

From the experience of evaluating Japanese RI

Hiromi Yokoyama

Professor, Kavli IPMU, University of Tokyo

(Kavli Institute for the Physics and Mathematics of the Universe)



Research Infrastructures @ Japan

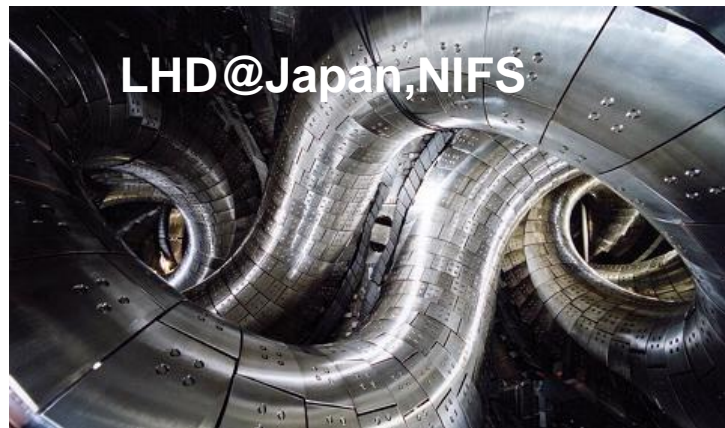
Representative bottom-up RI

- 17 Institutes
 - at 4 Inter-University Research Institute Corporation
- 107 Joint Usage / Research Center
 - at 54 universities

Representative top-down RI

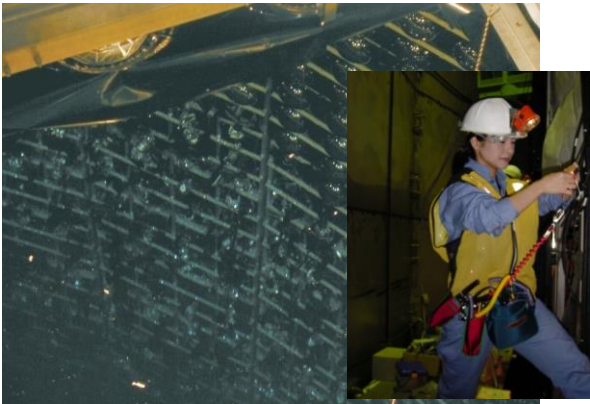
- SPring-8 (Synchrotron radiation, Riken)
- Space, Marine development (JAXA / Jamstec)
- Super computer (Riken)







2001 Nov. about 6000 PMT
have been destroyed by a accident



Totsuka Yōji, Professor, The University of Tokyo, 1942 – 2008



e 2 0
u 1 8
- a t
IC RI

- 1) rapid disclosure of information (media published on the day of the accident , photography)
 - 2) Rapid investigation , survey results disclosure , willingness to re- construction
⇒ The reconstruction completed one year later , the experiment Resume
- He is trusted by scientific community , mediators and general publics. respected scientist.

Bottom up RI big projects, Review items


From 2010-
Science Council of Japan
 Big project “**Master plan**”
 About 200 projects



MEXT : Ministry of
Education, Culture, Sports,
Science and Technology
 “**road map**”
 About 10 projects



HL-LHC , Hyper Kamiokande

Ranking by researchers and publics		
Ranking of important items	Researcher N=235	Publics N=700
Researcher agreement 	1	1
Responsibility sharing is clear	4	5
Shared use	6	6
Feasibility	2	2
Urgency	5	3.5
Strategic	3	3.5
Publics's support	7	7

For better continuation of RI

- NO Accident / earthquake
- Trusted general director

Role of government committee

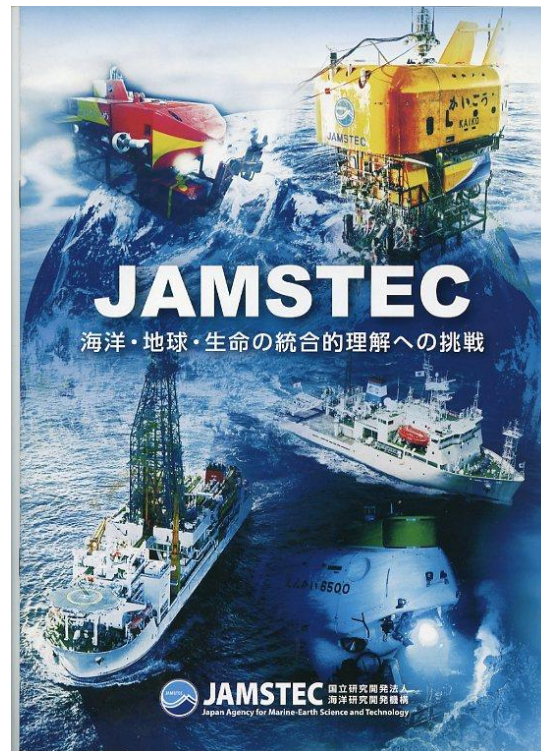
- Choosing outstanding projects

Q1 How are people attracted to consider a career in the research infrastructure system?

- RI should have attractive projects
- RI should active researchers

Ex. For excellent communication staff

- Attractive projects and researchers attracts excellent staffs



Q2 How can we advice to solve skills gaps and shortages?

