

INORMS 2010
SubTheme: IMPACT IN THE RESEARCH INSTITUTION

University Research Outputs: A Resource for Strategic Position

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University: Outputs (expectations)

- # Potentially employable undergraduates
- # Trained researchers to innovate solutions to development problems
- # Provide research information and innovation for 'country' development
- # Professional services for identified needs
- # Products of commercialised research outputs and other innovations
- **RESEARCH based!**

Research Expectations(climate?)

External ?

- # Research is about knowledge generation, and is a **PROMISE** of every **research proposition!**
- # Knowledge is 'public good', every research is expected to contribute as value (PROMISE?) for the public funds spent
- # Reporting of research an expectation and the quality will be assessed by the 'Sponsor', and conditional for further support
- # University expected to account for the resources spent on research not only quantitatively, but **qualitywise!**
 - **REPUTABLE KNOWLEDGE**

Expectations (climate) Cont.

External ?

- # Gov. Research Funding – Competitive and **QUALITY** matters!
 - National Res./Sci. Tech. plan – Research Supplier
 - Publicize/market capabilities eg IR/Website
- # Research to inform **PRACTICE**, eg. policies, resource management, etc.
- # Industry – Research links (Botswana Innovation Hub –BIH)
- # **RESEARCH SUPPLY** – **whoever capable** ←
 - Potential International Suppliers – ***Competition!!!***

Expectations (climate) Cont.

Internal - Realization?

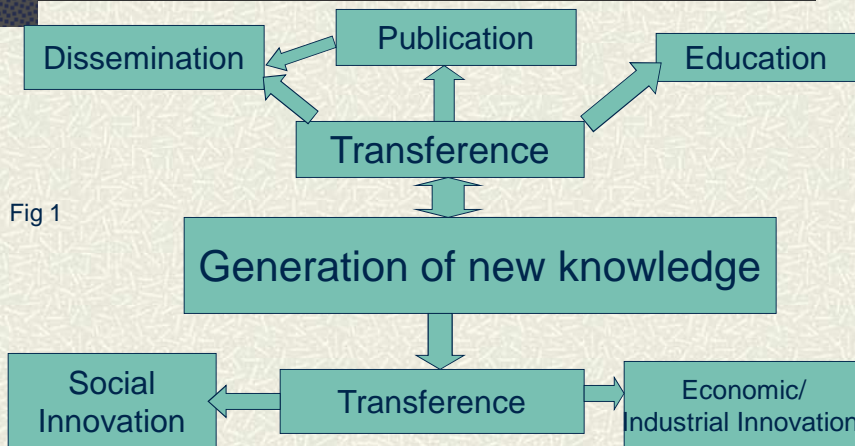
- # Accountability = reporting on outcomes of resource use
- # Funding – competitive nationally/internationally
- # Knowledge as ‘public good’ = dissemination.
- # Reputable knowledge = international benchmarks.
- # Research performance part of international IMAGE in global knowledge contribution
- # Research supplier – Informed practice – Industry = Reputation; ***Competition!!***

Research ‘Outcomes’ in Focus

Internal - Outputs Awareness? (management)

- # Research information – publications/ dissemination
- # Research experience - professional services for identified needs
- # Commercialization of outputs:
 - Patents
 - Licenses
 - Etc.
- # Trained researchers – postgraduates/emerging researchers

