

Incentivising Research & Researcher development in Universities

By

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Road Map

- ❑ Should or should Makerere incentivise research
- ❑ Knowledge Production: Paradigm shift
- ❑ Challenges in African Universities
- ❑ Incentives and the debate
- ❑ The path for Makerere University

In conclusion

- ❑ Provision of Institutional and or individual incentives is associated with Research productivity (Chiara et al, 2011)
- ❑ Incetivisation could take the form of:
 - Government Research support e.g. \$30 billion research grant
 - Government subsidy to the university similar to the South Africa DHET
 - Institutional support
 - ❑ competitive grant scheme
 - ❑ Recognition of excellence

Changing Paradigm

- ❑ Traditional role of universities
 - Generate knowledge and contribute to betterment of science
 - Developed own research agenda – Ivory towers
 - Research geared at growing disciplines
 - Minimal accountability to the public
- ❑ Current trends
 - Social Contract between science and society
 - ❑ Society a key stakeholder in knowledge creation - especially in Public universities

Paradigm shift...

- Nature of knowledge generation is changing (Gibbons et al 1994)
 - from Mode 1 (Ivory tower) – Academic, Mono-disciplinary, Certain, Predictive (discovery)
 - to Mode 2 – (Engaged university) - Academic & Social, Trans-& Multidisciplinary, Participative, uncertain & exploratory in nature (impact driven & values socially distributed knowledge)

Knowledge generation...

- and even Mode 3 – (GloCal – local meaning but global reach) embodies multilevel knowledge and innovation system (Carayannis, 2012; Etzkowitz, 2008)
- Emphasis is on clusters and networks
- Accountability to various stakeholders

Challenge in many African Universities

- ❑ Massification & teaching overload leads to the vicious cycle of 'teach or perish'
- ❑ Thirst for research (*libido sciendi*) is reduced by rushing from one overcrowded class to the other
- ❑ Material condition of the African Academic is a driver to secure additional income – non-academic contracts

Academic Core

- Concept of Academic core in research
 - teaching, supervision of postgraduate students, research and dissemination
 - core outputs of these activities are PGs, research outputs and publication of results

(HERANA, <http://chet.org.za/programmes/herana/>)

Key issues

- ❑ What drives Researchers/academics in Africa to be academically productive?
- ❑ What hinders African academics from being as productive as their counterparts in Asia, Europe and America?
- ❑ What kind of incentives are needed?

Drivers

- What drives the knowledge producers – the *homo academicus*
 - Curiosity
 - Taste of Science – *libido sciendi*
 - Money
 - Desire for fame and reputation
 - Promotion and tenure(Bourdieu, 1986)
- A central tenet of economics is that individuals respond to incentives (Tirole and Benabou, 2003)

Incentives to academic enterprise

- ❑ Publish or Perish – Institution/individual level
- ❑ Goal is to publish
 - Policy to staff – At least 1 publication in 2 years
 - Policy to PG students – At least 2 publications by a PhD student before thesis defense
 - Impact - Mak ranked 4/5th in Africa by the Times Higher Education Supplement (THES)
https://www.timeshighereducation.com/world-university-rankings/2019/world-ranking#!/page/0/length/25/sort_by/rank/sort_order/asc/cols/stats
 - Scopus database shows CHS leading publishing entity at Mak

What can be done to incentivise Researchers at Makerere University

- ❑ Government research fund/subsidy
- ❑ Institutional incentives based on performance
 - ❑ Individual
 - ❑ Departmental
- ❑ Support researchers that bring research income to the university

a) Government support

☐ Government support to research

- Support to Mak Research fund of UGX 30 billion
- Competitive research grants
- Small Grants scheme

