

# **G8 University Summit**

**Global Sustainability and the Role of Universities**

## **Association of Pacific Rim Universities**

**June 28, 2008**

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**President, the University of Tokyo**

# Global Sustainability, the Central Issue for the Humankind of the 21<sup>st</sup> Century

## The G8 Summit

2005: Gleneagles (Climate Change, Clean Energy)

2007: Heilingendamm (Greenhouse gas reduction)

**2008: Toyako (the Environment, Climate Change)**

Climate Change, once a subject of science,  
now is an issue for all humankind

# Global Sustainability and the Role of Universities

Complex and Intertwined Issues

Example: Bio-Fuel vs. Food

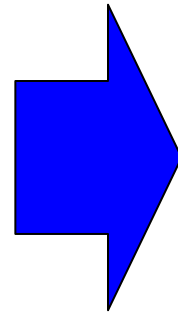
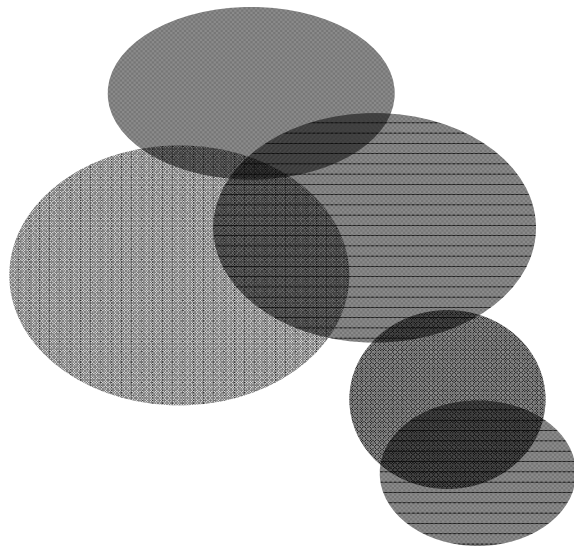
Universities can  
contribute