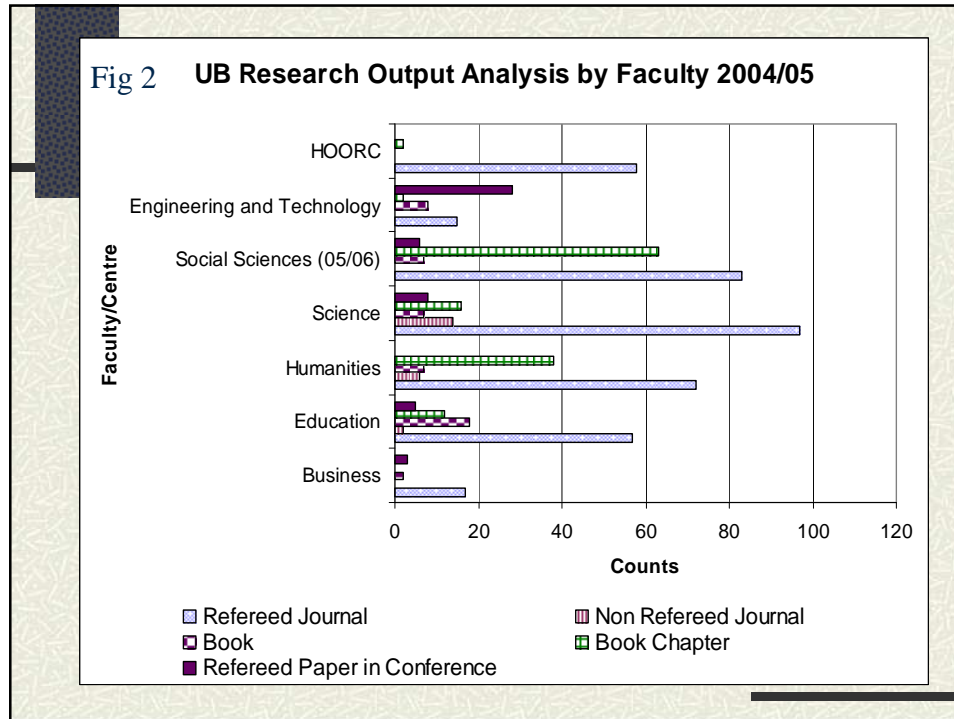
Transferences - Increasing Expectation



(Source: Modified from Ranguelov, 2005)

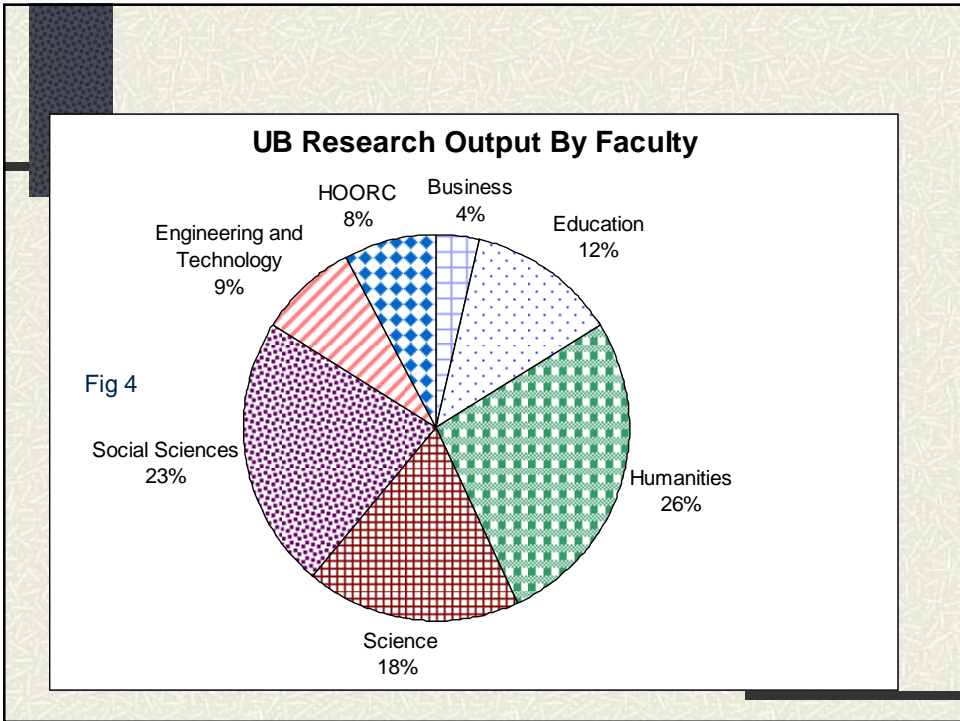
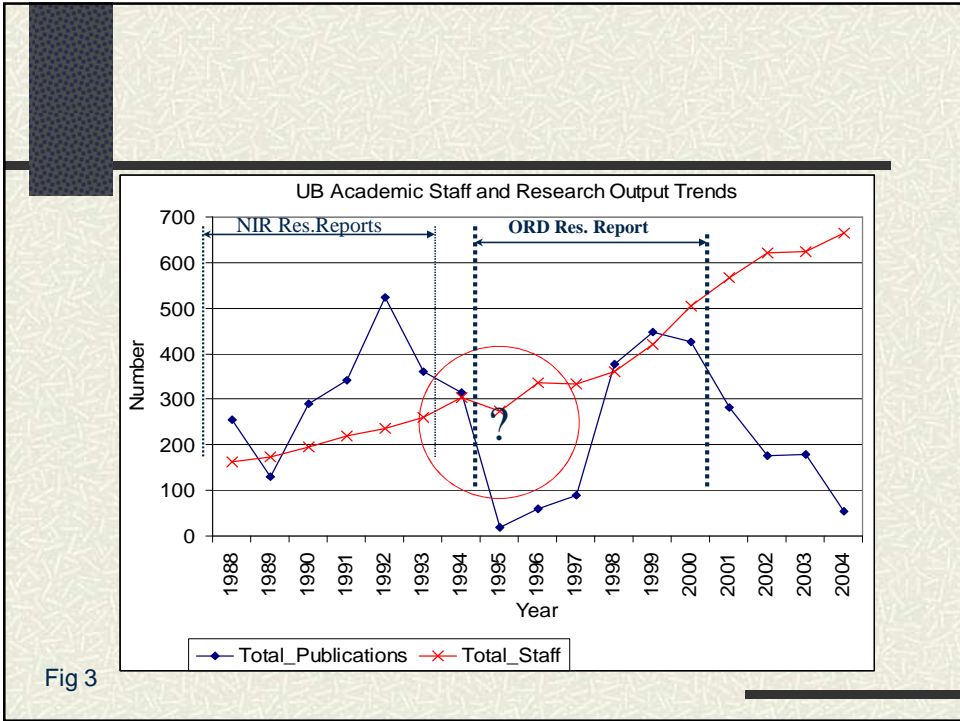
Research outputs

