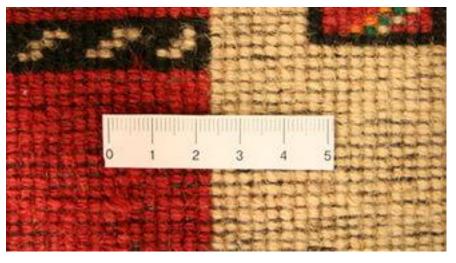
How to best measure performance in teaching and learning?

2018 Japanese – German Symposium 27th April @ Hitotsubashi Hall



Quantity × **Quality**

Quantifiable and unquantifiable evaluations





Quality of an Oriental carpet measured by its knot density (number of knots), material and pigment

= quantifiable elements

Quantity × **Quality**



But also by design, weaving technique, and authenticity = unquantifiable elements

Quantity × **Quality**

Quality of teaching and learning are both quantifiable and unquantifiable



Tendencies to overemphasising quantifiable aspects of teaching and learning quality

What are measured

Who measures

National & Int'national Comparison



HE Institutions



Ranking Agencies
Int'national
Organizations

Institutional Assessment



HE Institutions
Faculties
Schools
Departments



Quality Assurance
Agencies
Public & Private
Organizations

Individual Evaluation



Teaching faculty



Students Peers

Students' Course Evaluation



Good direct way of measuring the quality of teaching with drawbacks.

- * Low turn-out and statistical accuracy
- * Students incapable of knowing quality teaching

Peer Reviewing & Faculty Development



- *Peer observation
- *Peer assessing of the information about syllabi, assignments, grading, and self-evaluative statement

Limitations: Personal bias; collegiality; time and effort

Assessing the teaching and learning standard at national and regional levels



TEF (Teaching Excellence or Student Outcomes Framework) - UK government assessment of the quality of undergraduate teaching



QILT (Quality Indicators for Learning and Teaching) - Surveys of the quality of Australian higher education institutions



CALOHEE (Measuring and Comparing Achievement of Learning Outcomes in Higher Education in Europe) - Survey focusing on learning outcomes



College Scorecard – US Department of Education links information about educational programme, price and employment



THE-Benesse Japanese University Rankings – Rankings of educational quality



AHELO (Assessment of Higher Education Learning Outcomes) – OECD direct evaluation of student learning outcomes

Which metrics in assessing an institution?

Recent shift from measuring inputs to outcomes

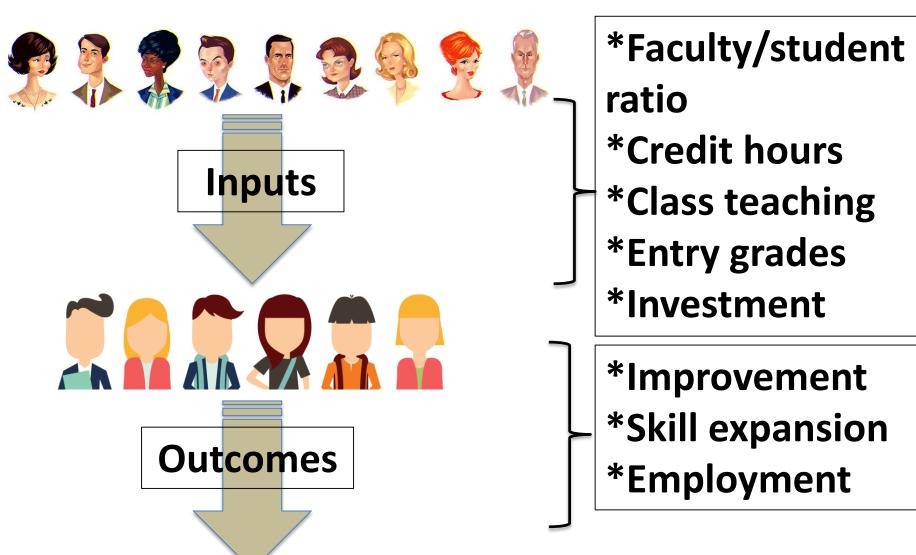








Quality of Teaching & Learning



Institutional Assessment (Japan)

The Second THE-Benesse Japanese University



	Monetary resource per student	8%
	Student/Faculty ratio	8%
Educational	Publication per faculty	7%
Resources	Entrance examination results	6 %
	Competitive research funds earned	5 %

Institutional Assessment (Japan)

Educational Engagement	Evaluation by high-school teachers: 'How much a university is committed to nurture globally minded workforce?'	13 %
	Evaluation by high-school teachers: 'How much students develop their academic capability?	13 %

Educational	Evaluation of graduates by personnel officers of corporates	10%
Outcomes	Evaluation of graduates by academic researchers	10%

Institutional Assessment (Japan)

Educational Environment (International- ity)	Rates of international students	5%
	Rates of international faculty	5%
	Japanese/international students ratio	5%
	Ratio of courses taught in non- Japanese languages	5%

One of the worst examples of institutional assessment

Comparison and Rankings

1	Kyoto University	87.7
1	The University of Tokyo	87.7
3	Tohoku University	86.3
4	Tokyo Institute of Technology	85.6
5	Kyushu University	85.0
6	Hokkaido University	83.4
7	Nagoya University	82.6
8	Osaka University	81.1
9	Tsukuba University	80.8
10	Keio University	77.7
11	Waseda University	77.5



TEF (Teaching Excellence and Student Outcomes Framework)

Core Metrics

Evaluation	leaching quality: teaching on my course
	Teaching quality: Assessment & Feedback
Learning	Academic support
environment	Continuation
Student	Employment or further study
outcomes & learning gain	Highly skilled employment or further study

Supplementary metrics

Evaluation	Grade inflation
Student outcomes & Learning gain	Sustained employment or further study
	Above median earnings threshold or further study
134 Higher education providers ratings	

Gold	45 Institutions: Oxford, Cambridge & 6 Russell Group Universities
Silver	67 Institutions: Bristol, Durham, Kings College, Manchester
Bronze	25 Institutions: Southampton, Liverpool, London School of Economics

Flaws



Statistics and points cannot be proxy for what goes on in classroom.



Institutional – departmental or classroom discrepancies

How to better measure the quality of education



* Better and fairer metrics and criteria



* More emphasis on student outcomes and learning gain



* To come up with a measure to measure the unmeasurable

Student outcomes:
Employment
Further study
Highly skilled employment
Better salary

Promotion



Measurable

Learning gain:
Grades
Qualifications
Tests



Indicators (tangible):

- *Alumni Outcomes
- *Employer/Student connection Indicator (intangible) *Employer reputation

Limitation:

* The accuracy of reputation

What are the unmeasurable?

Students learn from other students and by themselves. Not everything can be taught.

University education is not only for the sake of students' employers. Learning for students themselves and learning for learning's sake.

Unmeasurable outcomes

