



Japanese Strategy for Physics Research

The Physical Society of Japan (JPS)
Setsuko Tajima (President)

1. Introduction of JPS
2. Japanese Strategy for Physics Research



JPS

- Founded as the Tokyo Mathematics Company in 1877.
- Established as the Physical Society of Japan in 1946.
- Members : 16,000 including 2,400 students
- 14 board directors
- 20 committees
- 10 regional branches



S. Tajima
(President)

Prof. Emeritus, Osaka Univ.



H. Tamura
(Vice-President)

Professor, Tohoku Univ.



Main Activities of JPS

1. Publication of international journals

Journal of the Physical Society of Japan (JPSJ)
Progress of Theoretical and Experimental Physics (PTEP)
JPS Conference Proceedings

2. Organization of scientific meetings

March Meeting
Fall Meeting

3. Outreach activities

Public Lectures at the March/Fall Meeting
Online Physics Lecture Series (**New!**)

4. International collaboration

Association of Asia Pacific Physics Societies (AAPPS)
13 Reciprocal Agreement Societies (US, Australia, Canada,
UK, Germany, Italy, France, Taiwan, Poland, Korea, Mexico,
Hong Kong, Europe)

JPS Meetings

- Annual Meeting in March
5,000 attendees with 3,500 presentations.
- Fall Meetings in two venues :
 - 1) Particle, Nuclear and Astrophysics,
(1,200 attendees)
 - 2) Condensed matter physics.
(3,500 attendees)
- 19 research fields (~40 parallel sessions)
- International activities:
 APS/JPS Joint Symposium for nuclear physics (every 4 years, 1500 participants),
 KPS/JPS Joint session for nuclear physics (every year),
 KPS/JPS joint mini-symposium session in 2020 (four plenary talks)

APS/JPS Joint Symposium



Division of Nuclear Physics

AAPPS

Association of Asia-Pacific Physical Societies

- 18 Member Societies
- Publish a Bulletin per two months
- Asia-Pacific Physics Conference / 3 years



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Research Funds

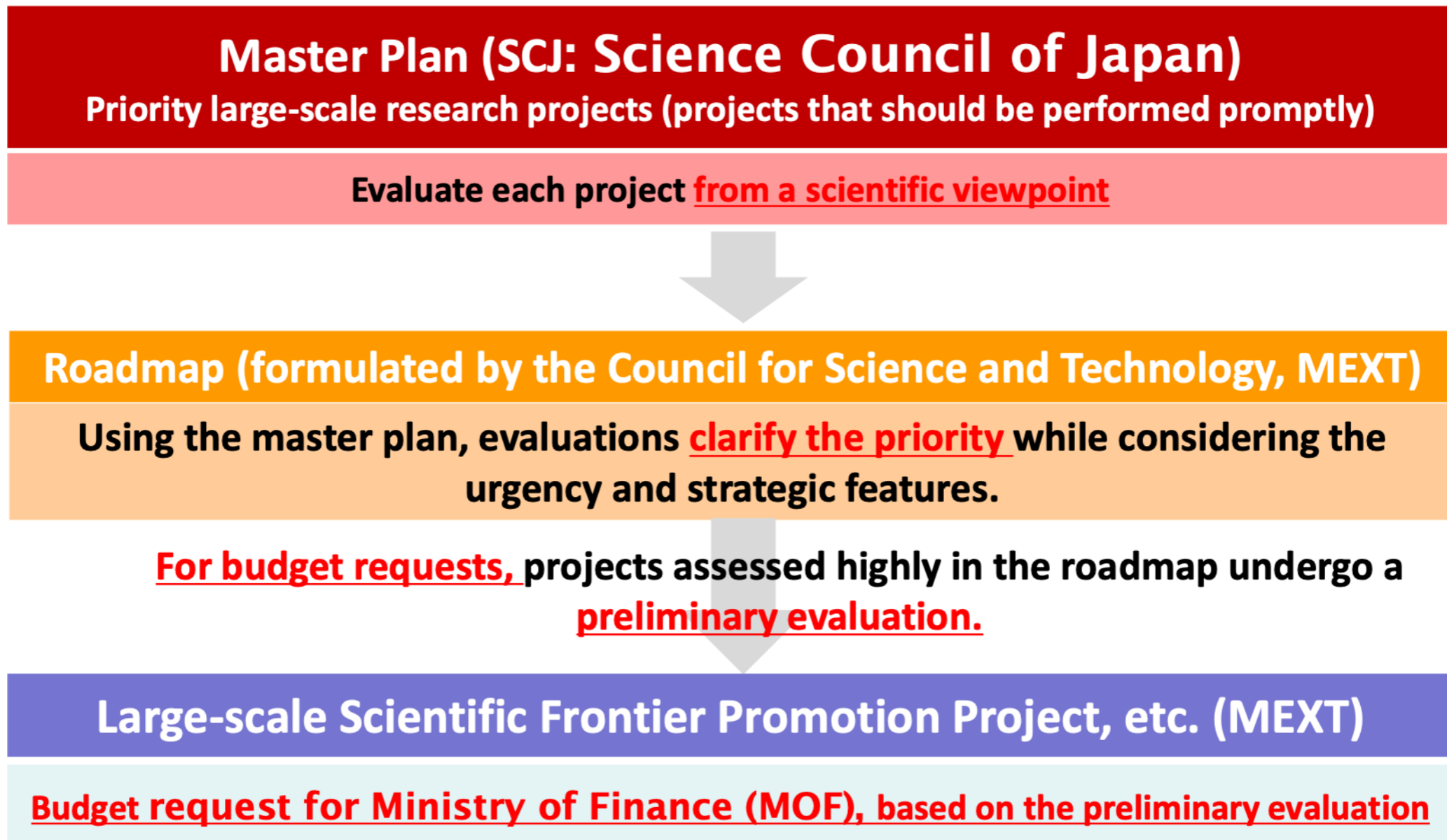
In principle, researches are bottom-up. Research subjects are not controlled by anyone. But, we cannot ignore the funding problem.