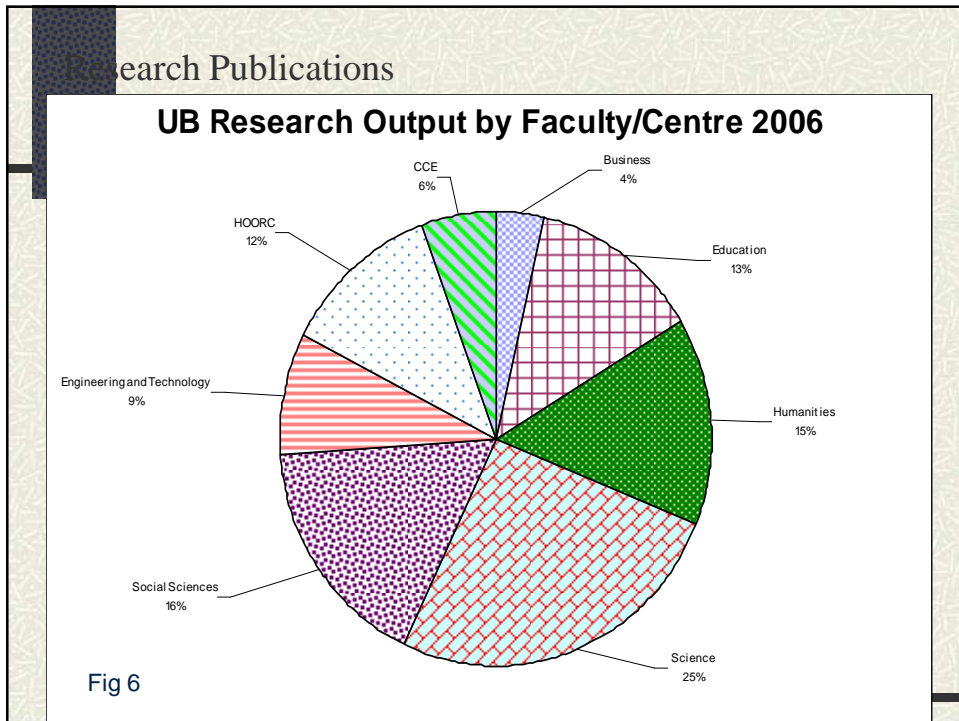
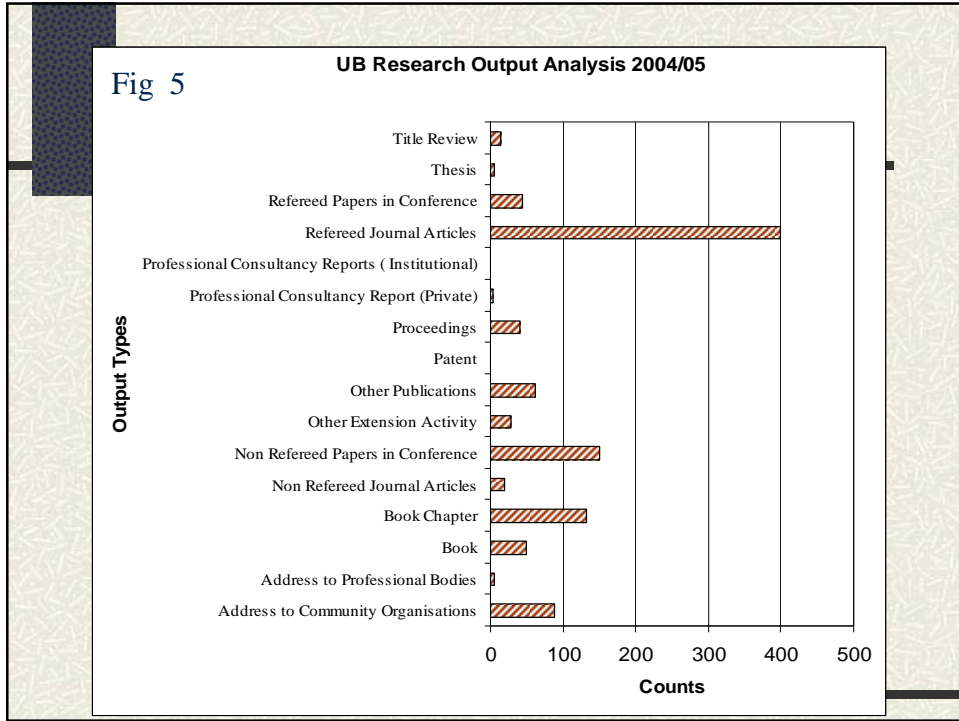
- # Preferred according to institutional intentions/expectations.
- # Collection and analysis
 - Areas of strengths
 - Weaknesses
 - etc
- # Information for decision making
 - Performance relative to expectations/BEST
 - What outputs to focus on
 - Resources and interventions needed
 - Etc.



