HQ for Science and Technology to foster innovation
- Council for Science, Technology and Innovation (CSTI) -

➢ *Promoting effective measures across ministries to create innovation beyond the borders of disciplines, ministries and sectors*

Three Arrows of Reinforcement of the HQ

1st

Improvement of the process for policy-making
"S&T Budgeting Strategy Committee" and "Action Plans for S&T Priority Measures"

- *Prioritized area: "Energy", "Next-generation infrastructures", "Local resources", "Health & Medical"*
- *Budget for FY2014: ¥335bil*

2nd

SIP (Cross-Ministerial **S**trategic **I**nnovation Promotion **P**rogram)

- ***Budget for FY2016: ¥50bil***

※Of this amount, 35 percent (¥17.5billion) was allocated to medical fields

3rd

ImPACT (**Im**pulsing **PA**radigm **C**hange through disruptive **T**echnologies)

- *Budget for FY2014-2018: ¥55bil*

Cross-Ministerial Strategic Innovation Promotion Program（SIP）

Features of the SIP

- **The Council for Science, Technology and Innovation(CSTI) selects projects that answer critical social needs and offer competitive advantage to Japanese industry and the economy.**

- **Cross-ministerial Initiatives.**

- **Promote focused, end-to-end research and development, from basic research to practical application and commercialization. Utilize results in regulations, systems, special wards, government procurement, etc.**

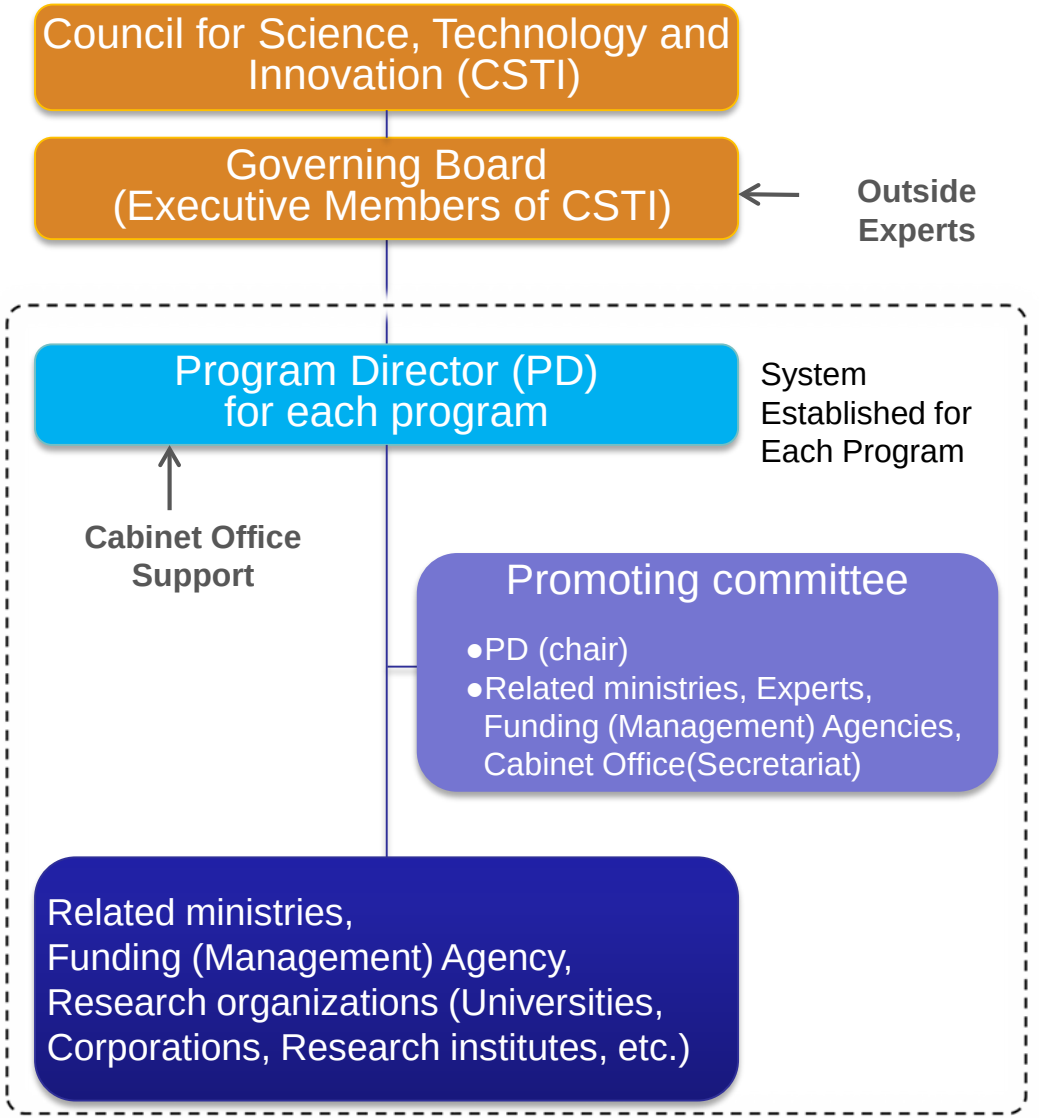
- **Intellectual property management system facilitating strategic corporate use of research results.**

