



香港個人資料私隱專員公署 Office of the Privacy Commissioner for Personal Data, Hong Kong

Al and Personal Data Protection:

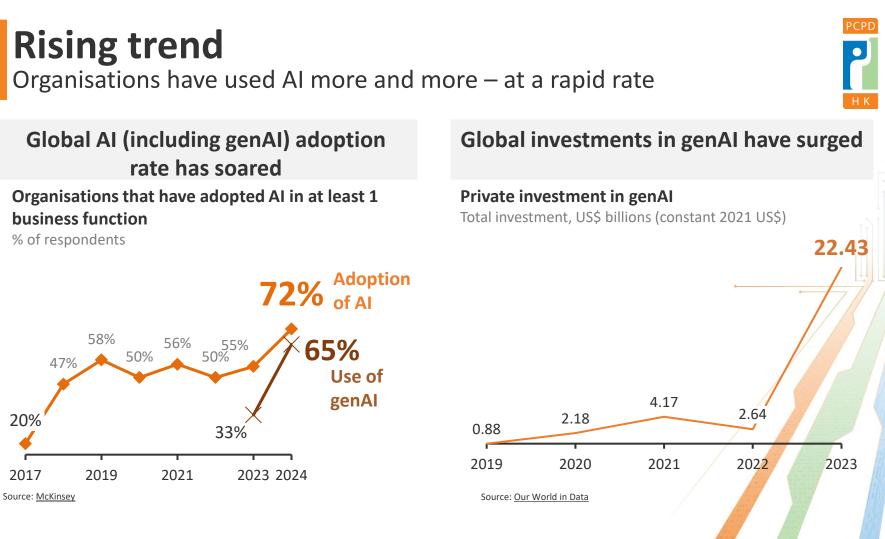
Challenges and Recommendations on Governance

Cyber Security Summit Hong Kong 2024

24 October 2024

Ada CHUNG Lai-ling

Privacy Commissioner for Personal Data



Privacy Risks Al poses personal data privacy risks



	Risk	💬 Explanation	🔤 Illustration
Q	Data Breach	Al systems, like chatbots, may retain extensive user records , making them a target of hackers a nd leading to potential data breach .	In March 2023, ChatGPT suffered a major data breach , revealing users' conversation titles , names , email addresses , and the last four digits of their credit card numbers.
· · · ·	Use of data	Al models can be so advanced that people find it hard to understand how their personal data would be used.	Some AI models can identify the race of some patients even if that is not the purpose of the models .
80	Excessive data collection	AI applications tend to collect and retain as much data as possible , including personal data.	OpenAl reportedly scraped 300 billion words online to train ChatGPT.
\checkmark	Data accuracy	Training AI models requires lots of data. But when the quality and accuracy of that data are suboptimal , the AI system risk delivering incorrect analyses.	An Al recruitment system of a multinational company was trained with biased data and favoured male over female applicants.

Organisation's awareness and readiness

Organisations see genAI as posing higher privacy risks



Perceived privacy risks levels of emerging technologies

Hong Kong enterprises, 2023

Few enterprises implemented internal guidelines for Gen AI use

Generative Al



Ranked

1 st

Cookies and other online trackers



Cloud computing



Internet of Things



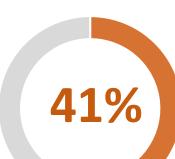
h

Blockchain related technology



Data analytics and work process automation

Enterprises using Gen Al which implemented internal guidelines 2023







Best of both worlds

Is it possible to enjoy benefits of AI while ensuring privacy protection?

Privacy risks need to be carefully managed



Benefits of AI can be enjoyed

Source: AI-generated image from Microsoft Copilot

Q

Global developments

Jurisdictions have taken various approaches to regulating AI



Regulatory Approaches



 First comprehensive horizontal law - Al Act (in force since Aug 2024)

European Union



legislation on Al

Sectoral approach

Singapore

Sectoral approach
PDPC published "Model AI Governance Framework" and other guidelines

No comprehensive



Japan

- No laws or regulations specifically to govern AI
- "Soft law" (non-binding guidelines) now in place

- AI bills under consideration
- Existing laws apply in the meantime
- PIPC published "Guide to the Processing of Disclosed Personal Information for AI Development and Services"

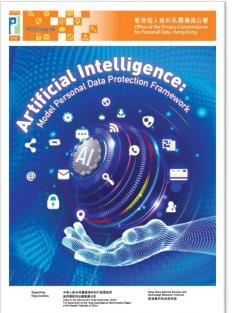
National developments The Mainland has published regulatory documents covering multiple aspects of AI