Research outputs

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Research Output Analysis 2006

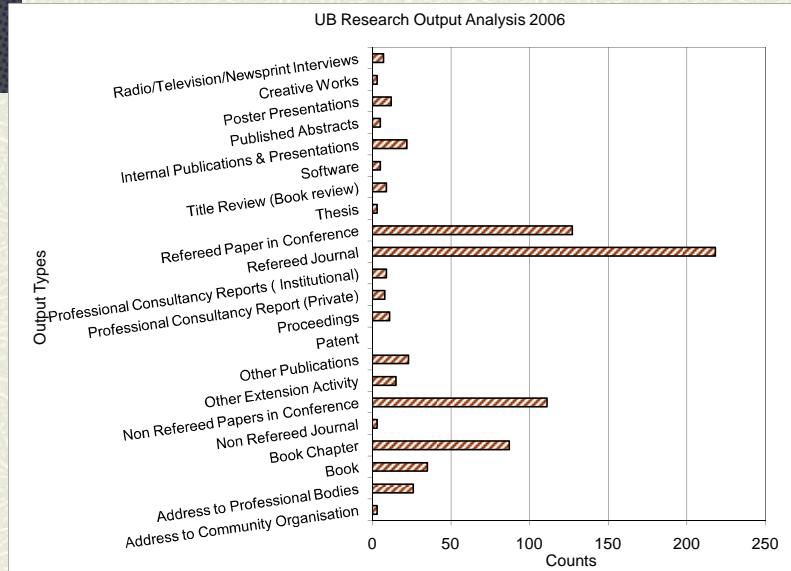
