Research Funding Program on Science of ST&I Policy and its Bridge towards Implementation in Policy

Akira MORITA
Area Director of research funding program on science of ST&I policy
Professor, Faculty of Law, Gakushuin University

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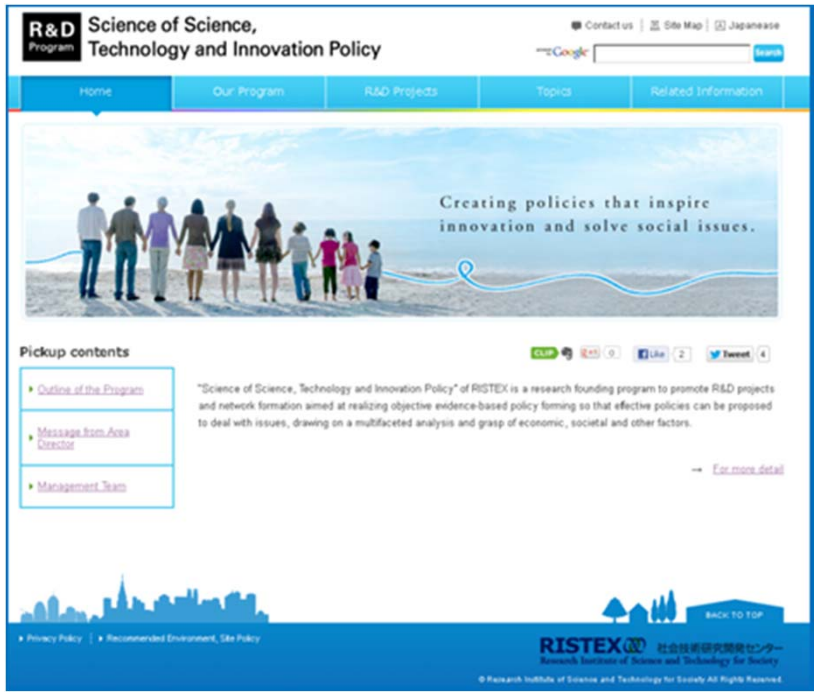


http://www.ristex.jp/stipolicy/en/program/organization.html

Background

- Necessity for evidence-based policy -

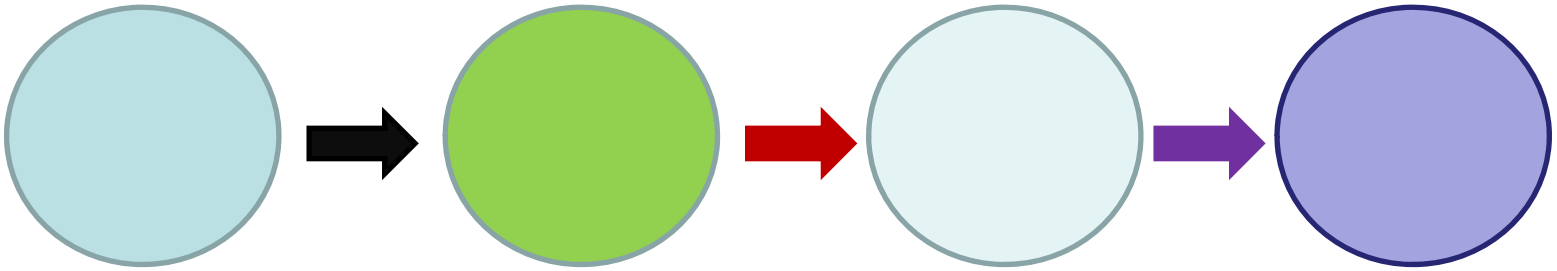
Sometimes R&D investment has been made without adequate objective evidence.

Although great insights have been gained through basic research, the research outcomes have rarely been applied to solve social problems, nor to lead to innovation in society.

Other times, outstanding policy ideas have been conceived, but they have not been implemented due to insufficient communication with the public.

The root cause was the absence of evidence-based methods to create ST&I policy.

