

“Sustainability Science in a Global Landscape”

held at United Nations University (UNU-IAS), in collaboration with Elsevier

December 14, 2015 (Monday) - 14:00 - 15:30

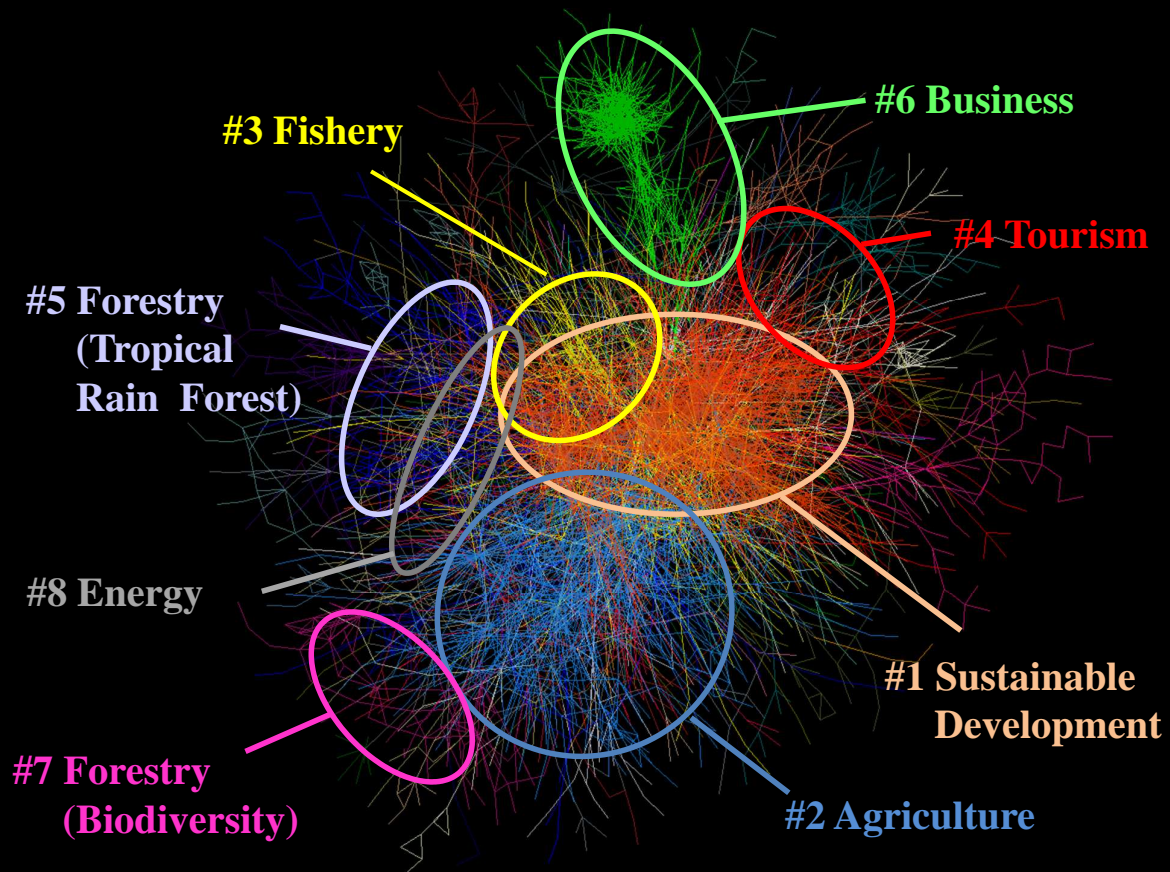
Commentary

Yuya Kajikawa

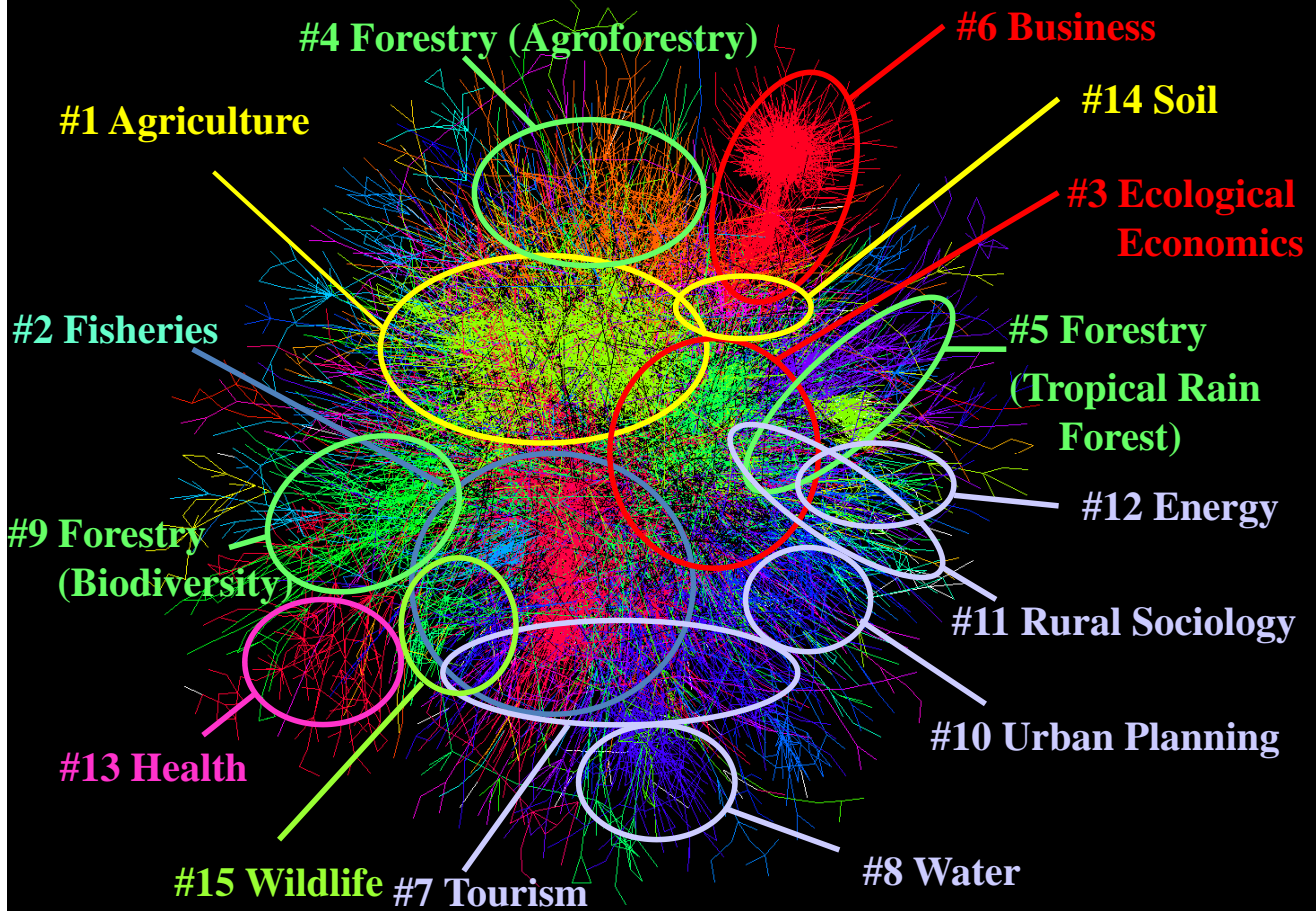
Graduate School of Innovation Management
Tokyo Institute of Technology, JAPAN

