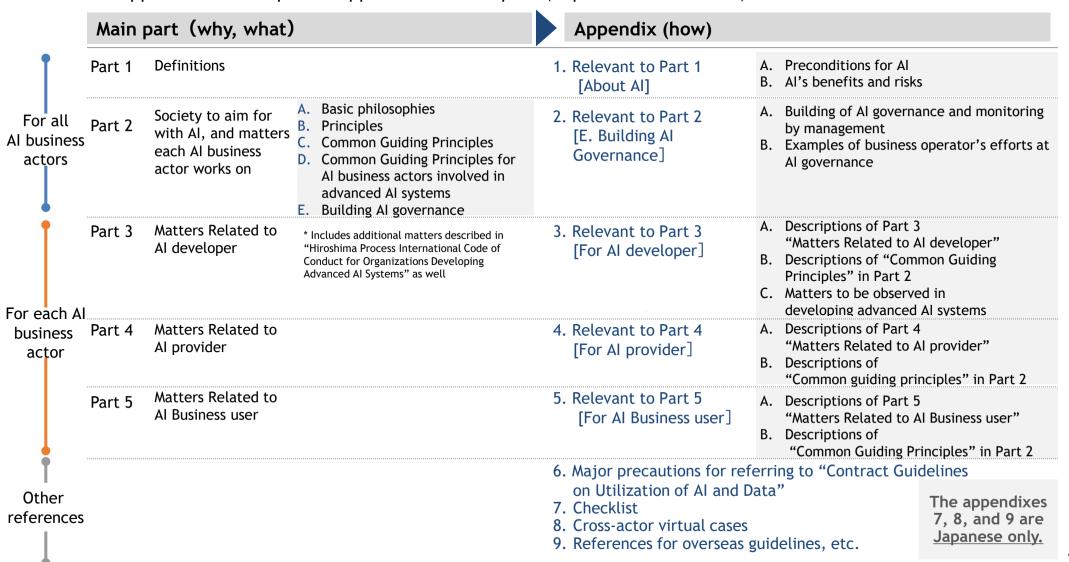


Outline of "AI Guidelines for Business Ver1.1"

Ministry of Internal Affairs and Communications
Ministry of Economy, Trade and Industry
(April 4, 2025)

Overall Structure of "AI Guidelines for Business"

- This guideline outlines the fundamental concepts necessary for the development, provision, and use
 of Al.
 - The main part: "the efforts to be made regarding AI (guiding principles = what)" based on "the ideal society while considering stakeholders' expectations (basic philosophies = why)"
 - > The appendix: "the specific approach to be adopted (implementation = how)"



Common Guiding Principles and Actors

• The ten "Common Guiding Principles" outline what each actor should address.

Activities to be implemented by each AI business actor

- 1) Human-Centric
 - 2) Safety
 - 3) Fairness
- 4) Privacy protection
- 5) Ensuring security
 - 6) Transparency
- 7) Accountability

Activities to be implemented in cooperation with society

- 8) Education/literacy
 - 9) Ensuring fair competition
 - 10) Innovation

• The parties that are involved in AI business activities are categorized into three groups: "AI developer," "AI provider," and "AI business user."

AI developer

Business operators who develop AI systems (including business operators who research AI).

Al provider

Business operators who incorporate AI systems into applications, products, or existing systems, business processes, etc., and provide them to AI business user and, in some cases, non-business user as services.

Al business user

Business operators who use AI systems or AI services in their businesses.

Outline of the main part



Background and Purpose of Formulating "Al Guidelines for Business"

- Technologies related to AI (Artificial Intelligence), as represented by generative AI, are constantly evolving, opportunities to use AI and its various possibilities have been increasing continuously. AI is being used for making industrial innovations and solving social challenges as well.
- In Japan, it is expected that AI will contribute to the realization of "Society 5.0."
- Japan led discussions held at international forums, such as the G7, G20, and OECD, and made a lot of contributions, starting with the proposal for AI R&D Principles at the G7.
- Given this situation, the aim is to actively and cooperatively develop a framework that achieves both promotion of innovation and reduction of risk across the lifecycle by providing a unified guiding principle in AI governance in Japan.

