Provisional Translation

New International Standards Strategy

(Japan's international standardization strategy for solving challenges in the international community)

June 3, 2025

Intellectual Property Strategy Headquarters

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Introduction

(Challenges facing the international community and Japan)

In recent years, the international community and Japan have faced diverse challenges that cannot be adequately addressed within conventional frameworks.

For example, norms such as climate change countermeasures and respect for human rights require the international community to collaborate and tackle them over the medium to long term; however, sustainability of such initiatives has become a challenge in the short term.

As each country faces the necessity of addressing both the challenge of complying with norms and strengthening its economy, it is also confronted with the risk of disruption to global supply chains due to the increasing complexity of the international situation and changes in socio-economic structures.

Furthermore, it is becoming increasingly clear that traditional regulations and systems are insufficient to provide a sufficient and rapid response to the impacts of rapid technological innovation, including generative AI.

Looking domestically, there are a multitude of challenges: population decline and aging, reduced purchasing power due to prolonged economic stagnation, and the need to adapt to rapid technological innovations like generative AI.

(The role of international standards)

The strategic use of international standards is a powerful option for achieving transitions toward realizing social and environmental goals pursued under the consensus of the international community, strengthening supply chains through global collaboration, and enabling societies and industries to adapt to rapid technological innovations.

With innovation diversifying and accelerating, it is increasingly important to strengthen engagement with international standards developing organizations like ISO, IEC, and ITU, while also actively utilizing sector-specific forum standards and regional standards.

The importance of "economic security" – safeguarding national interests such as Japan's peace, security, and economic prosperity through economic measures – is also increasing. It has become crucial to ensure autonomy and to secure, maintain, and strengthen advantages and indispensability through international standards.

(Resolution of social issues and market creation through international standards)

Against this backdrop, Japan's newly formulated International Standards Strategy (the "New International Standards Strategy," hereinafter referred to as "this Strategy") serves as the fundamental policy to lead the resolution of social issues and market creation through international standards activities. It aims to contribute to solving challenges faced by the international community and Japan, as well as to Japan's economic security.

Following this strategy, in fields that are deeply relevant to solving challenges in the international community and where Japan possesses strengths such as disaster prevention, energy, and quantum technology, the public and private sectors will collaborate to lead the development of standards and utilization of the standards for solving issues, aiming to create markets.

To achieve this purpose, discussions encompassing the entire socio-industrial system are required, including not only traditional, specific standardization related to product and service specifications and quality requirements, but also the definition of new values and norms.

(Reinforcement of the standard ecosystem)

To further enhance Japan's centripetal force in international standards activities, it is essential not only to foster awareness reform and behavioral change within the industry and academic community, but also to strengthen domestic human resource development in related fields, reinforcing supporting institutions such as standards development, certification bodies, testing institutions. Additionally, it is indispensable to establish a headquarters function that connects diverse stakeholders involved in international standards and articulates a future vision.

This strategy aims to communicate Japan's contributions to solving social challenges both domestically and internationally, while also calling for collaboration with likeminded nations in related standardization activities. It is expected that cooperation with countries and regions at diverse social and industrial stages will pave the way for new solutions to global challenges.

By advancing this strategy as a unified effort, each entity is expected to promote the dissemination and expansion of industrial and business strategies that effectively utilize international standards. This will also accelerate the swift and safe societal implementation of high-added-value new technologies, thereby contributing to solving social challenges within Japan and enhancing the international competitiveness of Japanese industries.

Chapter 1: Initiatives by Government and Private Sector to Date and Trends in Japan and Abroad

(1) Japan's contributions to international standards

In Japan, the Japanese Industrial Standards Committee (JISC) holds a position as one of the standing directors within international standardization bodies such as the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). Furthermore, the Ministry of Internal Affairs and Communications (MIC) has for many years consistently occupied a significant proportion of key positions, including Chairman and Vice Chairman within the International Telecommunication Union (ITU), thereby making substantial contributions to their activities.

Japan's international standardization efforts, based on its industrial competitiveness and technological capabilities, have been advanced through the collaboration of the Ministry of Economy, Trade and Industry (METI), the Ministry of Internal Affairs and Communications (MIC), other concerned government ministries, industry, the academic community, and related organizations. Among these, the long-standing and active participation of Japan's international standardization community—comprising thousands of corporate experts, researchers from academics and national research and development agencies—has been fundamental to supporting Japan's international standardization activities.

In particular, Japan holds 84 posts (4th globally) in ISO and 24 posts (3rd globally) in IEC for the position of "International Secretary," which plays a crucial role in issuing international standards. This demonstrates that Japan's expertise and outreach capabilities are highly valued within the international community. In addition, Mr. Seizo Onoe (former Chief Standardization Strategy Officer, Nippon Telegraph and Telephone Corporation) assumed the position of Director of the Telecommunication Standardization Bureau at the ITU in January 2023.

Furthermore, with the recent acceleration of initiatives aimed at solving global challenges such as climate change countermeasures, biodiversity conservation, and respect for human rights, the development of international standards has become a crucial means to promote behavioral change toward advancing sustainability.

Japan has also actively participated in international consensus-building through the promotion of renewable energy and the standardization of environmental impact reduction technologies.

For example, Japan has a proven track record of playing a leading role in the drafting and proposal stages of International Standards, through efforts such as systematizing evaluation methods for environmental impact assessments and promoting standardization regarding the reliability and safety of solar power systems.

Furthermore, in cutting-edge fields such as AI, digital technology, IoT, and next-generation communications, other nations including Europe, the United States, China, and Asian countries are also advancing international standardization efforts due to their critical importance.

Leveraging the industry-academia-government collaborations framework cultivated to date, Japan is also pursuing initiatives in several fields that emphasize the importance of standardization from the research and development phase.

For example, Japan has actively participated in standard development from the R&D phase in areas such as smart manufacturing, collision avoidance methods, and operation management systems for Beyond Visual Line of Sight (BVLOS) flights of unmanned aerial vehicles, automated driving technology in the mobility sector, and the development and operation of smart cities-related infrastructure.

Therefore, Japan has consistently played a significant role in international standards activities, leveraging its expertise and advanced technological capabilities across various fields. Moving forward, Japan is expected to leverage its accumulated experience to spearhead discussions within the international community on topics such as sustainability and advanced technology, thereby contributing its technological prowess and insights to the global community.

In an era where the formation of international standards influences each nation's competitiveness and global influence, Japan's public and private sectors will closely work together to advance strategic standardization, playing a pioneering role in solving global challenges and creating new markets.

(2) Progress and achievements of public-private initiatives and status overseas (Review of public and private sector initiatives)

Japan has achieved progress in many areas based on the "International Standards Comprehensive Strategy" formulated in 2006. This progress has been made through the coordinated efforts of government ministries and private organizations to advance necessary measures.

Specifically, we have incorporated its technologies and expertise into the international standards-setting process through unified public-private initiatives, including active participation in international conferences and promoting alignment with domestic standards.

Efforts have also been made to strengthen the foundation for advancing standardization activities through public-private collaboration, including revisions to the Industrial Standardization Act, the establishment of the "Standardization System for Creating New Markets", and the promotion of standardization activities by companies and industry associations.

Furthermore, the "Japanese Standard Acceleration Model" compiled by JISC in 2023,

as well as policy documents from concerned ministries and agencies, state that strategic activities encompassing standardization and certification must be implemented from the R&D stage, thereby requiring efforts to strengthen industry-academia-government collaborations.

As part of science, technology, and innovation policy, Japan has also outlined a policy to promote international standardization, focusing on key areas directly linked to solving societal challenges (e.g., AI, quantum).

However, some have pointed out that Japan's international standardization efforts still rely heavily on the personal activities of researchers and others.

At the same time, there is still room for improvement in several areas: enhancing corporate management's understanding of international standards; establishing frameworks to integrate international standardization activities with academia from the R&D phase; evaluating academia's standardization activities; strategically cultivating international standardization human resources; and promoting the adoption and dissemination of standards.

From the holistic perspective, it is also necessary to strengthen frameworks to sustainably follow up on the formulated international standardization strategy and ensure the PDCA cycle functions effectively.

(Overseas situation)

The field of international standards has seen a growing expansion in cross-disciplinary areas in recent years. These areas—such as innovative technologies like digital and generative AI, responses to societal challenges like climate change, and economic security—cannot be addressed by individual companies alone, nor by a single industry or organization.

Today, for example, the scope of international standardization extends beyond traditional products and services to include entire systems, as well as integrated systems of systems. Developing various standards, including interfaces, is essential for ensuring interoperability and system integration across entire value chains, as well as for creating new services. Failing to respond appropriately to this trend could result in missed opportunities for market creation and reduced competitiveness.

Looking at trends in other countries, Europe, the United States, and China have established national strategies for international standards activities, strategically advancing these efforts through collaboration between government agencies and industry.

For example, in Europe, the "New Approach" and similar initiatives have established

a framework ¹ organically linking regulations with international standards and certification systems. These efforts aim to secure leadership not only in the European single market but also in international markets, thereby maintaining global influence.

The United States promotes market-driven standardization while reflecting market characteristics based on diversity. From a security perspective, it also advances a national-level standardization strategy concerning critical and emerging technologies.

Meanwhile, China positions standardization as central to its national strategy, seeking to expand its influence in international standardization through government-led initiatives. Particularly in key areas like digital and communications technologies, it is accelerating collaboration with companies and research institutions to promote its own standards and secure leadership at international conferences.

In this way, each nation is placing standardization activities at the core of its policy, promoting national-level standardization strategies to address challenges that transcend traditional single areas—such as the digital sphere, generative AI, green technologies like climate change countermeasures, and economic security against the backdrop of geopolitical risk.

(Direction of Japan's initiatives)

Japan faces risks such as market contraction due to population decline and aging, delayed adoption of technological innovations like DX and generative AI, and intensifying geopolitical conflicts.

Under these circumstances, active participation in international standards activities is essential to ensure the safety of our citizens while simultaneously expanding our presence in global markets.

Against this backdrop, it is necessary to create new markets through international standards activities, enhance the competitiveness of companies and research institutions, and promote social implementation. It is particularly important to strengthen efforts that consider implementation, including standardization and certification, from the early phase of R&D, and to deepen industry involvement, including management. Furthermore, public-private collaboration is required to rebuild frameworks for human resource development and follow-up, ensuring the continuous functioning of the PDCA cycle.

Through the strategic use of international standards, it aims to simultaneously achieve

Directives on technical harmonization and standards" following the 1985 European Council Resolution, and the "Global Approach Directives on certification and testing" following the 1989

Council Resolution, which complement them.

¹ In this strategy, it refers to the European regulatory framework based on the "New Approach

sustainable economic growth and ensure security while flexibly addressing structural challenges such as domestic population decline and geopolitical shifts, thereby contributing to solving issues facing the international community.

Chapter 2: Strengthening Japan's Initiatives to Solve Challenges through International Standards

(1) Directions for strengthening foundation to realize the future vision

As outlined in the "Introduction", Japan's desired state can be achieved by solving domestic and international challenges and creating markets through International Standard² with public-private partnership. As shown in Figure 1, these efforts involve the following:

"Strategy and Governance", "Standard Ecosystem" and "Initiatives by Industry, Academia, Government, and Finance" as domestic efforts, while also combining "International Collaboration", "Selection and Support of Key Domains and Strategic Domains" and "Monitoring and Follow-up" to implement these initiatives effectively.

² For the purposes of this strategy, the terms "standard and specifications," "international standards," "standardization," "international standardization," and "international standards activities" are organized as follows. Note that this organization may not align with definitions established by ISO/IEC or JIS; it is solely a convenient classification for the purposes of this strategy document.

① Standard/Specification: In JIS, a "standard" is defined as "an arrangement established for the purpose of unifying or simplifying things and non-things, so that benefits or convenience may be fairly obtained among relevant parties." while "specification" is defined as "a document that establishes rules, guidelines, or characteristics for activities or their results, intended for common and repeated use to achieve optimum order in a given situation, established by consensus and approved by a generally recognized body." Specifically, "specification" denotes a documented standard; however, this strategy does not make a specific distinction between "standard" and "specification."

2 International Standards: Standards developed by the International Organization for Standardization (De jure standards, Forum standards) and De facto standards that emerge when specific products or services become widely adopted worldwide (regardless of consensus).

3 Standardization: According to JIS, "the activity of establishing descriptions for common and repeated use, aimed at achieving optimal order in a given situation concerning existing or potential problems." It is further defined as "comprising the process of creating, publishing, and implementing standards." In addition to this content, this term in this strategy also includes the formation of De facto standards.

④ International Standardization: According to JIS, this refers to "standardization in which organizations directly related to standardization in all countries can participate." However, this strategy broadly encompasses the creation, publication, and implementation of standards for the aforementioned "International Standards".

(5) International Standards Activities: This includes activities that pursue international standardization, as well as activities that do not ultimately pursue international standardization, from perspectives such as management, marketing, and social implementation.

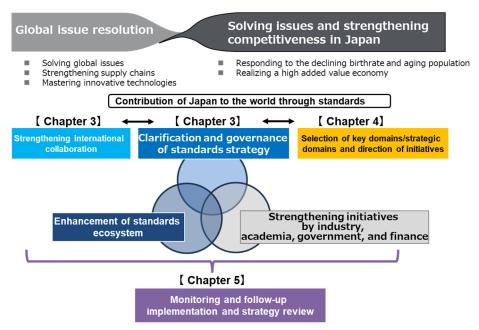


Figure 1: Overview of initiatives under this strategy

While continuing to actively promote compliance with de jure standards in international standardization bodies³ like ISO/IEC/ITU, where Japan has been actively engaged and where various initiatives are expected going forward, we will also pay attention to various forum standards, proprietary standards, and de facto standards, whose activities have intensified in recent years. We will advocate for an effective combination of these approaches to contribute globally.⁴

Additionally, it is essential to recognize that international standardization is not an end in itself, but rather a tool for solving problems and creating markets. Based on this

³ The international standardization bodies are also referred to as Standards Developing Organization (SDO). However, this strategy broadly encompasses not only organizations like ISO that develop De jure standards, as described later, but also organizations that develop Forum standards, including the Institute of Electrical and Electronics Engineers (IEEE). Note that this classification is solely for the convenience of this strategy document.

⁴ Regarding "De jure standards," "Forum standards," and "De facto standards," this strategy classifies them as follows. Note that these classifications do not necessarily correspond to uniquely standardized definitions.

① De jure standards: These are established through consensus among the government, nations, or standard-setting institutions and possess a public character.

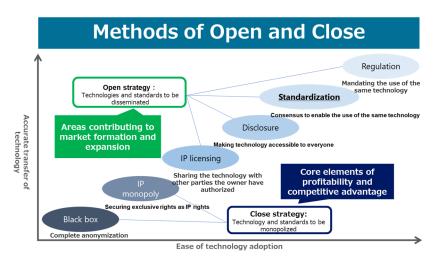
② Forum standards: These are established through consensus among companies and experts involved in specific technologies or product fields and function as loose common rules.

