



Assessing sustainability in higher education institutions holistically

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- A voluntary activity with two general purposes:
 - (1) to **assess** the current state of an organisation's economic, environmental and social dimensions, and
 - (2) to **communicate** a company's efforts and Sustainability progress to their stakeholders (Dalal-Clayton and Bass, 2002; Hamann, 2003)
- It can be used for:

Organisational

Sustainability

- -assessing sustainability performance over time,
- -benchmarking against other companies or organisations, and
- demonstrating how the organisation influences and is influenced by stakeholders
- Planning changes (Daub, 2007; GRI, 2011; R. Lozano, 2006a; Schaltegger & Wagner, 2006)







SR challenges

- Gaining knowledge, experience, and understanding of sustainability (Adams & McNicholas, 2007)
- Providing the extra resources needed to gather data and engage stakeholders (Lozano, et al. 2013)
- Keeping a balance between the details and core information (Lozano, 2006)
- In many cases data is selectively reported (Gray, 2006)
- Many of the reports fall short of the GRI/SR guidelines (Andersson, et al., 2005; Hussey, Kirsop, & Meissen, 2001; Wilenius, 2005)
- SR guidelines do not provide a framework to address or report upon possible synergies within, between, and among Sustainability issues (Lozano & Huisingh, 2011)



HESD assessment and reporting tools

- Graphical Assessment of Sustainability in Universities (GASU) based on the GRI guidelines (Lozano 2006, 2011; Lozano, et al. 2013)
- Sustainability Tool for Assessing UNiversities Curricula Holistically (STAUNCH®) (Lozano 2009, 2010, 2013)
- National Wildlife Federation's State of the Campus Environment (Shriberg, 2002)
- Sustainability Assessment Questionnaire (Shriberg, 2002)
- Higher Education 21's Sustainability Indicators (Shriberg, 2002)
- Auditing Instrument for Sustainable Higher Education (AISHE) (Roorda, 2001)
- **STARS** (AASHE, 2010)

Organisational

Sustainability







Graphical Assessment of Sustainability in Universities

- Allows an easy comparison of Sustainability performance of reports
- Based on the GRI guidelines (GRI, 2002b), with two additional dimensions: Educational and Inter-linking indicators
- Indicators for GASU 2011 (Lozano, Llobet, Tideswell, 2013):
 - 43 for the profile
 - 9 for the economic
 - 30 for the environmental
 - 40 for the social part
 - 29 for the educational
 - 23 for the Inter-linking issues and dimensions







GASU outcome

- Eleven charts (combining indicator coverage and indicator performance in:
 - General chart (performance with respect to Profile, Economic Dimension, Environmental Dimension, Social Dimension, Educational Dimensions, and Inter-linking issues and dimensions)
 - Profile
 - Economic Dimension
 - Environmental Dimension
 - Social Dimension (5 charts): Overall, Labour Practices and Decent Work, Human Rights, Society, and Product Responsibility
 - Educational Dimension
 - Inter-linked issues and dimensions







University of Gävle

- The University of Gävle has 17,000 students
- Over 700 staff
- More than 50 study programmes (bachelor level) and secondcycle programmes (Masters level)
- 500 freestanding courses









Data collection

- The information was collected between April and August 2017
- Most of the information gathered was for the academic year 2014-2016
- The first step was to review the university's web pages to try to obtain as much available information as possible
- The second step was to locate who was the owner or responsible for the information not available on the web pages, and to carry face-to-face or phone interviews to acquire the data





Organisational



The indicators for Profile and Economic Dimensions were obtained mainly from secondary sources and department of economy and purchasing

- The indicators for the Environmental Dimension were mainly obtained through from the intranet and campus Support Services, with additional input for the Biodiversity indicators
- The indicators of the Labour Practices and Decent Work category were acquired from people in different departments





Organisational



Populating the indicators (2)

- The information for the Society category was provided by University's joint administration (HGA)
- The Product Responsibility's information was obtained from University's joint administration and department for communication
- There was no information found or the indicators do not **apply in a Swedish university context** for the Human Rights category
- The Educational Dimension indicators were obtained through the intranet





Sustainability Report Exercise Results: Overall chart









Comparison against other university SR











Sustainability Tool for Assessing UNiversities' Curricula Holistically (STAUNCH®)

- Developed with two objectives:
 - 1. to assess systematically how universities curricula contributes to SD
 - 2. to facilitate **consistent and comparable** auditing efforts
- Based on two combined equilibria:
 - **cross-cutting** themes' dimension
 - SD contribution, looking for the balance among the four SD dimensions









STAUNCH© criteria

Economic	Environmental	Social
• GNP, Productivity	Policy/Administration	Demography, Population
• Resource use, exhaustion (materials, energy,	 Products and services (inc. transport) Pollution/Accumulation of toxic waste/Effluents 	 Employment, Unemployment Poverty
 water) Finances and SD Production, consumption patterns Developmental economics 	 Biodiversity Resource efficiency and eco- efficiency Global warming, Emissions, Acid rain, Climate change, Ozone depletion Resources (depletion, conservation) (materials, energy, water) Desertification, deforestation, land use Ozone depletion Alternatives 	 Bribery, corruption Equity, Justice Health Social cohesion Education Diversity Cultural diversity (own and others) Labour, Human rights
Cross-cutting themes		
	 People as part of nature/Limits to grow Systems thinking/application Responsibility Governance Holistic thinking Long term thinking Communication/Reporting SD statement Disciplinarity 	/th







Calculations of contributions to SD

- Strength and relative percentages in the four criteria groups:
 - Economic strength
 - Environmental strength
 - Social strength
 - Cross-cutting themes strength
- Contribution for each Course, Degree, School, and University







Universities that have used STAUNCH®

- Cardiff University (Lozano, 2010; Lozano & Peattie, 2011)
- Leeds University (Lozano and Young, 2013)
- Georgia Institute of Technology (Watson & Lozano, 2014)
- Tecnológico de Monterrey (Lozano & Lozano, 2014)
- Worcester University
- All Welsh universities (through Higher Education Funding Council for Wales (HEFCW) funding)







Contributions to SD (Cardiff University)









EU sustainability courses

courses' SD contribution vs. strength









Curricula assessment discussion

- Facilitate discussions with the schools' and university leaders about the curricula contribution to SD
- Highlight each course, degree, and school's contribution to sustainability, including its relevance and its proportionality
- Redesign and develop courses and programmes to be more sustainability oriented
- Make the links between modules and SD more explicit and clear in the course aims







Conclusions (1)

- Comprehensive Sustainability assessment and reporting can help to communicate the university's efforts more systematically and effectively to its stakeholders, to assess coverage and performance, and benchmark against other institutions
- Sustainability assessment and reporting results can help to focus on coverage and performance weaknesses, thereby highlighting where remedial action is to be taken and better plan sustainability changes







Conclusions (2)

- Sustainability assessment and reporting requires expertise, sufficient time, access for data collection, and stakeholder engagement
- Sustainability reporting is a necessary step for universities and their leaders to detect current efforts and plan future ones







Implementing SD at HEIs

- Adopt a holistic perspective that includes:
 - Making SD the 'Golden Thread' in policies and frameworks
 - Performing thorough and regular assessments and report them
 - Becoming more more proactive in engaging with SD
 - Recognising those engaged with SD
 - Fostering multiplier effects
 - Planning and undertaking changes throughout the university system









Thank you!

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Please fill in our survey on delivering sustainability competences: https://lnkd.in/eJAQ8xm