Innovation

Realization of "Society 5.0"

International Discussion

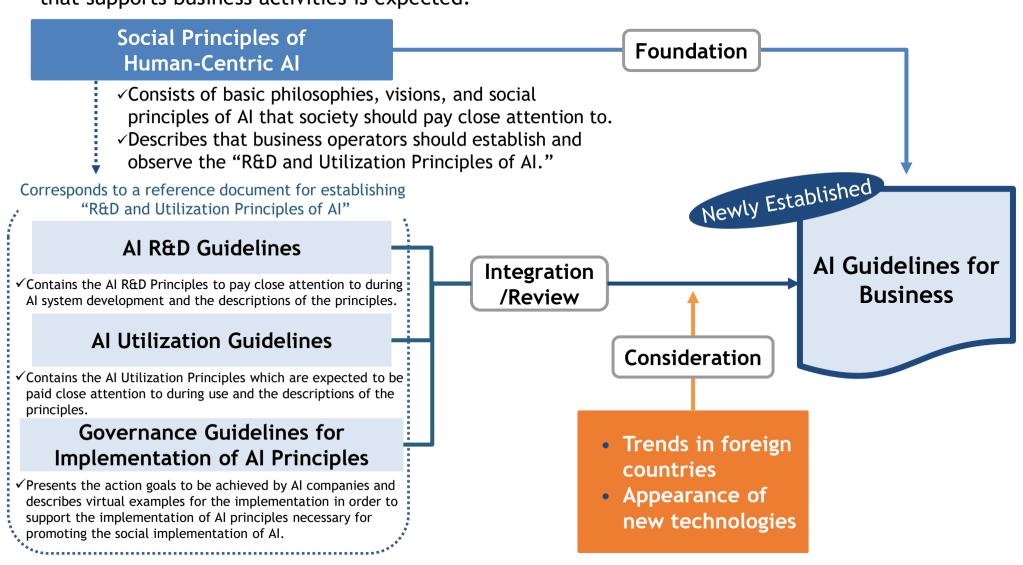
Formulation of "Al Guidelines for Business"

- Aim to actively and cooperatively develop a framework that achieves both promotion of innovation and reduction of risks across the lifecycle by encouraging those using AI in various businesses to fully recognize AI risks based on international trends and stakeholders' concerns.
- Aim to voluntarily take the necessary countermeasures across the entire lifecycle.



Policy for Formulating "AI Guidelines for Business"

- "Al Guidelines for Business" is established based on the "Social Principles of Human-Centric AI," integrating three guidelines in Japan, reflecting the features of AI technologies that had further advanced in recent years, and the international discussions about social implementation of AI.
- Ensuring consistency with previous guidelines, continuous development as a governance mechanism that supports business activities is expected.





Basic Concept of "AI Guidelines for Business"

- The basic concepts of "AI Guidelines for Business" are 1 Support for voluntary efforts by business operators, 2 Coordination with international discussions, and 3 Understandability for readers.
- In addition, the Guidelines will continue to be updated as a "Living Document" through continuous "multiple stakeholder" reviews and with an emphasis on effectiveness and legitimacy.

Concepts



Show directions for AI business actors founded on the risk-based approach where the degree of measures should be proportionate to the level and probability of risks.



Ensure consistency with trends and contents of domestic and overseas relevant principles.



Readers can check risks and handling policies that should be considered regarding AI, for each of AI developer, AI provider, and AI business user.

Processes

Multiple stakeholders

Established through studies conducted by multiple stakeholders that consisted of academic and research institutions, civil societies including general consumers, private sector companies, and the like, to prioritize effectiveness and validity.

Living Document

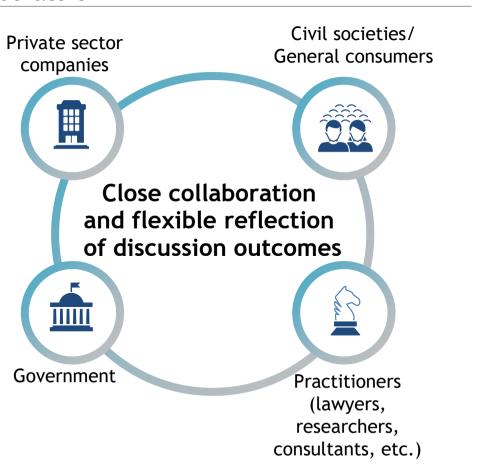
To continuously improve AI governance, updated as needed while reflecting the agile governance philosophy.



Reference) Multiple stakeholder Collaboration

The Guidelines are established through studies conducted by multiple stakeholders
that consisted of academic and research institutions, civil societies including general consumers,
private sector companies, and others, rather than having the government take the initiative alone,
to prioritize effectiveness and validity.

Collaborators



Collaboration Method

Numerous opportunities to exchange opinions and engage in discussion

- Review committee composed of the collaborators listed on the left
- Working groups primarily composed of practitioners
- Discussions with private sector companies



Gathering a wide range of knowledge through inquiries of opinions

- Approximately 100 experts
 - Private company representatives
 - Specialists, researchers
 - Civil societies, consumer groups, etc.

