

Japan's AI Policy Framework

Previous Basic Strategies “Principles for a Human-Centered AI Society (2019.3)”, “AI Strategy 2022”

Changes in technologies such as generative AI

- ! Innovation and benefit contributing to Society 5.0
- ! Risks related to AI are more imminent

International Discussions

G7 leaders agreed on the comprehensive policy framework including international guiding principles. (Hiroshima AI Process)
55 countries and regions agree with the policy framework.

AI Strategic Council [experts], AI Strategy Promotion Taskforce [relevant ministries]

“Tentative Discussion Points on AI” (May 26, 2023, compiled by AI Strategic Council)
Integrated Innovation Strategy (June 4, 2024, Cabinet Decision)

Mitigating Risks

AI in Specific domains (critical infrastructure, product safety)
Compliance with existing business laws, product safety laws.
ex. medical devices (MHLW), automated driving (MLIT)

General AI

Application of existing laws and guidelines.

- ◆ Reminder by PPC (Personal Information Protection Commission)
- ◆ Clarification of interpretation on Copyright Law (MEXT)
- ◆ Study on AI and intellectual property (CAO)
- ◆ Amendment of Internet Service Provider Act (Information Platform Law) and comprehensive study to ensure proper information distribution (MIC)
- ◆ Guidelines for educational institutions (MEXT)
- ◆ AI guidelines for business (MIC, METI)
- ◆ AI Safety Institute (relevant ministries)
- ◆ R&D against risks (MEXT, MIC, METI, etc.)

Government

- ◆ Agreement on handling generative AI at central ministries and agencies, pilot use in government (Digital Agency, etc.)

➔ Guidelines for government procurement and use (under consideration, Digital Agency)

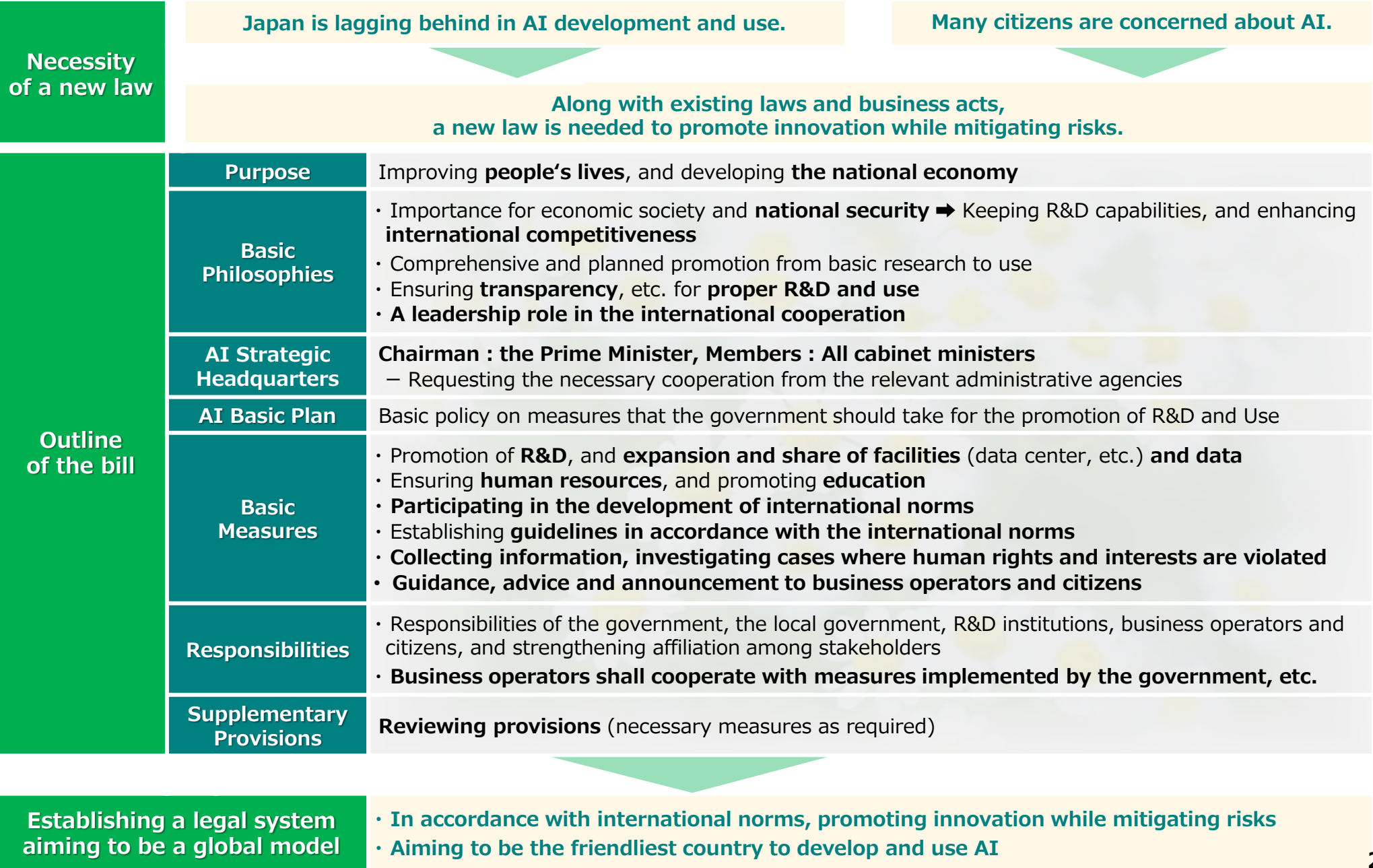
- ◆ Promotion of the data linkage and data quality management (Digital Agency, etc.)
- ◆ Skills and literacy education for a wide range of generations (MIC, MEXT)