1

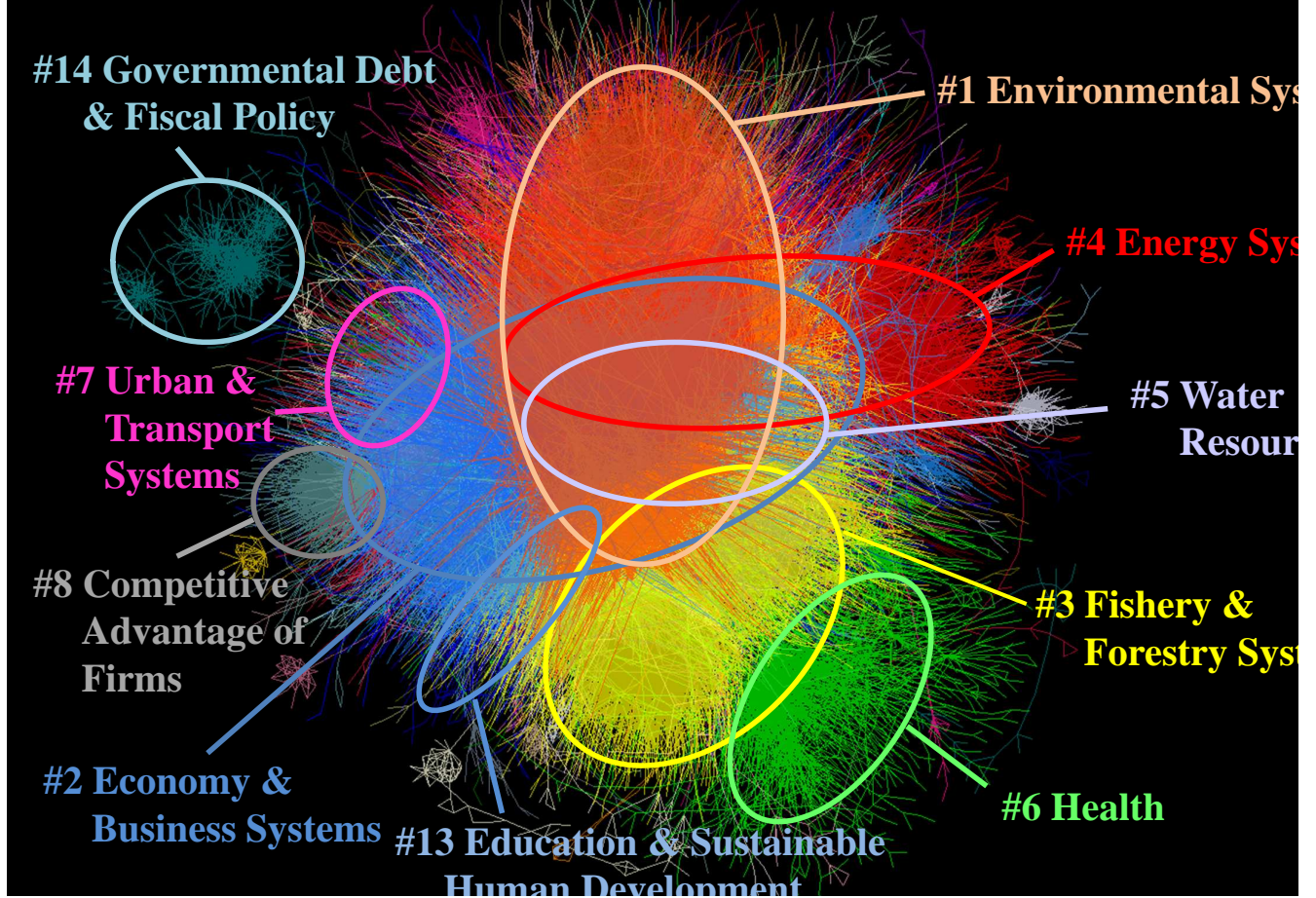
Academic Landscape of Sustainability Research 2000 (14,118 papers)

