

How to Measure the Elephant?

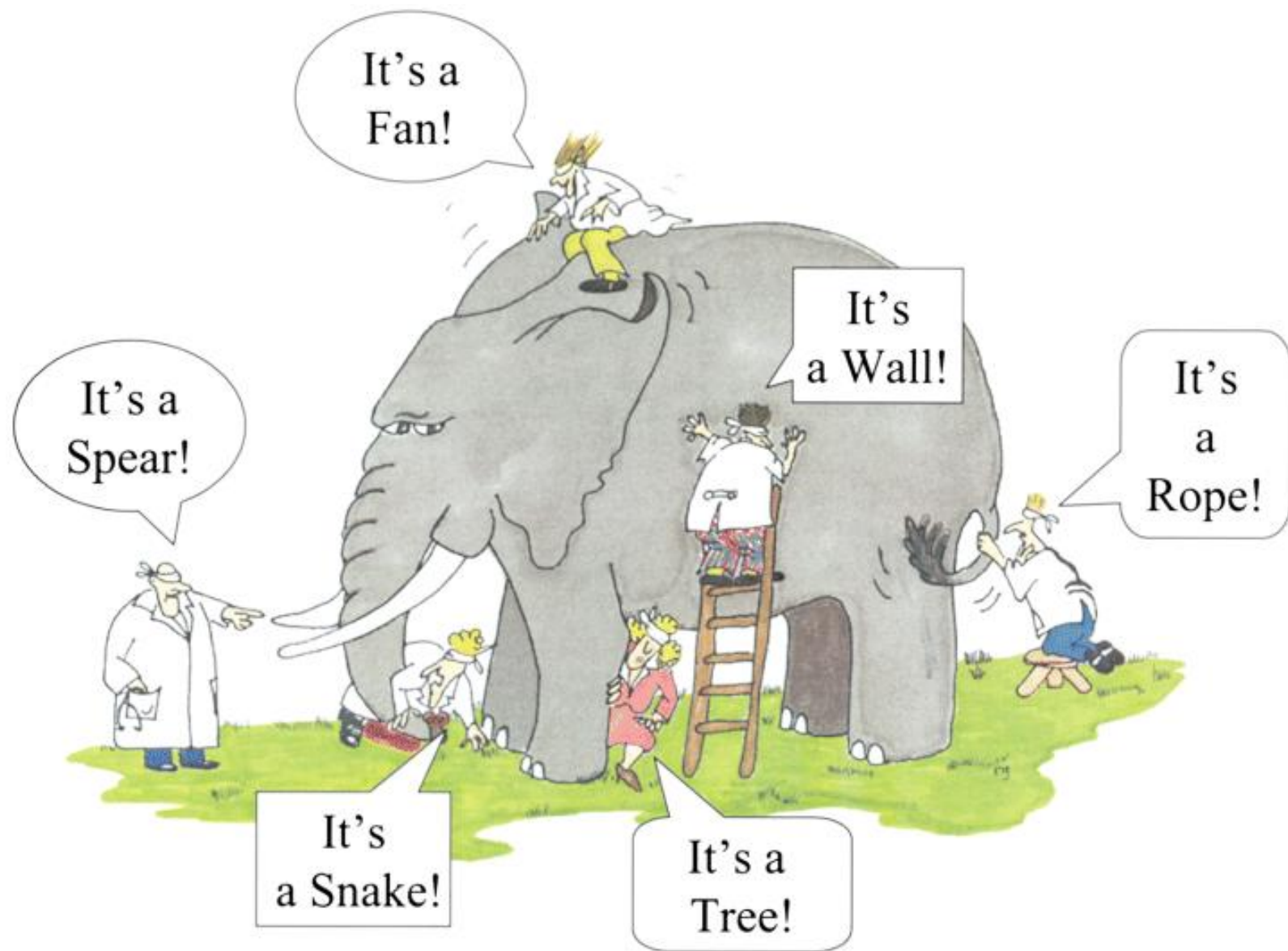
**A Systemic approach for
measuring environmental
sustainability in Higher
Education Institutions**

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Grønt UiO





Common Principles of Sustainability in Higher Education Declaration,

Wright 2004

Declaration	Moral Obligation	Public Outreach	Physical Operation	Environmental Literacy	Inter- disciplinary Curriculum	Research	Partnership & Collaborations with other sectors	Inter- university Cooperation
Talloires	X	X	X	X	X	X	X	X
Halifax	X	X		X			X	X
Kyoto	X	X	X	X		X	X	X
Swansea	X	X	X	X		X		X
CRE- COPERNICUS	X	X		X		X	X	
Thessaloniki	X	X		X	X		X	
Luneburg	X	X			X	X	X	X