③ De facto standards: These emerge when specific products or services become widely adopted globally without consensus.

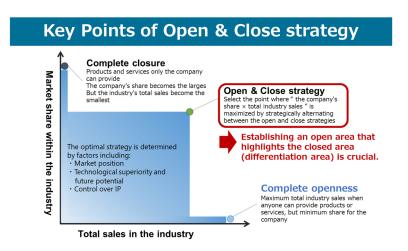
understanding, a comprehensive international standards strategy is indispensable across various areas and sectors that includes the deliberate choice not to pursue international standardization. This strategy must incorporate the building of international partners and the perspective of economic security, which will be discussed later.

For example, based on the Open & Close Strategy, it is necessary to combine or appropriately differentiate various elements such as regulatory compliance, standardization activities, intellectual property management, and know-how confidentiality. Utilizing standards can be considered as a powerful tool for this purpose (see Figures 2[a] and [b]).

Furthermore, when considering standardization, a framework for conformity assessment (certification) of that standard should be examined simultaneously, with an eye toward its dissemination and implementation, while also seeking cooperation from specialized services.



[Figure 2(a): the Open & Close Strategy as a strategic tool for market creation (Source: METI)]



[Figure 2(b): the Open & Close Strategy as a strategic tool for market creation (Source: METI)]

To propose international standards from Japan, it is desirable that the proposed standard has been thoroughly discussed and standardized as a domestic standard. On the other hand, when interoperability is ensured for Japan, international standardization will be promoted not only for standards established domestically in Japan but also for standards established in other countries, while paying attention to interoperability. Additionally, in specific fields where the convenience for Japanese companies is recognized, measures enabling the acquisition of certifications from various countries domestically (utilizing international mutual recognition systems)⁵ will also be encouraged.

(2) Perspectives on economic security

Regarding efforts to advance international standards, measures will be taken based on the perspectives of ensuring autonomy, securing, maintaining, and strengthening superiority and indispensability, and maintaining and strengthening a free, fair, and equitable international economic order.

For example, from the perspective of ensuring autonomy and strengthening supply chain resilience, collaboration with allied countries through the utilization of international standards could contribute to the stable supply of critical materials.

In addition, concerns regarding information leakage through overseas testing of Japan's products and services, as well as risks of malicious interference and information leakage posed by digital architecture, goods, and services entering Japan, can be mitigated by fostering and strengthening domestic certification authorities, collaborating with and

⁵ Mutual recognition refers to participating organizations establishing specific conditions and mutually recognizing the results of conformity assessment (certification). In the context of international mutual recognition under this strategy, it includes the following:

① Mutual Recognition Agreement (MRA) between governments: This involves the government mutually recognizing and accepting the results of conformity assessments conducted in the partner country as equivalent to those conducted domestically, provided they meet the technical standards of the domestic mandatory regulations (e.g., the Japan-EU MRA [Agreement between Japan and the European Community on Mutual Recognition of Conformity Assessment]).

② MRA or Multilateral Recognition Agreement between accreditation bodies: This involves accreditation bodies mutually confirming the technical equivalence of each other's accreditation activities and accepting each other's conformity assessment results (e.g., the International Laboratory Accreditation Cooperation [ILAC], MRA, International Accreditation Forum [IAF] MLA).

3 Mutual Recognition among conformity assessment bodies: This involves conformity assessment (certification) bodies mutually confirming the technical equivalence of testing and certification, and accepting conformity assessment (certification) results (e.g., IECEE/CB Scheme, IQNet) utilizing reliable institutions, and leveraging regulatory and certification systems. Furthermore, in the context of the relationship between standards and patents, such as the Standard-Essential Patent (SEP) and patent pools, patent policies can significantly impact the adoption and competitiveness of standards. Therefore, the relationship between standards and patents, including the implementation status of FRAND terms, will be closely monitored.

(3) Strengthening the basic roles of stakeholders and headquarters functions

Regarding the promotion of international standards activities, the government will focus on establishing foundational frameworks while engaging primarily with specialized organizations such as businesses, universities, etc., a national research and development agency, standards development organizations, accreditation bodies, certification bodies, and testing institutions. Through collaboration with financial institutions, citizens, and NPOs, synergistic effects are expected to be achieved that surpass the impact of individual efforts by each entity.

However, as area-crossing standardization activities expand and to effectively engage in international standards activities from new perspectives such as economic security, it is essential to advance these activities as an all-Japan effort. This requires moving beyond traditional collaboration among stakeholders to achieve unified cooperation between the government and the private sector, including leadership by the government when necessary.

Therefore, monitoring and follow-up will be conducted through public-private collaboration. At the same time, the headquarters function will be strengthened to discuss revisions to the measures, key domains, and strategic domains of this strategy, incorporating economic security perspectives, through a centralized information platform for international standards activities.

(Business operators and industry organizations)

Business operators and industry organizations, as key players in international standards activities, are expected to thoroughly instill the awareness that standards and certifications are essential tools for management and marketing. They should strategically leverage these tools and allocate resources such as human resources and funding to international standards activities.

In doing so, to sustain International standards activities over the medium to long term, efforts are expected to focus on developing and securing a continuous supply of standardization human resources within organizations (e.g., personnel who consider how to utilize standards as part of corporate business strategy, personnel who draft standards proposals and negotiate at international conferences, personnel who work to promote established standard) – including the development of young

professionals and the clarification of appropriate personnel evaluation and career paths within the organization.

In addition, it is expected that the appropriate utilization of specialized services such as testing and certification will contribute to strengthening the competitiveness of the Japanese industry.

It is also expected that proactive disclosure of information regarding international standards activities will promote investment in companies engaged in such activities.

Particularly for startups, including Deep Tech, ⁶ proactive involvement in international standards activities is expected, as international standardization can create entirely new markets.

(Universities, etc./National research and development agencies)

Universities, etc. and national research and development agencies are expected to serve as key players in international standards activities by integrating them with R&D.

To sustain these activities over the medium to long term, they are expected to move beyond relying on voluntary efforts by individual researchers, instead implementing appropriate organizational evaluation of standards activities, cultivating standards human resources, including young researchers, and providing broad educational opportunities.

National research and development agencies, in particular, should actively lead international standards activities, given their public nature, while also fostering human resources and providing educational opportunities.

⁶ This technology is based on scientific discoveries made through research in specific natural science fields. If its commercialization and social implementation can be realized, it has the potential to impact society by solving economic and social challenges that require resolution at the national and global levels.

(Specialized services) ⁷

Specialized services for standardization, certification, testing, and related activities are expected to enhance Japan's international standards activities. As specialized organizations for standards, certification, testing, and related matters, they are expected not only to provide advice to business operators and industry organizations and offer certification and testing services, but also to contribute through human resources provision and solution functions.

In this case, they are expected to function as a source of highly versatile and specialized standardization personnel through measures such as securing human resources.

In particular, accredited industrial standards developing organizations should play a role in the swift formulation of national standards. It is also expected that proprietary standards, to serve as a bridge to international standardization through proprietary standards, such as JSA standards by The Japanese Standards Association (JSA).

(Financial Institutions and Investors)

Financial institutions and investors are expected to support the international standards activities of operating companies through investment and financing activities that evaluate such activities as part of business strategy, based on appropriate disclosure of information regarding these activities and, in particular, the story of medium- to long-term value creation resulting from them.

Given the inherent difficulty for financial institutions and investors to assess the business strategy value of a company's international standards activities, the evaluation is expected to be conducted based on comparable standards, in

⁷ The term "specialized services" as used in this strategy refers to organizations and institutions that conduct the following types of testing, inspection, certification, and accreditation:

① Testing: The determination of conformity to one or more specified requirements of conformity assessment (certification) in accordance with procedures (ISO/IEC 17000)

② Inspection: The examination of product design, products, processes, or fittings, and the determination of conformity to specified requirements or conformity to general requirements based on professional judgment (ISO/IEC 17000).

⁽³⁾ Certification (conformity assessment): Third-party attestation regarding products, processes, systems, or personnel (ISO/IEC 17000)

⁴ Accreditation: Third-party attestation indicating that a conformity assessment body has been formally demonstrated to be competent to carry out specific conformity assessment activities (ISO/IEC 17011)

cooperation with governments and companies.

Furthermore, recognizing that finance acts as a gatekeeper for all industries and can contribute to the international standardization of non-financial disclosures, financial institutions and investors themselves are expected to proactively engage in collaborative efforts with relevant stakeholders.

(Citizens)

Based on an understanding of the significance and purpose of standards and certification, Japanese citizens are expected to promote the international standards activities of businesses and other entities through their consumption of goods and services that utilize such standards and certification.

(Government)

Upon thoroughly recognizing that standards serve as a tool for advancing various policies, the government will support the efforts of the aforementioned entities in international standards activities and promote collaboration among them to enable each to fulfill the expected roles. It will also implement foundational infrastructure development, awareness campaigns, and international collaboration that private entities find difficult to undertake.

The government will also enhance its own expertise and organizational framework for international standards activities. It will also ensure that standardization strategies are considered from the R&D phase in government-led research and development projects. In public procurement, it will actively procure goods and services that utilize international standards and certifications, thereby promoting their use. Furthermore, the government will take the lead in international standards activities when entrusting activities to the private sector could lead to falling behind in international competition or putting economic security at risk.

Additionally, appropriate monitoring and follow-up based on this strategy will be implemented to facilitate Japan's overall international standards activities.

Chapter 3: Specific Measures (See appended table for details)

(1) Strengthening initiatives by industry, academia, government, and finance

(a) Encouraging the business, academic, and financial communities

To widely disseminate the significance of international standards activities to the business community, academic community, and financial community, and to integrate corporate business strategy and academic research and development with international standards activities, an outline of this strategy will be created, disseminated through public-private seminars, as well as efforts will be made to incorporate the content of this strategy into national strategies and other initiatives undertaken by various ministries and agencies.

Additionally, further encouragement will be given for companies to establish Chief Standardization Officers (CSO) and include information in integrated reports, while also promoting the proliferation of understanding among companies and investors.

Furthermore, in specific fields such as agriculture, forestry, fisheries, and food; geographic information; quantum technology; perovskite solar cells; hydrogen and ammonia; bio-based manufacturing; and the data collaboration infrastructure, strategies will be formulated and networks will be built.

(b) Shifting the perspective of corporations, research institutions, and the government.

There is significant potential for integrating international standards activities with corporate business strategy. Through public-private partnerships and digital platforms, the government will promote diverse success cases, cost-effectiveness data, and other information. Regarding successful cases in particular, the government will highlight actual examples in which the industry adopted international standards led by Japan, contributing to market creation and other outcomes.

In addition, efforts will be made to promote appropriate evaluation of international standards activities by staff at national research and development agencies. Universities will also be encouraged to integrate research and development with international standardization activities at an early stage and to evaluate them appropriately. Meanwhile, educational programs will be developed based on dissemination and demonstration activities at various academic societies related to standardization.

Additionally, based on the accreditation system for the Specific New Demand Development Project Activity Plan established under the revised Industrial Competitiveness Enhancement Act passed during the 2024 ordinary session of the National Diet, the government will support private companies, universities, and academia in formulating the Open & Close Strategy from the R&D stage; it will also

undertake awareness-raising activities concerning the consideration of the Open & Close Strategy from the R&D stage.

Moreover, awards recognizing human resources and organizations with outstanding achievements in standardization activities will continue. Support for surveys leading to standardization and awards will also continue to be promoted in specific sectors such as the telecommunications field, medical devices, agriculture, forestry, fisheries, and food, as well as services.

Meanwhile, the government itself will thoroughly recognize that international and domestic standards are effective tools for implementing various policies. To this end, the government will share successful cases and select areas in which to take the lead proactively.

(c) Utilizing standards in public procurement and subsidies.

Based on provisions such as the respect clause⁸ for Japanese Industrial Standards (JIS) stipulated in the Industrial Standardization Act, and to encourage standard development and certification acquisition through public procurement and subsidies, the government will assess the utilization status of standards and certifications—including those from international organizations—in public procurement and subsidies both domestically and internationally. It will also ensure thorough implementation across ministries and agencies of the use of national standards such as JIS and JAS, as well as international standards, in procurement and related activities, while monitoring the progress and achievements.

(d) Incorporating standardization from the R&D stage.

Since it may be premature to begin considering standardization only after R&D is complete, government ministries and agencies should be urged to incorporate standardization at an early stage within their R&D support programs, and the progress and achievements on this should be monitored.

Furthermore, in specific fields such as Beyond 5G, the Green Innovation Funding, and maritime, port, and airline technologies, where standardization efforts have already been undertaken from the R&D stage with market creation in mind, these

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⁸ Article 69 of the Industrial Standardization Act (Act No. 185 of 1949) stipulates that "When the national government and local government bodies establish technical standards concerning mining and industry, specify specifications for industrial products they procure, or otherwise establish certain standards concerning the matters listed in each item of Article 2, Paragraph 1 in the course of performing their duties, they shall do so with due regard to Japanese Industrial Standards."

initiatives will continue to be promoted.

(e) Enhancing the effectiveness of support from the government.

For projects where international standardization is the primary or partial objective, analysis of their effectiveness will be conducted to maximize cost-effectiveness by efficiently utilizing limited resources (wise spending) from the government and private resources in international standards activities.

(2) Enhancing the standard ecosystem

(a) Reinforcing the human resource development system.

The development of various types of standardization human resources and the formation of teams with diverse talent are critical for sustained International standards activities. Therefore, the government will facilitate the development of standardization human resources through a cross-cutting digital platform.

Additionally, efforts will be made to deploy the Standardization Human Resources Directory (STANDirectory), expand it horizontally starting from model projects at universities, etc., provide training for standardization personnel, and establish frameworks to evaluate standardization activities within academia.

Furthermore, in specific fields such as the telecommunications field, medical devices and regenerative medicine products, agriculture, forestry, fisheries, and food, BIM/CIM and construction, and airline decarbonization, the creation and education of the required skill sets and programs/curricula for standardization human resources will be pursued.

(b) Developing and strengthening specialized services and increasing their utilization.

Developing and strengthening specialized organizations involved in standards, such as standards development, certification, and testing, provides options for utilizing external human resources and services beyond their own organizations. This applies not only to large corporations but also to SMEs, startups, and others pursuing domestic and international standardization. Ultimately, these efforts are expected to enhance Japan's overall international standards activities.

Specifically, for SMEs and startups to engage in international standardization, they must be able to readily access specialized human resources and specialized services. Furthermore, even large corporations can enhance the credibility of their products and services by adding transparency through external certification and accreditation processes.