Image of prospective suggestion



Evidence
Basic theory

Applied theory
for solution

Policy plan

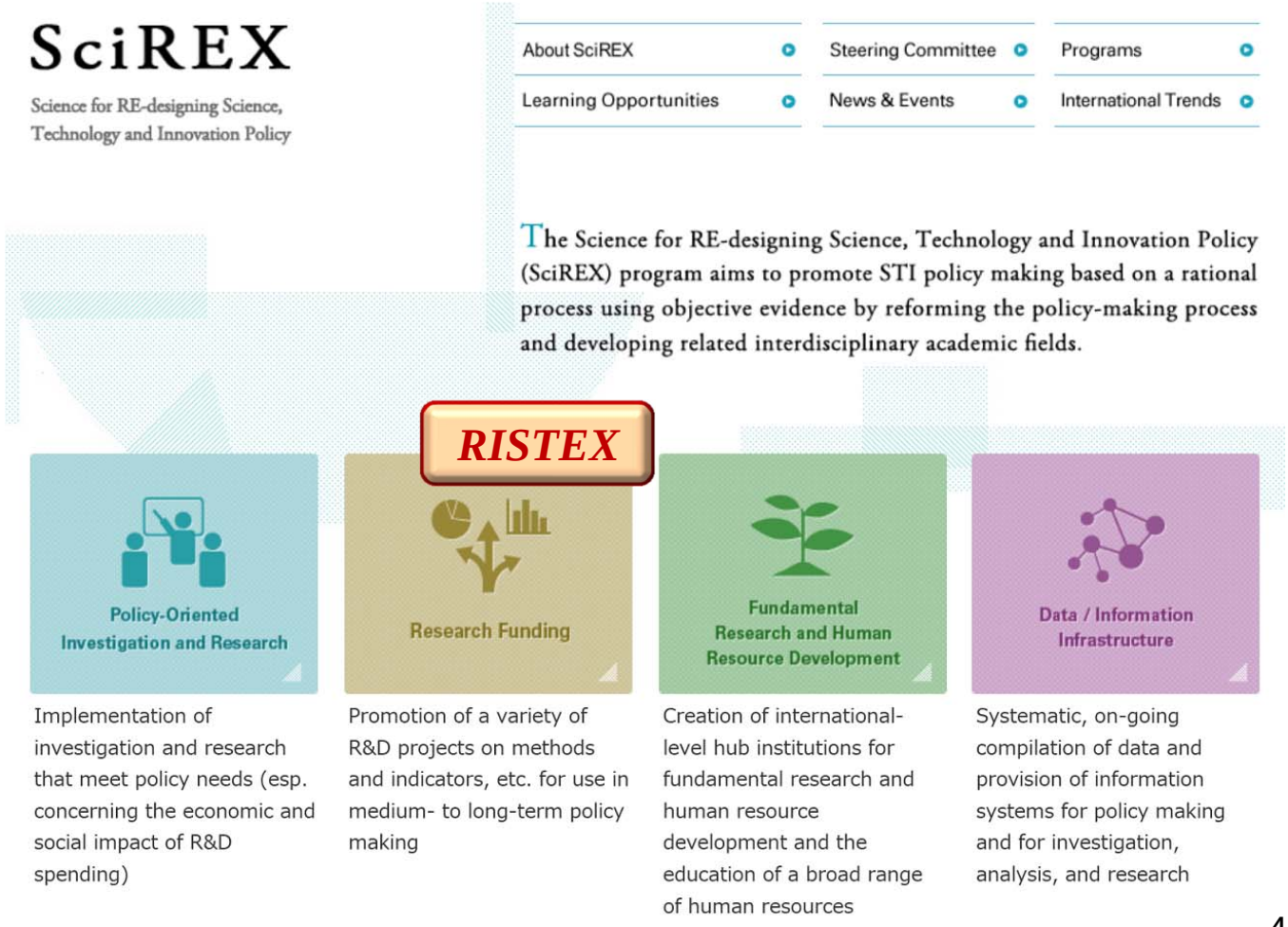
Social implementation
Institution

○○study　△△science　◇◇tech　Economics/Jurisprudence　Politics/Sociology

SciREX : “Science for Re-designing Science, Technology and Innovation Policy”

Overall Goals

- To **identify policy subjects for science, technology and innovation (ST&I) policy** through a scientific process.
- To **make alternative policy options and conduct social and economic impact analysis** for each of the identified policy subjects
- To pursue to address the policy subjects by **selecting and implementing appropriate policy option**.



http://scirex.mext.go.jp

Research Funding Program (2011～)

RISTEX

< Final Target >

- **More evidence-based ST&I policy-making**
- **Connecting R&D results to creation of public value**

< Program Target >

- **Promotion of interdisciplinary R&Ds on ;**

  New tools and indicators on analysis, modeling and systematization of data , which can be used in practical policy-making process

- **Expansion of community in order to realize innovation**

- **Open call and Adoption**

	Application	Adopted	FS (Feasibility study)
2011 FY	56	6	2
2012 FY	43	5	2
2013 FY	43	under selection	