**Interdisciplinary**  
Sciences

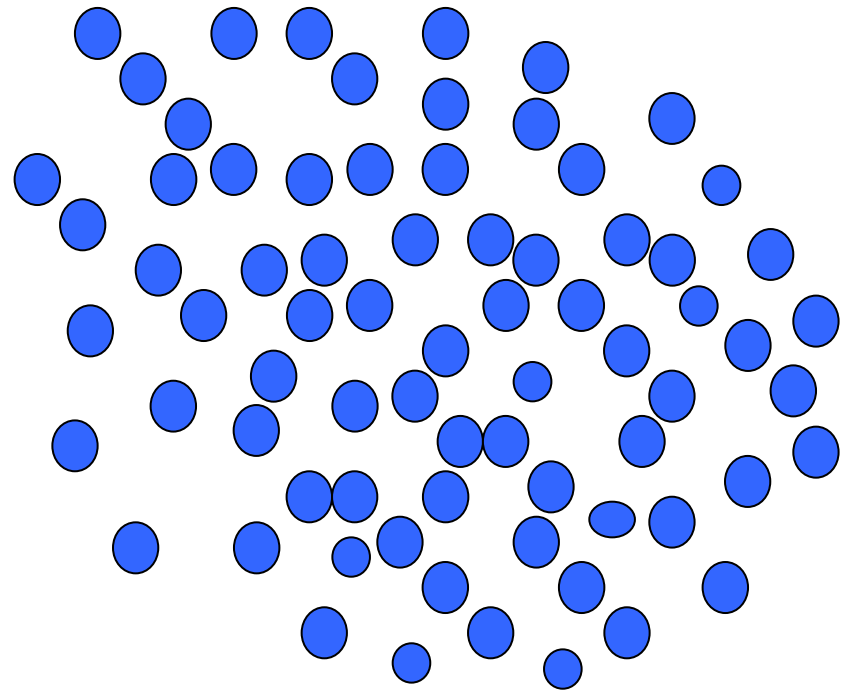
**Practical**  
Sciences

# Subdivision and Compartmentalization of Science

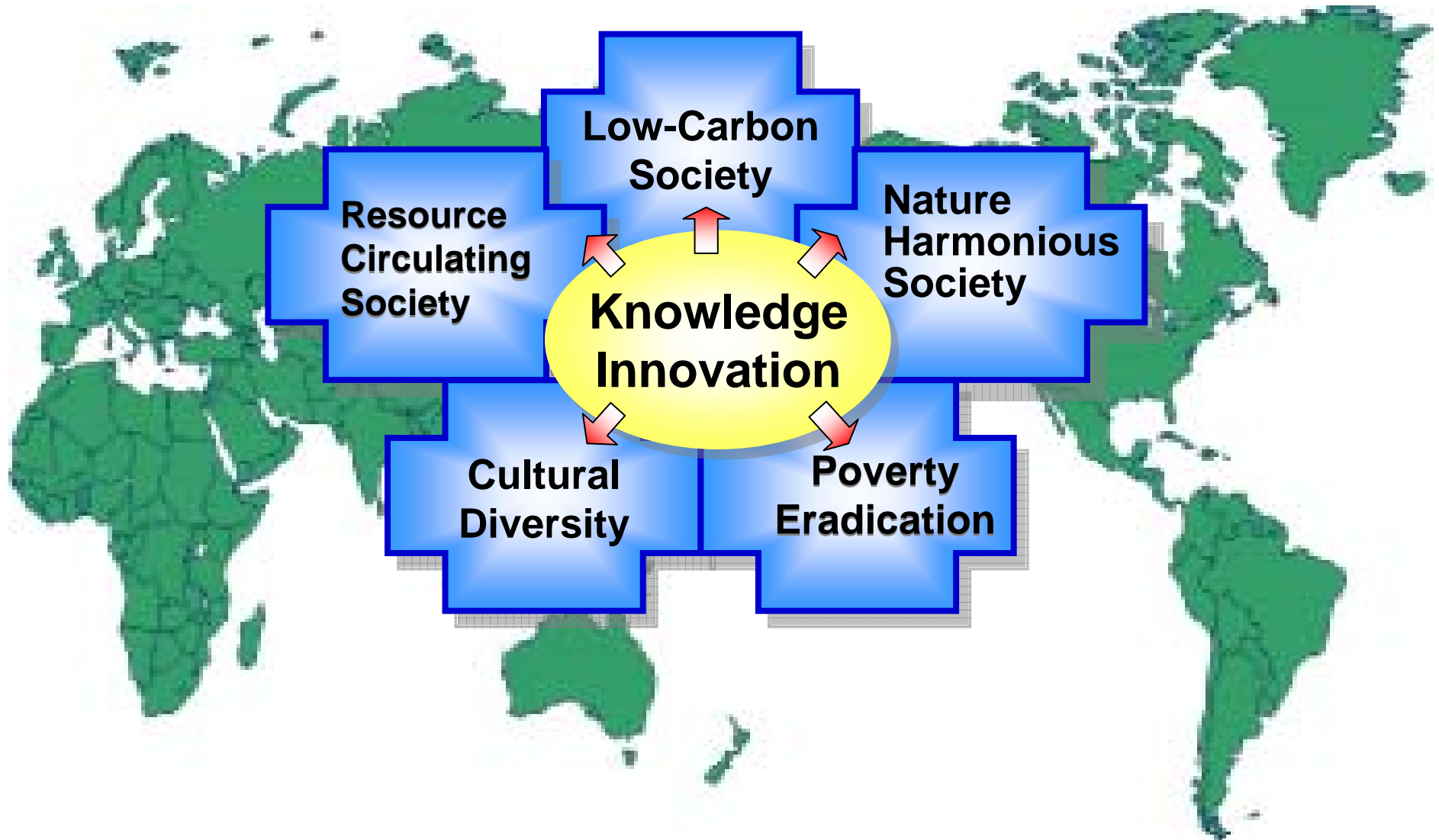
1900



2000

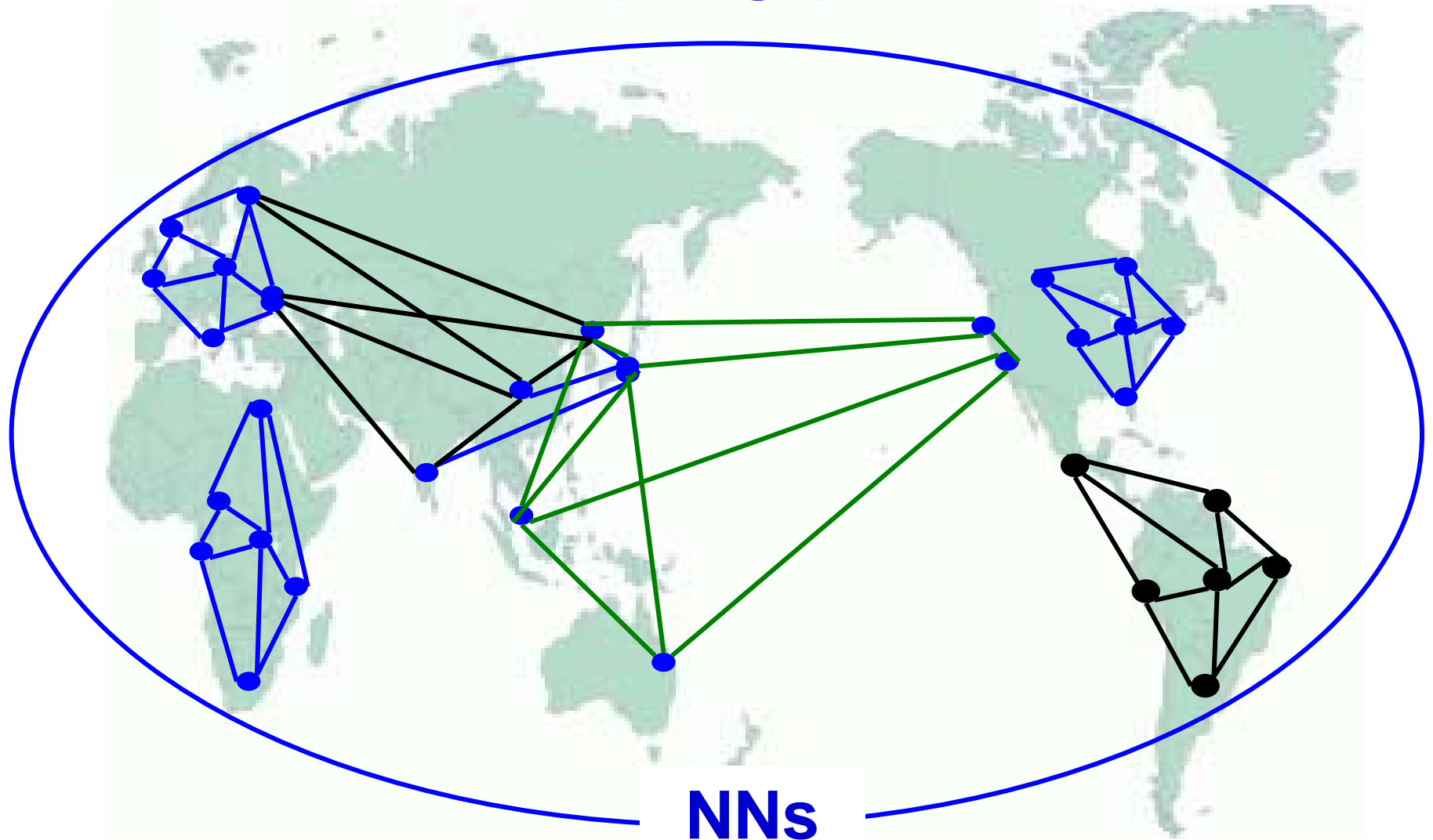


