If ranking is the disease, is benchmarking the cure?

Jamil Salmi Fertiary Education Coordinator Berlin, 7 October 2010

IREG-5 BERLIN



outline of the presentation

- uses and abuses of rankings
- from ranking to benchmarking
- benchmarking tertiary education systems



Higher Education Evaluation & Accreditation Council of Taiwan

RIVING FOR EXCELLENCE WITH FAIRNESS AND PROFESSIONALISM





ranking systems in 2010

Region	National and International Ranking System	
Eastern Europe and Central Asia	Kazakhstan (A, B), Poland (C), Slovakia (B), Romania (B/C), Russia (B, IB), Ukraine (B/C)	
East Asia and Pacific	Australia (B), China (B, C, IB), Hong Kong (C), Japan (B, C), Korea (A), Malaysia (A), New Zealand (A), Taiwan (B, IB), Thailand (A)	
Latin America and the Caribbean	Argentina (A), Brazil (A), Chile (C), Mexico (B), Peru (B)	
Middle East and North Africa	Tunisia (A)	
North America	Canada (B, C, B/C), United States (C, IC)	
South Asia	India (B/C), Pakistan (A)	
Sub-Saharan Africa	Nigeria (A)	
Western Europe	France (IB), Germany (B/C, C), Italy (C), Netherlands (A), Portugal (C), Spain (B, C, IC), Sweden (C), Switzerland (B/C), United Kingdom (A, B, IC)	







DIRECTIONS IN DEVELOPMENT Human Development

The Challenge of Establishing World-Class Universities

Jamil Salmi





a thin line between love and hate

- disagreement with principle
- criticism of methodology
- boycotts
- political pressure
 - court actions (New Zealand, Holland, Canada)



danger of rankings

- changes guided by rankings criteria
 - priority given to top students (equity concern) and/or foreign students
 - resource allocation (research)
- fraud in data presentation or survey participation, payment of students



TIMESONLINE

From The Timus

May 14, 2000

Kingston University students told to lie to boost college's rank in government poll



123 Allers The Three

Red Queen effect





government responses

- let us make a new ranking (Russia, Ecole des Mines, France / EU)
- let us encourage mergers (France, Russia, Denmark)
- let us give additional money (Excellence Initiatives
 - concentrate or spread in an equal manner?
 - select or make institutions compete?



risk of resource misallocation

"... Australia cannot afford to spread its relatively small resources too thinly. It must invest in niche areas. This means that some universities and some fields should get preferential treatment. If Australia does not have some universities playing at the high end, Australia will fall behind.' (Gallagher, 2008)

so should we just get rid of rankings?





GHSSTBUSTERS

È.

benefits of information

- choice of institution (domestic) or for studies abroad
 - surveys of student engagement
 - information about labor market outcomes (Chile, Colombia)







descargas	varios
Documento oficial (PDF)	Preguntas Frecuentes
Estudios	Glosario de Términos
Base de Datos (XLS)	Condiciones de Inform
Nota Metodológica (PDF)	🗉 Links de Interés
Video Demo!	

💐 Futuro Laboral

El sitio www.futurolaboral.cl es un servicio de inform pública desarrollado por el Sistema Nacional de informad la Educación Superior (SIES) de la División de Edu Superior del MINEDUC destinado a los estudiantes enseñanza media y superior, sus familias, profeso orientadores, académicos, medios de comunicación, em y empleadores.

Futuro Laboral actualmente informa sobre 85 ca profesionales v 50 técnicas, que concentran más del 8-



benefits of information

- choice of institution (domestic) or for studies abroad
 - surveys of student engagement
 - information about labor market outcomes (Chile, Colombia)
- culture of transparency
 - setting stretch goals



positive aspects at institutional level

collecting and publishing more reliable data
 analyzing key factors explaining ranking
 seeking to improve teaching, learning and research
 proposing concrete targets to guide [but not replace] strategic planning

entering into mutually advantageous partnerships



the power of rankings

public debate
Malaysia
Brazil
France



national level

13/LE MONDE/SAMEDI 24 JANWER 2004

SOCIÉTÉ ENSEIGNEMENT SUPÉRIEUR

FAIBLESSE DU FINAMCEMENT public de l'enseigne-ment supérieur et de la recherche, succès de la pétition « Sauvors la recherche », signée par 22 000 cher-cheurs : l'université française est en état de « crise lotten-

te », seion Michel Laurent, le vice-président de la confé-rence des présidents d'université. Un « PLAN D'UR-GENCE » a été réclamé lors des assises rationales, qu'au 65' RANG d'un palmarés international de l'enseiorganisées leudi 22 et vendredi 23 janvier par l'UNEF et gnement supérieur établi par une université chinoise.