Dimensions of Educational Institutions

Seven operational Dimensions of an Educational Institutions (Sterling, 2004)

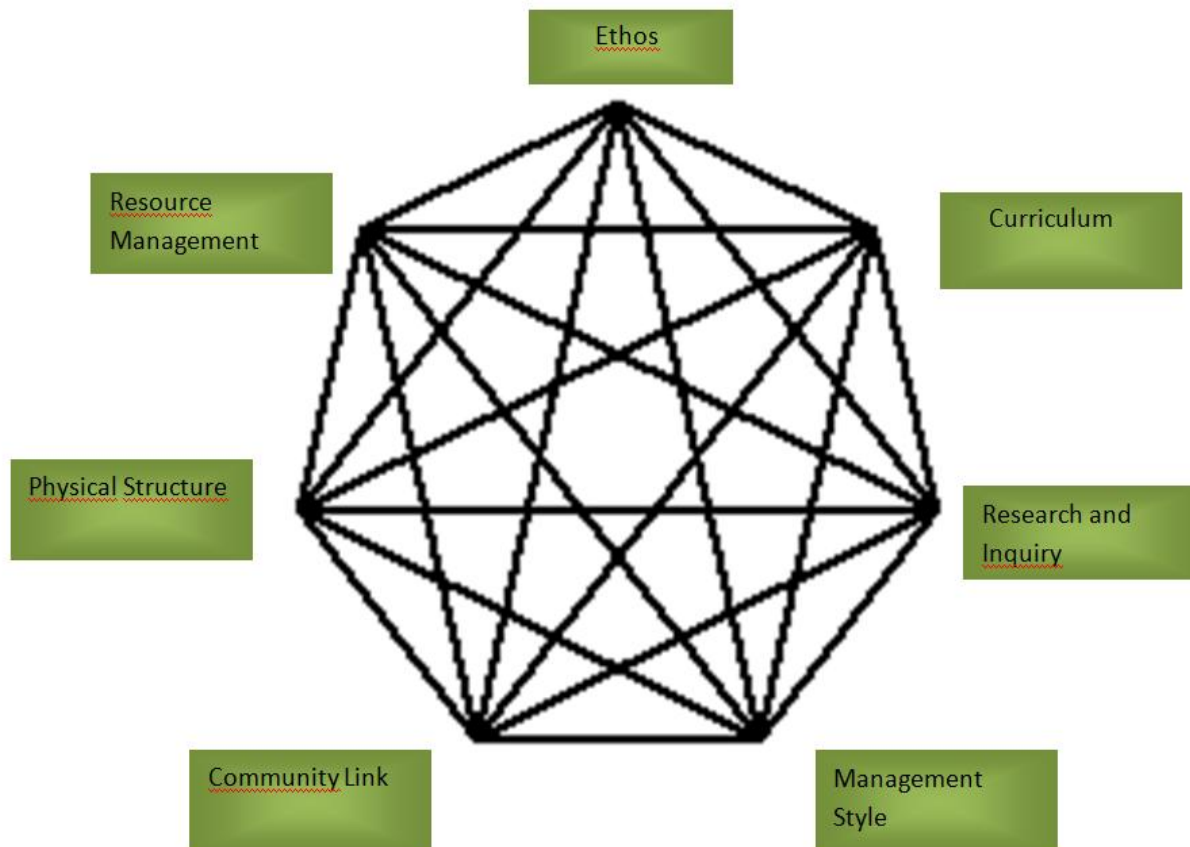


Table of Indicators

Governance and Administration	Curriculum & Study opportunity	Research	Operation	Other related activities
Staff position / Sustainability office	Undergraduate study in Environmental Sustainability	Research Centre / Institute	Energy	Conferences
Policies / Principles/ Strategy	Postgraduate study in Environmental Sustainability	Internal Grant Opportunity	Carbon emission	Students group
Institutional declaration/ Resolutions	Doctoral studies in Environmental Sustainability	External Funding	Waste Recycling	Events (except conferences)
Strategic approach/ Action plan	Environmental Sustainability Education	Research Collaboration with Industry & Corporate	Building	Community Projects
Internal Awards	Multidisciplinary Sustainability Education	Journal	Purchasing	University- Community Partnership
Annual Sustainability Reports	Service Learning	Communication within Research Centres	Water	Website of Sustainability centre/activities
Students levy	Student Research	Other research Activities	Food & Dining	Media/ News from Sustainability of University
Audits	Climate Change	Climate Change	Paper	External Awards and Recognition
			Housing	Campus tour & Flyers
			Sustainability Management System	Raising Awareness/ Culture Change
			Implementing Innovation & Technology	Visibility of Sustainability of University on the website
			Conservation	
			Transportation	
			Fair trade	
			Chemical Material Concern Lead/ Pesticide/ Detergent Green Lab	