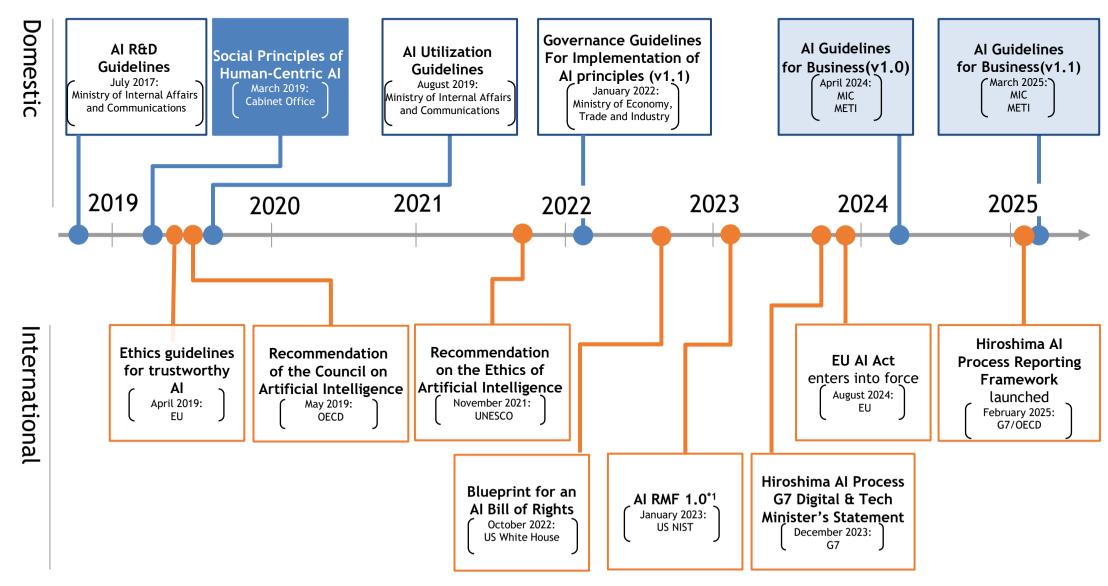


Gathering a wide range of opinions through public comments



Reference) Major Principles Related to Al, etc.

 As the formulation of various regulations and guidelines is actively discussed in other countries, "Al Guidelines for Business" will also be closely aligned with various principles and regulatory trends.





Positioning of main part and appendix of Al Guidelines for Business

- The main part covers "the efforts to be made regarding AI (guiding principles = what)" based on "the ideal society while considering stakeholders' expectations (basic philosophies = why)" that are important for using AI safely and securely to maximize the benefits of AI.
- The appendix covers "the specific approach to be adopted (implementation = how)" to lead AI business actors to take actual implementation of the principles.

Main part (why, what)



Appendix (how)



The ideal society while considering stakeholders' expectations (basic philosophies = why)



The efforts to be made regarding AI (guiding principles = what)



The specific approach to be adopted (implementation = how)



Structure of "Al Guidelines for Business"

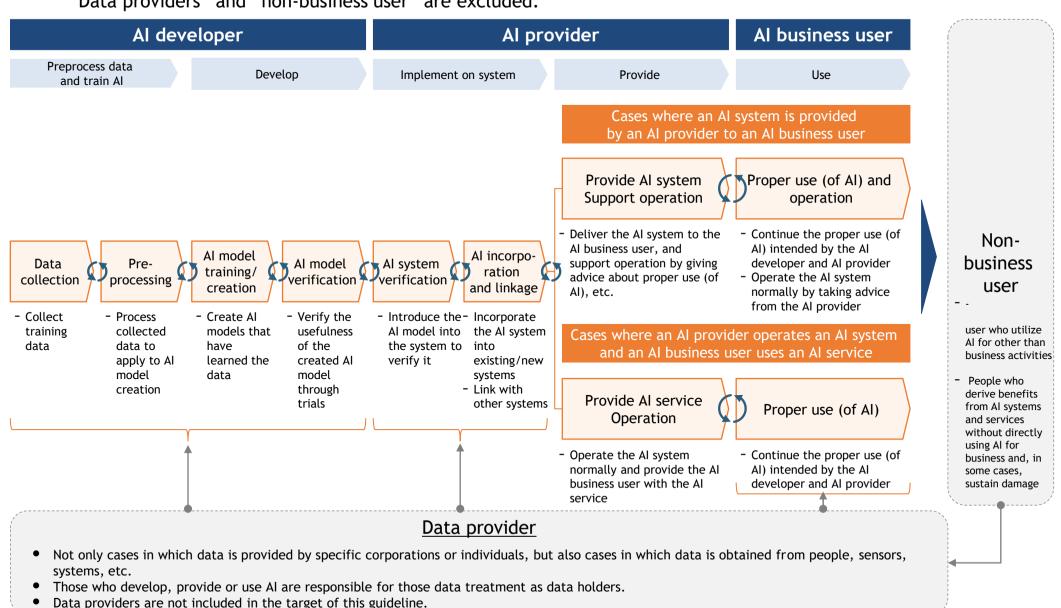
• The descriptions in the Appendix correspond to those in the main part and serve as a supporting document for the reading of the main part and considerations and actions based on the main part.