◆ Consideration on new law (AI Act) (CAO)

Optimal use of AI and R&D

- ◆ Securing computational resource and communication infrastructure (METI, MIC)
- ◆ Developing training data (MIC, etc.)
- ◆ Support for model development (METI)
- ◆ Development of energy-saving semiconductors (METI)
- ◆ Fundamental research (MEXT)
- ◆ Human resource development, attracting environment (MEXT)
- ◆ Promotion of startup (METI, MEXT, etc.)
- ◆ International collaborative R&D (MIC, METI, MEXT, etc.)

Outline of the Bill on Promotion of R&D and Use of AI Technology (the Bill of the AI Act)



AI Safety Institute

Japanese AI Safety Institute was established at IPA (Information-technology Promotion Agency) in cooperation with related ministries and national laboratories.

Current tasks **are study on AI safety issue (AI safety evaluation, disinformation, etc.), preparation of standards, consideration on evaluation method, and international AISI collaboration** with AISI in other countries, etc.



**Executive Director
Akiko Murakami**

Executive Officer, Chief Digital Officer, Sompo Japan Insurance, Inc.
Former researcher of IBM Japan.

Relevant ministries :

Cabinet Office (Secretariat for Science, Technology and Innovation)
Cabinet Cyber Security Center (NISC)
Digital Agency
Ministry of Foreign Affairs
Ministry of Economy, Trade and Industry

National Security Bureau
National Police Agency
Ministry of Internal Affairs and Communications
Ministry of Education, Culture, Sports, Science and Technology
Ministry of Defense

Related organizations :

National Institute of Information and Communications Technology (NICT)
RIKEN
National Institute of Informatics
National Institute of Advanced Industrial Science and Technology (AIST)

Major AI-related Budgets

Draft budget for FY2025 : USD 1.3 billion
Supplemental budget for FY2024 : USD 1.1 billion

Major AI-related measures have been compiled, with a focus on “Innovation of AI and Innovation by AI”, “Ensuring AI Safety & Security” and “International Collaboration & Cooperation”.

Ensuring AI Safety & Security	4.0 million dollar [124 million dollar]
■ Ensuring AI Safety	
▶Promotion of research, development, and verification related to ensuring the safety of generative AI. [New]	[93 million dollar]
▶Strengthening cybersecurity measures using generative AI ,etc. [New]	[14 million dollar]
■ Countermeasures to Dis-/Mis-information	
▶Promotion of comprehensive measures against dis-/mis-information on the internet [New]	0.3 million dollar [15 million dollar]
▶Promotion of literacy improvement for a wide range of generations based on ICT utilization	1.0 million dollar
■ Voluntary Governance and Institutional Considerations	
▶Survey and research on AI governance corresponding to sophistication of AI [New]	0.3 million dollar
■ Intellectual Property Rights, etc.	
• AI-based Detection and Analysis Demonstration Project for Pirate Sites [New]	[2.0 million dollar]

Innovation of AI and Innovation by AI	1.2 billion dollar [0.9 billion dollar]
■ Strengthening R&D Capabilities (Including Data Improvement)	
▶Cross-ministerial Strategic Innovation Promotion Program (SIP) / programs for Bridging the gap between R&D and the Ideal society (society5.0) and Generating Economic and social value (BRIDGE)	0.3 billion dollar
▶Enhancement of data preparation and expansion for strengthening the development capabilities of large-scale language models (LLM) in Japan	[79 million dollar]
▶R&D of optimized AI technology through secure data collaboration	[6.0 million dollar]
• Operation of the Supercomputer “Fugaku” and the High Performance Computing Infrastructure (HPCI) / Development and introduction of a new flagship system	0.1 billion dollar [59 million dollar]
▶AIP: Advanced Integrated Intelligence Platform Project on AI/Big Data/IoT/Cybersecurity	70 million dollar
▶R&D Hub Aimed at Ensuring Transparency and Reliability of Generative AI Models	5.4 million dollar [28 million dollar]
• Artificial General Intelligence for Science of Transformative Research Innovation Platform (TRIP-AGIS)	16 million dollar [13 million dollar]
• Project Promoting Support for Drug Discovery – Development of AIPF for drug target prediction and seed exploration through industry-academia collaboration	3.0 million dollar
• Smart agriculture technology development and supply acceleration measures	[23 million dollar]
• Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems (robotics AI Foundation model development)	[a part of 6.6 billion dollar]
• Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems (Financial AI foundation model development) [New]	a part of 1.1 billion dollar
• Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems (Development of a software infrastructure for the robotics field) [New]	[68 million dollar]
• Digital and robotic system technology infrastructure development project [New]	1.5 million dollar
• Development, utilization, and sharing of 3D city models (Project PLATEAU)	a part of 15 million dollar [a part of 3.3 million dollar]
• Concept study for Crewed-Uncrewed Teaming UAVs with outstanding decision-making capabilities powered by AI	66 million dollar
■ Development and Securing of Human Resources	
• Nationwide Promotion of Mathematics, Data Science, and AI education	7.0 million dollar
• Enhancement of Mathematics, Data Science, and AI education in private universities	4.7 million dollar
• Project for Designing Graduate Programs Emphasizing Digital Literacy across Diverse Fields ; X Program	3.0 million dollar
• Regional digital human resources development and securing promotion project	5.7 million dollar

