Promotion of Science of ST&I Policy Program and Its New Trial

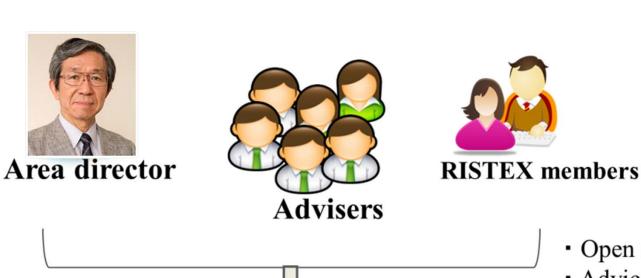
from the viewpointof an adviser -

Prof. Hiroshi NAGANO
Program Adviser of "Science of ST&I Policy"
Professor, National Graduate Institute for Policy Studies

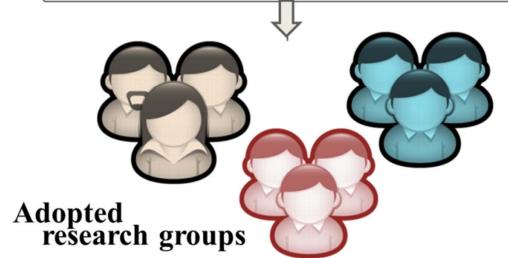
RISTEX Funding Program of

"Science of ST&I Policy"

- Management System -



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





Advisers

Academia

Industry, Incubation, etc.,

Think tank, Media, etc.,



Advisers	Affiliate	Specialty , Sector etc.,
Ryuhei WAKASUGI	Professor Emeritus, Kyoto University	Economics
Tomohiro IJICHI	Professor, Seijo University	Innovation Studies
Shinichi KAMEI	Mitsubishi Research Institute, Inc.	Think tank, Nanotech
Tadamasa KIMURA	Professor, the University of Tokyo	Cultural anthropology
Hideko KUNII	Ricoh IT Solutions Co., Ltd. (formerly)	Chairperson, Software
Koji TANABE	Professor, Tokyo Institute of Technology	Innovation Management
Yoshifumi Nakata	Director-General, Institute for Technology, Enterprise and Competitiveness, Doshisha Univ.	Economic & Legal Studies
Hiroshi NAGANO	Professor, GRIPS	S&T Policy Studies
Ikkei MATSUDA	CEO, SARR,LLC	Incubator, Venture capital
Yoshifumi YASUOKA	Auditor, Research Organization of Information and Systems	Remote Sensing, Environmental Studies
Zentaro YAMAGATA	Professor, University of Yamanashi	Health Sciences, Medical Engineering
Michiko IGARASHI	Freelance Journalist	Journalism, Media

Project Promotion by Advisers

O Selection of projects

Inspection of the applications (6-8 app./year/Adviser)

Interviews to the applicants

Adoption by agreements among directors and advisers

O Fostering of adopted projects *

"Mentor" (1 - 3 Projects / Adviser)