Governance & Administration



Education

ES Program

- Undergraduate
- Postgraduate
- PhD
- Climate Change Program

- ES Courses
- ES Multi
Disciplinary

- Service
learning
- Student
Research

Research

Research Centre / Institute

Internal Grant Opportunity

External Funding

Research Collaboration with Industry & Corporate

Journal

Communication within Research Centres

Climate Change

Technical Operation

-
Sustainability
Management
System

- Implementing
Innovation &
Technology

-Carbon
Emission

-
Transportation

-Energy

-Water

-Conservation

-Purchasing

-Food & Dining

-Fair Trade

-Building

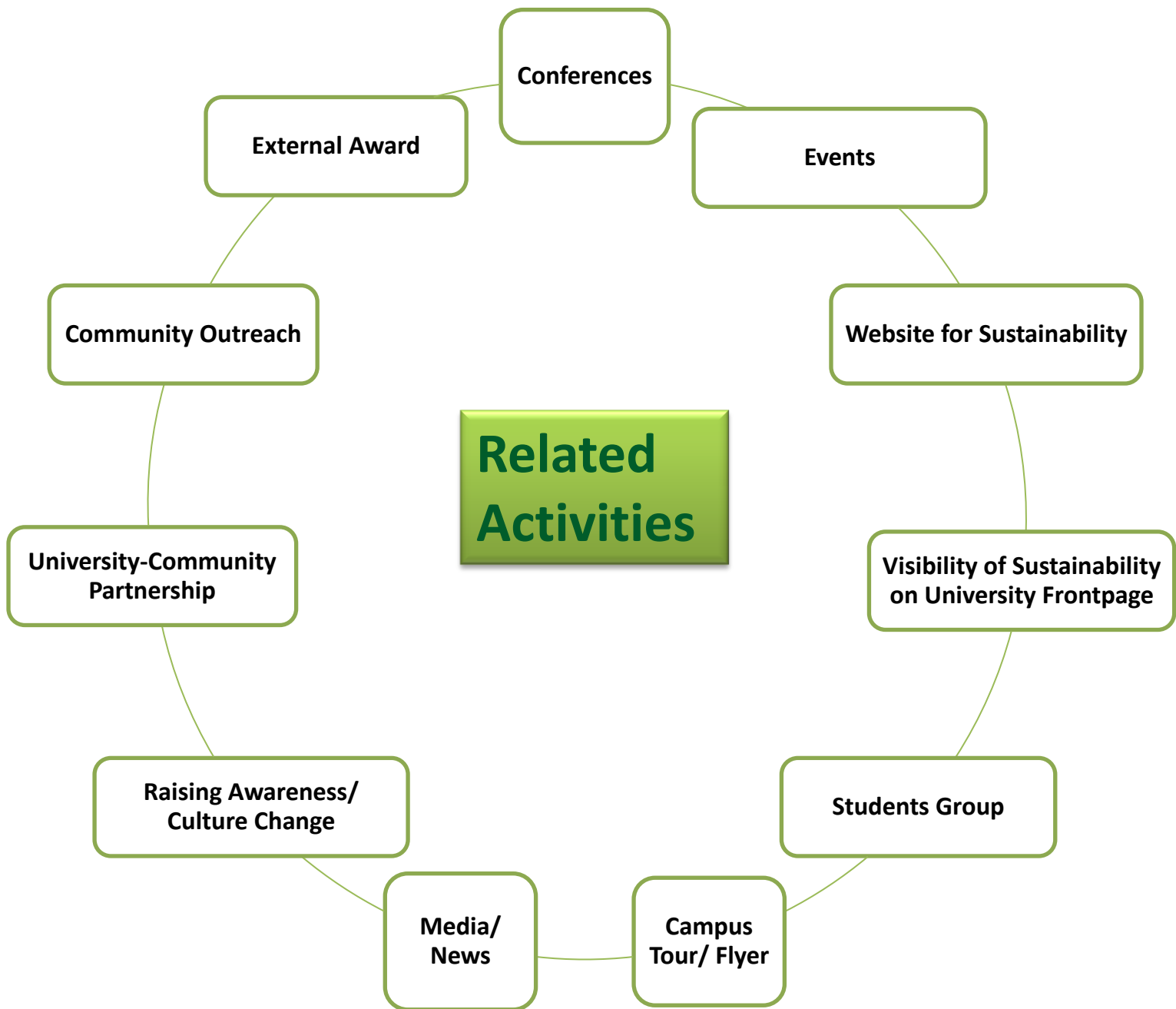
-Housing

-Green Lab

-Waste
Recycling

-Paper

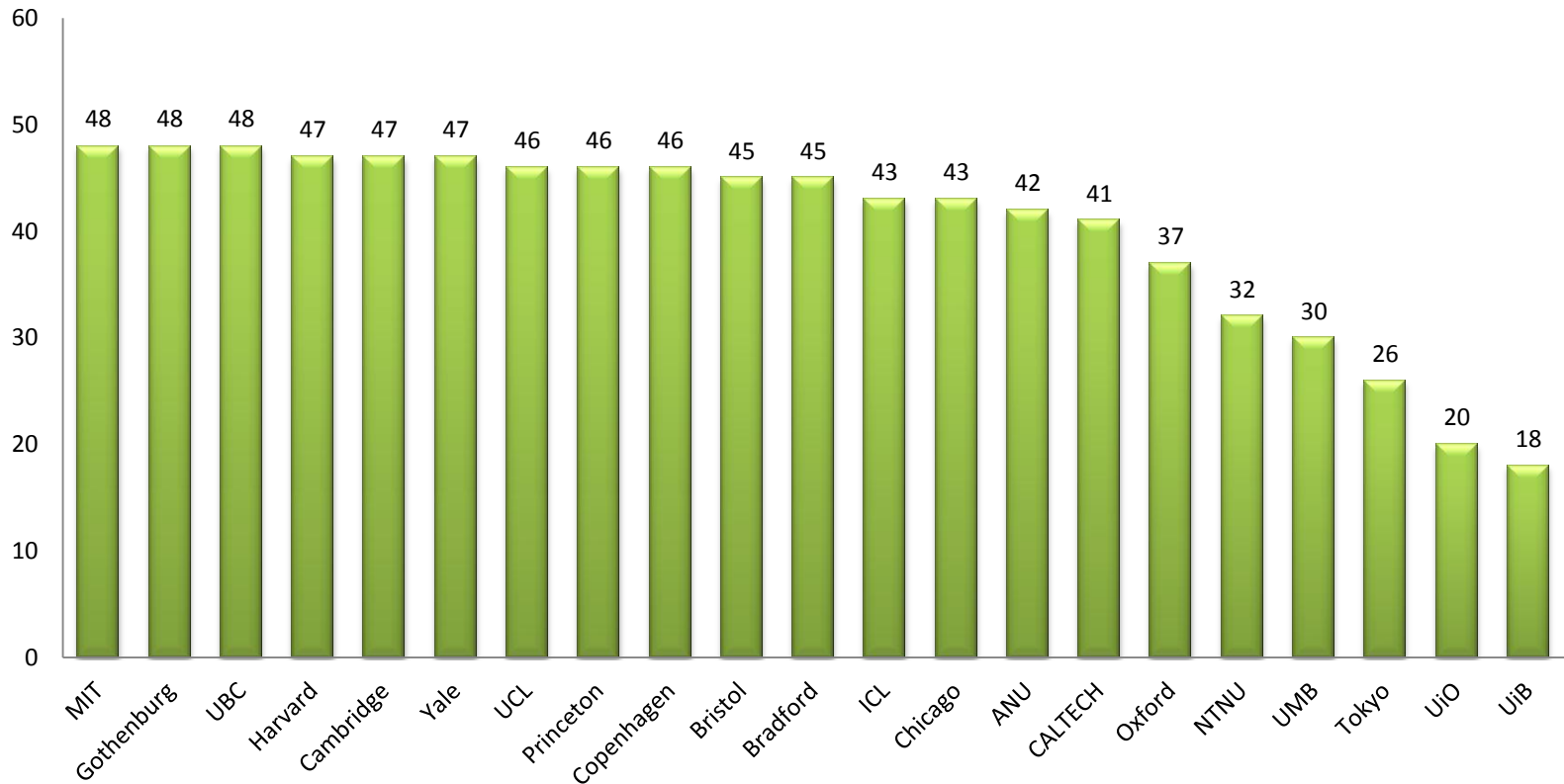
-Chemical
Material



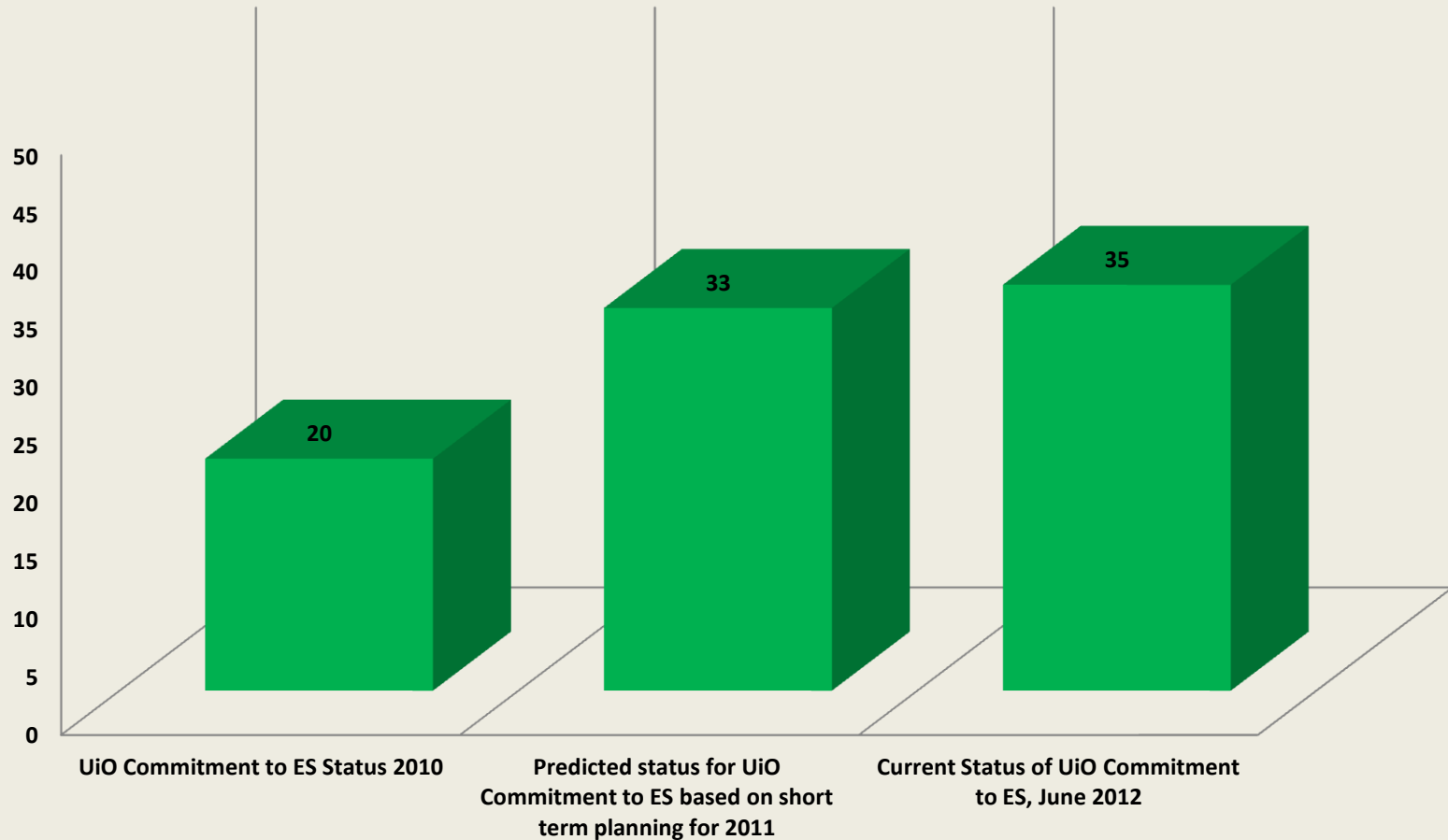
Sample:

1. Harvard University
 2. Cambridge University
 3. Yale University
 4. UCL (University College London)
 5. Imperial College London
 6. Oxford University
 7. Chicago University
 8. Princeton University
 9. MIT (Massachusetts Institute of Technology)
 10. CALTECH (California Institute of Technology)
 11. Australian National University (THE Ranking: 17)
 12. University of Tokyo (THE Ranking: 22)
 13. Bristol University (THE Ranking: 34)
 14. University of Copenhagen (THE Ranking: 51)
 15. British Colombia University (THE Ranking: 40)
 16. Gothenburg University (THE Ranking: 185)
 17. Bradford University (N/A) (THE: 'Outstanding Contribution to Sustainable Development Award 2010' over 1200 universities)
 18. University of Bergen (UiB) (THE Ranking: 144)
 19. Norwegian University of Science and Technology (NTNU) (N/A)
 20. Norwegian University of Life Science (UMB) (N/A)
- * UiO is 101st in THE Ranking 2009.

