Creating a hub for ELSI/TA education, research, and implementation in Japan

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Background

About “SciREX”

- STI policy
  - Science, technology, and innovation (STI) policy need to foster and obtain public understanding, trust, and participation.
- SciREX
  - The Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan has promoted the “Science for RE-designing Science, Technology and Innovation Policy (SciREX)” program since fiscal 2011 year
- The aim of SciREX is
  - to prepare a system and foundation for the realization of "evidence-based policy formation":

  1. proposal of policies effective in addressing different challenges,
  2. based on multifaceted analyses and
  3. assessments of social and economic impacts from the Science & Technology Innovation Policy.

Overall Structure of SciREX

SciREX

Science for RE-designing Science, Technology and Innovation Policy

About SciREX	Programs	Steering Committee
News	Events	Topics
Learning Opportunities	Resources	Links

The Science for RE-designing Science, Technology and Innovation Policy (SciREX) program aims to promote STI policy making based on a rational process using objective evidence by reforming the policy-making process and developing related interdisciplinary academic fields.

Mission-Oriented Research

Investigation and research that will meet policy needs (esp. concerning economic and social impacts of R&D expenditure)

Research Funding

Promotion of a variety of R&D projects on tools, methods, indicators and others which are intended for use in mid/long term policy making

Fundamental Research and Human Resource Development

Foundation of international-level hub institutions for fundamental researches and development of diverse human resources

Data / Information Infrastructure

Systematic and continuous compilation of data and provision of information systems which contribute to evidence-based policy making as well as investigation, analysis and research

Source: http://scirex.mext.go.jp

Structure of the Hub Institutions for the "Fundamental Research and Human Resource Development Program" in SciREX

"STiPS"

Osaka University (Jointly with Kyoto University)

- Focused area: Ethical, legal and social issues (ELSI) in science and technology
- Establish a minor specialization as a part of existing master's programs

The University of Tokyo

- Focused area: Public policy and engineering
- Establish an interdepartmental education program within existing postgraduate program

National Graduate Institute for Policy Studies (GRIPS)

- Establish a master's and doctoral program in the "Science of STI policy"
- Guide inter-hub collaboration and promote the development of the academic discipline and community

Hitotsubashi University

- Focused area: Interdisciplinary innovation research with a foundation in social sciences including management and economics
- Establish a doctoral-level certificate course

Kyushu University

- Focused area: East Asian and regional innovation,
- Establish a specialized course comprising interdisciplinary postgraduate subjects

STiPS program

Outline of STiPS program

- Name
  - Program for Education and Research on Science and Technology in Public Sphere <STiPS>
- Establishment
  - Established by Osaka University and Kyoto University in November 2011
- Members
  - 15 Core members(10 from Osaka Univ.and 5 Kyoto Univ.), and dozens of supporters in various disciplines.
- URL
  - http://stips.jp/

大阪大学・京都大学

STiPS

Program for Education and Research on Science and Technology in Public Sphere

Role and position of STiPS in the SciREX

Evidence
(Economics,
Political Science
etc.)

Policy Making

Area covered by STiPS

Ethical,Legal and
Social Issues

Public Engagement

Technology
Assessment

Three functions of STiPS

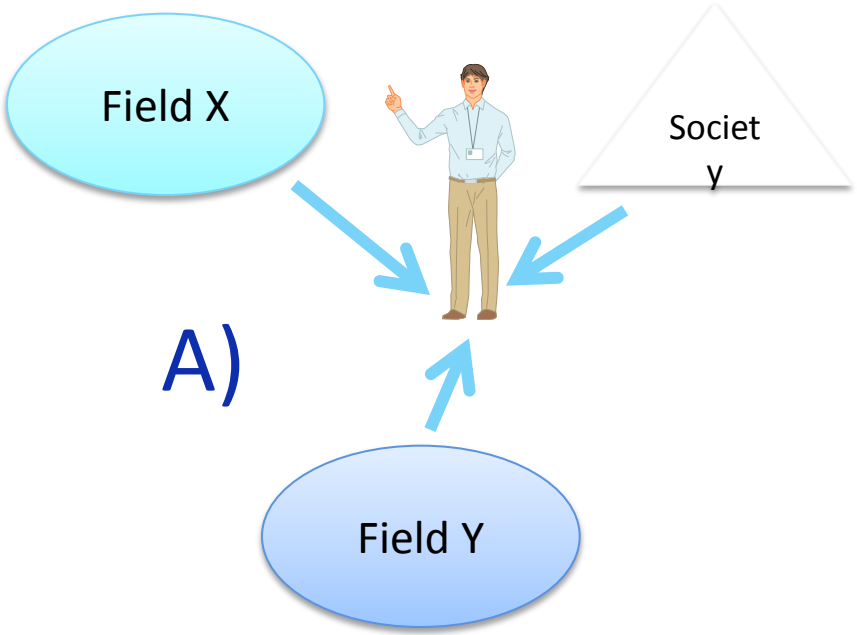
- **Hub for education**
  - a minor specialization starts in April 2013 as a part of existing master's programs
- **Hub for research**
  - ELSI, TA, PE
- **Hub for practical application**
  - social collaboration between academic and social knowledge