# Knowledge Innovation Integration of All Existing Disciplines



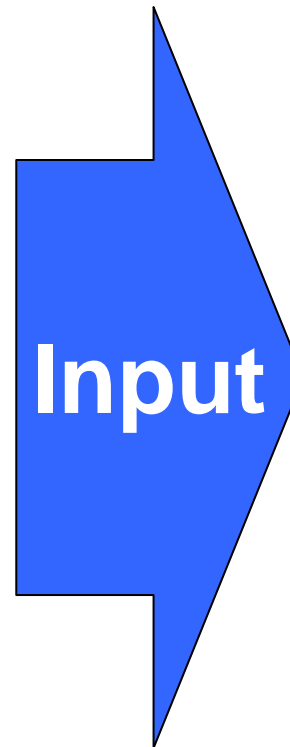
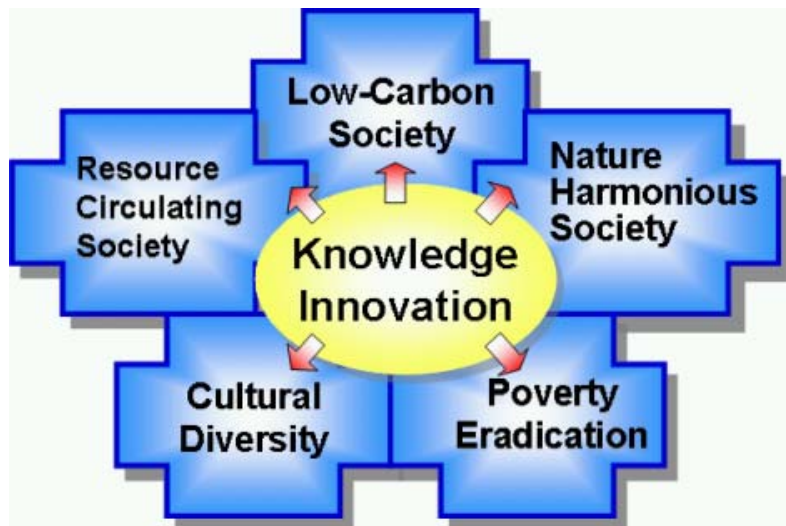
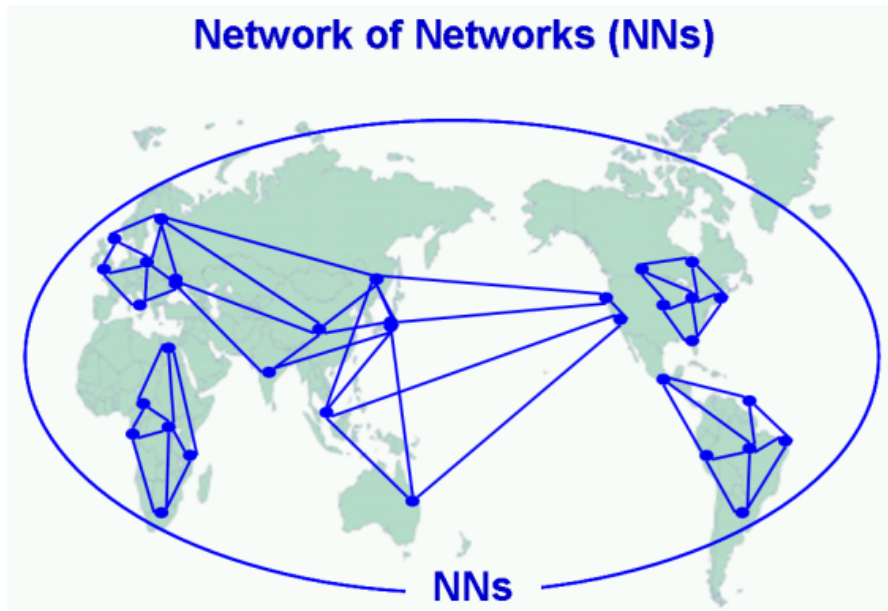
# From Network to Network of Networks (NNs)