Selon le chercheur lean-lacques Payan, le système fran-cais est « le plus inégalitaire et le plus inéfficace des pays développés ». Il se prononce pour une AUTOMOMIE ACCRUE des universités et une sélection à l'entrée.

La grande misère des universités françaises

Plusieurs conseils d'administration d'université ont menacé de ne pas voter leur budget pour protester contre l'insuffisance de leurs moyens. Malgré un budget global en hausse de 3 %, les établissements sont contraints à des restrictions sévères et font des « économies de bout de chandelle »



outline of the presentation

uses and abuses of rankings

from ranking to benchmarking



top 50 universities (2010)





size effect



ARWU

Population required to create a top 500-listed university				
Country	No. Top 500s		People required to	
		Population (000)	produce each top 500	
Sweden	11	9,045	822.27	
New Zealand	5	4,173	834.6	
Finland	6	5,244	874	
Switzerland	8	7,581	947.63	
Norway	4	4,644	1,161	
Austria	7	8,205	1,172.14	
Israel	6	7,112	1,185.33	
Denmark	4	5,484	1,371	
Australia	15	20,600	1,373.33	
Ireland	3	4,156	1,385.33	

social mobility and inequality





well-performing economies without world-class universities

WEF	WB K4D	SJTU
USA	Denmark	US (1)
Switzerland	Sweden	UK (4)
Denmark	Finland	Japan (19)
Sweden	Netherlands	Switzerland (24)
Singapore	Norway	Canada (24)
Finland	Canada	France (42)
Germany	Switzerland	Denmark (45)
Netherlands	UK	Netherlands (47)
Japan	USA	Sweden (51)
Canada	Australia	Germany (55)



what the rankings lens does not allow us to see

- overall performance of tertiary education systems
- access vs. equity
- quality and relevance
- institutional differentiation
- contribution to local economic and social development (human capital vs. patents)



'The United States doesn't have a world-class higher education system because it has many world-class universities; instead it has world-class universities because it has a worldclass higher education system.' (Birnbaum, 2007)



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cross-country comparisons help put things into perspective









multi-dimension comparisons enriches the diagnosis











what is benchmarking?

- process of comparing the performance of one's tertiary education system to that of other systems
 - competitors
 - good practices



purpose

improving performance

- diagnosis (identification of areas for improvement)
- definition of specific corrective interventions
- no consensus on what countries should do to improve their performance
 - wide variations in system performance with similar funding levels and common country characteristics



comparing Brazil and Chile



public spending as % of GDP



elaborating the theoretical framework

- distinction between performance and health of system
 - how good are the system's actual outcomes?
 - does it operate under conditions known to lead to high performance?
- definition of outcomes / outputs / results
- identification of determinants and causality relationships



informed by empirical evidence






results

drivers of performance





justification for conceptual framework

- World Bank: Constructing Knowledge Societies (2002)
- OECD Synthesis of Tertiary Education Reviews (2007)
- Salmi: Challenge of Esta Universities (2009)

OECD Reviews of Tertiary Education

SPAIN

Guy Haug, Salvador Malo,

The Challenge of Establishing World-Class Universities

THE WORLD BANK

Id-Class

Aghion et al: Governance and Performance of Research Universities (2009)







examples of indicators (results)





examples of indicators (results)

	research output	 number of citations per 100,000 inhabitants
	technology transfer	 number of patents per 100,000 inhabitants
	values	 proportion of voting age people who actually vote



examples of indicators (system health)





examples of indicators (system health)





comparing Brazil and Chile's attainment





Chile

Brazil

key drivers of enrolment

No.	Driver
1	secondary education completion rate
2	public and private spending on tertiary education as a percentage of GDP
3	share of private spending as a proportion of total spending on tertiary education
4	proportion of public spending, tertiary on total student aid (loans plus grants)
5	private enrolment share, tertiary (%)
6	proportion of students studying at non-university institutions (open university, polytechnics. etc) (%)

secondary school completion rate





C

public spending

public spending vs. enrolment rate





public and private spending as % of GDP vs. enrolment rate



public and private spending as percentage of GDP

student aid

public spend on student aid vs. enrolment rate



private enrolment

private enrolment share vs. enrolment rate



enrollment in non-university institutions

proportion of students studying at non-university institutions vs. enrolment rate