Therefore, through the creation of a platform that makes these specialized services

more visible, standards development, including domestic and proprietary standards, as well as the utilization of certification and testing services will be promoted. This will also facilitate collaboration across areas among specialized service providers. Furthermore, in collaboration with specialized organizations, support for standardization utilization by medium-sized companies, SMEs, and startups will be sustained and strengthened. Additionally, efforts will be made to enhance domestic certification authorities and testing institutions' compliance with overseas regulations through promoting collaboration with and acquisitions of foreign certification bodies. Concurrently, strengthening will be pursued through human resource development for GX-ETS Phase 2 readiness and fundamental efficiency improvements in certification operations. Further efforts will be made to expand the potential possibility of utilization of certification authorities. Support will also be provided to promote the use of international mutual recognition and enhance domestic testing facilities.

Moreover, from an economic security perspective, the possibility of utilization of domestic certification and testing institutions will be analyzed.

(c) Promoting regulations, standards, and certifications in an integrated manner.

The integrated promotion of regulations, standards, and certifications in Europe (known as "New Approach") can enhance the effectiveness of standards, enable flexible regulatory reviews, reduce government enforcement costs, and contribute to strengthening international competitiveness. Meanwhile, the benefits of non-legally binding standards should also be fully leveraged.

Therefore, regarding the New Approach, the advantages and disadvantages should be systematically analyzed, and integrated promotion should be encouraged in areas where the benefits are significant.9

framework.

⁹ For example, there is a case where, in conjunction with international standardization related to the quality of care services, consideration of a risk-based certification scheme has begun, based on the current law

(3) Clarification and governance of standards strategy

(a) Establishing a public-private partnership platform to perform headquarters functions.

In addition to the collaboration between relevant industries and concerned government ministries in pursuing activities across various areas of international standards, a public-private partnership forum will be established. This forum will undertake cross-disciplinary monitoring and follow-up, including evaluation, analysis, and information sharing, as well as strategic review, to ensure swift and appropriate responses to issues with strong externalities—such as cross-disciplinary fields, emerging areas, or economic security—that are difficult for individual industries to address alone. At the same time, public-private networks at the government and private overseas offices and overseas diplomatic establishments will also be strengthened.

In addition, public-private partnerships will be sustained and strengthened in specific fields such as the telecommunications field, fusion, agriculture, forestry, fisheries, and food, quantum technology, perovskite solar cells, hydrogen and ammonia, bio-based manufacturing, the data collaboration infrastructure, construction machinery and architecture, ports, airline decarbonization, water and sewage, and climate change, circular economy, and nature positive initiatives.

(b) Building frameworks for sharing and matching knowledge, expertise, and human resource information.

In addition to relevant industries and concerned government ministries sharing knowledge, expertise, and human resources information regarding international standards activities across various areas, a framework, such as a digital platform, will be established. This platform will centrally aggregate information on international standards activities across diverse fields and details on specific international standards, including contact points for inquiries. It will facilitate cross-sectoral sharing of expertise and matching of personnel as needed, enabling a unified All-Japan approach.

Furthermore, information sharing between the public and private sectors will be pursued in specific fields such as the telecommunication field, fusion, agriculture, forestry, fisheries, and food, as well as airline decarbonization.

(c) Reinforcing coordination among ministries and agencies, and among national and local governments.

Through bodies such as the "Task Force for Promoting the Utilization of Standards," composed of ministries and agencies advancing international standards strategies, information sharing will be facilitated regarding international standards activities within each ministry and agency, as well as measures to promote them. This

will foster collaboration toward the implementation of effective, government-wide policies concerning international standards.

(4) Enhancing international collaboration

(a) Working to develop human resources for international standardization and foster networking.

To foster international partnerships through human resource development, in addition to cultivating international standardization professionals in each field, a framework for collaboration will be established to develop cross-disciplinary standardization expertise.

In addition, beyond international standardization organizations like ISO, active participation in UN agencies and international organizations (including MDBs [multilateral development banks]) and international conferences that influence international standardization, such as the Forum Standard, as well as securing key positions in such organizations, will be pursued. Collaboration and cooperation with Japanese nationals stationed overseas will also be promoted.

(b) Facilitating the use of international mutual recognition arrangements, regulatory harmonization, and the adoption of standards.

Concerning certifications and regulatory procedures required by partner countries when exporting Japanese products and services, from the perspectives of enhancing convenience and safety for Japanese companies, fostering certification authorities, promoting international standards established through Japan's own initiatives, and incorporating domestic standards as national standards in other countries, we will promote the use of international mutual recognition, regulatory harmonization, and the adoption of standards. Particular emphasis is placed on the telecommunications field, fusion, pharmaceuticals, and medical devices, agriculture, forestry, fisheries, and food sectors, smart farming, airline decarbonization, ports, automobiles, logistics, urban models, water disaster prevention, urban digital twins, trade, and eco-labels;

(c) Strengthening cooperation with ASEAN countries and other countries.

Building on the strengths Japan has accumulated over time, a cross-sectional cooperation framework will be established to strengthen collaboration with ASEAN countries and allied countries.

Efforts will also include cooperation with ISO Regional Coordinators, IEC Regional Offices, and standard-setting institutions, as well as participation in relevant ASEAN meetings, the APEC Standards and Conformity Subcommittee (SCSC), the Northeast Asia Standards Cooperation (NEAS) Forum, and the Pacific Area Standards Conference (PASC).

Moreover, in specific sectors such as the telecommunications field (Asia-Pacific Telecommunity [APT]), pharmaceuticals and medical devices (Asian Training Center for Pharmaceuticals and Medical Devices), smart farming, GHG reduction and absorption technologies, smart cities, ports, automobiles, microplastics, and the circular economy, regional frameworks and technical cooperation and collaboration with individual countries will be reinforced.

(d) Holding an international conference on international standards in Japan.

By hosting international conferences on international standards in Japan or placing international standards on the agenda of conferences held in Japan, we hope to enhance Japan's presence in international standards activities while fostering awareness within industry and the academic community and building international networks.

In addition to steadily advancing pioneering initiatives in the telecommunications field (ITU-R), international conferences on standards will also be hosted in other specific fields.

Furthermore, while promoting the hosting of international conferences in specific fields within ISO and IEC, specific preparations will be advanced for inviting the 2029 IEC General Meeting to Japan.

Chapter 4: Selection of Key Domains and Strategic Domains and Direction of Initiatives

(1) General overview

From Japan's perspective, we must concentrate our limited international standardization resources by selecting domains that are important to the international community and where international standards are a key solution. This is to achieve the resolution of international social issues and the creation of new markets through collaborative international standardization activities, ultimately leading to the resolution of domestic social issues and the strengthening of Japan's competitiveness. Examples of such domains include the following;

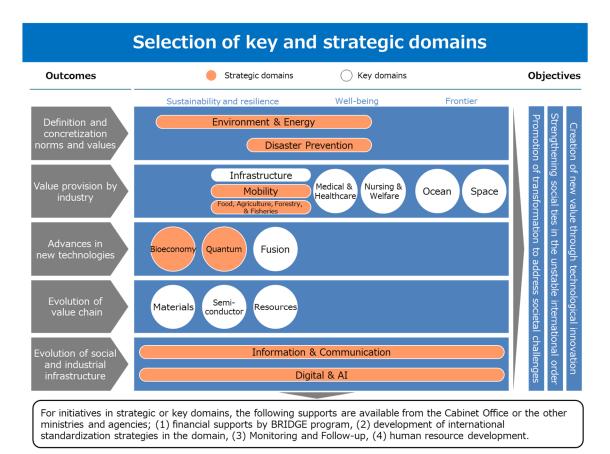
- A field requiring transformation from the current situation
- A field where strengthened cooperation through international standards is needed due to instability in the global order
- A field where technological innovation creates new value that transcends existing industry boundaries

Based on opinions from government ministries, experts, private companies, and other stakeholders, we selected 17 key areas as shown in Figure 3, (2) and (3). Furthermore, from these key domains, based on their maturity and the urgency of response, we selected eight "Strategic Domains" including "Environment and Energy," "Digital and AI," and "Information and Communication."

Going forward, in these key domains and strategic domains, both the public and private sectors will strengthen international standards activities (immediately for strategic domains and over the medium to long term for key domains), aiming to develop and promote domestic and international standards. To this end, more detailed international standardization strategies will be formulated and implemented for each domains, and appropriate monitoring and follow-up will be conducted. Efforts will also be made to cultivate human resources responsible for international standardization activities and to actively participate in international meetings. For example, in specific fields within key and strategic domains characterized by high uncertainty (e.g., GX, DX), the government will take the lead in strategic standardization activities. In addition, for each strategic and key domain, appropriate KPIs (Key Performance Indicators) will be set based on the specific circumstances of each field, such as securing key positions and the number of international standards proposals to achieve the desired goals. These selected key and strategic domains for international standards is provisional and highly flexible; the currently selected domains are not fixed. And the domains will undergo appropriate additions, deletions, revisions, and version upgrades through ongoing monitoring of international standards activities by both public and private sectors, annual follow-ups, and interim and final reviews of this strategy.

Going forward, we will verify whether international standardization activities in these key and strategic domains contribute to solving challenges of the international community and creating markets, and whether they ultimately contribute to Japan's economy, including GDP, and support Japan's growth strategy. In addition to analyses by individual key and strategic domains, consideration and analysis of cross-area international standards will also be advanced, anticipating the interconnection and linkage between domains such as "Digital and AI," "Environment and Energy," and "Information and Communications," as exemplified by the Watt-Bit collaboration¹⁰.

¹⁰ It is the effective integration of power and communications through the establishment of efficient power and communications infrastructure.



[Figure 3: Selection of key and strategic domains]

(2) Strategic domains

(a) Environment & Energy (climate change, energy, GX)

- The 2050 net-zero target is a goal that remains unwavering in the medium to long term, despite current setbacks such as stalled efforts due to geopolitical factors and increased energy consumption driven by generative AI. In the future, expanding innovation and investment toward a stable energy supply and economic growth through decarbonization by the international community and Japan will be essential.
- At this time, Japan will contribute to each country's transition by presenting realistic solutions for decarbonization, tailored to each nation's circumstances, while leveraging Japan's technology and expertise.
- Therefore, Japan will advance international standardization regarding concept and management for transition, evaluation methods at the manufacturing process and product level, GHG emissions calculation and reporting, and rules for credit utilization.
 - (**Potential target for initiatives: Renewable energy, fuel resources [e.g., hydrogen, ammonia], renewable energy-related products [e.g., solar panels, storage batteries (lithium-ion batteries, redox flow batteries, sodium-sulfur batteries, etc.)],nuclear

power, energy management systems [e.g., smart grids], energy-saving technologies [e.g., inverters], regional/building energy utilization [e.g., ZEB/ZEH, CES], CO₂ reduction in manufacturing processes [e.g., CO₂ reduction in steelmaking processes], negative emissions [e.g.,CO₂ storage/sequestration in the ocean, CCS/CCUS], CO₂ utilization(e.g., methanol, methanation, synthetic fuels, artificial photosynthesis, concrete], sustainable finance, carbon pricing, carbon credits, and methodologies/protocols for estimating or calculating GHG [greenhouse gas] emissions.

[Cabinet Office (Secretariat of Science, Technology and Innovation Policy), MEXT, MAFF, METI, MLIT, MOE]

(b) Environment & Energy (symbiosis with nature)

- Given that much economic activity depends on natural capital, the situation of
 accelerating biodiversity loss poses a clear risk to the sustainability of our
 economies and societies.
 - Consequently, international discussions on transitioning to a Nature Positive economy are intensifying. This is an economy that achieves the global goal of halting and reversing biodiversity loss by 2030. There are ongoing discussions regarding disclosure frameworks and target setting, such as those proposed by the Taskforce on Nature-related Financial Disclosures (hereinafter "TNFD"). However, datasets on natural capital reflecting the unique characteristics of regional ecosystems remain underdeveloped. Challenges also exist in monitoring methodologies, indicator setting, and utilization; thus, establishing a framework to pursue synergies in the transition towards Nature Positive, Carbon Neutral, and a Circular Economy is essential.
- In this context, Japan will contribute to an effective transition to nature positive, collaborating with other countries while taking into account each nation's regional specificities and aligning with international trends such as the Convention on Biodiversity and TNFD.
- For this purpose, international standardization will be advanced for: concept and management for symbiosis with nature; unique indicators and datasets for information disclosure; evaluation methods at the product level to promote naturepositive products and services; and valuation and trading rules for natural capital and biodiversity.

(**Potential target for initiatives: Biodiversity conservation and restoration [e.g., OECMs], protection and restoration of natural capital [e.g., ceramic membrane

treatment, UV-LED treatment, nitrogen-phosphorus recycling systems for water resources], biotechnology, environmentally conscious primary industries, green infrastructure, NbS, Eco-DRR, monitoring, measurement, and visualization protocols for ecosystems and biodiversity [observation, assessment (including indicator development), and prediction of ecosystems and biodiversity], sustainable finance, biodiversity value transactions, and others)

[MAFF, METI, MLIT, MOE]

(c) Environment & Energy (circular economy)

- Resource procurement risks are increasing due to resource hoarding and other
 factors driven by rising demand. Additionally, environmental challenges such as
 climate change, carbon neutrality, waste management, and plastic pollution
 require continued response. The concept of a "circular economy," which
 addresses these challenges through resource efficiency and resource circulation
 approaches while creating opportunities for success, is gaining global traction.
 However, efforts to quantify impacts, collect data, and develop business models
 for various resources remain in progress.
- In doing so, along with developing circular economy businesses related to resource recycling derived from Japan's advanced technological capabilities and services utilizing goods history data, we will contribute to the transition toward a global circular economy. This will be achieved through developing circulation indicators aimed at appropriately evaluating circular performance and disclosing information on corporate circular economy initiatives, while also ensuring autonomous resources.
- Therefore, international standardization will be advanced for resource recycling technologies such as 3R, management of corporate partnerships, data management for product environmental information, eco-design tailored to each product's actual characteristics, regulations and systems related to the circular economy, circulation indicators, and information disclosure schemes, and others

(**Potential target for initiatives: resource recycling technologies and equipment [e.g., 3R (reduce, reuse, recycle technologies and equipment, incineration technologies and) equipment], circular economy businesses [e.g., value networks, eco-design, remake, upcycling, remanufacturing businesses], Utilization of renewable and underutilized resources [e.g., utilization of biomass resources, biomanufacturing, SAF production from waste cooking oil], resource recycling data management, data platforms, circularity measurement methods, indexing, protocols, circularity information disclosure scheme, and others)

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy), CAA, MAFF, METI, MLIT, MOE】

(d) Food, Agriculture, Forestry & Fisheries

- Against the backdrop of growing global food demand, increasing instability in food production, and accelerating movements prioritizing SDGs and the environment, both productivity enhancement and sustainability in food, agriculture, forestry, and fisheries are essential. Additionally, the international food market is expanding, increasing the potential customer for Japanese agricultural, forestry and fishery products and food. Simultaneously, diverse values regarding food are emerging, such as growing health consciousness in various countries. It is necessary to respond appropriately to these trends and enhance the productivity and added value of the global food, agriculture, forestry, and fisheries industries.
- In this regard, Japan will contribute to the sustainable food supply, food safety, and nutritional improvement globally and domestically. This will be achieved through the overseas deployment of technologies related to smart and environmentally friendly agriculture, as well as the international promotion of high-quality, high added value products and diverse, nutritionally balanced diets.
- To achieve this, international standardization will be advanced for technical requirements for smart and environmentally friendly agriculture, definitions and testing methods for high-quality, high added value agricultural, forestry and fishery products and food, and concepts for evaluating nutrition across entire meals.

