

An approach to revitalize research and education related to sustainability in universities

3rd Future Environmental Trends Conference
Energy, environment, and development:
Analyzing opportunities for reducing poverty

Integrated Research System for Sustainability Science (IR3S)
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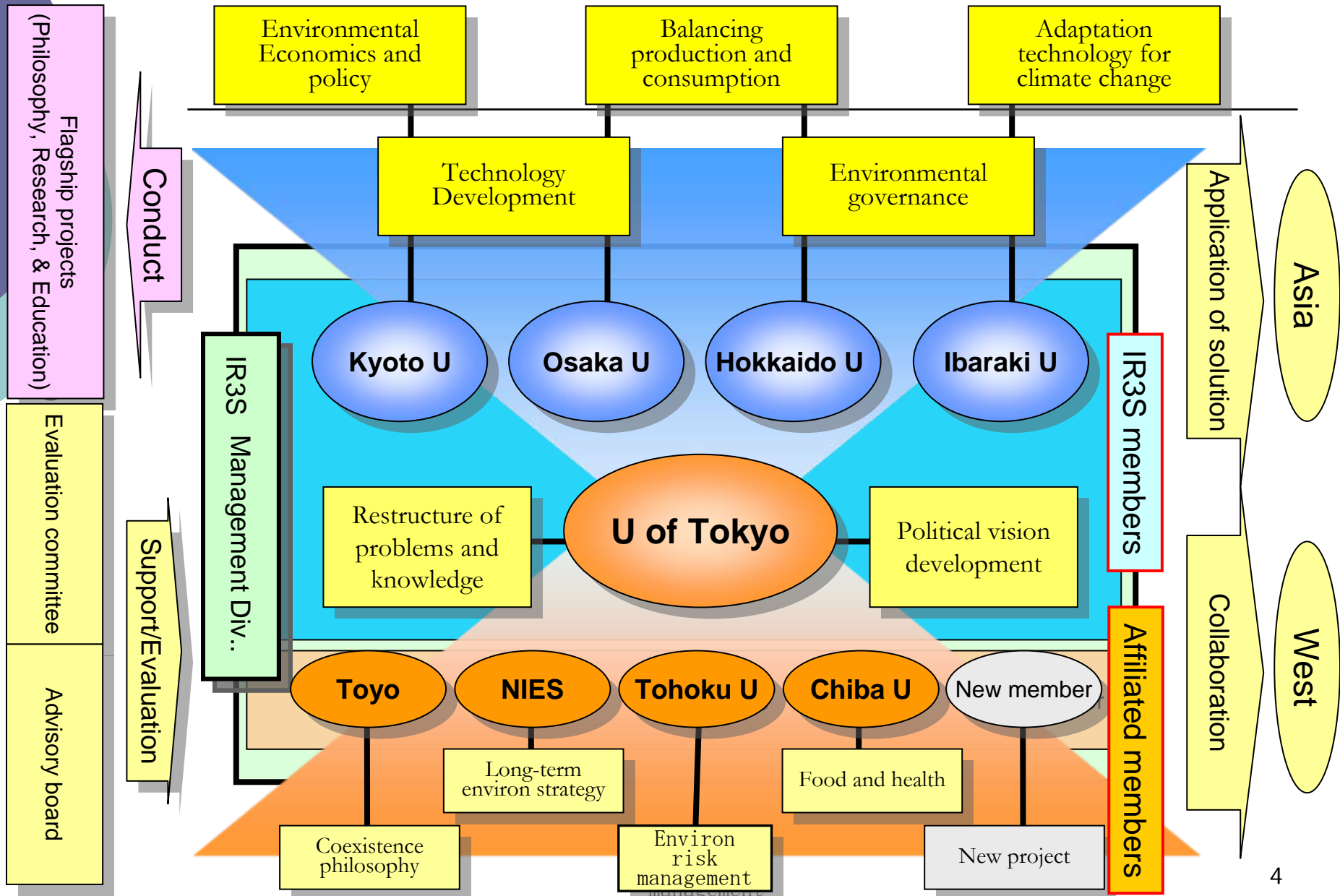
From sustainable development towards sustainability science

- need to re-define "Sustainability" predicated on a rigorous academic discipline
- requires holistic understanding of science and technology, economy, and society which constitutes important factors of "Sustainability"

Activity on Sustainability Science

- **US:** National Academy of Science, Harvard Univ.
- **Europe:** Stockholm Environment Institute, etc
- **Asia :**
 - Alliance for Global Sustainability (AGS) : research alliance of MIT, ETH, Chalmers and UT
 - Integrated Research System for Sustainability Science (IR3S)
 - ➔ forming a nationwide research network
 - ➔ working toward sustainability from a global perspective, **particularly in Asia, which holds a key for global sustainability**
 - ➔ foundation and evolution of sustainability science
 - ➔ ultimately launching an international research base for sustainability science (World “hub”)

IR3S - organization

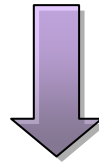




Education of Sustainability Science

Education program aims at ...

- Training Experts with a global perspective
- Equipping the younger generation with
 - leadership skills,
 - management capabilities,
 - practical ability (e.g. consensus-building know-how)
 - the broad knowledge and perspective,
 - far-sighted thinking



To solve problems that hinder global sustainability
To realize sustainable society in 2050



IR3S Flagship Project - Education

- Joint education program on Sustainability Science
 - ➔ transdisciplinary program
 - ➔ field work (through collaboration with international organizations in Asia)
- Aims to develop curricula and pedagogy for sustainability education

Programs on Sustainability Science

YES (Youth Encounter on Sustainability)



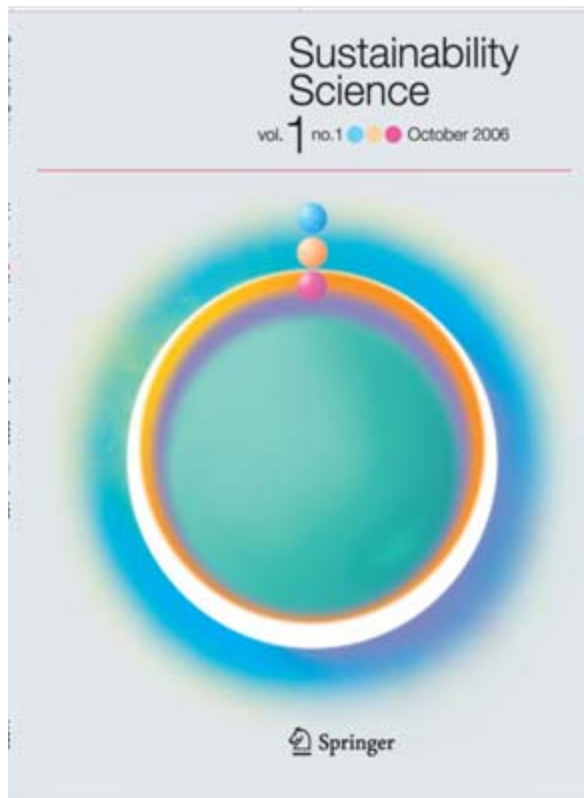
IPOS (Intensive Program on Sustainability)



*On-site learning
for sustainability, environment and
cultural diversity*

Outreach Activities

Academic journal and magazine publication



Academic Journal (Oct 2006 ~)



Free Magazine (July 2006 ~)