



# The Transdisciplinary Federation of Science and Technology NPO

Integration of Wisdom / Innovation

Manufacturing and Creation

## Foundation and aims

Forty academic societies that encompass a wide range of humanities and sciences formed a coalition to develop and promote "transdisciplinary science," which constitutes the basics of technology, such as statistics, simulation, optimization, informatics, and design science, to promote integration of natural sciences, humanities, social sciences, and engineering. The federation pursues various activities aimed at stressing the importance of a horizontal axis and strengthening it in the face of the actual situation, in which science and technology continue to be vertically subdivided.

## Organization

Organization directors are elected on the recommendation of the member academic societies of the Transdisciplinary Federation. The organization is set up to work with the Transdisciplinary Science and Technology Initiative whose members are corporations.

**President:**  
Hidenori Kimura from Riken Research

**Vice Presidents:**  
Koichiro Deguchi from the University of Tohoku  
Yoshifumi Yasuoka from the National Institute for Environmental Studies, NIES

**Membership:**  
57,000 in 40 academic societies

**Offices:**  
Located in Bunkyo Ward, Tokyo, and Suita City, Osaka

## A summary of activities and achievements

**Publication of an academic journal "Transdisciplinary":**

Following the first publication in April 2007, the journal has been issued twice a year.

**Symposiums:**

Held on such themes as "The role of transdisciplinary science and technology in Japan's academic fields in the 21st century," "Aiming at advanced manufacturing that will lead the world," "Searching a technological strategy suited to an age of co-existence that connects human hearts," and "Transdisciplinary science and technology as well as mathematics – Working toward the creation of a new academic sphere."

**Forums:**

Jointly hosted by SICE and Transdisciplinary Science and Technology Initiative (about six times a year).

**Investigation and research society:**

Focused on product development, design process engineering, and transdisciplinary human resource development.

**Project activities:**

Multiple specialists in transdisciplinary fields who belong to different organizations jointly organize projects and pursue solutions to real problems facing companies.

Multiple member academic societies promote and support transdisciplinary research projects through these alliances.

**Making a road map to transdisciplinary science and technology:**

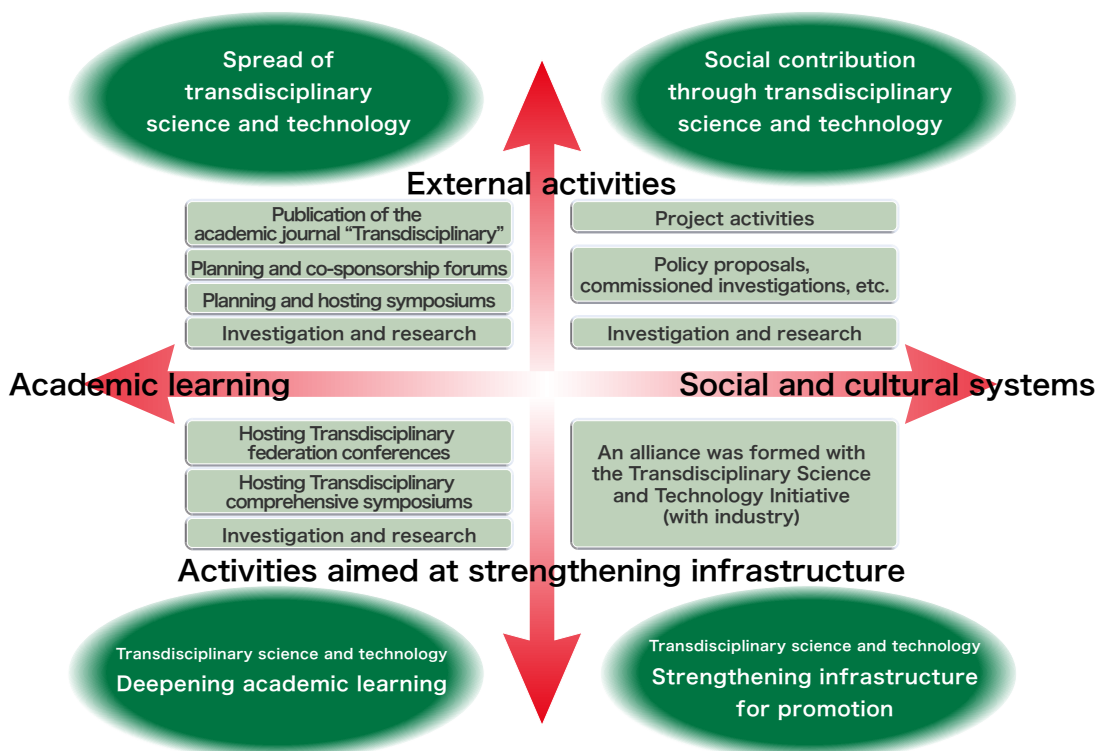
This is designed to help with resource management (RM) in a combined field of control, simulation technology, human interface, and manufacturing.

**Policy proposals and commissioned research projects:**

These include a proposal program for policies on science and technology entitled "The role and promotion of transdisciplinary science and technology (2003)," a research project, "A platform for transdisciplinary science and technology designed to construct next-generation system engineering," funded by subsidies from the Ministry of Education, Culture, Sports, Science and Technology, a research program, "The fusion of knowledge involving an innovation strategy" commissioned by the Cabinet Office as part of its comprehensive science and technology research project, (2007), the Nagano Declaration (2005) and a final report by the committee on intellectual property (2005).

**Investigation and research society:**

The society has been working to minimize and visualize risks, support communication for co-existence, and carry out research into medical interfaces.





Transdisciplinary federation conferences:

- First: 2005 in Nagano
- Second: 2007 in Kyoto
- Third: 2009 in Sendai
- Fourth: 2011 in Kanazawa

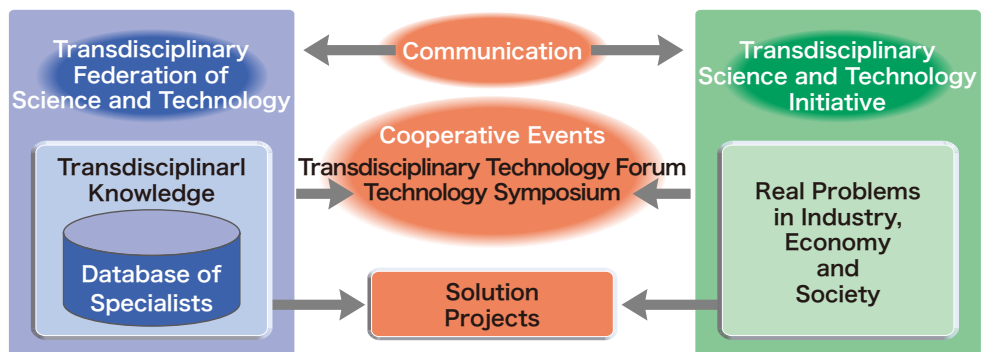
Transdisciplinary Federation comprehensive symposiums:

- First: 2006 in Tokyo
- Second: 2008 in Tokyo
- Third: 2010 in Tokyo

Investigation and research society:

Worked on the simulation and SQC, the construction of next-generation systems engineering, and the fusion of systems engineering with knowledge management

An alliance was formed with the Transdisciplinary Science and Technology Initiative (consisting of corporate members)



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