summary comparison of Chile, Brazil and LAC average





CHE ranking interactive website

Universities

You can only choose up to 10 indicators at once



101 100 101 1000						
MY INDICATORS:						
(S)= Student's jugdements (F)= Facts (P)= Professor's judgements						
Academic studies and teaching	International orientation					
 ✓ Contact between students (S) ✓ Counselling (S) ✓ Courses offered (S) ✓ E-Learning (S) ✓ Study organisation (S) ✓ Teaching evaluation (S) 	Support for stays abroad (S) Support for stays abroad (S) Job market and career-orientation Job market preparation (S) Practice Support (S) Overall opinions	0 0 0				
Equipment	Overall study situation (S)	Ø				
IT-infrastructure (S) Library (S)	 	D D				
	⁽¹⁾ Research					
	 Many internationally visible publications (F) many doctorates (F) many publications (F) much third party funding (F) 	0 0 0				
	Town and University					
	Higher education sport (S) low rent (F) small university location (F)	D D D				
	Academic studies and teaching ✓ Contact between students (S) ✓ Counselling (S) ✓ Courses offered (S) ✓ E-Learning (S) ✓ Study organisation (S) ✓ Teaching evaluation (S) Equipment IT-infrastructure (S)	(S)= Student's jugdements (F)= Facts (P)= Professor's judgements Academic studies and teaching International orientation ✓ Contact between students (S) □ ✓ Counselling (S) □ ✓ Courses offered (S) □ ✓ E-Learning (S) □ ✓ Study organisation (S) □ ✓ Teaching evaluation (S) □ ✓ Traching evaluation (S) □ ✓ IT-infrastructure (S) □ □ IT-infrastructure (S) □ □ IT-infrastructure (S) □ □ Library (S) □ □ Library (S) □ □ Library (S) □ □ barrent □ ○ Research ✓ ✓ Many internationally visible publications (F) ✓ ○ W many publications (F) ✓ ○ W many publications (F) □ ○ W many publications port (S) □				

wiew rank groups in greyshades »

conclusion





Gero Federkeil

A Reference

FREE eTips at dummies.com

Rest of Us

Covers maintenance, troubleshooting, add-ons, and more

Benchmarking Tertiary Education

Upgrade your knowledge – measure, assess and compare your universities!

lessons

- thirst for information, culture of transparency and accountability
- rankings = one among many QA and accountability
- international comparisons help to stimulate a healthy debate on main challenges



benchmarking

- different type of analysis
 - system-wide rather than institutional
 - multi-dimensional
 - alignment of key dimensions
- actionable policy levers
 - informed decisions



April 2008 Update

MINNESOTA OFFICE OF HIGHER EDUCATION

Minnesota Measures

2008 Report on Higher Education Performance

clear goals

Building Minnesota's world-leading status in the knowledge economy requires setting goals for HE and measuring results.

Governor Tim Pawlenty

GOAL ONE	Improve success of all students, particularly students from groups traditionally underrepresented in higher education.
GOAL TWO	Create a responsive system that produces graduates at all levels who meet the demands of the economy.
GOAL THREE	Increase student learning and improve skill levels of students so they can compete effectively in the global marketplace.
GOAL FOUR	Contribute to the development of a state economy that is competitive in the global market through research, workforce training and other appropriate means.
GOAL FIVE	Provide access, affordability and choice to all students.



benchmarking

Research Expenditures as a Proportion of Gross Domestic Product by State and Country

	2000	2001	2002	2003	2004		
Top 3 States							
New Mexico					8.0%		
Maryland					6.3%		
Massachusetts					5.2%		
Minnesota	2.3%	2.6%	2.6%	2.8%	2.7%		
Rank	17	16	14	15	14		
National average	2.7%	2.7%	2.5%	2.6%	2.4%		
Peer States ^s	2.7%	2.7%	2.5%	2.5%	2.5%		
OECD Countries Average	2.2%	2.3%	2.2%	2.3%	2.3%		
Top 3 Countries							
Finland					3.5%		
Japan					3.1%		
Korea					2.9%		

Source: The National Science Foundation (national data), Organisation for Economic Cooperation and Development. (International data).

Note: In order to scale the measure across states, the indicator was divided by gross domestic product by state which is provided by the Bureau of Economic Analysis.