International Collaboration & Cooperation	2.0 million dollar[18 million dollar]
■ International Collaboration, etc.	
▶Project to strengthen collaboration on data circulation in multilateral frameworks	a part of 2.0 million dollar
▶DX promotion for international cooperation (Digital Public infrastructure program) [New]	[6.2 million dollar]
(Comprehensive AI for development program) [New]	[5.8 million dollar]
(Enterprise DX program for public corporations) [New]	[5.0 million dollar]
• Support for the Enhancement of International AI Governance [New]	[1.3 million dollar]
■ Promotion of AI Utilization	
• Functional improvements of the RS system for visualization of review sheets, etc [New]	[a part of 2.6 million dollar]
• Advanced and efficient identification of phishing sites using generative AI [New]	a part of 0.2 million dollar
▶Project for enhancing granular data collection and utilization [New]	[a part of 0.6 million dollar]
• Survey and research on measures to prevent consumer damage using AI [New]	0.1 million dollar
• Declining birthrate measures considering regional conditions and challenges	[a part of 55 million dollar]
• Grants for priority promotion of measures for declining birthrate in the regions	a part of 6.6 million dollar
• Technical verification and environment development for generative AI in government use	0.7 million dollar
• Research and study on AI and Web 3.0 [New]	0.5 million dollar
▶Formulation of guidelines for government's generative AI procurement & utilization [New]	[0.4 million dollar]
• SynthWave [New]	0.2 million dollar
• Solving educational challenges and accelerating education DX through the use of generative AI [New]	1.5 million dollar [3.9 million dollar]
• English education enhancement project through the use of AI	[4.1 million dollar]
• Establishing of drug discovery target and patient-return-type real-time information platform with AI	0.3 million dollar [3.4 million dollar]
• Development of novel therapeutics for treating cancer and intractable disease using generative AI [New]	[1.5 million dollar]
• Identification of disease-related genes using generative AI and whole-genome analysis of primates [New]	[0.9 million dollar]
• Comprehensive measures to promote the use of smart agricultural technology [New]	a part of 11 million dollar
▶Project to support the development and demonstration of autonomous driving services for regional mobility challenges [New]	[a part of 46 million dollar]
• Project to support demonstration & response for CASE, such as autonomous driving	a part of 32 million dollar
• Project to promote the development of advanced technology-based solutions for social challenges in the field of prevention and health promotion [New]	[9.3 million dollar]
• Smart City Implementation Support Project	1.6 million dollar
• Pioneering city development survey	a part of 2.0 million dollar
• Survey and research on the feasibility of AI utilization in human resource management of national public employees [New]	[0.3 million dollar]
■ Infrastructure Advancement	
• Promotion of R&D for the realization of Beyond 5G, etc	0.1 billion dollar [0.2 billion dollar]
• Strategic Basic Research Programs Cutting-edge Research and Development on Information & Communication Sciences (CRONOS)	8.6 million dollar
• Post-5G information and communication system infrastructure enhancement R&D project (R&D for advanced computing resources) [New]	a part of 1.1 billion dollar
• Project to support technology development for energy-efficient AI semiconductors & systems	20 million dollar
• Support for innovation aimed at the early commercialization of products using innovative materials	a part of 25 million dollar

(Note 1) This document mainly describes initiatives targeting generative AI. [] indicates the supplementary budget for FY 2024.
The total budget and the aggregate amounts of major items listed above include the entire AI-related budget, not limited to generative AI.
(Note 2) Measures which is difficult to extract the AI-related budget amount, such as part of the project costs, are not included in the total budget.
(Note 3) In addition to the above, 0.12 billion dollar [0.09 billion dollar] is budgeted for infrastructure maintenance & other measures to support AI R&D.
(Note 4) ▶ symbol above indicates initiatives related to ensuring AI safety.

Trends in AI-related Budgets

- Draft budget for FY2025 is around USD 1.3 billion.
- Budget for FY2024 is around USD 0.8 billion.

Trends in AI-related Government Budgets (USD billion)

(100 million yen)