Labo. Visit, Salon, Camp,



Project Promotion by Advisers

Project Salon



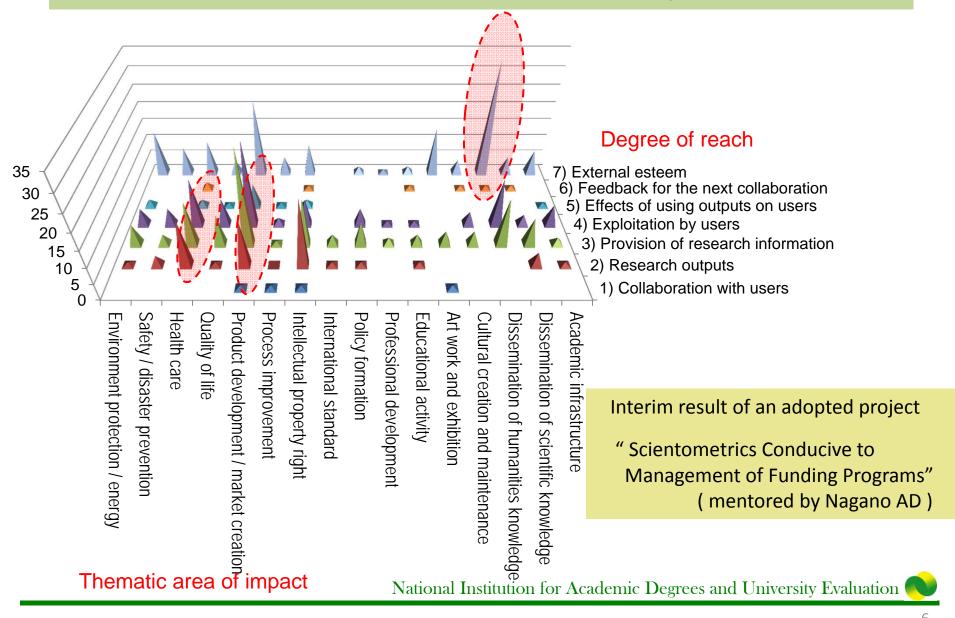


Camp-style Discussion



Chances of frank communication between researchers and policy-makers

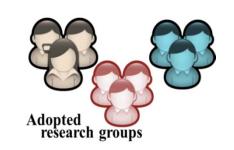
Number of indicators according to the matrix of the degree of reach and the thematic area of impacts



Whole Picture of the Adopted Projects in 2011-2012

Conservation and Energy Utilization of Water as common Resources for

Leading Innovation (Murayama)



Framework for Broad Public Engagement in STI Policy (Kano)

Search for Needs of the Public

Methodology Development for Visualization and Quantification of Social Expectation to Science Technology (Tamamura)

Consensus Building

Integrating Joint Fact-Finding into Policy-Making Processes (Matsuura)

Promotion of Local Development

Development of the Case-Based Reasoning System for Regional Science and Technology Policy (Nagata) Economic Growth Analysis of Science, Technology, and Innovation Policies (Nirei)

Evaluation of Economic Effect

Research on Scientific Sources of Innovations and Economic Impacts of Science (Nagaoka)

Development of Methods for Impact Assessment of Electric Power Innovation and R&D Network Evaluation (Akiyama)

Resource Logistics as a Support Tool of Science and Technology Policy decision (Matsubae)

Evaluation and Design of A Specific Industrial Market

Scientometrics Conducive to Management of Funding Programs (Shirabe)

Evaluation with Bibliometrics

Study of Innovation Strategies Conducive to Creating Future Industries (Yamaguchi)