	Regulatory Documents	Effective
•	Draft Measures for Labelling AI-Generated Synthetic Content	
•	Cybersecurity technology — Labelling method for content generated by artificial intelligence	(Consultation ongoing)
٠	AI Safety Governance Framework	Sep 2024
•	Basic Security Requirements for Generative Artificial Intelligence Service	Feb 2024
•	Global AI Governance Initiative	Oct 2023
٠	Interim Measures for the Management of Generative Artificial Intelligence Services	
•	Practical Guidance of Cybersecurity Standards – Labelling Methods for Content Generated by Generative Artificial Intelligence Services	Aug 20 <mark>23</mark>
•	Provisions on the Administration of Deep Synthesis of Internet-based Information Services	Jan <mark>20</mark> 23
•	Rules on the Management of Algorithmic Recommendations in Internet Information Services	Mar 2022
	•	 Draft Measures for Labelling Al-Generated Synthetic Content Cybersecurity technology — Labelling method for content generated by artificial intelligence Al Safety Governance Framework Basic Security Requirements for Generative Artificial Intelligence Service Global Al Governance Initiative Interim Measures for the Management of Generative Artificial Intelligence Services Practical Guidance of Cybersecurity Standards – Labelling Methods for Content Generated by Generative Artificial Intelligence Services Provisions on the Administration of Deep Synthesis of Internet-based Information Services Rules on the Management of Algorithmic Recommendations in Internet Information

Artificial Intelligence: Model Personal Data Protection Framework





Feature





Assist organisations in complying with the requirements of the Personal Data (Privacy) Ordinance

Benefits



Al security is one of the major areas of national security



A set of recommendations on the best practices for organisations procuring, implementing and using any type of AI systems, including generative AI, that involve the use of personal data



Nurture the healthy development of AI in Hong Kong



Facilitate Hong Kong's development into an innovation & technology hub

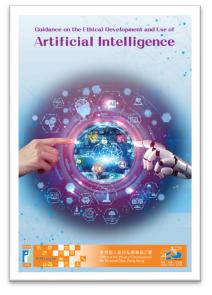


Propel the expansion of the digital economy not only in HK but also GBA

Foundation of the Framework

The Framework aligns with internationally recognised values and principles





3 Data Stewardship Values

- 1. Being respectful
- 2. Being beneficial

3. Being fair

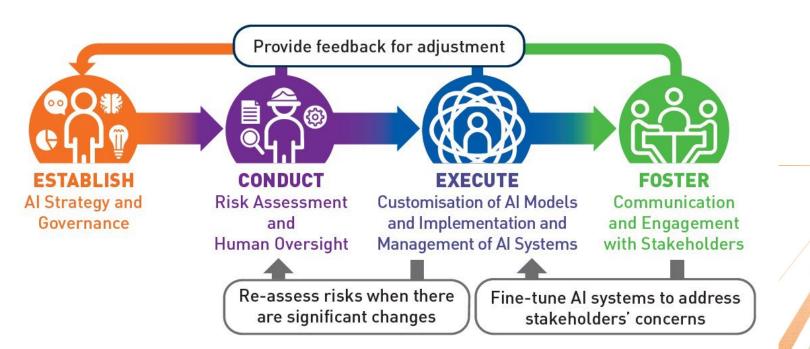
7 Ethical Principles for AI

- 1. Accountability
- 2. Human oversight
- 3. Transparency & interpretability

- 4. Data Privacy
- 5. Fairness
- 6. Beneficial AI
- 7. Reliability, robustness & security

