Competition among Research Universities: Work in Progress

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Research questions

• What is the influence of global rankings on research universities?
• Are universities emphasizing research over other responsibilities?
• Are Asian universities catching up?
• What changes have occurred between 2003 and 2010?
<table>
<thead>
<tr>
<th>Region</th>
<th>Universities</th>
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| **China** | Peking University **PEK**  
| | Tsinghua University **THU**  
| | Sichuan University **SCU**  
| | Tianjin University **TJU**  
| | Beijing Normal University **BNU**  
| **Japan** | Tokyo University **TOK**  
| | Kyoto University **KYO**  
| | Tohoku University **THK**  
| **Australia** | Australian National University **ANU**  
| | University of Sydney **SYD**  
| **Hong Kong** | Chinese University of Hong Kong **CUHK**  
| | Hong Kong University **HKU**  
| **Other Asia** | National Taiwan University **NTU**  
| | National University of Singapore **NUS**  
| | Korea University **KOR**  
| **Europe** | University of Oxford **OXF**  
| | Swiss/ETH Zurich **ETH**  
| | Pierre & Marie Curie University **P06**  
| **USA** | Massachusetts Institute of Technology **MIT**  
| | University of California Berkeley **UCB**  
| | University of Michigan Ann Arbor **UM**  

*Data for 2003, 2007 and 2010*

Are the universities in this dataset increasing their emphasis on research?
Are universities spending a higher proportion of their budgets on research?
Are publications in indexed journals also increasing?
Have these increases been reflected in the rankings?
Publications per professor plus researcher, compared to Lieden Rankings impact factor

Leiden Top 10% (proportion of a university's publications that, compared with other publications in the same field and in the same year, are in the top 10% most frequently cited)

Indexed articles per professor plus researcher, and R&D expenditures per indexed article, 2010

U CB, MIT
NTU, TOK, HKU
SCU, KOR, BNU, TJU
CUHK, PKU, THU, NUS

O XF, UM, ETH
SYD, ANU

CUHK, ETH
OXF, UCB, BNU, SCU, TJU, PKU, KOR
THU
Implications

- Institutional behavior is consistent with “rankings fever”
- Asian universities are moving up fast
- Significant differences in productivity (number of articles) and impact
- Some universities are spending much more per article than others
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