☐ Government subsidy

- Example: South Africa

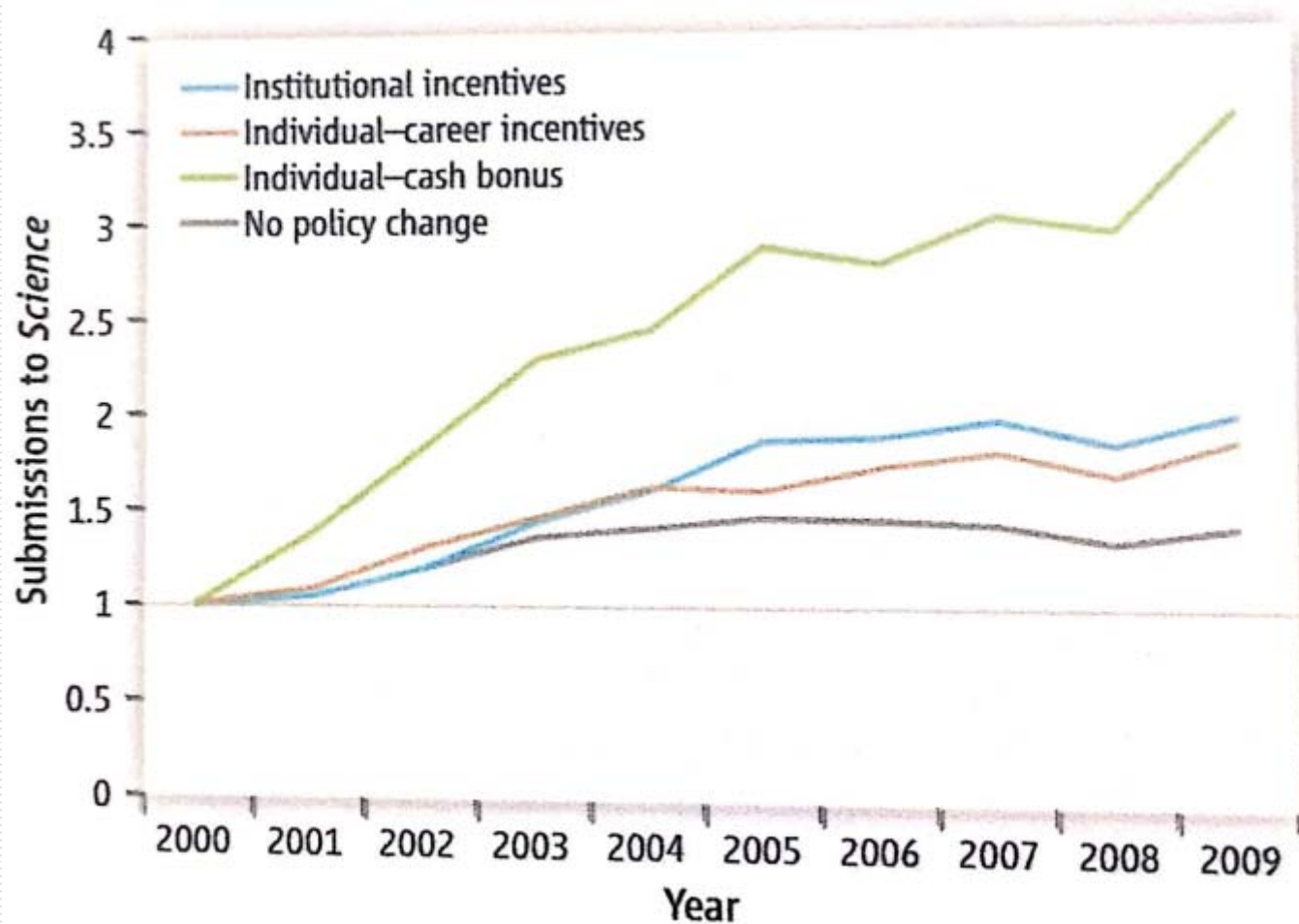
Case study

- ❑ In South Africa, DHET provides a publication subsidy to universities ~ \$9,000 per publication unit (Macleod, 2010)
- ❑ A peer-reviewed, accredited journal article or book chapter by one author equals a unit
- ❑ Some of this money goes to the researcher/author(s) depending on university policy
- ❑ Or funds are placed in a research account for researcher to use for further research
- ❑ Scheme absent in many African Countries

b) Incentives at Institutional level

- ☐ Institutional incentives based on performance
- ☐ Need clear indicators
 - Institutional Excellence research awards
 - ☐ Individual
 - ☐ Departmental

Changing Incentives to Publish



Source: Chiara et al., 2011

c) Share OH costs

- Support researchers that bring research income to the university
 - Overhead costs left to researcher – first grant?
 - Share OH costs with researcher
 - Support grant writing teams

Voices against subsidies

- ❑ System may lead to publish in accredited journals with the lowest quality requirements
- ❑ Publishing in a top international journal can take 2-5 years but getting a weak paper into a local journal is far shorter (weeks-months)
- ❑ May encourage plagiarism
- ❑ Unethical arrangements may develop between institutions, or individuals, and publishers
- ❑ Driven by desire to increase university ranking

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Conclusion...

- Incentive system be based on:
 - Clear Policy – Research & Innovations Policy
 - Clear criteria and guidelines
 - Commitment by top Management

Thank you for the
invitation and listening
to me

Reading Material

- ❑ Carayannis, E. G. (2012) Sustainable policy applications for social ecology and development. Hershey, PA: Information Science Reference.
- ❑ Carayannis, E. G. and Campbell, D. F. J. (2012) Mode 3 knowledge production in quadruple helix innovation systems : 21st-century democracy, innovation, and entrepreneurship for development. New York; London: Springer.
- ❑ Etzkowitz, H. (2008) The triple helix : university-industry-government innovation in action. New York: Routledge.
- ❑ Gibbons, M., Limoges, C., Nowotny, H., Schwartzman, S., Scott, P., Trow, M. (1994) The New Production of Knowledge: The Dynamics of Science and Research in Contemporary Societies, London: Sage
- ❑ Chiara F., Guissepe S., Paula S. (2011): Changing incentives to Publish. Science. 333: 702-703.
- ❑ HERANA