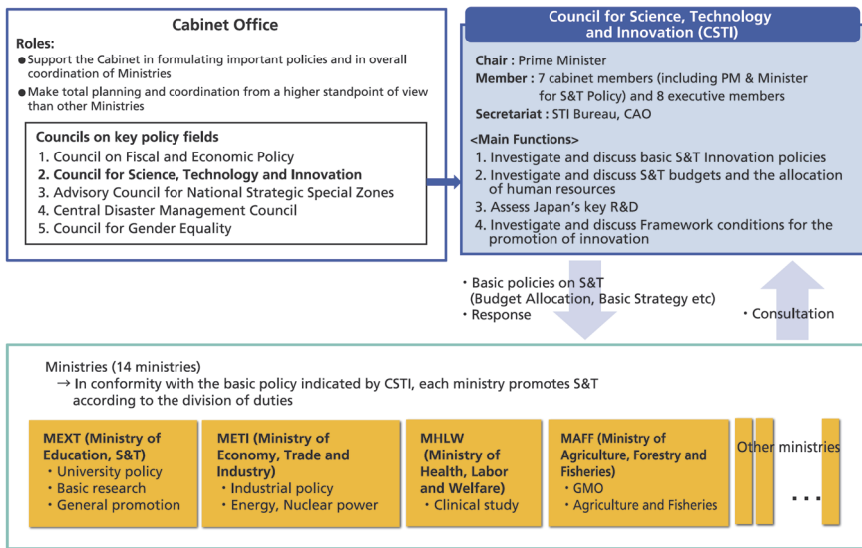


## Overview

### SIP-adus ① - Innovation of Automated Driving for Universal Services -

#### Administrative Organization for Promoting STI



#### HQ for Science and Technology to Foster innovation - CSTI: Council for Science, Technology and Innovation -

CSTI needs to be the stronger headquarters for creating innovation beyond the borders of systems, regulations, ministries and sectors, closely linked with "Abenomics"

#### Three Arrows of Reinforcement of the HQ



#### Cross-Ministerial Strategic Innovation Promotion Program (SIP)

##### ► Intensive R&D program

SIP is aiming to realize Innovation through promoting 5-years R&D by enhancing cross-ministerial cooperation. (FY2014- FY2018)

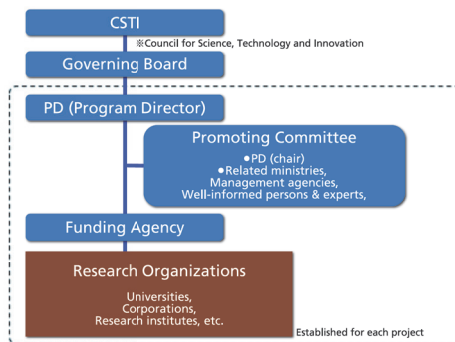
##### ► 11 Research themes

Prioritized and selected from societal issues such as Energy, Next-Generation Infrastructures and Local Resources, including R&D for AD

##### ► Leadership and Budget

CSTI appointed Program Director (PD) for each research theme and Allocates the budget\*.