(Image)

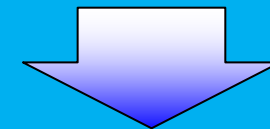


**NNs**

# The role of universities: Change Agent



- Society
- Policy Makers



- Social Movement
- Political Movement

# Other important issues

**Strengthening networking with research institutes in the developing countries**

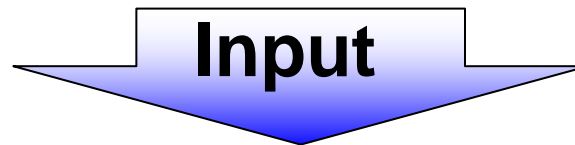
## **Sustainability Education**

- cultivating internationally capable human resources
- promoting collaborations and co-experiment with society towards a common goal.

# The Objective

Through the formation of the **Network of Networks** and  
Through the promotion of **Knowledge Innovation**,  
Contribute to the achievement of global sustainability  
and make input to the G8

**G8 University Summit**  
**Sapporo Declaration**



**G8 Hokkaido Toyako Summit**

# G8 University Summit 2008

June 30-July 1 in Sapporo

Organizers: University of Tokyo, Hokkaido University and Keio University

## 14 Japanese Universities

Canada	The University of British Columbia
	University of Alberta
France	ECOLE POLYTECHNIQUE
	Université Paris-Sorbonne (Paris IV)
Germany	Ludwig-Maximilians-Universität (LMU) München
	RWTH Aachen University
Italy	Politecnico di Torino
	Università degli Studi di Firenze
Russia	Far Eastern National University
	Lomonosov Moscow State University
U.K.	Imperial College London
	University of Cambridge
U.S.A.	University of California, Los Angeles
	Yale University

Australia	The Australian National University
Brazil	Universidade de São Paulo
China	Peking University
	Tsinghua University
India	Indian Institute of Technology, Kanpur
	University of Delhi
Korea	Seoul National University
South Africa	University of Johannesburg
UN	United Nations University

# Vision 2050

## Roadmap for a Sustainable Earth

H. Komiyama  
S. Kraines  
Vision 2050

THE UNIVERSITY OF TOKYO  
Hiroshi Komiyama  
Steven Kraines

H. Komiyama  
S. Kraines  
Vision 2050

**Vision 2050**

Environment Impact Today  
Population  
Energy

**Vision 2050**

**Vision 2050** Many experts warn us of impending global catastrophes brought about by non-sustainable human activities—including climate change, resource depletion, and decimation of natural habitats.

Establishing a sustainable human civilization on earth is possible, both theoretically and technologically. Vision 2050 shows us how to get there through the combination of a comprehensive material recycling system, a three-fold increase in energy efficiency, and a doubling of renewable energy.

It is time we take the first steps toward a sustainable future.

*Hiroshi Komiyama*

*We can achieve a sustainable civilization. Vision 2050 is a road map to get there.*

Roadmap for a Sustainable Earth

Springer