(**Potential target for initiatives: high-quality, high added value agricultural, forestry and fishery products and foods [e.g., products targeting overseas markets, high-functionality bio-materials], sustainable agriculture, forestry, fisheries and food industries [e.g., smart farming, food tech/food chain, sustainable aquaculture, nutritional evaluation of foods], GHG reduction and absorption [e.g., forest absorption, paddy field management, soil carbon sequestration])

【CAA, MOFA, MHLW, MAFF】

(e) Disaster Prevention

 Amid increasing threats from natural disasters caused by global climate change and other factors, discussions and plans to reduce disaster risk are being advanced through initiatives including the "Sendai Framework for Disaster Risk Reduction 2015–2030" and the "G20 Disaster Risk Reduction (DRR) Working Group." While the international community faces the challenge of continuously developing infrastructure to prepare for natural disasters, sharing disaster information, and ensuring thorough preparedness, Japan's international contribution to disaster prevention measures using its own technologies is still in its early stages.

- Japan aims to reduce disaster risks and losses to lives, livelihoods, health, and
 assets worldwide by sharing our disaster prevention expertise and technologies
 internationally. We will also continue to advocate for the importance of disaster
 prevention in international arena, in coordination with these efforts.
- To this end, international standardization will be pursued for disaster risk finance to induce investment in pre-disaster preparedness, for defining requirements for high-quality infrastructure, and for data standards to share disaster information.

(**Potential target for initiatives: high-quality infrastructure development and maintenance technologies [e.g., seismic resistance and vibration isolation technologies for buildings, disaster-resilient infrastructure construction and methods, diagnostic technologies for aging infrastructure and life extension technologies], water disaster prevention and related services [e.g., resilience, sensors (observation), risk assessment, simulation, warning systems, data integration, disaster countermeasure supplies, insurance services], and others)

【Cabinet Office (Director general for policy planning [Disaster Managemen]), METI, MLIT】

(f) Digital & AI (digital)

- While digitalization is essential for enhancing societal productivity and economic growth, ensuring security against increasing cyberattacks is indispensable. As each nation advances digital technology innovation andrulemaking, fundamental frameworks concerning reliability, such as unified formats for data integration, identity certification, and data authenticity, remain unestablished.
- To this end, Japan will aim for the free cross-border data flow under the principle of Data Free Flow with Trust (hereinafter referred to as "DFFT"). We will also promote data utilization, improve the data utilization environment, build the foundation for secure data flow, accumulate use cases in specific fields where Japan possesses expertise, enhance the productivity of society at large, as well as promote support and cooperation for developing countries and others facing data disparities.

 To achieve this, initiatives will be advanced that lead to international standardization, including the development of interoperable digital identities.
 Furthermore, international standardization will be pursued for data space specifications and the interconnection with overseas data spaces, ensuring secure data flow within the data integration platform.

(**Potential target for initiatives: digital public infrastructure, data spaces [e.g., Ouranos Ecosystem], robotics and smart manufacturing, computer architecture [including the data integration platform and IoT], cybersecurity and trust [including DFFT], and others)

[Digital Agency, MIC, METI]

(g) Digital & AI (AI)

- AI is a technology that could fundamentally transform competitive environments across all fields. While rapid technological innovation progresses internationally, challenges concerning safety standards, copyright protection, and privacy protection are becoming increasingly apparent. Making international rules that facilitate coordinated AI utilization among nations and adopting an international contribution perspective that enables developing countries to benefit from AI technology are crucial. Under Japan's presidency, the 2023 G7 Hiroshima Summit launched the Hiroshima AI Process to explore international rules for generative AI. To realize safe, secure, and trustworthy AI, we led international discussions, including the development of "International Guidelines for All AI Stakeholders" and an "International Code of Conduct for Organizations Developing Advanced AI Systems." In February 2025, the reporting framework for the International Code of Conduct began operation. Currently, the Hiroshima AI Process Friends Group is also being utilized to enhance AI governance in countries and regions, including developing nations, working toward the global realization of safe, secure, and trustworthy AI.
- In doing so, we will expand markets to advance social acceptance and technological development, promote AI utilization in new fields such as robotics, and contribute to solving international social challenges.
- Accordingly, international standardization will be promoted concerning AI
 safety requirements, data quality, structure, and format necessary for data
 analysis and machine learning, area-specific AI, and safety and operational
 standards contributing to the widespread adoption of robots that collaborate
 with humans.

(*Potential target for initiatives: generative AI, AI safety)

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy), Digital Agency, MIC, METI】

(h) Mobility

- In the mobility sector, innovation is advancing through proactive DX-related investments alongside efforts toward carbon neutrality. Meanwhile, in Japan, against the backdrop of mobility refugees due to aging and labor shortages in logistics, demonstrations for social implementation is progressing. In addition to the technological implementation of next-generation mobility (airline, vessels and vehicles), establishing regulations for the data integration platform and emerging technologies is essential.
- Japan must pursue enhanced safety, compatibility, and environmental performance in next-generation mobility to accelerate technology adoption. At the same time, we will build a foundation supporting global economic growth through technological development, creating use cases, data preparation, and reducing environmental impact.
- To this end, international standardization will be advanced for logistics data formats, enabling inter-vendor and inter-system integration, safety and environmental performance requirements for next-generation aircraft and ship, performance evaluation for railways and ports, as well as safety testing standards for onboard batteries in next-generation vehicles.

(**Potential target for initiatives: next-generation vehicles [e.g., SDVs, autonomous driving, EVs, all-solid-state batteries], next-generation aircrafts, next-generation ships, drones, railways and ports, MaaS, logistics systems, and others)

【Cabinet Secretariat (Infrastructure Export and Economic Cooperation), MLIT, METI】

(i) Information & Communication

• Regarding Beyond 5G, the next-generation information and communications infrastructure, various international initiatives surrounding R&D and international standardization have expanded in recent years. Concurrently, new environmental changes have emerged, including international trends concerning the autonomy of information and communication networks and technological

- supremacy, structural changes within the information and communication industry, as well as the explosive proliferation of AI.
- AI, as it is increasingly utilized across various societal domains, will generate and facilitate the distribution of the data necessary for its learning and advancement. As a result, this could accelerate the growth of communication traffic and increase power consumption. It is crucial to realize Beyond 5G with low latency, high reliability, and low power consumption, which will support the AI society of the 2030s, at an early stage within information and communication networks.
- Therefore, international standardization will be advanced in areas where Japan possesses strengths, including all-optical networks, non-terrestrial networks (NTN), and radio access networks (RAN).

(**Potential target for initiatives: Beyond 5G [e.g., all-optical networks, NTN, RAN] and others)

(MIC)

(j) Quantum

- Quantum technology is expected to develop to solve societal challenges such as
 the SDGs and decarbonization. Internationally, efforts by private companies,
 including startups, for R&D and industrialization of quantum computers,
 quantum sensing and materials, and quantum cryptography communications are
 accelerating. Meanwhile, quantum computers feature complex architectures,
 which makes international collaboration, including patent handling, a challenge.
- As for Japan, in the quantum computer market, efforts will focus on applications (manufacturing), hardware (component/material development), and high-added value software (algorithms). For quantum cryptography, the development of quantum key distribution (QKD) technology will advance. In quantum sensing, the enhancement and strengthening of the technological infrastructure supporting utilization will be pursued.
- To this end, international standardization will be promoted: for quantum computers, in areas such as algorithm performance evaluation and component material standardization; for quantum cryptography, in areas such as network protocols and implementation security certification for QKD devices; and for quantum sensing, in areas such as component material performance evaluation.

(** Potential target for initiatives: quantum computing [e.g., applications, software, hardware], quantum security and quantum networks [e.g., quantum cryptography],

quantum sensing and materials)

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy), MIC, METI】

(k) Bioeconomy¹¹

- Investment and rulemaking related to the bioeconomy are accelerating worldwide as a means to contribute to solving various social challenges, including GX, the circular economy, nature-positive initiatives, and food security. On the other hand, there are concerns that biomanufacturing currently faces limited market potential, posing risks of insufficient investment and technological development.
- Accordingly, Japan will contribute to building the global bioeconomy by enhancing microbial improvement and manufacturing technologies for biomanufacturing, while also raising awareness of bio-derived products.
- To this end, international standardization will be advanced regarding the
 conceptualization of added value in biomanufacturing, safety standards for
 biomanufacturing, the establishment of biomanufacturing technologies, and
 quality requirements and certification for bio-based products.

(**Potential target for initiatives: biomanufacturing and bio-derived products, including microbial and cell engineering platform technologies, large-scale microbial cultivation, fermentation and other production technologies, related measurement technologies, and evaluation methods for environmental impact reduction effects, among others)

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy), MEXT, MAFF (Forestry Agency), METI, MOE】

(3) Key Domains

(I)Nursing care and welfare

 As aging populations advance in developed countries and increasingly in developing countries, Japan stands at the forefront of the "100-year life era,"

¹¹ This section primarily focuses on biomanufacturing and bio-derived products. Sustainable agricultural production systems are covered under food, agriculture, forestry, and fisheries, while biopharmaceuticals fall under medical and healthcare.

facing challenges ahead of the world. It is expected to contribute to the international community through its insights and technologies. The demand for nursing care services is also rising, making the balance between quantity and quality of care a critical issue. Furthermore, as the demand for care is projected to grow globally, resolving the shortage of care human resources is essential.

- Accordingly, Japan will contribute to the international community's response
 to aging societies and disability welfare by raising awareness of the importance
 of healthy life expectancy, sharing expertise in welfare equipment and care, as
 well as disseminating welfare equipment, among others.
- Therefore, Japan will advance international standardization in areas such as high-quality care services through quality and safety criteria, guidelines for using welfare equipment, and safety and quality assessments for care technologies including service robots.

*In this domain, it should be noted that internationally, efforts should begin with fostering awareness regarding the quality of care services.

(**Potential target areas for initiatives: nursing care services, assistive devices for persons with disabilities, nursing care technology, and others)

[Children and Families Agency, MHLW, METI]

(m) Infrastructure

- Regarding infrastructure, which serves as a vital foundation for national lives
 and economic activities, environment-conscious green infrastructure and datadriven infrastructure management have been advanced worldwide in recent
 years. To achieve sustainable and efficient infrastructure development, it is
 essential to address challenges such as shortages of resources, know-how, legal
 frameworks, and human resources for infrastructure maintenance and
 management.
- At this point, Japan aims to develop efficient global infrastructure by providing infrastructure services tailored to each country's circumstances, including long-term initiatives such as Operation and Maintenance (O&M).¹²
- Therefore, Japan will advance international standardization in area such as regarding Building/Construction Information Modeling and Management

¹² Operation and Maintenance

(BIM/CIM¹³) standards and guidelines, 3D city models,¹⁴ and other related technologies. These are initiatives toward to establish data formats and usage guidelines suitable for utilizing Japanese technologies, constructing disaster-resilient smart cities through the integration of infrastructure systems with disaster prevention technologies, and undertaking efficiency improvement measures for construction production and management systems.

(**Potential target areas for initiatives: location and geospatial information, infrastructure [e.g., roads, ports, water and sewage systems], construction machinery, BIM/CIM, smart cities and urban development, regional revitalization [related to infrastructure development], and others)

【Cabinet Secretariat (Infrastructure Export and Economic Cooperation), Cabinet Office (Secretariat of Science, Technology and Innovation Policy), MOFA, MLIT】

(n) Fusion¹⁵

 Fusion energy is gaining global attention as a solution that addresses both climate change and energy stable supply simultaneously. While each country is pursuing development through the government's strategies and international collaborations like ITER, the complex architecture presents high technical challenges, making the development and manufacturing of efficient reactors, improving power generation efficiency, as well as establishing safety standards key challenges.

- Japan will contribute to the implementation of fusion energy by starting with component manufacturing and material supply, while also engaging in the development of diverse reactor types and ensuring safety.
- Accordingly, we will promote international standardization concerning conceptual frameworks and safety standards related to the safety and utility of fusion energy, design and construction specifications of fusion reactors,

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¹³ Building/Construction Information Modeling, Management

¹⁴ Regarding the field of 3D city models, which are being developed and utilized domestically, in collaboration with international standards organizations working on the standardization of geospatial information, efforts are being made to cooperate in the formulation of new standards.

¹⁵ In this case, it refers to the area concerning the utilization of energy released by nuclear fusion (fusion energy), such as for electricity generation.

material standards of components, welding standards and quality testing standards, as well as tritium management, measurement equipment, and safety management systems.

(**Potential target areas for initiatives: fusion energy [plasma physics, radiation, blankets; fuel cycle; heat transport and power generation; superconductivity and magnetic field technology; materials and components])

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy), MEXT】

(o) Space

- As humanity's area of activity expands into space, the potential applications, such as disaster prevention using space systems and next-generation communications, have broadened the scope of space activity leaders from government-led initiatives to public-private collaboration, resulting in the global surge of commercial space activities. Furthermore, this sector holds critical importance from a security perspective. To expand the space industry infrastructure and address challenges on Earth, technological innovation in space and the development of a supportive business environment are crucial.
- Japan will contribute to space development through international cooperation by expanding its space industry infrastructure, centered on satellite manufacturing technology, know-how, and the provision of space solution services.
- Therefore, international standardization will be advanced for norms, of safety standards for cooperative space development, and measures to prevent space debris generation.

(**Potential target areas for initiatives: space equipment [including small satellites], satellite data, new services [e.g., resources development, transportation, space debris recovery])

[Cabinet Office (National Space Policy Secretariat), MEXT, METI]

(p) Semiconductor

• In the modern age where digitalization has advanced, semiconductors have become essential core components for all industries, with the importance of semiconductors expected to continue growing. Furthermore, the dramatic expansion of information processing through generative AI and quantum

computers is projected to further increase semiconductor demand. Under these circumstances, supply chain risks from a geopolitical perspective, along with energy and resource conservation to reduce environmental impact, also pose significant challenges.