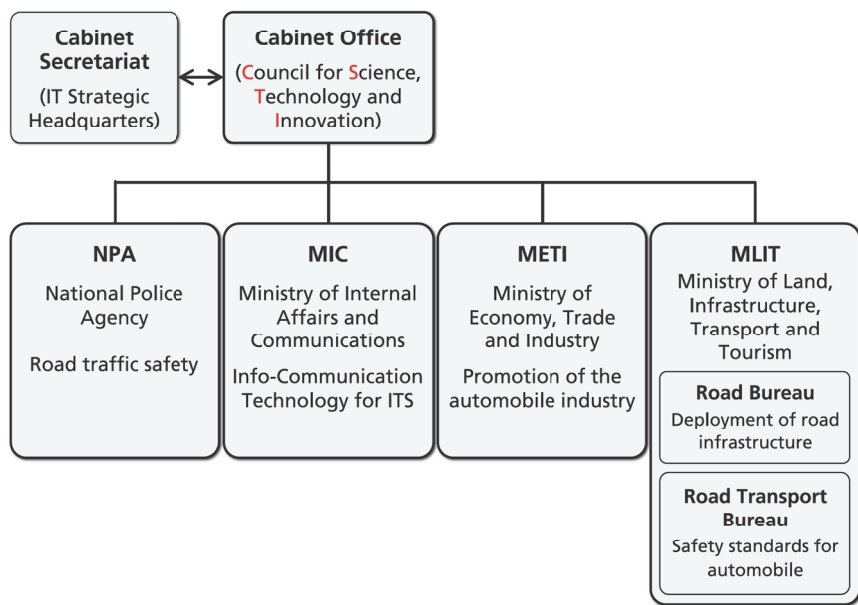
\* ¥50billion per year  
(65% for SIP 11 themes, 35% for medical R&D)



#### 11 Research Themes of SIP

<b>Innovative Combustion Technology</b> (Allocation: ¥1.95 billion) Masanori SUGIYAMA, Toyota Motor Corp. Improving fuel efficiency of automobile engines	<b>Next-Generation Power Electronics</b> (Allocation: ¥2.41 billion) Tatsuo OOMORI, Mitsubishi Electric Corp. Integrating new semiconductor materials into highly efficient power electronics system
<b>Structural Materials for Innovation (SM'I)</b> (Allocation: ¥3.758 billion) Teruo KISHI, Univ. of Tokyo, NIMS Developing ultra-strong and -light materials such as magnesium, titanium-alloys and carbon fibers	<b>Energy Carriers</b> (Allocation: ¥3.49 billion) Shigeru MURAKI, Toyota Gas Co., Ltd. Promoting R&D to contribute to the efficient and cost-effective technologies for utilizing hydrogen
<b>Next-Generation Technology for Ocean Resources Exploration</b> (Allocation: ¥4.658 billion) Tetsuro URABE, Univ. of Tokyo, JMEC Establishing technologies for efficiently exploring submarine hydrothermal polymetallic ore	<b>Automated Driving System</b> (Allocation: ¥2.713 billion) Seigo KUZUMAKI, Toyota Motor Corp. Developing new transportation system including technologies for avoidance accidents and alleviating congestion
<b>Infrastructure Maintenance, Renovation and Management</b> (Allocation: ¥3.156 billion) Yozo FUJINO, Yokohama National Univ. Developing low-cost operation & maintenance system and long life materials for infrastructures	<b>Enhancement of Societal Resiliency against Natural Disasters</b> (Allocation: ¥2.33 billion) Masayoshi NAKASHIMA, Kyoto Univ. Developing technologies for observation, forecast and prediction of natural disasters
<b>Cyber-Security for Critical Infrastructures</b> (Allocation: ¥2.55 billion) Atsuhiko 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.	<b>Technologies for Creating Next-Generation Agriculture, Forestry and Fisheries</b> (Allocation: ¥2.925 billion) Noboru NOGUCHI, Hokkaido Univ. Realizing evolutionary high-yield and high-profit models by utilization of advanced IT etc
<b>Innovative Design/Manufacturing Technologies</b> (Allocation: ¥2.19 billion) Naoya SASAKI, Hitachi, Ltd. Establishing new styles of innovations arising from regions using new technologies such as Additive Manufacturing	

#### ITS promotion Framework of Japanese Government



#### Name and Message of Project

**SIP-adus**  
(Innovation of Automated Driving for Universal Services)

#### ► Mobility Bringing Everyone a Smile

Inclusive society, where diverse people in diverse communities actively participate in generating values, will enhance both wellness of individuals and economic development. Automated driving technologies integrated with social innovations should provide everyone with mobility to fully exercise his or her capacity, enabling sustainable development of the society.