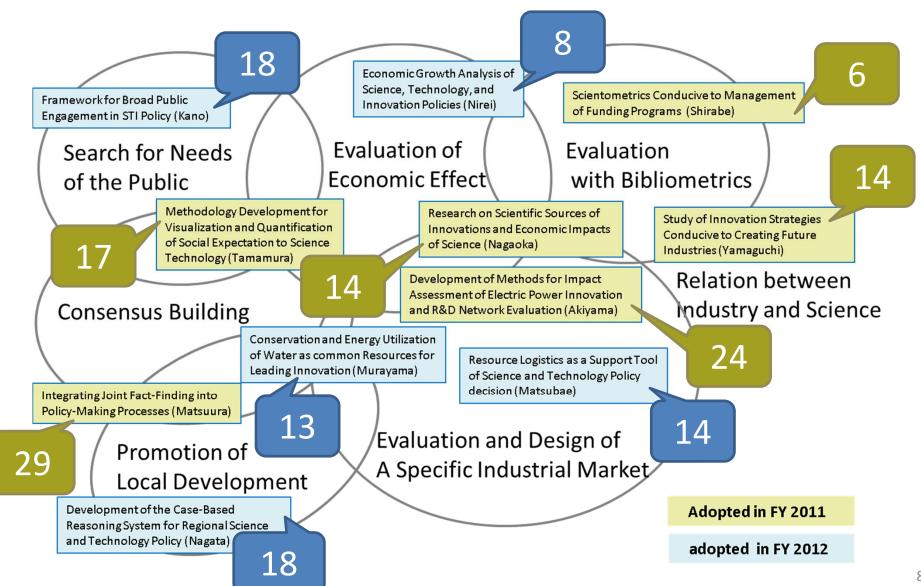
Relation between ndustry and Science

Adopted in FY 2011

adopted in FY 2012

Total: 163 **Participants**

••• in University, Institute, Firms, etc.



Relation between 4 Targets of the Open Call and the Adopted Projects

FY 2011

FY 2012

 To design a multistage process from basic research, to social application of outcomes, to evaluation of that application •To develop methods for measuring the economic and social impact of R&D investment

Conservation and Energy Utilization of Water as common Resources for Leading Innovation (Murayama)

Research on Scientific Sources of Innovations and Economic Impacts of Science (Nagaoka) Economic Growth Analysis of Science, Technology, and Innovation Policies (Nirei)

Study of Innovation Strategies Conducive to Creating Future Industries (Yamaguchi) Development of Methods for Impact Assessment of Electric Power Innovation and R&D Network Evaluation (Akiyama)

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Development of the Case-Based Reasoning System for Regional Science and Technology Policy (Nagata)

Framework for Broad Public Engagement in STI Policy (Kano)

Methodology Development for Visualization and Quantification of Social Expectation to Science Technology (Tamamura)

Integrating Joint Fact-Finding into Policy-Making Processes (Matsuura)

- •To build an effective research framework to form policies based on objective evidence
- •To ensure proper communication among policy makers, the scientific community and the public in order to promote the application of research findings in society

Checking points of the advisers

For 2011 adopted projects (more 1 year)

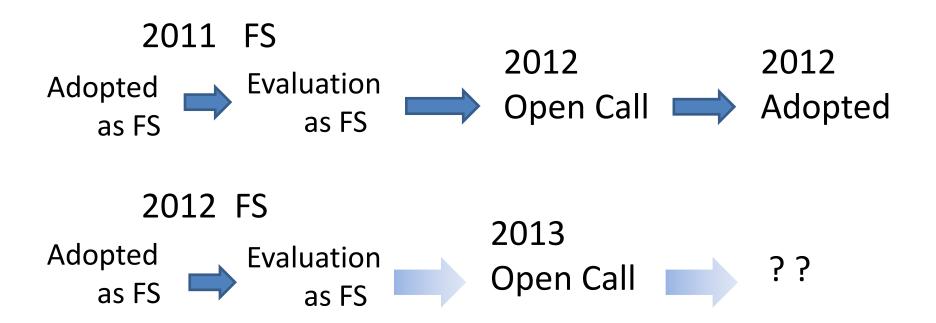
Confirmation of final target of each project
Integration of research pieces in one project
Bridging to policy-makers and stake-holders
Discussion about expandability & universality
of the conclusions

For 2012 adopted projects (a half year from started)

Validity of each project plan
Effectiveness in each project team
Activation of members

Feasibility Study (FS)

- Support for applications which are good in targeting but insufficient in taking shape of the plan.
- Support to preliminary investigations to shape the plan to apply the next year's open call.



New Trials in Selection Process in 2013

Setting two frames

+ Prioritization to Frame 2

[1] Focus on novel methods and evaluation

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

[2] Solving issue-oriented topics

- 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

Meanings of the new selection process

Framing and prioritization

 Clarification of the program target to applicants

2-step selection process

Brush up the applications

More appropriate researches

Expansion in human resources development on "Science for ST&I Policy"

Expectation to funding program

- ✓ Recognition on "Science of ST&I policy"
- ✓ Promotion of interdisciplinary research including natural science and humanities/social science
- ✓ Bridging between researchers and policy-makers
- Human resources development