- Main source of research fund for Physics:
Grant-in-Aid for Scientific Research from the Ministry of Education, Culture, Sports, Science and Technology (MEXT)
All the submitted proposals are peer-reviewed. (Perfectly bottom up)
Adoption rate $\sim 10\text{--}30\%$
- Some grants from the Japan Science and technology Agency (JST) or from the Ministry of Economy, Trade and Industry (METI)
Only for specified research subjects (Top down funding)

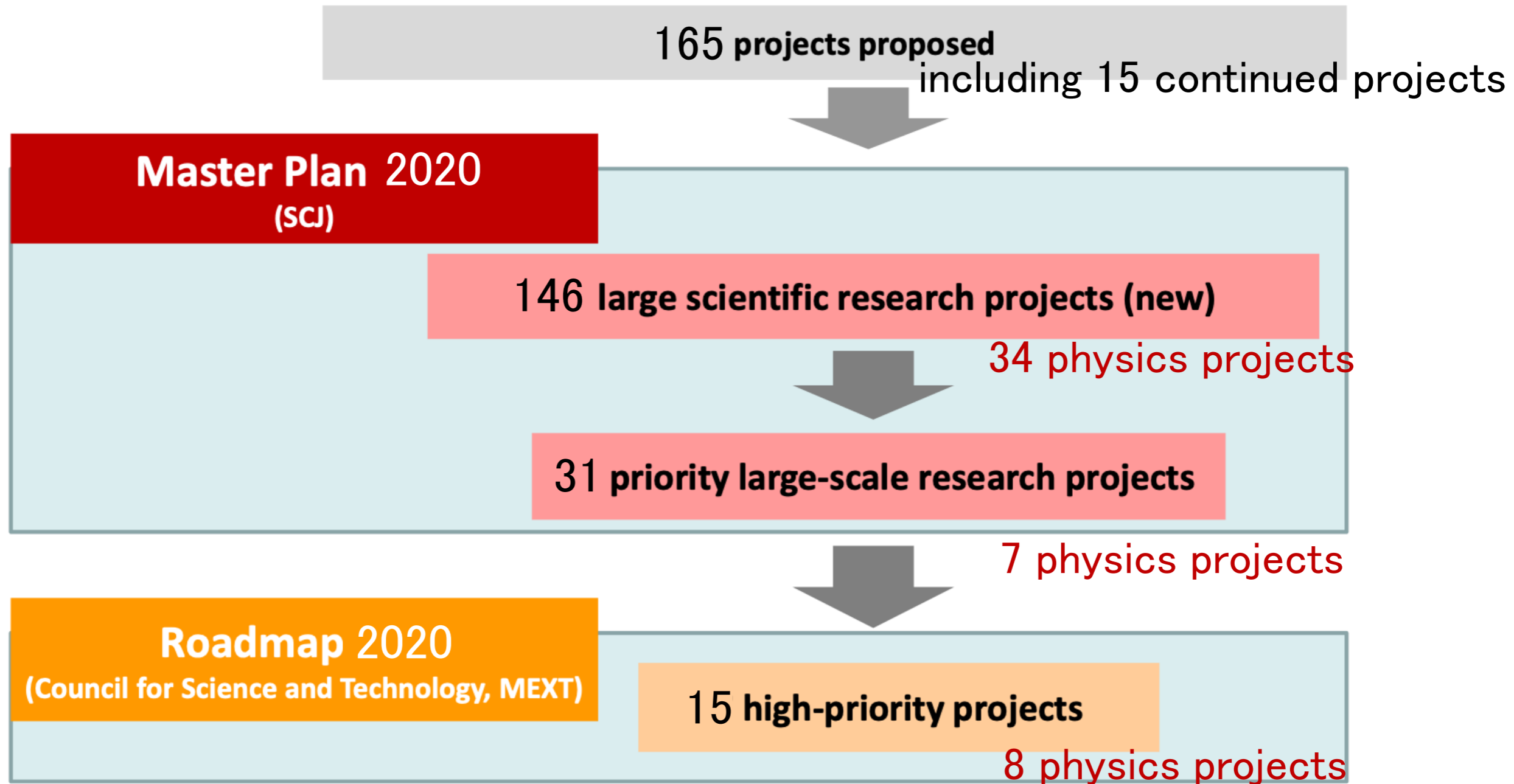
This is the case for small science such as condensed matter physics. But for large scale science such as a particle physics, there needs another way.

Japanese decision making system for big scientific projects

Every three years, for big project (> 50–60 million USD)



Process of Roadmap 2020



High magnetic field research network, KEK SuperB Factory, J-PARC upgrade for particle/hadron physics, ALMA milliwave telescope, KAGRA gravitational wave telescope, Subaru IR telescope, LiteBird CMB satellite, Super-Kamiokande neutrino

Discussion within the community

- 7 members and about 70 cooperation members of Science Council in the Physics field are nominated by cooptation.
- Before submitting project proposals, a lot of discussions within each community of subfield. (Symposium, etc.)
- Evaluation in the Physics committee of SCJ, taking into account the community discussions

Physics Community

Science Council
of Japan



Government