	Main	part (why, wha	at)	Appendix (how)		
	Part 1	Definitions		1. Relevant to Part 1 [About Al]	A. Preconditions for Al B. Al's benefits and risk	«S
For all Al business actors	Part 2	Society to aim for with AI, and matters each AI business actor works on	 A. Basic philosophies B. Principles C. Common Guiding Principles D. Common Guiding Principles for Al business actors involved in advanced Al systems E. Building Al governance 	2. Relevant to Part 2 [E. Building Al Governance]	A. Building of Al govern by managementB. Examples of business Al governance	_
For each A	Part 3	Matters Related to AI developer	* Includes additional matters described in "Hiroshima Process International Code of Conduct for Organizations Developing Advanced AI Systems" as well	3. Relevant to Part 3 [For Al developer]	 A. Descriptions of Part "Matters Related to "B. Descriptions of "Com Principles" in Part 2 C. Matters to be observed developing advanced 	AI developer" nmon Guiding ed in
business actor	Part 4	Matters Related to Al provider		4. Relevant to Part 4 [For Al provider]	A. Descriptions of Part of Matters Related to AB. Descriptions of "Common guiding processing to the Common guiding to the Common guiding processing to the Common guiding to the Common guiding to the Common guiding guidin	Al provider"
	Part 5	Matters Related to Al Business user		5. Relevant to Part 5 [For AI Business user]	A. Descriptions of Part 1"Matters Related to 2B. Descriptions of "Common Guiding P	Al Business user"
Other Guidelines on Utili 7. Checklist 8. Cross-actor virtual		6. Major precautions for Guidelines on Utilization7. Checklist8. Cross-actor virtual case9. References for oversea	referring to "Contra on of AI and Data" es	••••••••••••		

Responses to the General Al Utilization Process

• The parties that are involved in AI business activities are categorized into three groups: "AI developer," "AI provider," and "AI business user."

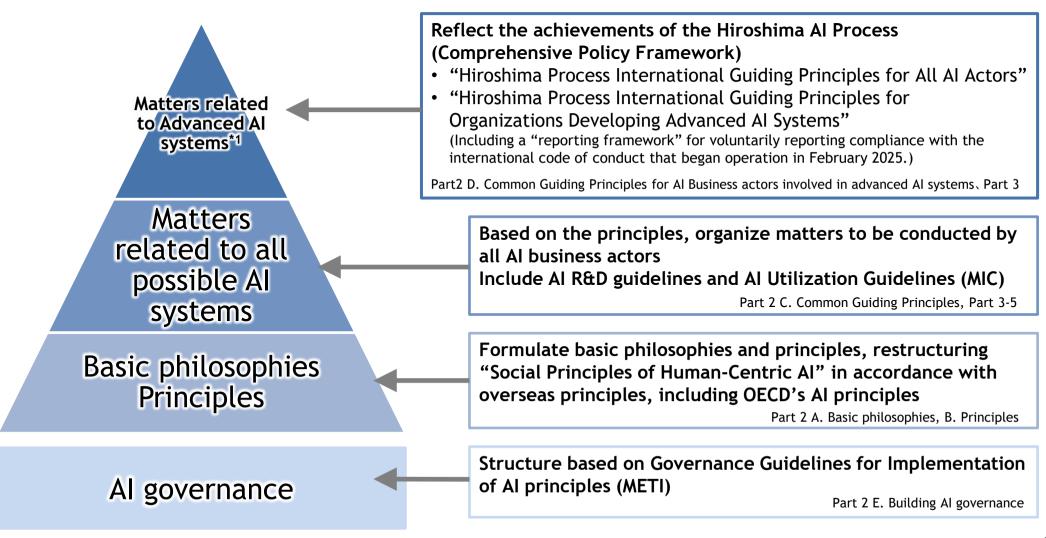
*"Data providers" and "non-business user" are excluded.