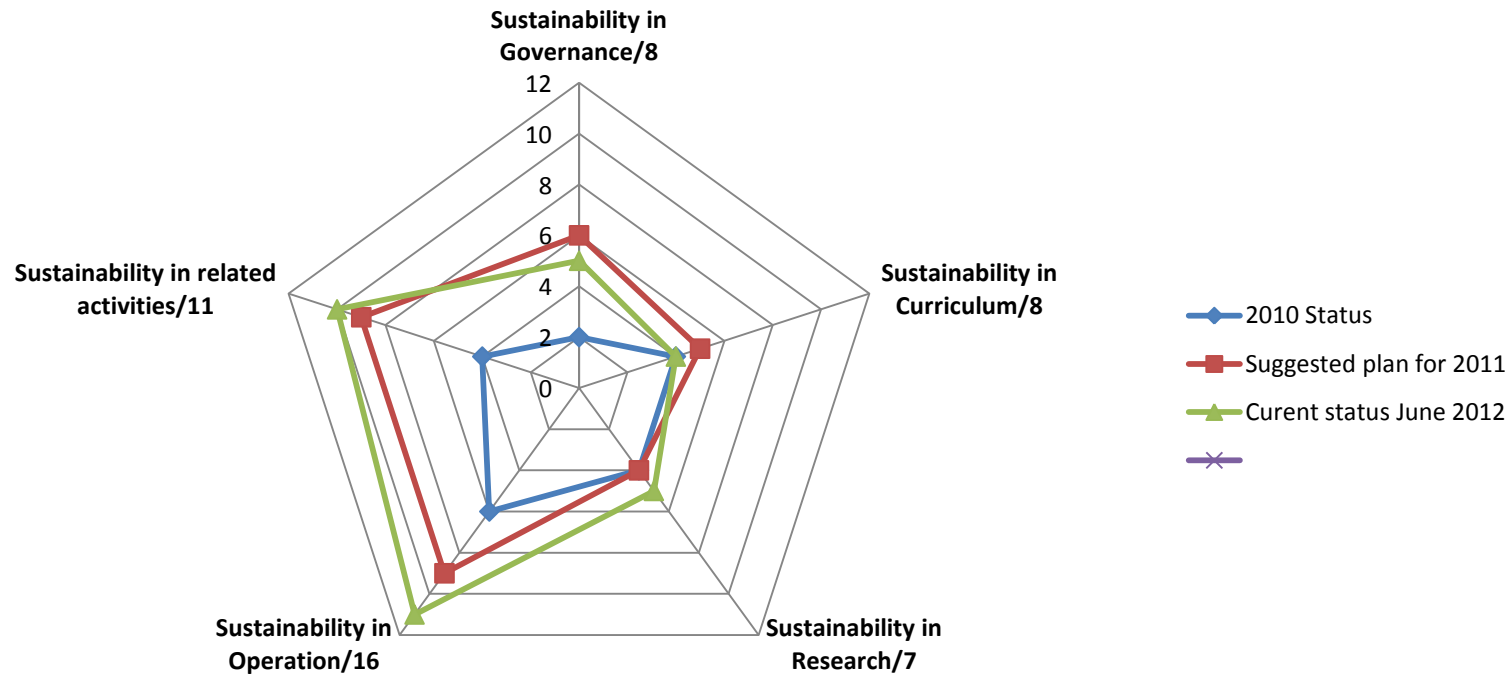
Universities' Commitment to the 50 Indicators of Environmental Sustainability



UiO Comittment to ES in 2010-2012



Progress in implementation of ES in different dimensions at UiO 2010-2013



UiO ES status in 2013: Governance: 5 out of 8, Curriculum: 4 Out of 8, Research: 5 Out of 7, Operation: 12 out of 16, Other activities: 10 out of 11

*If you can not measure it ,
you can not manage it?*