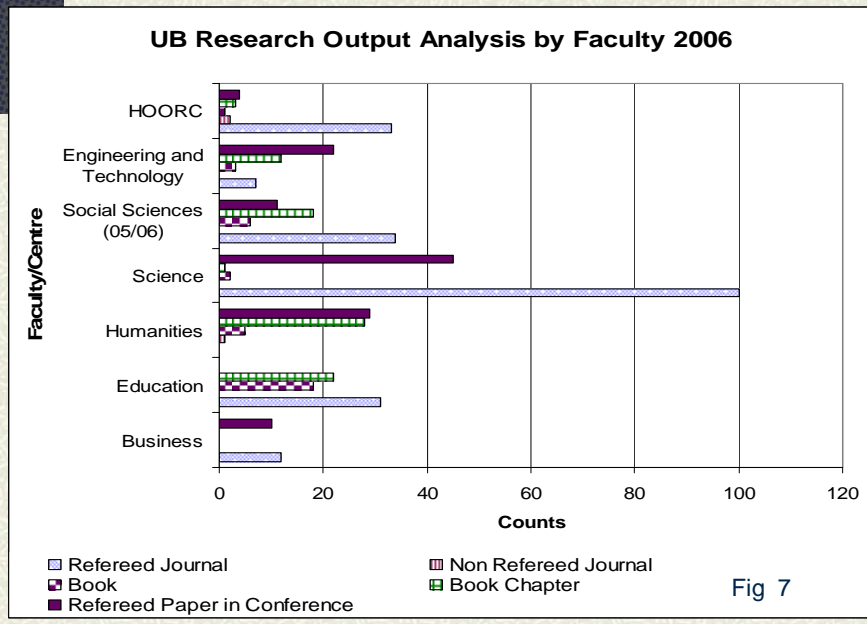
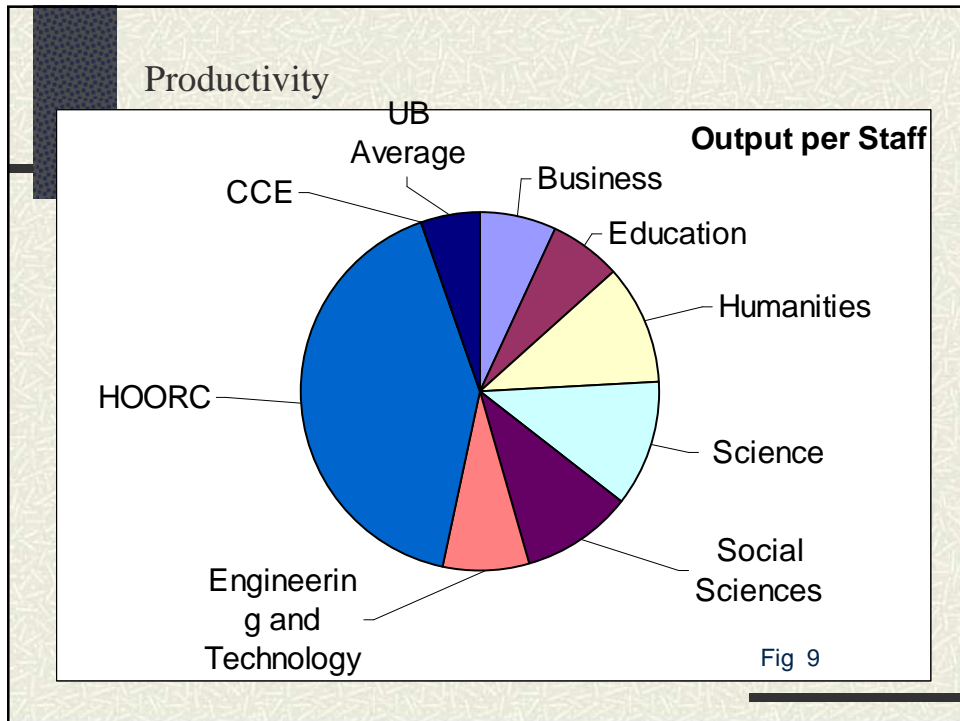
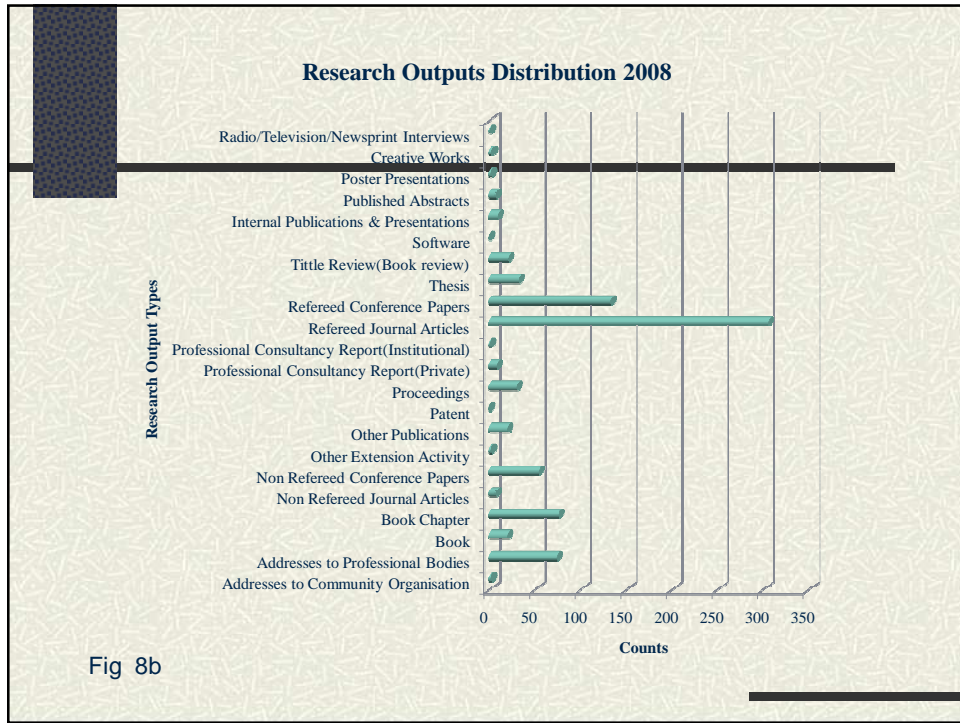