The parties the Guidelines are intended for

- Broadly covers all possible AI system and services, including general AI, while reflecting The Hiroshima AI Process Guiding Principles as well as Code of Conduct regarding advanced AI systems.
- For the actual development, provision, and use of AI, it is important that all business operators who intend to use AI will voluntarily promote specific efforts using the Guidelines as one of their references, such as properly building AI governance for compliance with the guidelines.



Basic Philosophies

• The "Social Principles of Human-Centric AI," which form the foundation of these guidelines, respect the following three values as "basic philosophies" and assert that we should build a society that is committed to the realization of these values. This universal perspective continues to be a guiding principle we should strive for in the future.

Dignity:

A society that has respect for human dignity

Basic philosophies

Diversity & Inclusion:

A society where people with diverse backgrounds can pursue their own well-being

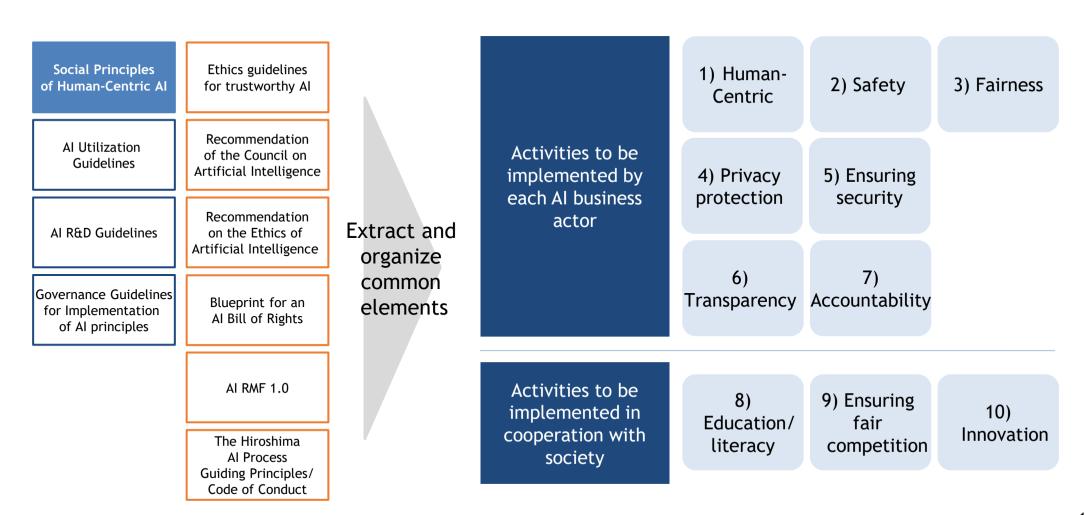
Sustainability:

A sustainable society



Common Guiding Principles for All Actors

- Principles that each actor should keep in mind to realize the basic philosophies are organized as the "Common Guiding Principles."
- The "Common Guiding Principles" are categorized into "activities to be implemented by each Al business actor" and "activities to be implemented in cooperation with society."





5) Ensuring

security

Common Guiding Principles for All Actors [1/2]

- The "Common Guiding Principles" that each actor should collaboratively address throughout the entire value chain are organized as follows.
- It is important that these initiatives are pursued voluntarily, considering the extent of risks posed by Al and the resource constraints of each actor.

Guiding Principles Content (excerpts of main points) ✓ Act so that AI expands human abilities and enables diverse people to seek diverse well-being. ✓ Recognize the increasing risk of destabilizing and confusing the society through **disinformation**. Humanmisinformation, and biased information, and take necessary countermeasures. Centric ✓ Pay attention to make it easy for socially vulnerable people to use AI to allow more people to enjoy the benefits ✓ Conduct appropriate risk analyses to take countermeasures against risks. ✓ Prevent damage due to a provision or use that deviates from the intended purpose the range in which the Al business actor can control. 2) Safety In accordance with the characteristics and purposes of AI systems and services, ensure the accuracy and recency of the data to be used for training, properly take actions such as the securement of transparency of data used for training, compliance with the legal framework, and update AI models to a reasonable Activities to extent. be implemente ✓ Attempt to eliminate unfair and harmful bias and discrimination against any specific individuals or groups d by each Al based on race, gender, national origin, age, political opinion, religion, and so forth. 3) Fairness ✓ To prevent AI from generating unfair results, consider implementing timely human interventions, rather business than letting AI make the decisions alone, and be careful of potential biases, etc. actor Observe relevant laws, including the Act on the Protection of Personal Information, and formulate and 4) Privacy announce the privacy policy of each Al business actor, to take measures to respect and protect the privacy of stakeholders, in accordance with its importance, based on the social contexts and legitimate protection expectations of people. Maintain the confidentiality, integrity, and availability of Al systems and services and ensure safe and

to address those risks, check the matters to be noted.

secure AI use constantly, take reasonable measures based on the technological level at the time.