Cross-Ministerial Strategic Innovation Promotion Program（SIP）

Implementation Structure

- **Select directors for each program (PD).**
- **PDs selected by invitation from among top-class leaders in industry and academy.**
- **Program directors break through ministerial silos, managing programs from a cross-ministerial perspective.**
- **Governing Board (Members: Executive members of the Council for Science, Technology and Innovation) to provide advice/ assessment.**

< Governance structure >



SIP Cross-ministerial Strategic Innovation Promotion Program

11 Themes of SIP

Innovative Combustion Technology
(Allocation: ¥1.90 billion)
Masanori SUGIYAMA, Toyota Motor Corp.
Improving fuel efficiency of automobile engines.

Structural Materials for Innovation（SM‘I）
(Allocation: ¥3.758 billion)
Teruo KISHI, Univ. of Tokyo, NIMS
Developing ultra-strong and –light materials such as magnesium-, titanium-alloys and carbon fibers

Next-Generation Technology for Ocean Resources Exploration
(Allocation: ¥4.658billion)
Tetsuro URABE, Univ. of Tokyo, JMEC
Establishing technologies for efficiently exploring submarine hydrothermal polymetallic ore

Infrastructure Maintenance, Renovation and Management
(Allocation: ¥3.156 billion)
Yozo FUJINO, Yokohama National Univ.
Developing low-cost operation & maintenance system and long life materials for infrastructures

Cyber-Security for Critical Infrastructures
(Allocation: ¥2.55 billion)
Atsuhiro GOTO, Institute of Information Security
Development of technologies that monitor, analyze, and defend control and communication system as well as confirm integrity and authenticity of system components to protect critical infrastructures against cyber threats.

Innovative Design/Manufacturing Technologies
(Allocation: ¥2.19 billion)
Naoya SASAKI, Hitachi, Ltd.
Establishing new styles of innovations arising from regions using new technologies such as Additive Manufacturing

Next-Generation Power Electronics
(Allocation: ¥2.41 billion)
Tatsuo OOMORI, Mitsubishi Electric Corp.
Integrating new semiconductor materials into highly efficient power electronics system

Energy Carriers
(Allocation: ¥3.49 billion)
Shigeru MURAKI, Tokyo Gas Co. ,Ltd.
Promoting R&D to contribute to the efficient and cost-effective technologies for utilizing hydrogen

Automated Driving System
(Allocation: ¥2.713 billion)
Seigo KUZUMAKI, Toyota Motor Corp.
Developing new transportation system including technologies for avoidance accidents and alleviating congestion

Enhancement of Societal Resiliency against Natural Disasters
(Allocation: ¥2.33 billion)
Masayoshi NAKASHIMA, Kyoto Univ.
Developing technologies for observation, forecast and prediction of natural disasters

Technologies for Creating Next-Generation Agriculture, Forestry and Fisheries
(Allocation: ¥2.925 billion)
Noboru NOGUCHI, Hokkaido Univ.
Realizing evolutionary high-yield and high-profit models by utilization of advanced IT etc