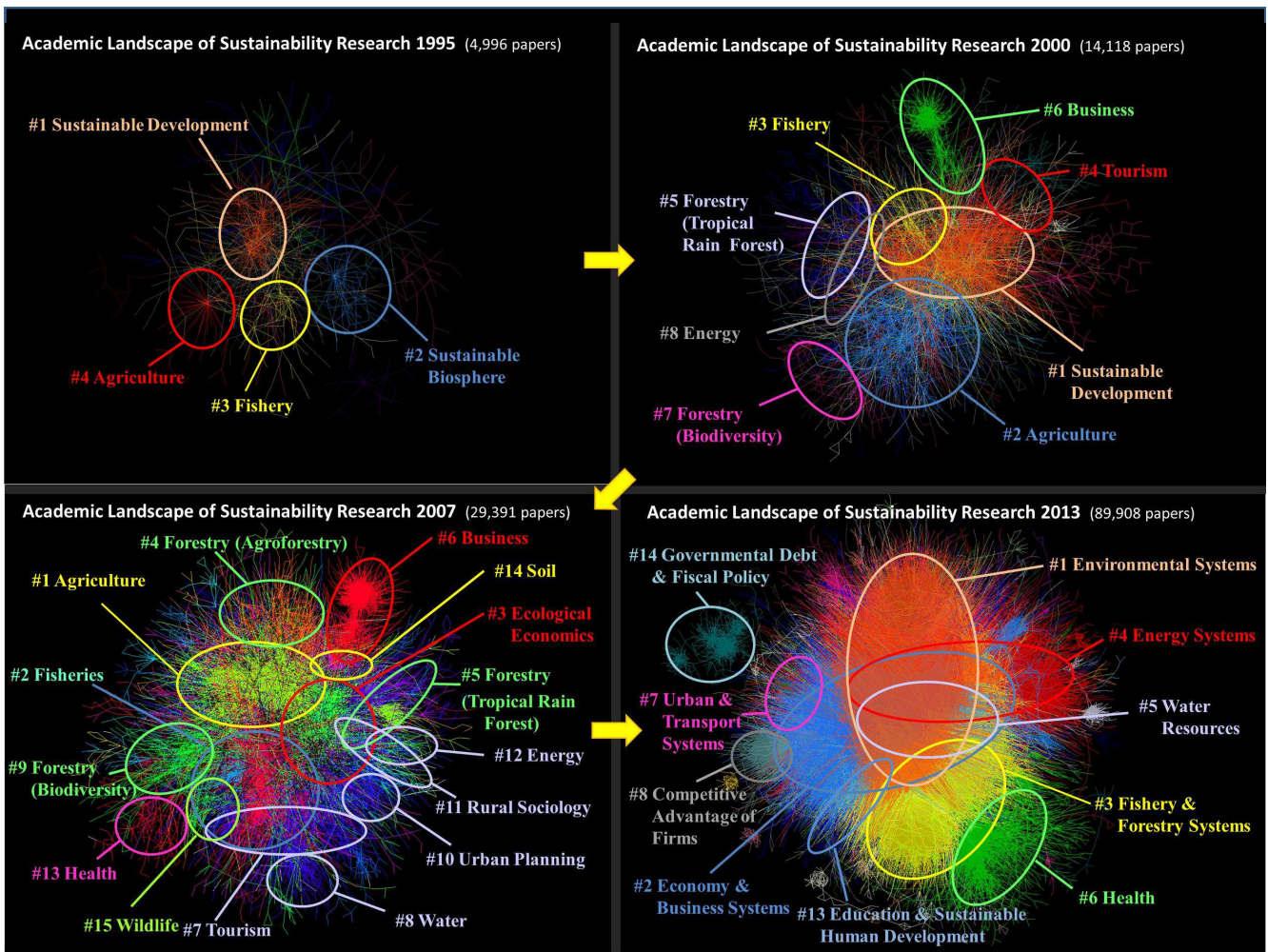


Academic Landscape of Sustainability Research 2007 (29,391 papers)



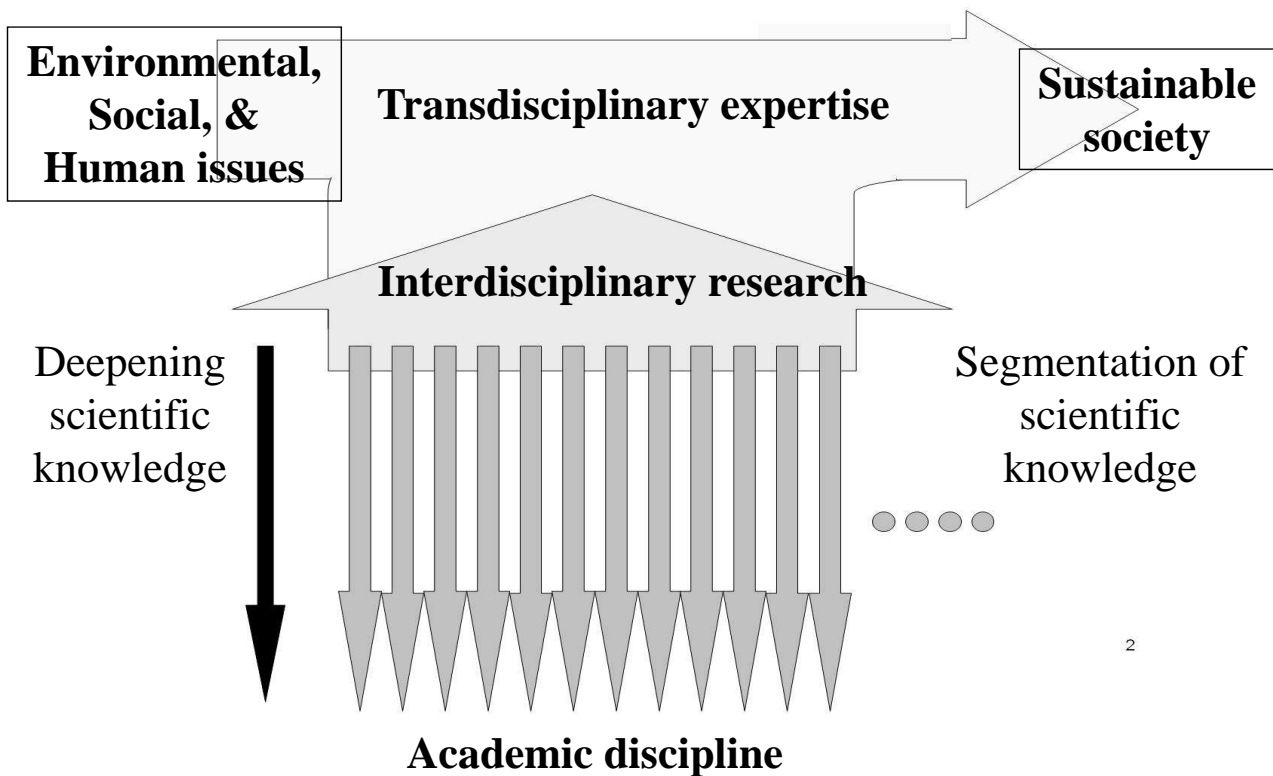
Academic Landscape of Sustainability Research 2013 (89,908 papers)