✓ New methods for attacking AI systems and services from the outside are increasing on a daily basis. In order



Common Guiding Principles for All Actors [2/2]

- The "Common Guiding Principles" that each actor should collaboratively address throughout the entire value chain are organized as follows.
- It is important that these initiatives are pursued voluntarily, considering the extent of risks posed by Al and the resource constraints of each actor.

Guiding Principles

Content (excerpts of main points)

Activities to be implemente d by each Al business actor

6) Transparency ✓ <u>Provide stakeholders with information to the reasonable extent necessary</u> and technically possible while ensuring the verifiability of the AI system or service based on the social context when the AI system or service is used. (e.g., fact that AI is used and its scope, methods for data collection and annotation, capabilities and limitations of the AI system or service, proper/improper use by AI business user, etc.)

7) Accountability

- ✓ Provide and explain information to stakeholders within reasonable extent for ensuring traceability, conforming to common guiding principles, and the like.
- ✓ Establish and publicly report policies on Al governance or privacy.
- ✓ Document and store relevant information and keep keep them available for a prescribed period whenever and wherever required and able to be referenced in a manner appropriate for their use.

Activities to

8) Education /literacy

- ✓ Take the necessary steps to ensure that the persons engaged in Al in each Al business actor <u>acquire Al</u> <u>literacy of the level sufficient for the engagement</u>.
- ✓ It is expected to <u>provide stakeholders with education</u> in consideration of the characteristics of AI including its complexity and the misinformation that it may provide, and possibilities of intentional misuse of AI.

be 9) Ensuring fair competition with society

✓ Each AI business actor is expected to <u>maintain the fair competitive environment surrounding AI</u> so that new businesses and services using AI are created, the sustainable economic growth is maintained, and solutions for social challenges are provided.

10) Innovation

- ✓ Promote internationalization, diversification, <u>collaboration among industry, academia, and government sectors</u>, and open innovation.
- Ensure the interconnectivity and interoperability between your AI systems/services and other AI systems/services.
- ✓ When there are standard specifications, comply with them.



Part 2

Common Guiding Principles for AI Business actors involved in advanced AI systems

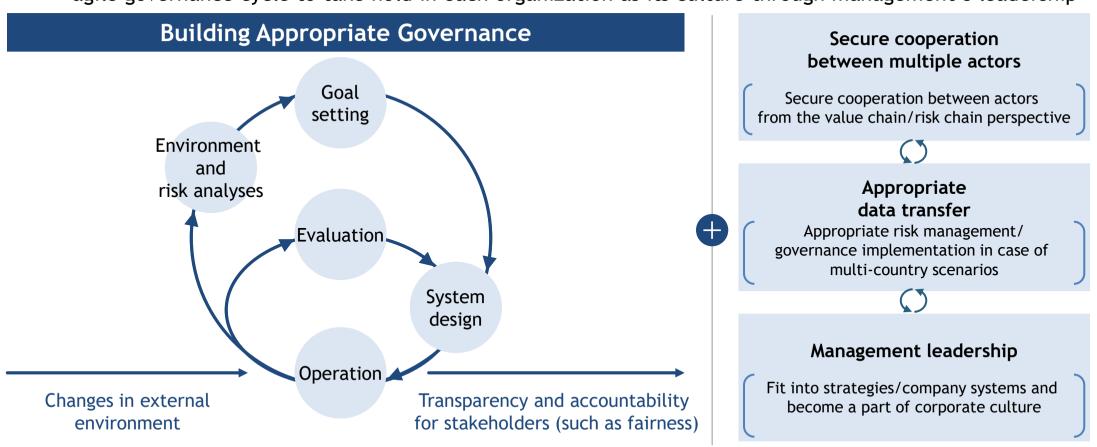
- The business actors involved in advanced AI systems should comply with the following in addition to the common guiding principles. Note that some items from I) to XI) are applicable only to AI developer of advanced AI systems, so AI provider and AI business user are required to comply with items within the appropriate scope.
- I. Take appropriate measures throughout the development of advanced AI systems, including prior to and throughout their deployment and placement on the market, to identify, evaluate, and mitigate risks across the AI lifecycle.
- II. Identify and mitigate vulnerabilities, and, where appropriate, incidents and patterns of misuse, after deployment including placement on the market.
- III. Publicly report advanced AI systems' capabilities, limitations and domains of appropriate and inappropriate use, to support ensuring sufficient transparency, thereby contributing to increase accountability.
- IV. Work towards responsible information sharing and reporting of incidents among organizations developing advanced AI systems including with industry, governments, civil society, and academia.
- V. Develop, implement and disclose AI governance and risk management policies grounded in a risk-based approach - including privacy policies, and mitigation measures, in particular for organizations developing advanced AI systems.
- VI. Invest in and implement robust security management, including physical security, cyber security and security measures against internal threats, throughout the AI lifecycle.
- VII. Develop and deploy reliable content authentication and provenance mechanisms, where technically feasible, such as watermarking or other techniques to enable user to identify AI-generated content.
- VIII. Prioritize research to mitigate societal, safety and security risks and prioritize investment in effective mitigation measures.
- IX. Prioritize the development of advanced AI systems to address the world's greatest challenges, notably but not limited to the climate crisis, global health and education.
- X. X) Advance the development of and, where appropriate, adoption of international technical standards.
- XI. Implement appropriate data input measures and protections for personal data and intellectual property.
- XII. Promote and contribute to trustworthy and responsible use of advanced AI systems.