- Japan will strengthen the semiconductor production infrastructure while advancing both performance improvements and environmental impact reduction in areas where Japan possesses technological strengths, including power semiconductors, components and materials, and manufacturing equipment, thereby contributing to the stable global supply of semiconductors.
- To this end, international standardization will be promoted for semiconductor performance and manufacturing requirements that prioritize energy efficiency and environmental considerations, as well as for semiconductor testing and evaluation methods and authenticity assurance.

(**Potential target areas for initiatives: logic semiconductor, memory semiconductor, power semiconductor, etc.; component material, manufacturing equipment, and others)

(METI)

(q) Materials

- As awareness of the SDGs grows, material innovation is essential for realizing
 a sustainable society. At the same time, meeting the diversifying global
 material needs requires efficient manufacturing in a short timeframe, making
 it necessary to improve data-driven development efficiency and
 environmentally conscious business flow for sustainable and efficient
 manufacturing.
- Japan will enable the enhancement of material performance and the fulfillment
 of diverse needs through the optimization of R&D efficiency and
 environmentally conscious manufacturing processes, as well as support
 globally environmentally conscious manufacturing, thereby contributing to
 solving global social issues.
- To this end, international standardization will be advanced for specifications related to sustainable manufacturing, measurement methods and quality evaluation for functional materials, and data standards anticipating the transition to data-driven R&D.
 - (**Potential target areas for initiatives: Innovative materials [e.g., carbon fiber, ultra-high-performance ceramics, cellulose nanofibers, permanent magnets,

next-generation elements, rare metal/rare earth-free materials], materials informatics and process informatics [including operando measurements], and others)

[MEXT, METI]

(r) Resources

- In recent years, global demand for green products has expanded alongside progress in carbon neutrality initiatives, and mineral resources are essential for their manufacture. Meanwhile, each country demands "responsible procurement," strengthening management and traceability of supplier. Furthermore, the supply chains for many mineral resources are concentrated in specific countries, making a secure supply a challenge. For the sustainable use of mineral resources going forward, the advancement of mining and recycling technologies, along with the development of environment-conscious technologies for resource development, is indispensable.
- Japan will promote the stable procurement of mineral resources while aiming for the sustainable utilization of mineral resources in each country through sustainability-conscious manufacturing.
- To achieve this, international standardization will be advanced for sustainable manufacturing standards and for quality evaluation of components using resource-saving and alternative materials.
 - (

 Potential target areas for initiatives: rare earths, rare metals, base metals, sustainable raw materials and supply chains)

[METI]

(s) Ocean

- As demand for green energy and related technologies grows, the development
 of ocean resources is gaining attention worldwide. To ensure a stable supply of
 resources going forward, cooperation with countries along sea lanes in the field
 of maritime security, for example, will be necessary.
- We will promote active development and utilization, taking into consideration the possibility of sustainable development and use of ocean resources.
- Furthermore, by introducing more advanced navigation equipment, maritime safety and economic security will be enhanced. To this end, international standardization will be promoted regarding VDES performance and technical standards, particularly concerning the assurance of navigational safety.

(**Potential target areas for initiatives: marine resources [e.g., production technologies, survey technologies, autonomous underwater vehicles [e.g., AUVs], navigation safety [e.g., VDES])

[Cabinet Office (Secretariat of the Integrated Ocean Policy Headquarters, Secretariat of Science, Technology and Innovation Policy), METI, MLIT]

(t) Medical and healthcare

- With the aging of populations and expanding demand for medical services both in Japan and around the world, extending healthy life expectancy through medical and healthcare services is indispensable from the perspectives of sustainable social security and economic viability. In the medical field, there are challenges in the international deployment and cooperation of medical systems because pharmaceuticals, test codes, data standards, and other elements are not compatible with international standardization.
- Japan will establish a foundation that enables the effective utilization of medical data while protecting personal information through medical DX, as well as the advancement of Japan's drug discovery tools and processes, and sharing of medical technologies and devices, aiming to improve healthcare services and extend healthy life expectancy in various countries.
- To achieve this, international standardization will be promoted for the interoperability of medical data, secondary use of data, and performance standards for medical technologies and devices such as wearable devices. Concurrently, guidance and regulations concerning pharmaceuticals and medical technologies, including biodrug development, will be harmonized.

(**Potential target areas for initiatives: medical technology [including regenerative medicine, neurotech, and brain tech], pharmaceuticals [including biopharmaceuticals], medical devices, digital health [e.g., personalized medicine, precision medicine, data integration], and others)

【Cabinet Office (Secretariat of Science, Technology and Innovation Policy, National Healthcare Policy Secretariat), MEXT, MHLW, METI】

Chapter 5: Implementing Monitoring and Follow-up and Reviewing the Strategy

(1) Monitoring international standardization activities and appropriate sharing and response between the government and private sectors

In international standardization activities, matters that significantly impact the international community or Japan will be monitored regularly. The results will be shared appropriately between the public and private sectors to ensure timely and appropriate responses.

Specifically, the following measures will be implemented:

- The government, private sector, and the Secretariat of Intellectual Property Strategy Headquarters under the Cabinet Office (hereinafter referred to as the "Secretariat") will promote the identification of domestic needs and seeds expected to become international standards, in consideration of science, technology, innovation, and policy trends.
- The government, private sector, and the Secretariat will promote efforts to understand the actual state of international standards activities in key domains and strategic domains defined by this strategy, both domestically and internationally, as well as their global implementation.
- In light of domestic and international economic and social trends, the government, private sector, and the Secretariat entities will seek new international standards activities that Japan should pursue going forward, extending beyond existing key domains and strategic domains.
- From the perspective of collaboration and cooperation in international standards
 activities, the government and private sectors, and the Secretariat will identify
 the actual status of initiatives in leading standards regions and countries such as
 Europe, China, and the United States, and understand the challenges and needs
 of regions and countries that could become future partners, including the Global
 South.
- Additionally, request the sharing of information collected by the private sector regarding the implementation of international standardization and certification, while exercising sufficient caution in its handling.
- The Secretariat will continuously advance efforts to identify needs and seeds for international standardization and explore methodologies and information gathering frameworks for identifying new international standards activities that Japan should pursue.

The results of this monitoring will be appropriately shared with relevant public and private sector stakeholders, taking full care in their handling, through public-private collaboration forums and digital information sharing platforms; they will be utilized for

agile public-private initiatives such as proactive responses to international conferences and human resources exchanges.

(2) Measures and follow-up on key domains and strategic domains

Regarding the measures, key domains and strategic domains compiled by each ministry and agency in this compilation, progress will be monitored through annual follow-up (PDCA cycle). For these measures, KPIs will be pursued for early achievement, and conversely, if efforts are insufficient, deeper implementation of KPIs or initiatives will be required.

Specifically, the following measures will be implemented:

- Regarding the measures outlined in this strategy, a report on the progress and achievements will be requested from the ministries and agencies responsible based on KPIs and other metrics, and experts will conduct an evaluation. In such cases, if the responsible ministry or agency is already conducting a separate follow-up, the results of that follow-up will be utilized to the fullest extent possible. In addition, the responsible ministries and agencies will continuously consider setting and quantifying KPIs to the greatest extent possible for the measures under their responsibility.
- For key domains and strategic domains, the Secretariat will report on the progress and achievements, with the cooperation of concerned government ministries and industries, regarding players in international standards activities that could become the key success factor (KSF) in those domains, as well as their main issues and initiatives, specific actions, expected deliverables, and timelines.
- Additionally, in cases where activity reports on international standards activities in the private sector are available, requests will be made to share these reports, taking full care of their handling.
- The Secretariat will continue to examine methodologies for setting the KPI for companies and industries from perspectives including market creation, competitiveness enhancement, and social implementation.

The progress and achievements on these measures will be reported at public-private partnership forums and expert meetings, where quantitative and qualitative evaluations will be conducted. Based on these evaluations, stakeholders will be requested to implement corresponding initiatives.

Furthermore, regarding Japan's international standards activities aimed at solving global challenges, the results of the above reporting and evaluation will be incorporated into the annual Intellectual Property Strategic Program and other measures to ensure external communication.

(3) Monitoring and follow-up structure

To ensure appropriate monitoring and follow-up through public-private collaboration, as part of the headquarters outlined in Chapter 3. (3)(a), a meeting group of public and private entities will be established to coordinate responses. Specifically, based on this strategy, a cross-disciplinary forum will be established to advance international standards activities through public-private collaboration, with this forum also incorporating functions for monitoring and follow-up implementation. We will consider participation from a wide range of stakeholders, including industry and academic community, national research institutes, specialized services, and government ministries and agencies.

Additionally, consideration will be given to establishing and promoting a digital platform as an information-sharing infrastructure that facilitates appropriate monitoring and follow-up, the sharing of know-how, the strengthening of Japan's international standards-related ecosystem, and the promotion of industry, academia, and government initiatives.

(4) Reviewing the strategy

Regarding the policies and key domains and strategic domains of each ministry and agency, based on the results of annual follow-up reports and evaluations, an interim review will be conducted in FY 2027 and a final review in FY 2029 so that the policies and key domains and strategic domains within this strategy will be reviewed agilely and the strategy itself will be revised.

Measures List of "The New International Standards Strategy"

To realize "The New International Standards Strategy", the individual measures implementing by each ministry and agency classified with the premise to set KPI wherever possible. Every measure will be followed-up by the subcommittee of the international standards strategy and other relevant bodies. The results of this follow-up report to Intellectual Property Strategic Subcommittee, and the measures as needed will be revised appropriately.

(1) Strengthening initiatives by industry, academia, government, and finance

Sub-category of measures	Ministries	Measures and policies	KPIs
① Engage with the	Cabinet Office	Preparation, distribution,	By July 2025: Prepare an
business, academic, and	(Secretariat of Intellectual	and dissemination of this	overview and post it on
financial community.	Property Strategy	strategy summary	the website/Distribute and
	Headquarters)	(including the English	disseminate it within
		version).	FY2025/Hold public-
			private seminars in
			collaboration with
			concerned government
			ministries and
			agencies/Continue
			disseminating information
			thereafter.
		Encourage relevant	The number of strategies
		ministries and agencies to	and plans of the
		incorporate the content of	government that
		this strategy into other	incorporate descriptions
		national strategies and	of international
		systems.	standardization activities
			while taking this strategy
			into account.
		Through public-private	During FY2025, establish
		partnerships and digital	a public-private
		platforms, share diverse	partnership forum to
		successful case studies	collect information and

^{*}The KPI is to be set for the period from FY 2025 to FY 2029.

	and cost-effectiveness	case studies on the sales
	data while leveraging	growth effects and cost-
	cases of Initiatives in	effectiveness of
	specific fields as well as	standardization activities,
	fostering a shift in	as well as career paths for
	perspective among	standardization human
	companies and research	resources and disseminate
	institutions, and	this information through
	contributing to human	the public-private
	resource development.	partnership forum and
		digital platforms for
		information
		dissemination.
MAFF	Formulate an	Expand the export value
	international standards	of agriculture, forestry
	strategy for agriculture,	and fisheries products,
	forestry and fisheries	and food .(5 trillion yen
	products, and food	by 2030)
	sectors.	
	Establish a domestic	Expand the export value
	network for international	of agricultural, forestry
	standardization activities	and fisheries products,
	in agriculture, forestry	and food. (5 trillion yen
	and fisheries products,	by 2030)
	and food sectors.	
METI	Promote the appointment	By the end of FY2025,
	of Chief Standardization	utilize findings obtained
	Officers (CSO) in private	through surveys in policy
	companies, further	deliberations.
	encourage disclosure in	
	integrated reports,	
	accelerate the	
	proliferation of	
	understanding among	
	companies and investors,	
	and work to improve	
	market formation	
	capability indicators.	
	r maranoro.	

### Strategie standardization activities in the pilot fields of quantum technologies, perovskite solar cells, bydrogen and ammonia, bio-based manufacturing, and the data collaboration infrastructure. MLIT			The government will lead	Progress in the
activities in the pilot fields of quantum technologies, perovskite solar cells, hydrogen and ammonia, bio-based manufacturing, and the data collaboration infrastructure. MLIT Trends in international standardization strategies in each field. MLIT Trends in international standards in ISO/TC211 (geographic information) and investigation for domestic application. (continued) (C) Shift the perspective of companies, research institutions, and the government. (Secretariat of Intellectual institutions, and the government. Headquarters) (Secretariat of Intellectual diverse success stories and cost-effectiveness data while leveraging cases of Initiatives in specific fields as well as contributing to fostering a shift in perspective among companies and research institutions, and to human resource development. (reprinted) The ministries and agencies will encourage the National Research Institute to appropriately evaluate the international standardization evaluating standardization of exemplary cases for personnel.			_	_
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			standardization activities	of exemplary cases for
human resources			of its personnel.	evaluating standardization
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		domestically and
		internationally.
	Through monitoring	Conduct annual
	needs, seeds, and other	monitoring and share the
	factors, the government	results with the concerned
	will identify areas where	government ministries.
	it should take the lead	
	proactively.	
MIC	Provides awards to	_
	individuals and	
	organizations that have	
	contributed to	
	international	
	standardization activities	
	in the information and	
	communication field.	
MHLW	Support research projects	Support at least five new
	at universities, etc. to	projects at universities,
	develop and establish	etc. by FY 2029. Support
	evaluation methods for	at least ten domestic
	the efficacy and safety of	review organizations and
	innovative medical	other entities by FY 2029.
	devices developed in	
	Japan. Additionally,	
	provide funding for	
	survey expenses related to	
	engaging with	
	participating countries for	
	a domestic Bodies such as	
	ISO/IEC, which	
	undertake standardization	
	activities, including	
	projects supported by this	
	initiative.	
MAFF	Formulate the	Expand the export value
	International	of agriculture, forestry
	Standardization Strategy	and fishery products, and
	for the agriculture,	food. (5 trillion yen by

	forestry and fisheries	2030)
	-	2030)
	products, and food	
	sectors. (reprinted)	
	Establish a domestic	Expand the export value
	network for international	of agriculture, forestry
	standardization activities	and fishery products, and
	in the agriculture, forestry	food. (5 trillion yen by
	and fisheries products,	2030)
	and food sectors.	
	(reprinted)	
METI	Establish the Chief	Utilize findings obtained
	Standardization Officer	through surveys by the
	(CSO) position within	end of FY 2025 in policy
	private companies, further	deliberations.
	encourage disclosure in	
	integrated reports,	
	accelerate the	
	proliferation of	
	understanding among	
	companies and investors,	
	and improve market	
	formation capability	
	indicators. (reprinted)	
	Advance the Open &	The status of formulating
	Close strategy through	standardization strategies
	initiatives such as follow-	and other measures
	up on Standardization	among project
	strategies for the Green	participants, the status of
	Innovation Funding R&D	establishing
	projects and the	organizational
	accreditation system for	frameworks, accreditation
	specific new demand	under the Industrial
	development business	Competition Act, and the
	activity plans.	implementation of
	activity plans.	demonstration projects.
	Work on the Industrial	demonstration projects.
		_
	Standardization Project	
	Awards, which recognize	