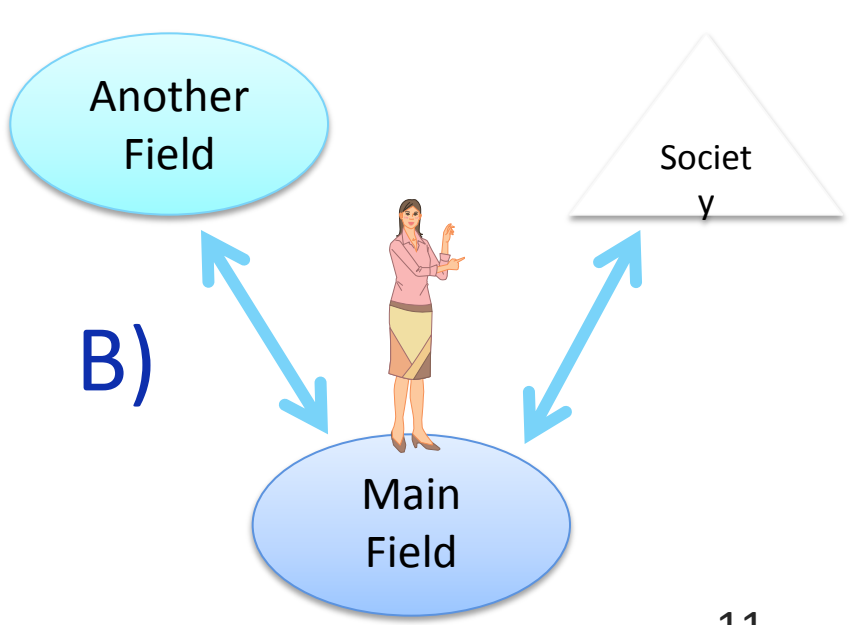
Educational goal

Two types of personnel who can act as links between various fields

Type A) Personnel who can act as a link between various fields, that is, various academic fields, many companies, or the citizens.

Type B) Personnel in their own professional field, and who can act as a link between their own field and another field.





Envisioned career paths

- Professional researcher in a university, research institute, or laboratory of a private company
  - Personnel who work mainly in a specialized field, who share the viewpoints, or ways of thinking, of ELSI, TA, and PE.
- Government official, policy secretary, staff for management and research policy in a university or institute
  - Personnel who can work directly based on the education provided in the STiPS program.
- Experts for public relation and risk communication
  - Personnel for central government, local government and the industries.

Curriculum of a new minor specialization in STiPS

Category	Faculty	Subject Name	Unit	Semester
Core subject	CSCD	Introduction to Science, Technology and Innovation Policy	2	1
	CSCD	Workshop on Science, Technology and Innovation Policy	2	Intensive course
	CSCD	Research Project	2	All year
Elective subject (At least 4 subjects should be selected)	CSCD	Science, Technology and Communication	2	1･2
	CSCD	Science, Technology and Society (STS)	2	1
	CSCD	Advanced Seminar on Science, Technology and Innovation Policy	2	Intensive course
	CSCD	Hot Issues in Science, Technology and Society	2	2
	Medicine	Ethics in Life Science and Public Policy	2	Intensive course
	Engineering Science	Social Engagement on Nanotechnology A	1	Intensive course
	Engineering	Environmental Management for Sustainable Industrial Systems	2	1
	International Public Policy	Development and Environment(L)	2	2
	International Public Policy	Development and Environment(S)	2	2
	International Public Policy	Environmental Law(L)	2	1
	International Public Policy	Environmental Law(S)	2	1
	International Public Policy	Personnel Micro-data Analysis(L)	2	All year
	International Public Policy	Personnel Micro-data Analysis(S)	2	All year
	International Public Policy	Public Policy I	2	2
	Human Sciences	Science and Technology in Society	2	2
	Human Sciences	Methods in Fieldwork	2	1
	Law	Bioeshics and Law 1	2	2
	Law	Bioeshics and Law 2	2	2