^{*1:} For details, see the "Hiroshima Process International Guiding Principles for All AI Actors" in the "Hiroshima AI Process G7 Digital & Tech Ministers' Statement" adopted on December 1, 2023, at the G7 Digital and Technology Ministerial Meeting.



Building AI governance

- In order to utilize AI safely and securely, it is important to manage risks by establishing appropriate governance under the leadership of management, paying attention to the following:
 - Secure the cooperation for issues among multiple AI business actors from the viewpoints of value chain and risk chain
 - If the value and/or risk chains are expected to span multiple countries, understand how the international society is studying AI governance suitable for ensuring free distribution of data
 - Fit Al governance into the strategy of each organization as well as the company system expecting the agile governance cycle to take hold in each organization as its culture through management's leadership





Matters Related to Al developer [1/2]



• It is especially important for AI developer to study in advance as much as possible the impacts that the AI they develop may pose when it is provided or used and take necessary measures against the impacts as they can directly design and modify AI models

necessar y	incusures against the impacts as they ean an ectty design and modify in models
During data preprocessing/ training	 D-2) i. Proper data training Properly collect training data through privacy-by-design, etc., and if it contains third-parties' personal data, data requiring attention to intellectual property rights, etc., ensure that it is properly handled in compliance with laws and regulations. Implement proper protective measures, for example, considering the deployment of any data management and restriction function that controls access to data.
training	 D-3) i. Consideration for bias in data - Take reasonable measures to control the quality of the data, noting that there may be biases on the learning process of training data and AI models. - Based on the fact that biases cannot be completely eliminated, make sure AI models are trained with properly represented data sets and check AI systems assume no bias.
	D-2) ii. Development that takes - Consider requirements for the performance achievable under the use in an into consideration unexpected environment, and methods for <u>minimizing risks</u> . the lives, bodies, properties, and minds of humans and the environment
When	D-2) iii. Development contributing to proper use (of Al) - Establish clear policies and guidance on the safe use of Al and select a proper pre-trained Al model when giving a post-training.
developing AI	 D-3) ii. Consideration for bias in algorithms, etc., of Al models Consider the possibility that bias can be included by each technical element makes up the Al model. Make sure Al models are trained with properly represented data sets and Al systems assume no bias based on the fact
	D-5) i. Deployment of mechanisms for security measures security measures - Take security measures appropriately based on the characteristics of the adopted technologies (secure by design).
	D-6) i. Ensuring verifiability - Note that the prediction performance and output quality of AI may significantly change or may fail to attain the expected precision after the use of AI is started. Preserve work records for follow-up verification and take measures to maintain and improve the AI quality.



Matters Related to Al developer [2/2]



• It is especially important for AI developer to study in advance as much as possible the impacts that the AI they develop may pose when it is provided or used and take necessary measures against the impacts as they can directly design and modify AI models

	D-5) ii. Consideration for the latest trends	 New attack methods to Al systems are increasing on a daily basis. In order to address those risks, considerations to be noted in each step of development should be identified.
	D-6) ii. Providing relevant stakeholders with information	 Provide information on safety, including technical characteristics of AI systems, mechanisms for ensuring safety, foreseeable risks, remedies against them, causes of failures, and status of actions against them.
After developing AI	D-7) i. Explanation to Al provider of conformity to common guiding principles	- <u>Explain</u> to AI provider that the output quality of AI may significantly change and that <u>risks may arise as a result of this characteristic</u> .
	D-7) ii. Documentation of development-related information	- <u>Prepare documents</u> on your AI system development processes, data collection and labeling affecting decision-makings, algorithms you have used, and related matters.
	D-10) i. Contribution to creation of opportunities for innovation	 Research and develop quality, reliability, and development methodologies. Contribute to the maintenance of the sustainable economic growth and the provision of solutions for social challenges. Promote internationalization, diversification, and collaboration among industry, academia, and government sectors, including watching trends in international arguments, such as DFFT, and joining Al developer communities and academic societies. Provide all of society with information about Al.