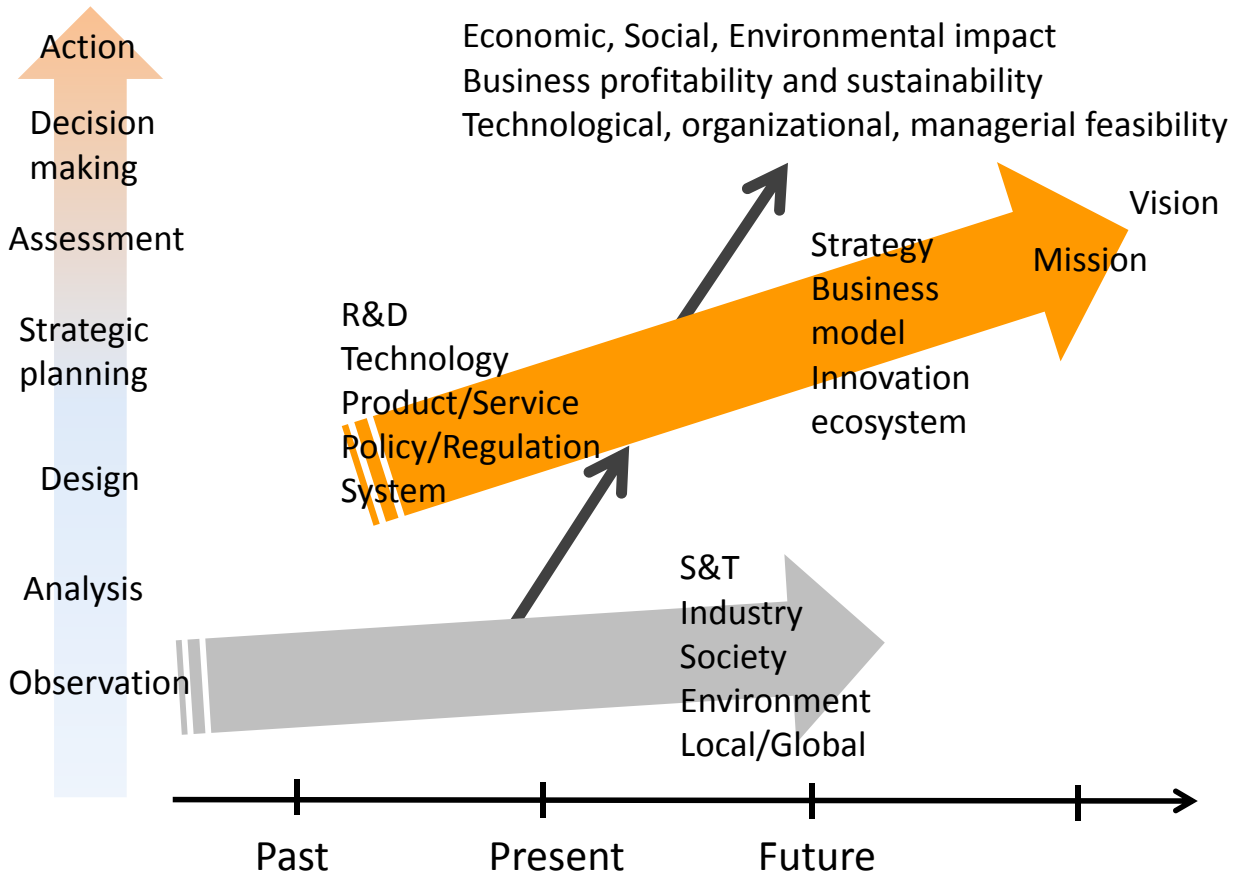


Multi, Inter-, Trans-discipline

Necessity of Integration



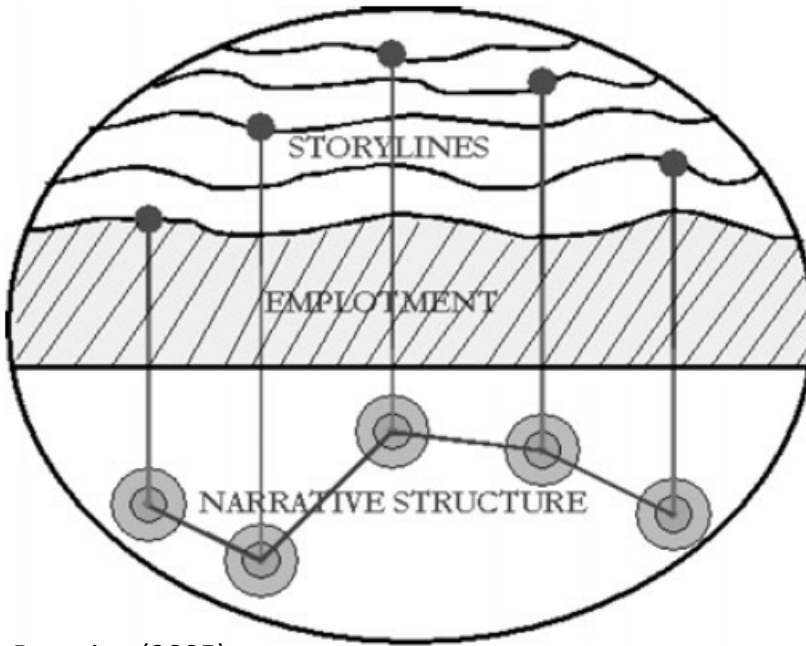
Framework for Innovation Management



Theory, Data, and Narrative

Layer	Components	Requirement
Theory	Concept Causality Law, Equation	Generality Logic Simplicity
Data	Fact, Evidence Analytical methodology Modeling, Simulation	Reality Reliability Predictability
Narrative	Story, Language Voice, Picture Behavior Existence	Attractiveness Emotion Making-meaning Persuasiveness

Narrative as a media of new meanings



- Value-based
- Ontological
- Historical
- Teleological
