changes!

- For universities, the key challenge is to diversify and recombine, both cognitively and institutionally, into what I call a post-modern university – indications of it are visible
- This includes overlaps and alliances with Centres (of Excellence and Relevance), public labs and various private organisations.
- Ambidexterity becomes an important skill (of academics) and an organizational competence
- So a ‘university complex’:

a holding company



a university “complex”

# Larger changes

- Universities lose their monopoly on research training (e.g. MOOCs)
- A “market” for strategic research
- Abstract (symbolic) sponsors of research (INDUSTRY, SUSTAINABILITY)
- *New constellations of actors:*
- Changing roles of research funding organizations (+ requirement of societal impact statement)
- Increasing role of private foundations as funders and orchestrators of research
- CSOs: not merely interlocutors in a diffuse “dialogue with society”, but engaged in choices in research and some knowledge production

# Addressing Grand Challenges

- To some extent just fashionable discourse?
- New category of 'challenge-oriented research' (rather than mission-oriented research)
- Requires changes in institutional arrangements, cf. new constellations of actors
- Concertation is important, with government facilitating rather than organising and selecting
- *Kuhlmann and Rip 2014, Report to ERIAB (European Research and Innovation Area Board)*

# Responsible Research and Innovation

- Another fashionable discourse
- Is about process: being responsive, or at least transparent
- EU Competitiveness Council, Dec 2014:  
“Responsible research and innovation is a process for better aligning research and innovation with the values, needs and expectations of society. It implies close cooperation between all stakeholders in various strands comprising: science education, definition of research agendas, access to research results and the application of new knowledge in full compliance with gender and ethics considerations.”

# System-level dynamics and policies

- Notion of national research and innovation system, important in Ireland:
- First phase of broad capacity building, second phase of focused priorities, now a third phase?
- Report on Research prioritization Ireland (2012)
- “build on strength, create critical mass in areas that link more precisely to current and likely future societal and economic needs” (p. 8)

# There may be a bias:

- A language of contributions: to the economy, and to a lesser extent to quality of life and to quality of policy making
- Net effect has been to see national research and innovation systems (and institutions within them, like the HE sector) as input-output machines.
- That is a strong reduction of complexity.

# Is it a productive reduction of complexity?

- Almost unavoidable when one wants to assess the value of research and compare it, in order to make selection decisions.
- But assumption of linear-causal relations between inputs and outputs – which are the exception rather than the rule (my earlier point).
- It also assumes that the gears and internal connections of the machine are in place and continue to function.
- Instead, national research and innovation systems are patchworks, and evolve in response to tensions and challenges.

# Prioritization Report (2012)

- Recognizes evolving patchwork, e.g. by talking about “links”, but uses the machine-that-contributes language (e.g. p. 13):
- “STI system to be more focused on outcomes and impacts”
- “clear goals and metrics”
- Instead, think in terms of nudging and growing (strategic niche management), and concertation of evolving constellations

# Re-defining Research Relevance?

- It is not a matter of defining, say of criteria for relevance that should then be met, somehow.
- It is a matter of understanding what is happening already, and why, and what further possibilities might be.
- That's why I discussed institutions and arrangements
- Making the challenge of relevance less elusive

# My message then:

- The prevalence of strategic research (also related notions like “finalisation”, technoscience, post-normal science), with supply as well as demand
- In such a quasi-market (incl. expectations), relevance is operationalised – the way to go?
- The combination of excellence and relevance, in research and in research institutions, with the rise of Centres (of Excellence and Relevance) as an indicator