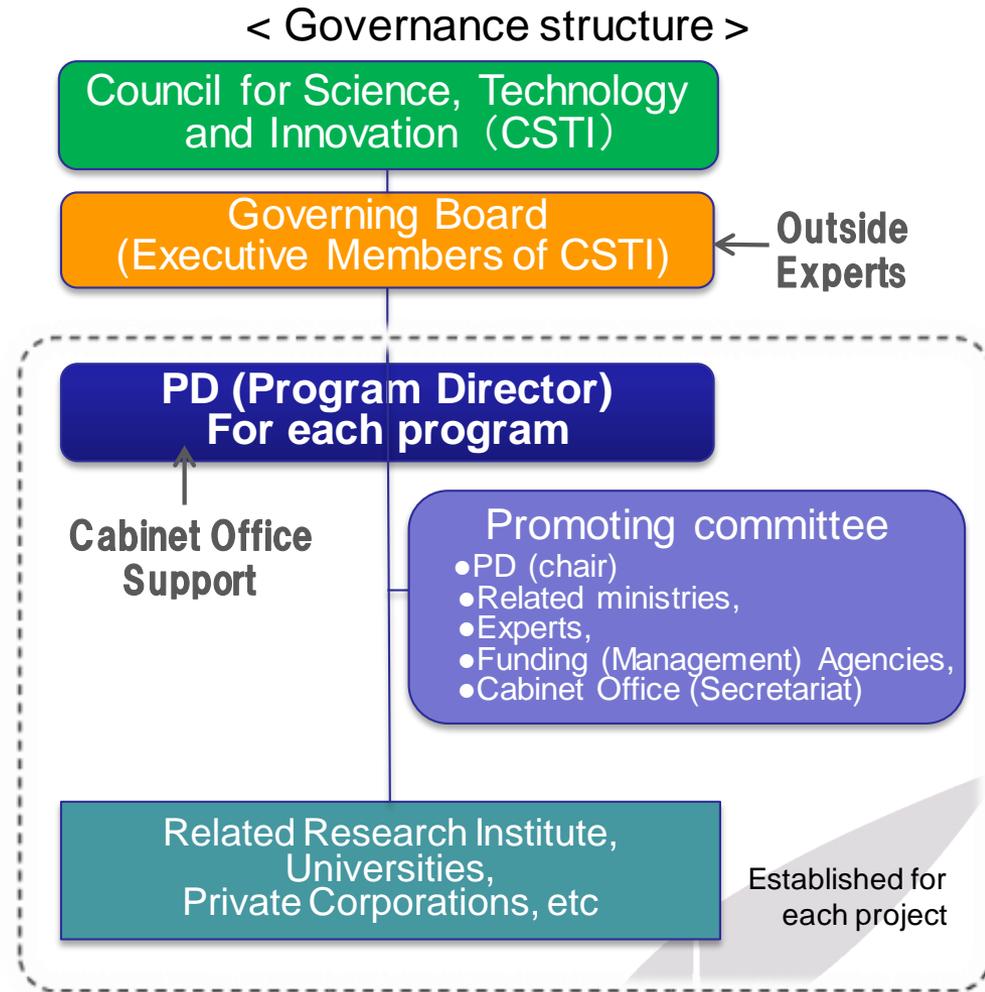


SIP (Cross-Ministerial Strategic Innovation Promotion Program)

- Realizing Science, Technology and Innovation through promoting R&D overlooking from basic research to application and commercialization by cross-ministerial cooperation.
- Council for Science, Technology and Innovation (CSTI) defined the subjects to solve social issues and achieve economic growth
- CSTI appoints Program Directors (PDs) for each project and allocates the budget.

Established in 2013
Total ¥55.5B (budget for FY2018)



※Of the amount, ¥17.5 billion was allocated to medical fields.
And, as a side note, programs related to the fields of health and medicine are managed under the guidance of the Headquarters of Healthcare Policy.

※Of the amount, ¥10 billion was allocated to Public/Private R&D Investment Strategic Expansion Program (PRISM).

11 Themes of SIP

Priority policy issues	Themes	Objective
Energy	Innovative Combustion Technology	Improving fuel efficiency of automobile engines
	Next-Generation Power Electronics	Integrating new semiconductor materials into highly efficient power electronics system
	Structural Materials for Innovation (SM ⁴ I)	Developing both ultra-strong and -light heat-resistant materials for airplane such as CFRP, alloys, intermetallic, and ceramic-coatings and Materials integration system to predict performance of materials.
	Energy Carriers	Promoting R&D to contribute to the efficient and cost-effective technologies for utilizing hydrogen
	Next-Generation Technology for Ocean Resources Exploration	Establishing technologies for efficiently exploring submarine hydrothermal polymetallic ore
Next-generation infrastructures	Automated Driving System	Developing new transportation system including technologies for avoidance accidents and alleviating congestion
	Infrastructure Maintenance, Renovation and Management	Developing low-cost operation & maintenance system and long life materials for infrastructures
	Enhancement of Societal Resiliency against Natural Disasters	Developing technologies for observation, forecast and prediction of natural disasters
	Cyber-Security for Critical Infrastructures	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.
Local resources	Technologies for Creating Next-Generation Agriculture, Forestry and Fisheries	Realizing evolutionary high-yield and high-profit models by utilization of advanced IT etc
	Innovative Design/Manufacturing Technologies	Establishing new styles of innovations arising from regions using new technologies such as Additive Manufacturing

SIP (Cross-Ministerial Strategic Innovation Promotion Program)

- Program Directors for SIP -

Innovative Combustion Technology



Masanori Sugiyama
Toyota Motor Corp.

Next-Generation Power Electronics



Tatsuo Oomori
Mitsubishi Electric Corp.

Structural Materials for Innovation (SM⁴I)



Teruo Kishi
Univ. of Tokyo, NIMS

Energy Carriers



Shigeru Muraki
Tokyo Gas Co.,Ltd.

Next-Generation Technology for Ocean Resources Exploration



Tetsuro Urabe
Univ. of Tokyo, JMEC

Infrastructure Maintenance, Renovation and Management



Yoza Fujino
Yokohama National Univ.

Automated Driving System



Seigo Kuzumaki
Toyota Motor Corp.

Enhancement of Societal Resiliency against Natural Disasters



Muneo Hori
University of Tokyo

Cyber-Security for Critical Infrastructures



Atsuhiko Goto
Institute of Information Security

Tech. for Creating Next-Generation Agriculture, Forestry and Fisheries



Noboru Noguchi
Hokkaido University

Innovative Design/Manufacturing Technologies



Naoya Sasaki
Hitachi, Ltd.



- A strong central headquarters structure is vital for effective coordination between ministries and among industry, academy, and government agencies.
- The SIP has selected PDs to be responsible for each of the 11 individual programs making up this government initiative.