E.g., Research on PE

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How to Formulate a Strategy for Energy Supply

Kamisato Tatsuhiro [Profile]

Culture Economy Politics Sci-tech Society

[2012.09.11]

Read in: 日本語 | 简体字 | 繁體字 |

In the wake of the nuclear crisis in Fukushima, public interest in Japan's energy policy is fixed on one thing alone: nuclear energy, and how to live without it. Kamisato Tatsuhiro of Osaka University argues that a broader perspective is necessary at this crucial turning point in modern Japanese history.

Also in this series

- Examining Japan's Energy Choices
- How to Formulate a Strategy for Energy Supply
- The Potential of Marine Energy

Related articles

- Nuclear Power and the Emptiness of Political Promises
- Nobel Selection, Noda Rejection
- The Promise of Kinetic Power Generation
- Risk Management in the Japanese Auto Industry
- Six-Month Timeline Since the Great East Japan Earthquake
- Crisis Management in the Aftermath of 3/11
- Six-Month Timeline Since the Great East Japan Earthquake
- Trade Pact Progress, Nuclear Plant Faultfinding
- A US Strategist Speaks on Japan's Leadership and Energy Policy Needs
- Japan and the Geopolitics of the Shale Revolution

Other reports

Source: http://www.nippon.com/en/in-depth/a01201/

E.g., Practical activity “Labo Café” on STI

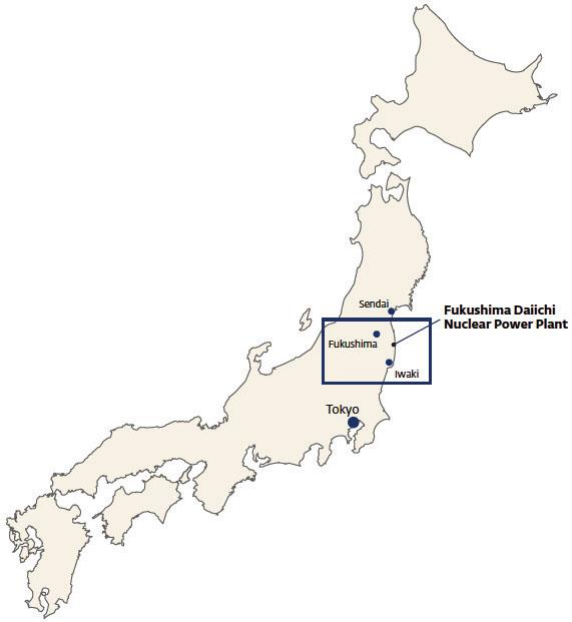
- Aim
  - To deliberate about science & technology in the public sphere with the citizens.
  - To make networks among researchers, practitioners, and the citizens in the “Kansai” region.
- Venue
  - Public space in the concourse of the subway station in the City of Osaka.
- Past program
  - July 12, Dr. M.Kishimoto (AIST) “Regulatory Science”
  - July 19, Prof. Y.Miyata (Kwansei Gakuin University) “Innovation and the role of the university”
  - August 2, Prof. K.Gemba (Ritsumeikan University) “Environmental Innovation”
  - September 13, Prof. C Sekine (Doshisha University) “Universal design”

…Ongoing

Addendum

- The impact of the accident of Fukushima Daiichi NPP
  - Most Japanese have not been familiar with ELSI, PE nor TA for a long time.

  →Now some people pay attention than ever to ELSI,PE and TA.
- “National Diet of Japan Fukushima Nuclear Accident Independent Investigation Commission” was formed in 2011 fall.
  - Whether we can make this an occasion to establish the TA organization in the Diet of Japan, or not…



Source: http://www.nirs.org/fukushima/naiic_report.pdf

Thank you for your attention!