- Cosmological

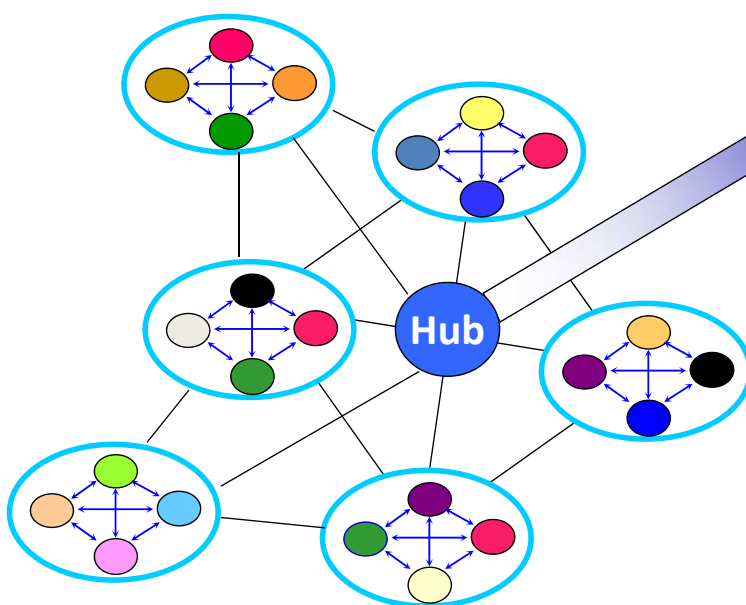
Suddaby & Greenwood (2005)

Downing (2005)

9

Toward Realizing Sustainability and Innovation

Network of Networks, Leadership of Leaderships



Sustainable Society

- Visioning
- Shared Leadership
- Diffused Interface
- Boundary Work
- Boundary Spanning
- Boundary Organization
- Epistemic Community
- Collective Mind
- Dynamic Tension
- Mutual Respect
- Trust and Reciprocity

Obstacles

- Existing community
- Culture, Norm
- Priority, Expectation, Incentive
- Funding (Size, Continuity)
- Talent
- Evaluation
- Recognition, Visibility
- Time

10