		human resources and	
		organizations that have	
		made outstanding	
		contributions through	
		standardization activities	
		and other efforts.	
		To strategically leverage	
		the standardization	Hold a discussion session
		strategy in the service	on service
		sector, promote new	standardization.
		project development and	
		environmental	
		preparation.	
3 Utilize standards in	Cabinet Office	After assessing the	Survey utilization status
public procurement and	(Secretariat of Intellectual	current status of standards	in public procurement and
subsidies.	Property Strategy	utilization in public	subsidies during
	Headquarters)	procurement and	FY2025/grasp
		subsidies both	procurement status across
		domestically and	ministries.
		internationally, promote	
		the use of standards in	
		public procurement.	
	MHLW	Establish an environment	_
		that efficiently and	
		effectively aligns with	
		international standards to	
		facilitate the seamless	
		utilization of medical	
		information from primary	
		to secondary use and	
		patient benefit. This will	
		be achieved through the	
		construction of a national	
		medical information	
		platform (including the	
		development of an	
		electronic medical records	
		information sharing	
		information snaring	

		service and a standard	
		electronic medical record	
		system) and the	
		promotion of secondary	
		use of medical and related	
_		information.	
4 Incorporate	Cabinet Office	Based on previous cases	During FY2025, compile
standardization from the	(Secretariat of Intellectual	such as Green Innovation	best practices of
R&D stage.	Property Strategy	funding, promote	competitive funding
	Headquarters)	standardization support	programs that incorporate
		during the R&D phase	international
		across ministries and	standardization activities
		agencies.	as requirements/Number
			of competitive funding
			programs across
			ministries and agencies
			that incorporate
			international
			standardization activities
			as requirements.
	Cabinet Office	Require private sector	_
	(Secretariat of Intellectual	entities to clearly present	
	Property Strategy	social implementation	
	Headquarter, Council for	strategy, international	
	Science, Technology and	competitiveness strategy,	
	Innovation, Director	and international	
	general for policy	standards strategy, along	
	planning [State Minister	with management-level	
	in Charge of Economic	commitment to achieving	
	Security]), MIC, METI,	them, and introduce	
	concerned ministries and	frameworks for business	
	agencies	operations and follow-up.	
	_	Efforts will continue to be	
		promoted, including pilot	
		operations, and the scope	
		of implementation	
		expanded across	
		concerned government	
		concerned government	

ministries and agencies, using the following R&D projects as previous cases. Furthermore, the know- how gained during these initiatives will be leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate lateral development	
projects as previous cases. Furthermore, the know- how gained during these initiatives will be leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate	
Furthermore, the know- how gained during these initiatives will be leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate	
how gained during these initiatives will be leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate	
initiatives will be leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate	
leveraged, utilizing systems and practices related to technology evaluation within concerned government ministries, to facilitate	
systems and practices related to technology evaluation within concerned government ministries, to facilitate	
related to technology evaluation within concerned government ministries, to facilitate	
evaluation within concerned government ministries, to facilitate	
concerned government ministries, to facilitate	
ministries, to facilitate	
lateral development	
lateral development	
beyond the scope of the	
following R&D projects.	
> Green Innovation	
Fund Project	
> Innovative	
Information and	
Communications	
Technology	
(Beyond 5G (6G))	
funding project.	
➤ Post-5G	
Information and	
Communication	
System	
Infrastructure	
Enhancement	
Research and	
Development	
Project.	
> SIP (Strategic	
Innovation	
Promotion	
Program) Phase 3	
Project.	
> Economic Security	

	Important	
	Technology	
	Development	
	Program Project.	
	➤ Bio Manufacturing	
	Revolution	
	Promotion Project.	
	National Research	
	and Development	
	Agency New	
	Energy and	
	Industrial	
	Technology	
	Development	
	Organization	
	(NEDO) for R&D	
	projects.	
MIC	The Innovative	Number of projects
	Information and	recognized as making
	Communications	steady progress following
	Technology (Beyond 5G	stage-gate evaluation.
	(6G)) Funding Project	
	provides support for R&D	
	and international	
	standardization activities	
	by private-sector entities	
	strategically pursuing	
	social implementation and	
	overseas expansion.	
MEXT	Preliminary efforts toward	_
	international	
	standardization of	
	measurement techniques	
	in the materials field (pre-	
	standardization)	
	conducted by the National	
	Institute for Materials	
	Science (NIMS) and	
	Science (MINIS) and	

	relevant organization.	
	,	
	As an initiative to	_
	generate insights	
	contributing to the	
	standardization of data for	
	international	
	standardization strategy,	
	promote the systematic	
	collection, accumulation,	
	and utilization of material	
	data integrally.	
MEXT, METI	In the field of high-	_
	temperature gas-cooled	
	reactors, enhance	
	international	
	standardization activities	
	through International	
	Collaboration with the	
	Japan Atomic Energy	
	Agency (JAEA).	
MHLW	In the medical and	①Draft completion with
	healthcare field, take the	major global automaker
	initiative alongside the	(FY2025), pilot
	Department of Medical	implementation
	Informatics at Kyushu	(FY2028); ②Draft
	University in establishing	completion of technical
	international	specifications in
	standardization for	ISO/TC215 (FY2027);
	linking medical	③Set and internationalize
	information exchange and	PHR items for two
	data representation held	disease areas in CDISC
	by healthcare institutions	(FY2027); (4) Twenty
	with medical data held by	training participants, 2
	individuals, ultimately	OJT participants
	aiming to establish a	(FY2028).
	business model.	

METI	Advance the Open &	The status of formulating
	Close strategy through	standardization strategies
	initiatives such as follow-	and other measures
	up on Standardization	among project
	strategies for the Green	participants, the status of
	Innovation Funding R&D	establishing
	projects and the	organizational
	accreditation system for	frameworks, accreditation
	specific new demand	under the Industrial
	development business	Competition Act, and the
	activity plans. (reprinted)	implementation of
		demonstration projects.
MLIT	Support the formulation	_
	of strategies for	
	establishing international	
	standards for	
	transportation	
	technologies by the	
	startups and other entities,	
	thereby strengthening	
	international	
	standardization activities.	
	The National Institute of	Number of meetings
	Maritime, Port and	attended for international
	Aviation Technology	standards.
	conducts research with	
	international standards	
	and standardization in	
	mind from the planning	
	stage of research projects.	
	It also contributes to	
	international	
	standardization activities	
	by participating in the	
	preparation of proposals	
	for international standards	
	to organizations including	
	the International Maritime	

		Organization (IMO), the	
		International Civil	
		Aviation Organization	
		(ICAO), the International	
		Organization for	
		Standardization (ISO),	
		and the Permanent	
		International Association	
		of Navigation Congresses.	
		(PIANC)	
	MOE	Develop the Arctic Black	For Arctic black carbon
		Carbon (BC) reference	(BC) data obtained over
		dataset spanning 30 years	the past 30 years using
		approximately, calibrated	BC measuring
		to the concentration scale	instruments other than
		of the BC measuring	COSMOS, normalization
		instrument COSMOS, and	and standardization to
		make it widely available	values based on
		internationally.	COSMOS will be
		Furthermore, improve	completed by the end of
		COSMOS and establish a	FY 2028.
		long-term stable	
		observation network at	
		four representative Arctic	
		observation sites within	
		the framework of	
		international collaborative	
		research.	
⑤ Enhance the	Cabinet Office	Analyze the effectiveness	_
effectiveness of support	(Secretariat of Intellectual	of government support	
from the government	Property Strategy	measures where	
	Headquarters)	international	
		standardization activities	
		form part of their	
		requirements or	
		objectives.	
		Examine systems to	_
		support international	
		11	<u> </u>

	standardization activities	
	in Japan with drawing on	
	examples from other	
	countries.	
MHLW	In the medical and	Through strengthening
	healthcare field, take the	support for travel
	initiative in international	expenses and other costs
	standardization for	associated with attending
	linking medical	international conferences
	information exchange and	① Draft completion of
	data representation held	technical specifications in
	by healthcare institutions	ISO/TC215 (FY2027); (2)
	with medical data held by	Set and internationalize
	individuals, ultimately	PHR items for two
	aiming to establish a	disease areas in CDISC
	business model.	(FY2027); (3) Twenty
	(reprinted)	training participants, 2
		OJT participants
		(FY2028).

(2) Enhancing the standard ecosystem

Sub-category of measures	Ministries	Measures and policies	KPIs
① Strengthen the human	Cabinet Office	Through public-private	During FY2025, establish
resources development	(Secretariat of Intellectual	partnerships and digital	a public-private
system.	Property Strategy	platforms, utilize	partnership forum to
	Headquarters)	initiatives in specific	collect information and
		fields to enlighten	case studies on the sales
		companies and research	growth effects and cost-
		institutions on shifting	effectiveness of
		perspectives and	standardization activities,
		contribute to human	as well as career paths for
		resources development.	standardization human
		(reprinted)	resources and disseminate
			this information through
			the public-private
			partnership forum and
			digital platforms for
			information

			dissemination.
		The ministries and	Number of National
		agencies will encourage	Research Institutes for
		the National Research	introducing evaluations of
		Institute to appropriately	standardization activities
		evaluate the International	for personnel /
		Standardization activities	Compilation of exemplary
		of its personnel.	cases for evaluating
		(reprinted)	standardization human
			resources domestically
			and internationally.
	MIC	Strengthen the human	Development of
		resource base	"standardization
		supporting the sustained	personnel skill sets",
		promotion of international	prototype creation of
		standardization activities	educational methods
		in the information and	(training curricula, etc.),
		communications field,	and design of business
		undertake human resource	models.
		development through	
		educational programs	
		utilizing the skill sets	
		required of	
		standardization personnel.	
		Strengthen the human	Strengthen the private-
		resource base to	sector human resource
		sustainably promote	base at ITU: Number of
		international	investigators, number of
		standardization activities	times investigators
		in the information and	participated in related
		communication field.	meetings, number of
			documents investigators
			edited or authored
			Strengthen the private-
			sector human resource
			base at universities,

		startups, small and
		medium-sized enterprises,
		•
		and among young
		professionals: Number of
		new investigators
		dispatched, number of
		new proposals for
		international
		standardization.
MHLW	Support research projects	Support at least five new
	at universities, etc., to	projects at universities,
	develop and establish	etc., by FY 2029. Support
	evaluation methods for	at least ten a domestic
	the efficacy and safety of	bodies and other
	innovative medical	organizations by FY
	devices developed in	2029.
	Japan. Additionally,	
	provide funding for	
	survey expenses related to	
	engaging with	
	participating countries for	
	a domestic bodies such as	
	ISO/IEC, which	
	undertake standardization	
	activities, including	
	projects supported by this	
	initiative. (reprinted)	
MAFF	Develop human resources	Expand the export value
	capable of participating in	of agriculture, forestry,
	international	and fishery products, and
	standardization activities	food. (5 trillion yen [by
	within the agriculture,	2030])
	forestry and fisheries	
	product, and food sectors.	
	Establish a domestic	Expand the export value
	network for international	of agriculture, forestry
	standardization activities	and fishery products, and
	in agriculture, forestry	food. (5 trillion yen [by
	agriculture, forestry	100a. (5 amnon yon loy

	and fisheries products,	2030])
	and food sectors.	1/
	(reprinted)	
METI	Deployment of the	Utilize STANDirectory,
	Standardization Human	host standardization-
	Resources Directory	related symposiums and
	(STANDirectory), the	seminars at academic
	lateral deployment	conferences, and conduct
	starting from university	training programs to
	and academic society	cultivate standardizations
	standardization model	of human resources.
	projects, and the	
	organization of	
	standardization training.	
MLIT	Through training	Conduct training to
	programs for	acquire fundamental
	Building/Construction	knowledge of BIM/CIM,
	Information Modeling	understanding the aim and
	and Management	effectiveness of utilizing
	(BIM/CIM) and	digital data in the phasing
	associated international	for design, construction,
	standards, promote the	and maintenance, and
	development of human	enhance expertise and
	resources capablility of	technical skills to
	managing, overseeing,	leverage software as a
	and executing tasks	tool for business
	utilizing BIM/CIM.	transformation (FY2026
		target:
		3,400 participants
		annually)
	In the field of	Participation in draft
	architecture, promote	preparation of ISO and
	R&D with taking into	the other activities by
	account the international	specialized human
		-
	standardization by the	resources who support
	National Institute for	sustainably international
	Land and Infrastructure	standardization activities

		Management and the	in the field of
		National Research and	architecture. (participation
		Development Agency of	in TC/SC/WG and
		Building Research	National Standardization
		Institute collaborating	committees)
		with companies,	
		universities, etc.,	
		strengthening the human	
		resource base to supports	
		the sustained promotion	
		of international standards	
		activities.	
		By Industry-government-	Establishment of a
		academia partnership	domestic body in the
		("Public-Private	aircraft and equipment
		Committee on New	industry by the end of
		Technologies toward	FY2025, the number of
		Decarbonization of	participating companies
		Aircraft"), promote	in the above domestic
		international	body, and the number of
		standardization of new	participants in committees
		environmental	of the International
		technologies for	Organization of
		decarbonization of aircraft	standardization.
		(electrification,	
		hydrogenation, weight-	
		saving, and efficiency	
		improvement), and	
		establishing a domestic	
		body as the central	
		domestic coordination	
		and strengthen human	
		resources.	
② Develop and	Cabinet Office	To resolve the mismatch	During FY 2025, conduct
strengthen specialized	(Secretariat of Intellectual	between companies and	surveys of existing
institutions and expand	Property Strategy	the service support	platforms and other
their utilization.	Headquarters)	organization of standards,	activities to identify

	certification and testing,	needs, and initiate
	and to consider	platform construction.
	establishing a platform to	
	visualize and match the	
	services provided by these	
	organizations.	
	Promote cross-	During FY 2025, survey
	disciplinary collaboration	the needs of specialized
	among a service support	institutions, companies,
	organizations of	and other relevant entities
	standards, certification,	to identify appropriate
	and testing with	forms of partnership.
	leveraging existing	
	initiatives.	
	From the perspective on	_
	economic security,	
	consider the potential for	
	utilizing certification	
	authorities and testing	
	institutions for services	
	entering the country.	
MAFF	Establishment of an	Expand the export value
	internationally recognized	of agricultural, forestry
	certification framework	and fishery products, and
	(Conclusion of	food. (5 trillion yen by
	international mutual	2030)
	recognition agreements	
	between JASaff, IAF, and	
	APAC)	
METI	Work to further expand	Organize a forum to
	the potential utilization of	discuss approaches to
	certification authorities	utilizing certification.
	and promote the use of	
	certification within	
	companies.	
	Regarding domestic	Organize a forum to
	certification authorities,	discuss approaches to

		advance compliance with	utilizing certification.
		overseas regulations	diffizing continuation.
		through collaboration	
		with overseas certification	
		bodies, while also	
		strengthening capabilities	
		through human resources	
		development for GX-ETS	
		Phase 2 readiness and	
		fundamental efficiency	
		improvements in	
		certification operations.	
		Continue and strengthen	Hold a seminar.
		support for	
		standardization utilization	
		by Small and medium-	
		sized Enterprises and	
		startup company	
		(Standardization	
		Utilization Partnership	
		Program, Standardization	
		System for Creating New	
		Markets)	
③ Promote regulations,	Cabinet Office	Identify the advantages	Number and percentage
standards, and	(Secretariat of Intellectual	and disadvantages of	of national standards cited
certifications in an	Property Strategy	integrated promotion of	in Japan's laws
integrated manner.	Headquarters)	standards development,	
		regulatory adoption, and	
		certification. Present areas	
		of the significant	
		advantages and encourage	
		the integrated promotion.	
	MHLW	In the Technical	_
		Committee 249	
		(Traditional Medicine) for	
		"Chinese herbal medicine	
		and acupuncture" derived	
		from ancient Chinese	
		nom ancient Chinese	

	medicine leading by	
	China in the International	
	Organization for	
	Standardization (ISO),	
	compile achievements	
	and data about the	
	collection of scientific	
	evidence and the	
	generation of insights on	
	international standards to	
	date, while undertaking	
	deliberations to contribute	
	to future international	
	standardization.	