Fig 8a



Research Output from Funding Rounds

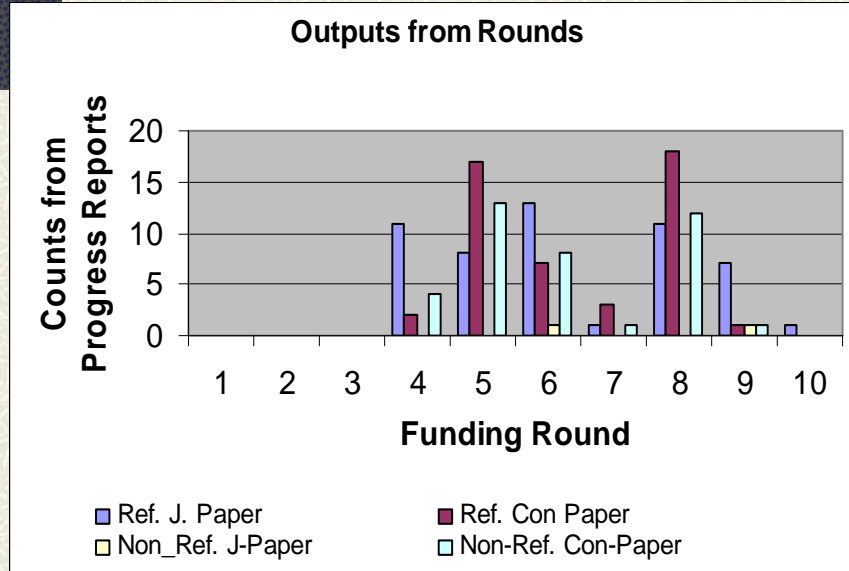


Fig 10

Planned Output – Funding Rounds

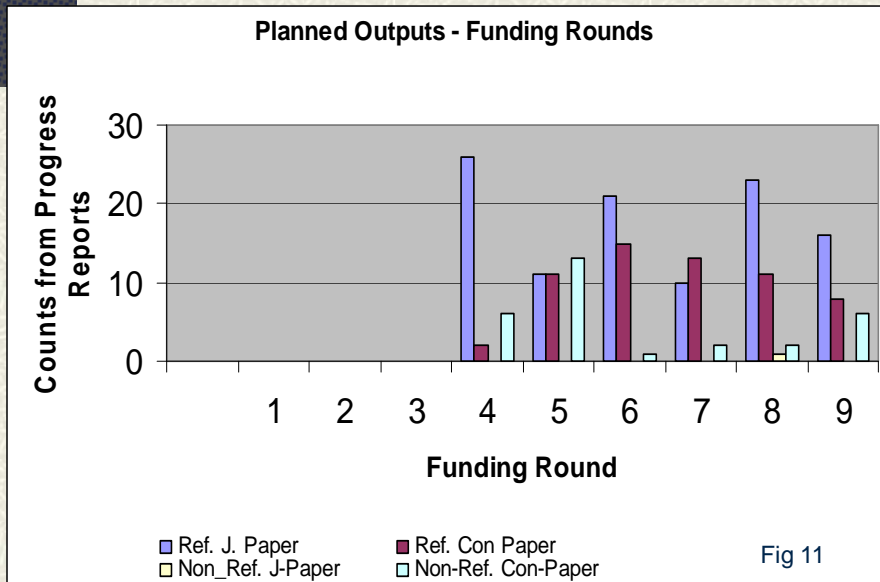
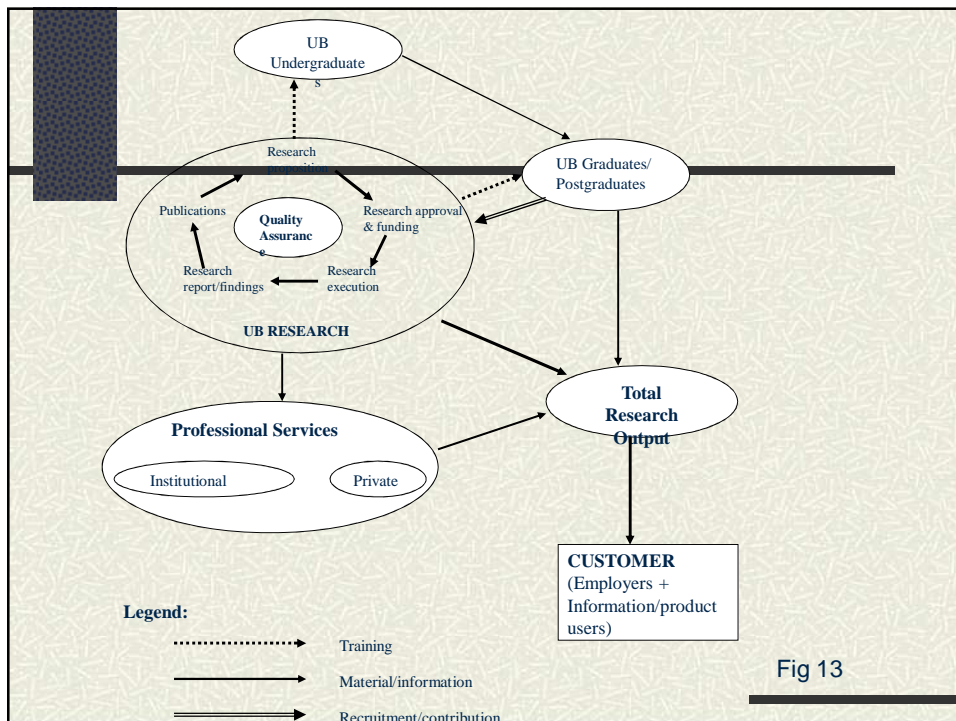
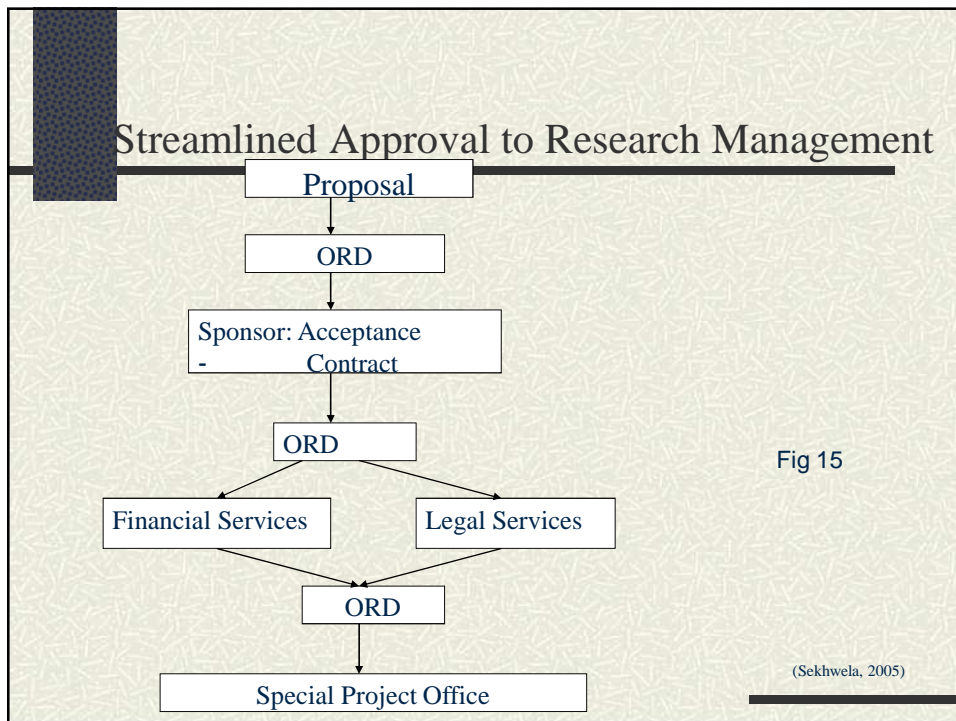