See "Hiroshima Process International Code of Conduct for Organizations Developing Advanced AI Systems" for AI developer who develop advanced AI systems, including the most advanced foundation models and generative AI systems.



Matters Related to Al provider [1/2]

• It is important for Al provider to provide Al systems and services on the precondition that Al is operated and proper use

		P-2) i.	Actions against risks that consider the lives, bodies, properties, and minds of humans and the environment	Take measures to ensure proper performance under usage conditions, enabling the AI system to maintain those performances in various situations, and <u>minimizing risks</u> .
		P-2) ii.	Provision - contributing to proper use (of AI)	Use AI within the expected scope of use set by AI developer Guarantee the accuracy and while examining how AI usage environments of the AI system or service differ from those that AI developer expect.
	When implementing an AI system	P-3) i.	Considerations for bias in configurations or data of Al systems and services	Guarantee fairness of data and <u>examine bias</u> contained in referenced information and collaborating external services. Regularly evaluate inputs/outputs of AI models and <u>rationales of decisions</u> made by AI models to monitor for any bias generated. Examine the possibility where bias may be introduced that arbitrarily restricts decisions made by users receiving AI output results.
		P-4) i.	Deployment of mechanisms and measures for protecting privacy	<u>Take privacy protection measures</u> by, for example, introducing a mechanism that appropriately manages and restricts access to personal data based on the characteristics of the adopted technologies (privacy by design).
		P-5) i.	Deployment of mechanisms for security measures	Take security measures appropriately based on the characteristics of the adopted technologies (security by design).
		P-6) i.	Documentation of systems architectures and the like	<u>Prepare documents</u> describing the system architecture and data processing of the provided AI system or service that influences the decision-making.



Matters Related to Al provider [2/2]

• It is important for Al provider to provide Al systems and services on the precondition that Al is operated and proper use

	P-2) ii. Provision contributing to proper use (of Al	- Periodically verify whether the AI system or service is used for <u>proper purposes</u> .
	P-4) ii. Countermeasure against privacy violation	 Collect information on privacy violation in AI systems and services, properly handle violations if there are any, and take the necessary steps to prevent a recurrence.
	P-5) ii. Handling vulnerabilities	 Identify trends in the latest risks and matters requiring attention in each provision step and make efforts to eliminate vulnerabilities as well.
After an Al system or service starts to be provided	P-6) ii. Providing releval stakeholders wit information	
	P-7) i. Explanation to A business user of conformity to common guiding principles	data for which accuracy, and recency as necessary are guaranteed, and to the learning of inappropriate AI models during in-context learning, as well as
	P-7) ii. Documentation of service agreeme or the like	

Al provider handling advanced Al systems should comply with the "D. Common Guiding Principles for Al business actors involved in advanced Al systems" in Part 2, I. to XI. within the appropriate scope and comply with XII.



Matters Related to Al Business user



Part 5

• It is important that AI business user always use properly within the scope of use set bey the AI provider and, as necessary, operate the AI systems, and expected to learn the necessary insights to use AI more effectively

effectivel	У	
	U-2) i. Proper use (of a that considers safety	 Conform to instructions for use specified by Al provider and use within the expected scope of use set by Al provider during the design process. Understand the degrees of precision and risks of Al output and use Al output after confirming various risk factors,
	U-3) i. Consideration f bias in input da prompt	
	U-4) i. Countermeasur against inappro input of person and privacy vio	priate - Collect information on privacy violations in Al systems and services properly and take the necessary steps to prevent violations.
Whom wains	U-5) i. Implementation security measu	
When using Al systems and services	U-6) i. Providing relevant stakeholders with information	
	U-7) i. Explanation to relevant stakeh	 Provide information in a plain and accessible manner to relevant stakeholders in advance how to provide the data and its format based on the characteristics and use purposes of AI, contact points with them, privacy policies, and the like. If intending to use the AI output result as a reference for an evaluation of a specific individual or group, make a reasonable judgment by humans. Set up a help desk that handles inquiries from relevant stakeholders to give explanations and receive requests in cooperation with the AI provider.
	U-7) ii. Effective use of provided documents	nents by the Al provider.