- **Support period : 3 years per each**

R&D Program : Science of Science, Technology and Innovation Policy

Area Director ..... **Program Advisers**

Specialists advising to the Area Director

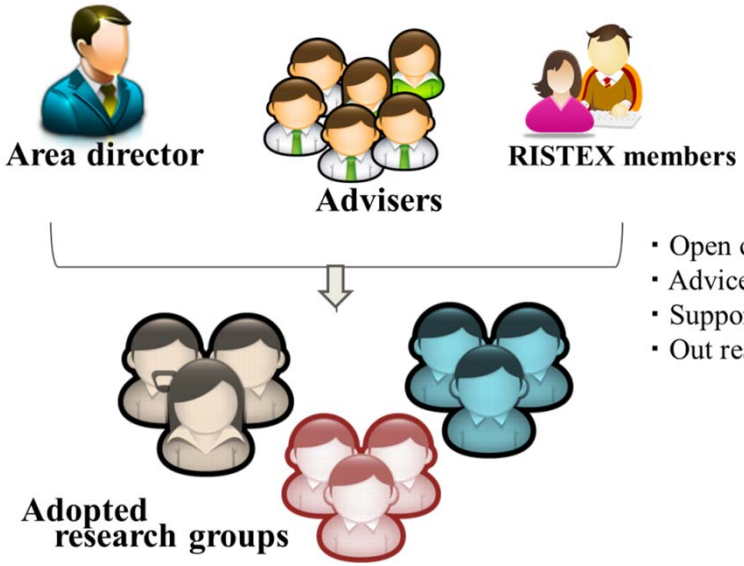
R&D Projects

Ask for proposals of R&D projects and Support their activities

- R&D Project 1
- R&D Project 2
- R&D Project 3
- R&D Project 4
- R&D Project 5
- ...

Project Planning Surveys

Support surveys to make the proposed concept more concrete and to reapply in the following year



- Open call and adoption
- Advice for research plan
- Support in the middle
- Out rearch

Information exchange

http://www.ristex.jp/stipolicy/index.html

Discussion in camp style

2011 Projects	Project leader
Development of Methods for Impact Assessment of Electric Power Innovation and R&D Network Evaluation	Taro AKIYAMA Yokohama National University
Scientometrics conducive to management of funding programs	Masashi SHIRABE Tokyo Institute of Technology
Methodology Development for Visualization and Quantification of Social Expectation to Science Technology	Masatoshi TAMAMURA Keio University
Research on Scientific Sources of Innovations and Economic Impacts of Science	Sadao NAGAOKA , Hitotsubashi University
Integrating Joint Fact-Finding into Policy-Making Processes	Masahiro MATSUURA The University of Tokyo
Study of Innovation Strategies Conductive to Creating Future Industries	Eiichi YAMAGUCHI Doshisha University

2012 Projects	Project leader
Designing a Frame for Broad Segments of the Public to Engage in Policymaking Process towards Science, Technology and Innovation	Kei KANO Kyoto University
Development of the Case-Based Reasoning System for Regional Science and Technology Policy	Akiya NAGATA Kyushu University
Economic Growth Analysis of Science, Technology, and Innovation Policies	Makoto NIREI Hitotsubashi University
Resource Logistics as a Support Tool of Science and Technology Policy decision	Kazuyo MATSUBAE Tohoku University
Conservation and Energy Utilization of Water as common Resources for Leading Innovation	Ken’ichi MURAYAMA Shinshu University

New trials in selection process in 2013

Setting two frames
＋ Prioritization to Frame 2

【Frame 1】

- Supply more useful evidence for ST&I policy-making
- Originality and uniqueness

【Frame 2】

- Targeting to solution for specific social issues
- Containing of varied phases from S&T research to discussion on institution setting in order to realize innovation

Introduction of two step selection process in order to brush up applications

【1st step】

Selection to brief concept paper in the view of two frames

- Giving advices -

【2nd step】

Selection to detailed concept paper and presentation

Concluding Remarks

Needless to say, the real policy is strongly influenced by world economic condition, regime change and big accidents.

Particularly in Japan, new Cabinet has been proposing newer plans and institutions aiming for "economic revitalization“, after long instability of politics. Some kinds of evidence for policy-making tend to be more strongly required.

More researchers have to think on “universal evidences” under varying situations. They are not required only to write academic papers on particular case studies.

We have to manage and check this program from higher views discussing on more urgent policy subjects and on fields where are strongly desired to create scientific innovation.

“ Science of ST&I policy ” is still a groping science in the dark.