



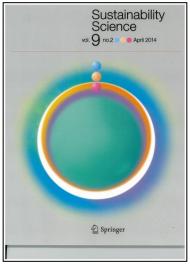
International Conference on Higher Education for Sustainable Development

High-level Panel 1: Whole-institution Approach

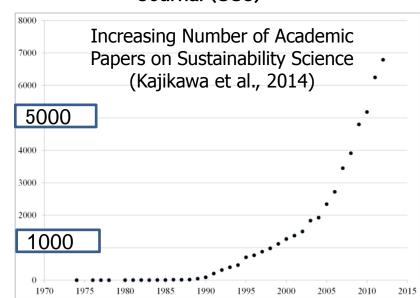
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The Rise of Sustainability Science

- Importance of Sustainability Science is now widely recognized internationally in the 21st Century
- Increasing challenges of global issues such as climate change, biodiversity loss, and poverty in developing countries
- Need for an overarching perspective and comprehensive approach – these issues are difficult to tackle with individual subdivided academic disciplines
- Aim to derive long term, global solutions with focus on regional and intergenerational equality
- Capacity development through education is essential to solve the global issues through Sustainability Science



Sustainability Science Journal (SSJ)



What is Global Leadership in Sustainability Science Education?

- A clear view of the complexity and severity of global issues, while having a positive outlook for the future
- A comprehensive perspective on the complex relationships between humans and nature as a social and ecological systems
- The ability to integrate the findings of specialized research to formulate solutions for complex problems
- The ability to coordinate and integrate the opinions of different stakeholders
- Strong leadership in prompting transformation towards a sustainable society in the international community



Class at UNU



ProSPER.Net Young Researchers' School (Shanghai, 2014)

Enhancing Education in Sustainability Science

- Sustainability science provides the scientific foundation for recognizing the need for societal transformation towards sustainability, and a framework for teaching about sustainability issues.
- At all levels of education, and particularly in developing countries, new methods for teaching science are needed in order to promote critical thinking and to develop problem-solving skills.
- The education agenda must incorporate the **humanities and the study of ethics in the ESD curriculum**, with a focus on equity, justice, cultural freedom and other human rights.
- The **role of the research universities** in promoting the application of sustainability science is crucial. We could recognize the positive increase in such programs.
- To overcome the fragmentation of traditional disciplines some universities are also introducing **teaching modules that address complex problems** such as climate change.

(UNU/IR3S/UNESCO Symposium on Sustainability Science held on 19 Sept. 2013)

Higher Education Sustainability Initiative (HESI)













Rio +20 Commitment to Sustainable Practices of Higher Education Institutions Higher education institution signatories commit to:

- 1) Teach sustainable development concepts, ensuring that they form a part of the core curriculum across all disciplines.
- **2) Encourage research** on sustainable development issues, to improve scientific understanding through exchanges of scientific and technological knowledge.
- **3) Green their campuses** by: i) reducing the environmental footprint; ii) adopting sustainable procurement practices; iii) providing sustainable mobility options for students and faculty; iv) adopting effective programmes for waste minimization, recycling and reuse, and v) encouraging more sustainable lifestyles.
- 4) Support sustainability efforts in the communities in which they reside.



UNU's Role and Commitment Beyond 2014

- ➤ Commitments to SDGs, Global Action Programme (GAP) on ESD, and other international sustainability frameworks and processes through:
 - Promotion of sustainability science
 - Policy-relevant research
 - Capacity development through leadership programs
 - Networking of higher education institutions and multistakeholders