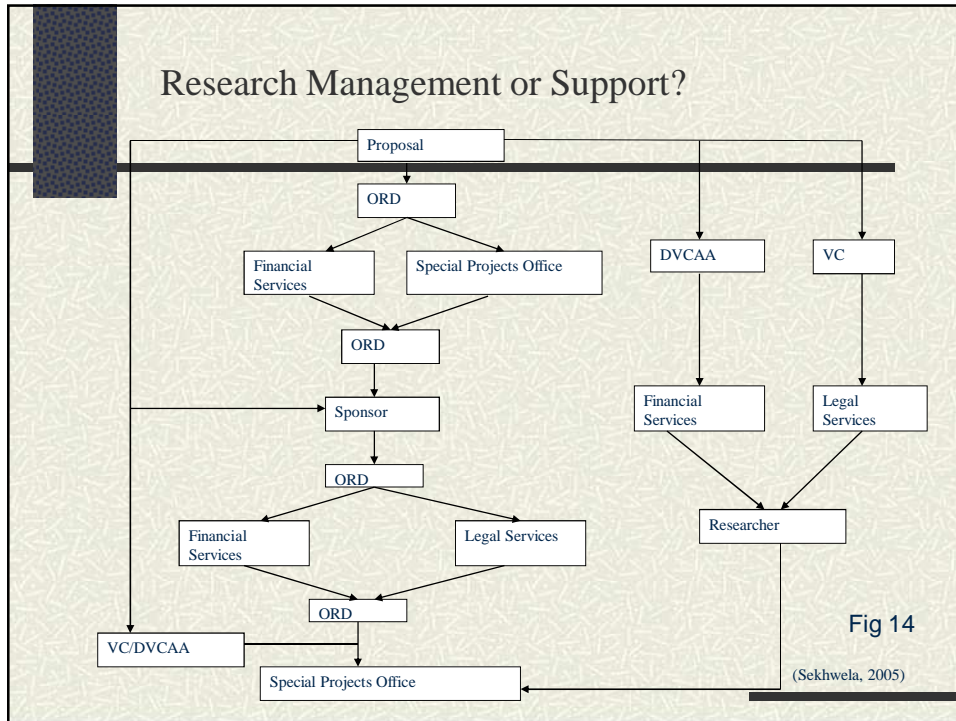
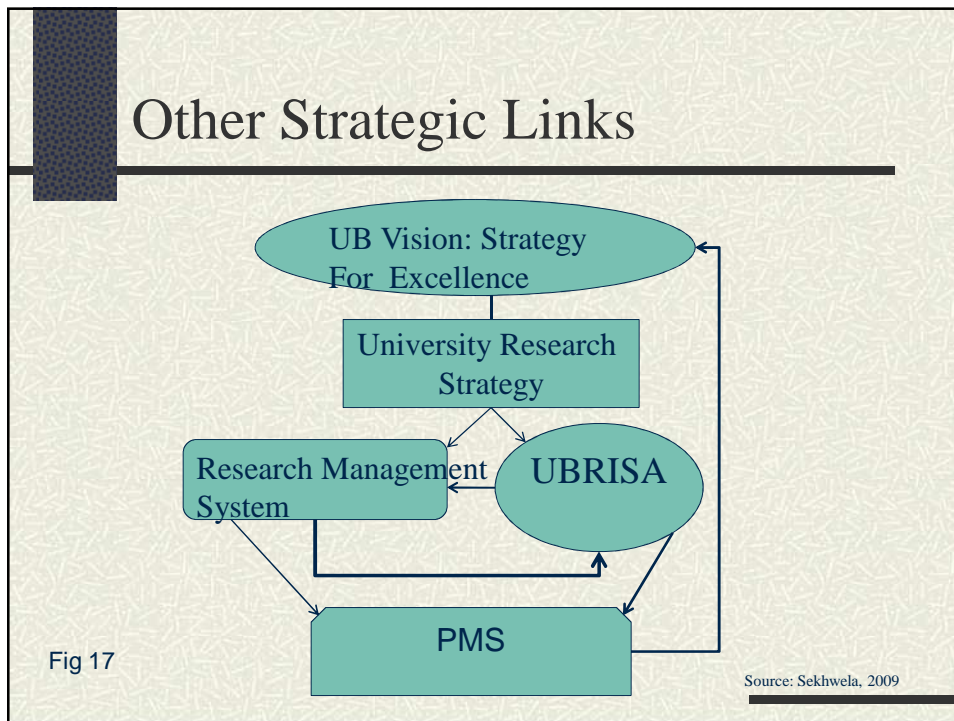
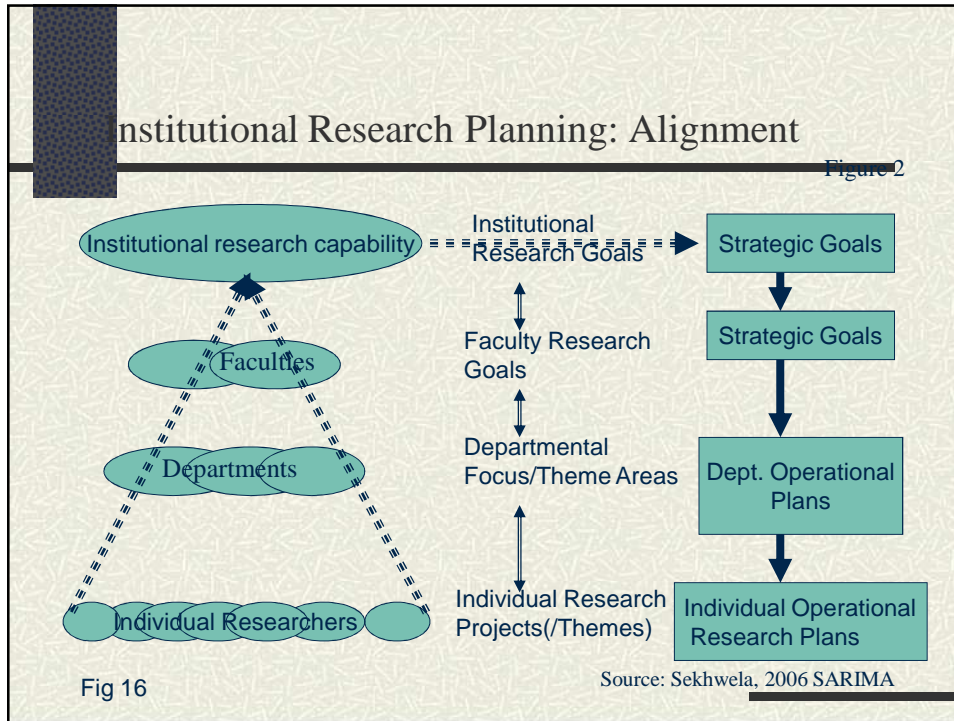


Fig 11

Training Needs - Registration







Conclusions

- # Research is institutional responsibility, and it will be enforced by 'Sponsors.
- # Competitive funding of research will be one of the drivers.
- # Research application will need reliability of findings – Reputation will be an issue
- # 'Excellence' in research is about publicised international standing – Website/IR