Ex. Communication fields

- Collaboration with training programs of universities and museums



Q3 How to attract more women to pursue careers ?

Ex. Physics fields

- women's ratio is low
 - 17% in Physics department
- Mother's effect is big
- Call the event to come with parents and children

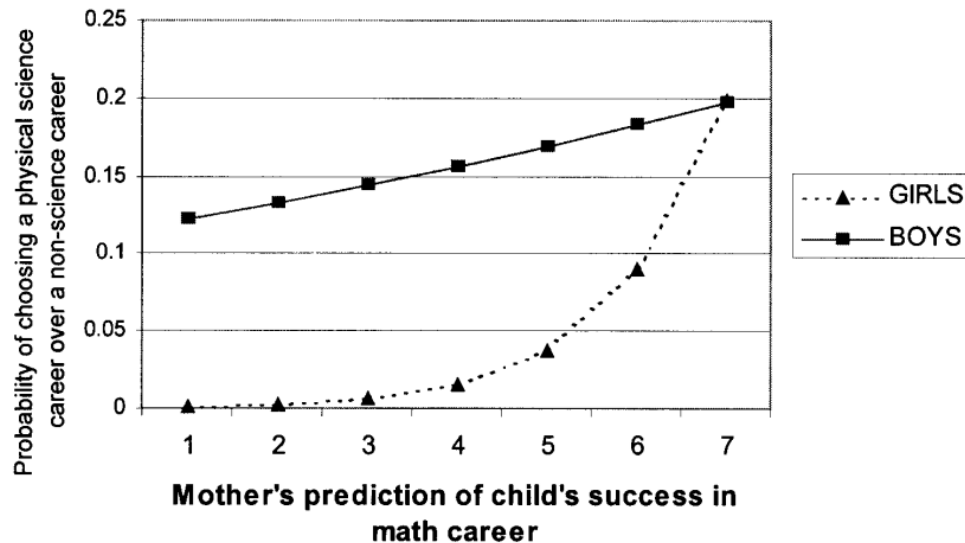
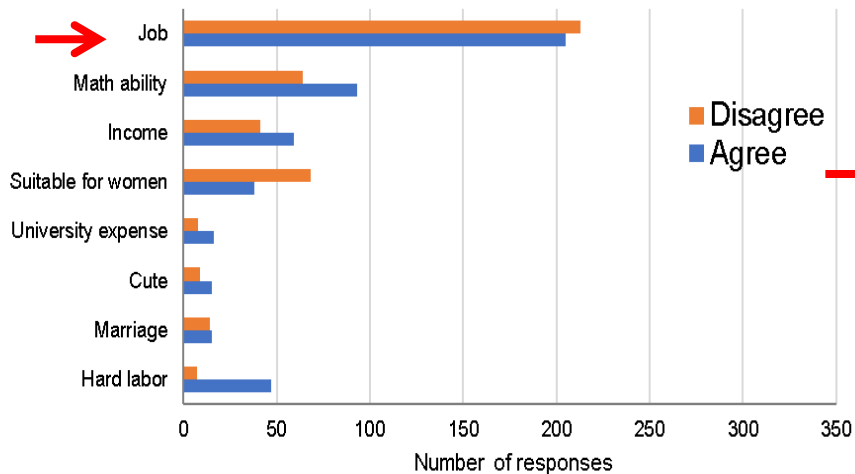


Figure 2. Relation between mothers' perceptions (sixth grade) and young adults' career choices (age 24–25 years): Probability of physical science over non-science.

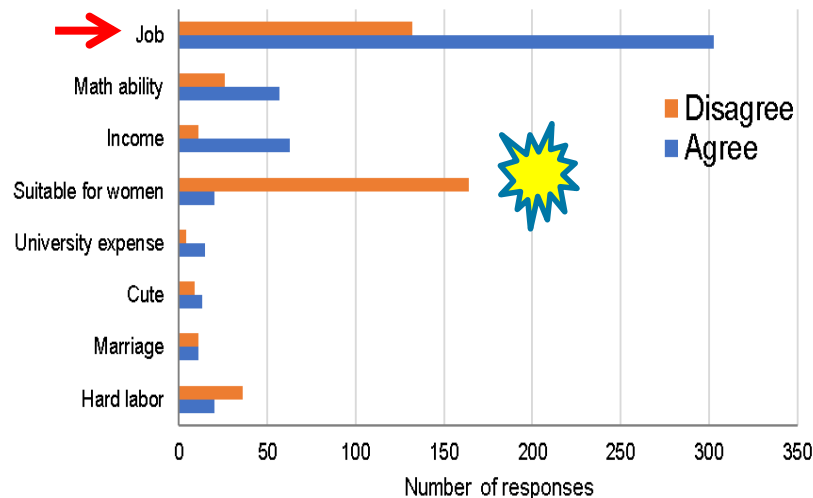
Parents perception

Do you agree that girls go on to school?

Physics



Mechanical engineering



- **Change the image from old-fashioned to modern**

Thank you for your attention!

Name Hiromi Yokoyama
Organ Kavli IPMU, The University of Tokyo
Email: hiromin.yokoyama@ipmu.jp