(3) Clarification and governance of standards strategy

Sub-category of measures	Ministries	Measures and policies	KPIs
① Establish a public-	Cabinet Office	Establish a "public-	Establish a public-private
private partnership	(Secretariat of Intellectual	private partnership	partnership platform and
platform to serve as a	Property Strategy	platform" to provide	commence follow-
headquarters.	Headquarters)	support and serve as a	up/monitoring during
		headquarters for follow-	FY2025.
		up and monitoring, while	Establish a network of
		coordinating with existing	public and private
		initiatives and the private	overseas offices during
		sector. Simultaneously,	FY2025.
		build a network of	
		overseas offices for both	
		public and private	
		entities.	
	Cabinet Office (Director	Based on the "Act on the	_
	general for policy	Promotion of Ensuring	
	planning [State Minister	National Security through	
	in Charge of Economic	Integrated	
	Security])	Implementation of	
		Economic Measures", the	
		councils established under	
		this Act (including any	

	councils subsequently	
	established), taking into	
	account the status of	
	individual projects and	
	council discussions,	
	international	
	standardization, and	
	support measures will be	
	studied as necessary.	
MIC	The Beyond 5G New	Implement industry-
	Business Strategy Center,	academia-government
	established to	collaborations initiatives /
	strategically advance	Conduct information
	Beyond 5G intellectual	dissemination through
	property and	seminars and other
	standardization activities	activities
	under private-sector	
	business strategies, will	
	promote industry-	
	academia-government	
	collaborations in	
	international	
	standardization and	
	intellectual property	
	within the information	
	and communication field.	
	It will also undertake	
	activities related to	
	awareness raising and	
	information	
	dissemination.	
MEXT	In the fusion energy field,	(KPIs) Regarding
1411/28 1	strengthen international	international
	standardization activities	standardization in the
	through industry-	fusion energy field, the
		following achievements
	government-academia	
	collaboration and	are targeted by FY 2026:
	international partnerships,	a) Complete the outline of

	in cooperation with the	the international standards
	National Institutes for	draft.
	Quantum Science and	b) Develop streamlining
	Technology (QST).	and optimization
		proposals for standards
		based on ITER equipment
		design/manufacturing
		experience and the latest
		knowledge.
		c) Begin deliberations on
		international
		standardization for the
		structural specifications
		of superconducting coils
		(key equipment) and
		initiate drafting of the
		structural specifications
		for the vacuum vessel.
		d) Establish a human
		resources development
		program utilizing
		webinars, technical
		experience/training
		sessions, academic
		conferences/seminars,
		exchanges with
		international
		organizations, and media.
		e) Establish a human
		resource development
		scheme and dispatch
		human resources to
		international
		organizations.
		f) Develop an
		environmental preparation
		plan, including a testing
		plan and testing
•		

implementation system, to acquire the necessary supporting data for establishing international standards. Simultaneously, advance the acquisition of supporting data using existing equipment. (KPI) Based on the above achievements, FY 2027 to R2029 will advance the international standardization of construction standards for major equipment such as superconducting coils and reflect them in fusion energy system construction activities. Continue the human resource development program to cultivate management personnel with international experience who can drive international standardization from a holistic perspective, in addition to researchers and engineers. Continue acquiring data serving as the technical basis for international standardization using existing testing facilities, while also developing new testing facilities and

		other infrastructure to
		accelerate the acquisition
		of supporting data and
MAEE	T (11'1 1 2'	engineering data.
MAFF	Establish a domestic	Expand the export value
	network for international	of agricultural, forestry
	standardization activities	and fishery product and
	in agriculture, forestry	food (5 trillion yen by
	and fisheries products,	2030)
	and food sectors	
	(reprinted).	
METI	The government will lead	Progress in the
	strategic standardization	consideration of
	activities in the pilot	international
	fields of quantum	standardization strategies
	technology, perovskite	in each field.
	solar cells, hydrogen and	
	ammonia, bio-based	
	manufacturing, and the	
	data collaboration	
	infrastructure (reprinted).	
MLIT	In the construction	Formulate a
	machinery field, work	standardization strategy
	with domestic bodies to	for DX and GX in
	comprehensively promote	construction machinery
	the strengthening of	by FY 2026.
	Japan's industry,	
	academia, and	
	government collaborative	
	framework for DX and	
	GX in construction	
	machinery, and enhance	
	international	
	standardization activities.	
	In the architectural field,	Participation in the draft
		Participation in the draft
	promote R &D with	preparation of ISO and
	taking into account the	the other activities by
	international	specialized human

standardization by the	resources who support
National Institute for	sustainably international
Land and Infrastructure	standards activities in the
Management and the	architectural field
National Research and	(participation in
Development Agency of	TC/SC/WG and domestic
Building Research	committees)
Institute collaborating	
with companies,	
universities, etc., thereby	
strengthening the human	
resource base to supports	
the sustained promotion	
of international	
standardization activities.	
Based on international	Participation of
trends in port and	specialized human
terminal international	resources in the port field
standardization, develop a	in the creation of ISO
domestic review	drafts (participation in
framework for Japan's	TC/SC/WG and domestic
port sector and cultivate	committees)
international	commuces)
standardization human	
Py Industry government	Establishment of a
By Industry-government-	
academia partnership	domestic body in the
("Public-Private	aircraft and equipment
Committee on New	industry by the end of FY
Technologies toward	2025, the number of
Decarbonization of	participating companies
Aircraft"), promote	in the above domestic
international	body, and the number of
standardization of new	participants in committees
environmental	of the International
technologies for	Organization for
decarbonization of aircraft	Standardization.
(electrification,	

	hydrogenation, weight-	
	saving, and efficiency	
	improvement), and	
	establishing a domestic	
	body as the central	
	domestic coordination	
	and strengthen human	
	resources.	
	Industry, academia, and	Number of ISO-related
	government	meetings attended by
	collaborations will work	Japanese experts in the
	together in the water and	field of water and sewage
	sewage sector to	
	strategically pursue	
	international	
	standardization for	
	technologies related to	
	core Japanese corporate	
	technologies.	
MOE	Propose specifications for	Aim to establish an ISO
	manually loaded garbage	standard for the testing
	collection vehicles in	method of bulk density
	collaboration with	for SRF by around
	concerned government	October 2025.
	agencies and industry	
	associations. For SRF, a	
	fuel resource contributing	
	to the circular economy	
	and decarbonization,	
	define its fuel quality and	
	product safety. Work to	
	ensure Japan's	
	mainstream RPF ("solid	
	waste fuel" primarily	
	made from waste paper	
	and plastic") is included	
	_	
	in ISO standards, while also sharing the approach	

to JIS standards	
concerning RPF.	
Given the growing	(KPIs) Climate Change
importance of rulemaking	Include GOSAT-based
in environmental fields	national absorption and
such as climate change	emission estimation
countermeasures, the	technology in the IPCC
circular economy, and	guidelines that define
nature restoration, the	greenhouse gas
government, business	calculation methods by
community, and research	country.
institutions will advance	• By FY2025, prepare
international standards	for and conduct one
activities in a unified	evaluation of emission
manner.	reduction projects'
	effectiveness.
	• Expand Japan's
	environmental
	infrastructure export
	market and secure a
	competitive advantage
	through market rule
	development.
	(KPIs) Circular Economy
	Based on the
	development of the
	disclosure scheme and
	contributions to GCP
	ver.1.0 development,
	develop draft sector-
	specific disclosure
	guidance while
	advocating to the
	WBCSD for its
	formulation.

		Complete circulation
		indicators and
		environmental impact
		reduction estimation
		methods for the target
		value-chain, and
		collaborate with
		concerned government
		ministries and agencies to
		pursue standardization
		activities for international
		standards.
		(KPIs) Nature Restoration
		• Formulate multiple
		(approx. 2-3 items) Japan-
		specific strategies by FY
		2026, both cross-
		disciplinary and for
		specific areas,
		anticipating rulemaking
		and market creation in the
		nature positive field.
		Convene the domestic
		deliberative committee
		corresponding to
		ISO/TC331 at least once a
		year.
	Considering the growing	(KPIs) Climate Change
	importance of rulemaking	 Include the national
	in environmental fields	absorption and emission
	such as climate change	estimation technology
	countermeasures, the	using GOSAT in the IPCC
	circular economy, and	Guidelines.
	nature restoration,	• By FY2025, prepare
	develop foundational	for and conduct one
	frameworks to promote	evaluation of emission
	behavioral change among	reduction projects'
	companies, foster human	effectiveness.

	resources development,	• Expand Japan's
	and advance	environmental
	standardization activities	infrastructure export
	in each field.	market and secure a
		competitive advantage
		through the development
		of market rules.
		(KPIs) Circular Economy
		As part of development
		beyond GCP ver. 1.0,
		encourage the WBCSD to
		establish sector-specific
		disclosure guidance while
		working to incorporate
		the proposed guidance
		into GCP ver. 2.0.
		• Complete the
		circulation indicators and
		environmental impact
		reduction estimation
		methods for the target
		value-chain, and
		collaborate with
		concerned government
		ministries to advance
		standardization activities
		for international standards
		and establish supporting
		frameworks including
		certification systems.
		(KPI) Nature Restoration
		• Develop an
		internationally
		competitive and
		innovative environmental
		impact visualization tool
		by FY 2025.

2 Establish frameworks	Cabinet Office	In coordination with	During FY 2025,
for sharing and matching	(Secretariat of Intellectual	existing initiatives,	investigate domestic and
knowledge, expertise, and	Property Strategy	establish a centralized	international
human resources	Headquarters)	consultation service	circumstances while
information.		alongside a platform for	advancing needs
		sharing and matching	assessment, and begin
		expertise, know-how, and	establishing contact
		human resources	windows and venues.
		information.	
	MAFF	Formulate an	Expand the export value
		International	of agricultural, forestry
		Standardization Strategy	and fishery products, and
		in agriculture, forestry	food (5 trillion yen by
		andfisheries products, and	2030)
		Food sector (Reprinted)	
		Build a domestic network	Expand the export value
		for international	of agricultural, forestry
		standardization activities	and fishery products, and
		in agriculture, forestry	food (5 trillion yen by
		and fisheries products,	2030)
		and food sectors	
		(reprinted).	
	MLIT	By Industry-government	Establishment of a
		academia partnership	domestic body in the
		("Public-Private	aircraft and equipment
		Committee on New	industry by the end of
		Technologies toward	FY2025, the number of
		Decarbonization of	participating companies
		Aircraft"), promote	in the above domestic
		international	body, and the number of
		standardization of new	participants in committees
		environmental	of the International
		technologies for the	Organization for
		decarbonization aircraft	Standardization.
		(electrification,	
		hydrogenation, weight	
		saving, and efficiency	
		improvement), and	

	1		
		establishing a domestic	
		body as the central	
		domestic coordination,	
		and strengthen human	
		resources (reprinted).	
3 Strengthen	Cabinet Office	Convene the "Task Force	Hold at least once a year
coordination between	(Secretariat of Intellectual	for Promoting the	at appropriate times
ministries and agencies,	Property Strategy	Utilization of Standards,"	
and between the national	Headquarters)	composed of key	
and local governments.		ministries and agencies	
		responsible for advancing	
		international	
		standardization strategies,	
		at an appropriate time.	
		This will facilitate	
		information sharing on	
		international standards	
		activities within each	
		ministry and agency, as	
		well as measures to	
		promote them, thereby	
		fostering collaboration to	
		implement effective	
		measures concerning	
		international standards	
		across the entire	
		government.	

(4) Enhancing international collaboration

Sub-category of	Ministries	Measures and policies	KPIs
measures			
① Engage in	Cabinet Office	Build a cross-sectional,	Identify target
international	(Secretariat of	multi-layered G2G	countries/regions for
standardization human	Intellectual Property	cooperation framework	cooperation and
resources development,	Strategy Headquarters)	with ASEAN countries in	commence discussions
and networking.		mind, in collaboration with	within FY2025 / Initiate
		relevant ministries and	consensus agreements
		agencies.	and related measures

			based on those consensus
			agreements by FY2026.
		Through public-private	Starting in FY2025,
		partnership forums and	monitor Japanese
		digital platforms, utilize	participation in
		initiatives in specific fields	organizations and
		to enlighten companies and	meetings with significant
		research institute on	influence on international
		shifting perspective and	standards through public-
		contribute to human	private partnership
		resource development	forums and other
		(reprinted).	channels.
	MAFF	Provide training on food-	Expand the export value
		related standards in	of agricultural, forestry
		collaboration with	and fishery products, and
		universities in the ASEAN	food (5 trillion yen by
		region	2030)
2 Promote the use of	Cabinet Office	Build a cross-sectional,	_
the International Mutual	(Secretariat of	multi-layered G2G	
Recognition	Intellectual Property	cooperation framework	
Arrangement, regulatory	Strategy Headquarters)	with ASEAN countries in	
harmonization, and the		mind, in collaboration with	
adoption of standards.		relevant ministries and	
		agencies.	
	MIC	Actively and strategically	Number of contribution
		advance international	documents submitted by
		standardization to enable	Japan to the ITU, average
		the establishment of	scores from ongoing and
		technical standards for	final evaluations by
		highly efficient wireless	external experts, and the
		technologies that reflect	number of ITU
		Japan's frequency scarcity	recommendations
		situation and serve as	formulated with Japan's
		internationally harmonized	involvement
		technologies.	
		Promote international	Conduct international
		collaborative research with	collaborative research
		relevant countries to	with strategic partner

	facilitate strategic	countries
	international	countries
	standardization through	
	collaboration with strategic	
	partners from the R&D	
MEYT	stages.	(KDI) D 1'
MEXT	In the field of fusion	(KPIs) Regarding
	energy, strengthen	international
	international	standardization in the
	standardization activities	fusion energy field, the
	through industry-	following achievements
	government-academia	are targeted by FY2026.
	collaboration and	Complete the outline of
	international partnerships,	the international
	in cooperation with the	standards proposal.
	National Institutes for	Develop streamlining and
	Quantum Science and	optimization proposals
	Technology (QST).	for standards based on
	(reprinted).	ITER equipment design
		and manufacturing
		experience and the latest
		knowledge.
		Begin deliberations on
		the international
		standardization of the
		structural specifications
		for superconducting coils,
		a key component, and
		commence drafting the
		structural specifications
		for the vacuum vessel.
		Develop a human
		resource development
		program utilizing
		webinars, technical
		experience/training
		sessions, academic
		conference/seminar

activities, exchanges with international organizations, and media. Establish a human resource development scheme and dispatch personnel to international organizations. Build an environmental improvement plan, including test plans and test implementation systems, to acquire the necessary supporting data for developing international standards. Concurrently, advance the acquisition of supporting data using existing equipment. (KPIs) FY2027-FY2029: Based on the above achievements, advance the international standardization of construction specifications for key equipment such as superconducting coils and incorporate them into fusion energy system construction activities. Continue the human resource development program to cultivate management personnel who can drive international

			standardization from a
			holistic perspective, in
			addition to researchers
			and engineers, using
			international
			standardization expertise.
			Continue acquiring data
			that serves as the
			technical basis for
			international
			standardization using
			existing testing facilities,
			while also establishing
			new testing facilities and
			other environments to
			accelerate the acquisition
			of supporting data and
			engineering data.
	MHLW	Through training programs	Conduct training sessions
		on pharmaceutical and	for Asian countries at
		medical device regulations	least five times per year,
		for officials from regulatory	including explanations of
		authorities in Asian	internationally
		countries and other regions,	harmonized standards
		conducted by the Asian	and guidelines related to
		Training Center (ATC)	pharmaceutical
		established within the	regulations. Furthermore,
		Pharmaceuticals and	achieve a satisfaction rate
		Medical Devices Agency	of 75% or higher on a
		(PMDA), promote the	five-point scale (with 3
		proliferation and adoption	being "Good") in post-
		of internationally	seminar questionnaires.
		harmonized standards and	
		guidelines for	
		pharmaceutical regulations	
		in each country.	
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		Research on strengthening	Participate in relevant
		food hygiene management	subcommittees of the
		and monitoring guidance,	Codex Alimentarius
		information gathering and	Commission, which
		research on the	develops international
		international harmonization	food standards, at least 10
		of hygiene management	times cumulatively by FY
		standards, and other	2029, contributing to
		measures to ensure food	standards development.
		safety.	
	MAFF	Develop an internationally	Expand the export value
		recognized certification	of agricultural, forestry,
		framework (conclude	and fishery products and
		international mutual	food (5 trillion yen by
		recognition agreements	2030)
		between JASaff and	
		IAF/APAC)	
		To advance the	FY2025: Formulation of
		international	business models utilizing
		standardization of smart	international standards
		farming for ASEAN	for Japanese corporate
		deployment, collaborate	expansion into the
		with Western forum	ASEAN region (5 or
		standardization bodies (e.g.,	more cases), among other
		AgGateway) to develop and	initiatives
		standardize data exchange	FY2026: Commencement
		specifications for rice	of business development
		paddy farming, prevalent in	by Japanese companies
		Asia, and for small-to-	based on the Open-Close
		medium-sized smart	Strategy, among other
		agricultural machinery. This	initiatives
		will facilitate the expansion	
		of Japan's smart farming	
		technologies into ASEAN.	
	METI	To reduce trade costs and	_
		build resilient supply	
		chains, guidelines will be	
		established to support	
		commoned to support	

	Japanese companies in	
	implementing international	
	standards set by the United	
	Nations Centre for Trade	
	Facilitation and Electronic	
	Business (CEFACT). This	
	initiative aims to advance	
	the digitalization of trade	
	procedures (Trade DX)	
	using trade platforms and	
	promote data integration	
	based on international	
	standards.	
MLIT	Promote the overseas	Number of times
	expansion and international	attending PIANC General
	standardization of technical	Assembly meetings (5
	standards through	times/year)
	participation in the WG of	
	the Permanent International	
	Association of Navigation	
	Congresses (PIANC).	
	Undertake initiatives to	Aim to undertake
	promote the adoption of	standards development
	ISO 31512 (ISO standard	related to cold chain
	for BtoB cold chain	logistics formulated by
	logistics services), for	other governments or
	which final consensus on	organizations with
	standardization was reached	Japan's cooperation.
	within the Technical	
	Committee (TC315) on	
	cold chain logistics	
	established by the	
	International Organization	
	for Standardization (ISO)	
	based on Japan's proposal.	
	Promote the international	In the field of automated
	standardization of Japan's	driving, contribute to the
	technologies and standards	development of
	technologies and standards	acveropment or

through active participation	international standards by
in the United Nations World	leading global
Forum for Harmonization	discussions in
of Vehicle Regulations	collaboration with
(WP.29), which establishes	automobile
international automotive	manufacturers.
standards.	
In collaboration with the	Number of international
ISO, World Meteorological	standards documents
Organization (WMO), and	developed and released
other international	on water disaster
organizations, promote the	prevention; number of
development of	international standards
international standards for	documents developed and
early warning systems in	released on early warning
water disaster prevention	systems in the
and	meteorological and
meteorological/hydrological	hydrological field
fields. This aims to expand	
investment in these areas	
within the international	
community and foster the	
formation of a global	
market where relevant	
companies, including	
Japanese enterprises, can	
thrive.	
In the field of 3D city	_
modeling, in collaboration	
with the Open Geospatial	
Consortium (OGC), an	
international standards	
organization working on the	
standardization of	
geospatial information, new	
standards will be	
developed. Furthermore, the	
construction of urban	
construction of urban	

		1: 2: 1: 1: 1:	
		digital twins is also	
		progressing in the Southeast	
		Asian region.	
		The National Institute of	Number of meetings
		Maritime, Port and Aviation	attended for international
		Technology conduct	standards.
		research with international	
		standards and	
		standardization in mind	
		from the planning stage of	
		research projects. It is also	
		contributes to international	
		standardization activities by	
		participating in the	
		preparation of proposals	
		for international standards	
		to organizations including	
		the International Maritime	
		Organization (IMO), the	
		International Civil Aviation	
		Organization (ICAO), the	
		International Organization	
		for Standardization (ISO),	
		and the Permanent	
		International Association of	
		Navigation Congresses	
		(PIANC). (reprinted)	
	MOE	Promote mutual	Expand the scope of
		certification between	products covered by
		Japan's Type I	mutual certification and
		environmental label "Eco	increase utilization
		Mark" and overseas Type I	
		environmental labels	
③ Strengthen	Cabinet Office	Establish a cross-sectional,	Identify target
cooperation with ASEAN	(Secretariat of	multi-layered G2G	countries/regions for
countries and others.	Intellectual Property	cooperation framework	cooperation and
	Strategy Headquarters)	with ASEAN countries in	commence discussions
	- among from quartors)	mind, in collaboration with	within FY2025 / Initiate
		inina, in conacciation with	within 1 1 2025 / Illitiate

	relevant ministries and	consensus agreements
	agencies (reprinted).	and related measures
		based on those consensus
		agreements by FY2026
MIC	Cooperation in the Asia-	Number of training
	Pacific Region (Asia-	programs and projects
	Pacific Telecommunity	implemented with Japan's
	[APT])	financial contributions
MHLW	Through training programs	Conduct training sessions
WIIIDW	on pharmaceutical and	for Asian countries at
	medical device regulations	least five times per year,
	for officials from regulatory	including explanations of
	authorities in Asian	· .
		internationally
	countries and other regions,	harmonized standards
	conducted by the Asian	and guidelines related to
	Training Center (ATC)	pharmaceutical
	established within the	regulations. Furthermore,
	Pharmaceuticals and	achieve a satisfaction rate
	Medical Devices Agency	of 75% or higher on a
	(PMDA), promote the	five-point scale (with 3
	proliferation and adoption	being "Good") in post-
	of internationally	seminar questionnaires.
	harmonized standards and	
	guidelines for	
	pharmaceutical regulations	
	in each country (reprinted).	
MAFF	To advance the	FY2025: Formulation of
	international	business models utilizing
	standardization of smart	international standards
	farming in ASEAN,	for Japanese companies
	collaborate with Western	entering the ASEAN
	forum standardization	region (5 or more cases)
	bodies (e.g., AgGateway) to	and others.
	develop and standardize	FY2026: Commencement
	data exchange	of business expansion by
	specifications for rice	Japanese companies
	paddy farming and small-	based on the Open-Close
	to-medium smart	Strategy and others.
	<u> </u>	

		agricultural machinery	
		prevalent in Asia, thereby	
		facilitating the expansion of	
		Japanese smart farming	
		technology into ASEAN.	
		Implement bilateral	FY2025: Implementation
		collaborative research with	of field verification in
		relevant countries and	ASEAN for applying
		engage with the ASEAN	Japan's carbon credit
		Secretariat to secure the	methodology, and others.
		adoption and inclusion of	FY2026: Adoption of at
		Japan's GHG reduction and	least three Japanese
		absorption technologies in	technologies into the
		the ASEAN Taxonomy's	ASEAN Taxonomy's
		Technical Screening	TSC, and others.
		Criteria (TSC).	FY2027: Adoption of
		Furthermore, by	Japanese technologies
		harmonizing Japan's carbon	into the TSCs of
		credit methodology (J-	Indonesia and Vietnam,
		Credits) with local ASEAN	and others.
		environmental conditions,	
		aim to facilitate the	
		deployment and market	
		development of Japanese	
		companies' GHG reduction	
		and absorption technologies	
		in ASEAN.	
	METI	Collaborate with ISO	Host symposiums and
		Regional Coordinators, IEC	seminars; participate in
		Regional Offices, and	the NEAS Forum, PASC,
		national standard-setting	and others
		institutions; participate in	
		relevant ASEAN meetings,	
		the APEC Standards and	
		Conformity Subcommittee	
		(SCSC), the Northeast Asia	
		Standardization	
		Cooperation (NEAS)	
		Cooperation (NEAS)	

Forum, and the Pacific Area Standards Conference	Į.
Standards Onterence	
(PASC).	
MLIT In the port sector, promote Conduct consultation	ons
the overseas deployment of with target countries	
technical standards for port technical standards	
facilities based on Japan's formulation suppor	t
technical standards, tailored	
to local natural conditions	
and technical and economic	
levels.	
In the port sector, through Number of particip	ating
activities such as the Japan- countries in the Jap	an-
ASEAN Port Engineers ASEAN Port Engin	neers
Meeting and other Meeting: 10 countr	ies
collaborative port	
technology research	
projects, aim to resolve	
technical challenges	
common to ASEAN and	
Japan.	
In the field of automotive Number of particip	ating
standards and certification countries in public-	
systems, promote the private joint forum	
international countries	3, 10
standardization of	
automotive safety and	
environmental standards	
and cooperation with Asian	
countries, including	
ASEAN nations, through	
initiatives such as public-	
private joint forums.	
MOE In the field of ISO/TC147 Within FY 2025,	
(Water Quality), multiple standards developed	nent
standards development for [ISO 5667-27	
concerning monitoring (Sampling)] will be	;
methods such as sampling completed.	

T		
	and analysis of	
	microplastics are	
	progressing in parallel. SC6	
	(Sampling) has	
	incorporated the content of	
	international guidelines on	
	monitoring methods for	
	drifting microplastics,	
	developed under Japanese	
	leadership. standardization	
	will promote the collection	
	of further data for effective	
	countermeasures, as well as	
	facilitate the international	
	expansion of Japanese	
	companies and researchers	
	requiring related	
	technologies.	
	Regarding waste-to-energy	Finalize the Public-
	projects within the circular	Private Partnership (PPP)
	industry, conduct research	Procurement Guidelines
	on strategies for introducing	for waste-to-energy
	Japan's waste-to-energy	projects in the Asian
	technologies, leveraging	region, developed in
	Japan's strengths, to	collaboration with the
	advance solutions to waste	Asian Development Bank
	issues in other countries	(ADB) under a
	through the adoption of	Memorandum of
	Japan's waste-to-energy	Cooperation with the
	technologies.	Ministry of the
	-	Environment (MOE), by
		FY 2025.
	Support project for	Secure three countries to
	improving the transparency	support the establishment
	of greenhouse gas	of systems that enhance
	emissions	corporate transparency
		regarding greenhouse gas
		emissions by 2030.
		511115510115 Uy 2050.

	Cabinet Office	Regarding smart cities,	_
	(Secretariat of Science,	promote the utilization and	
	Technology and	promote the utilization and proposal of relevant	
		international standards in	
	Innovation Policy),		
	METI, MLIT	collaboration with domestic	
		and international	
		standardization experts,	
		taking into account trends	
		in intellectual property and	
		standardization by other	
		countries and efforts for the	
		strategic and international	
		use of international	
		standards. Furthermore,	
		actively utilize international	
		standards when promoting	
		overseas expansion through	
		initiatives such as the	
		"Smart JAMP" overseas	
		smart city support measures	
		through mutual cooperation	
		between Japan and ASEAN,	
		which involves	
		collaboration among	
		concerned government	
		ministries.	
4 Host an international	Cabinet Office	Communication of Japan's	Implement
conference on	(Secretariat of	standardization initiatives at	communication at
international standards in	Intellectual Property	international conferences	international conferences
Japan.	Strategy Headquarters)		during FY2025
	METI	Promote efforts to host	Host international
		international conferences in	conferences in specific
		specific fields under ISO	fields under ISO and IEC
		and IEC, while also	in Japan
		advancing concrete	in supun
		-	
		preparations for Japan's bid	
		to host the 2029 IEC	
		General Meeting.	

MIC	In the field of mobile	Number of domestic
	phones and related	participants in meetings
	technologies, as part of	related to Japan's hosting
	contributing to	of the ITU-R SG5 WP5D
	standardization activities at	meeting in FY2025
	the International	
	Telecommunication Union	
	alongside domestic	
	stakeholders, Japan hosted	
	relevant meetings in	
	FY2025.	

That concludes this report