Model Personal Data Protection Framework

Artificial Intelligence: Model Personal Data Protection Framework

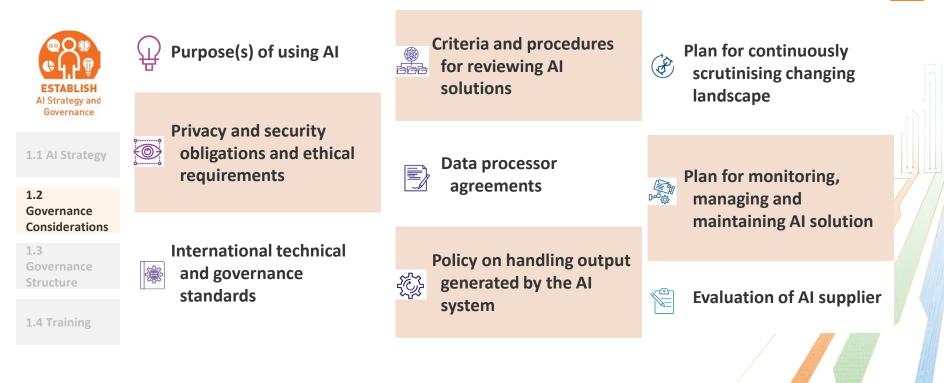


PCPD

ΗК

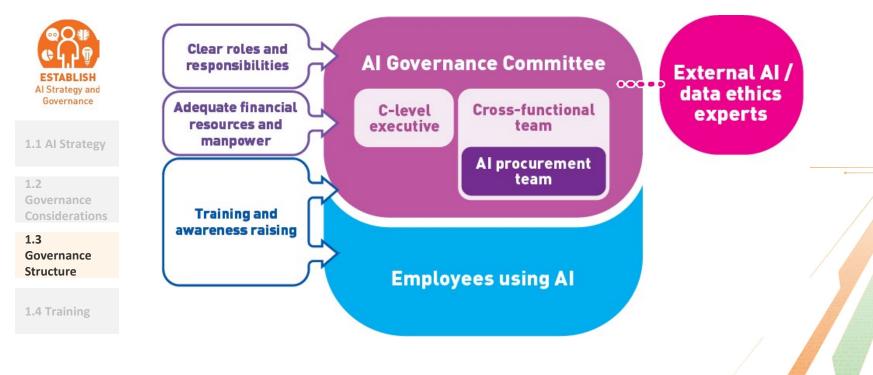
Governance considerations

An organisation intending to invest in AI solutions may consider



Governance Structure

An internal governance structure with sufficient resources, expertise and authority should be established



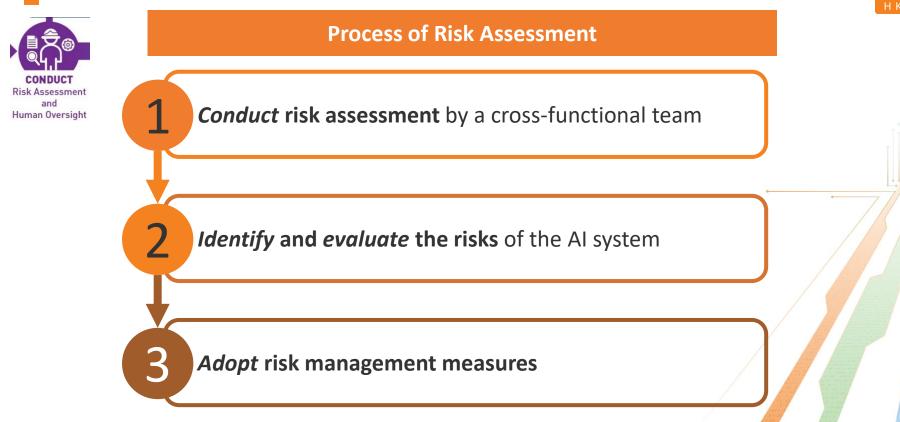
PCPD

2

ΗК

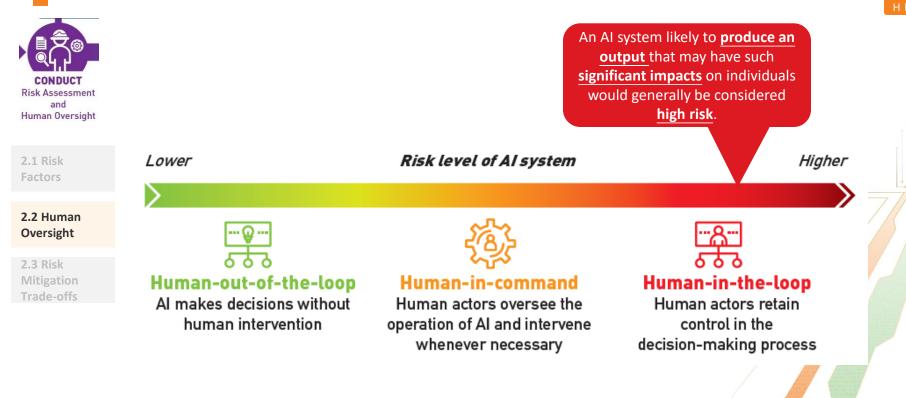
Conduct

Risk assessment and human oversight



Risk-based approach

The level of human oversight should correspond with the risks identified



P

Examples The below use cases may incur higher risks





2.1 Risk Factors

2.2 Human Oversight

2.3 Risk Mitigation Trade-offs Real-time identification of individuals using biometric data



Evaluation of individuals' eligibility for social welfare or public services

	Assessmen	t	of	job
-	applicante	~ `	1	lu at

applicants, evaluation of job performance or termination of employment contracts



creditworthiness of individuals for making automated financial decisions

Evaluation of the



Al-assisted medical imaging analytics or therapies

Execute: Data Preparation

Compliance, data minimization, quality management, data handling





3.1 Data Preparation

3.2 Customisation Implementation

3.3 Management & Monitoring

Selected Recommendations

Ensure compliance with privacy law

Minimise the amount of personal data involved

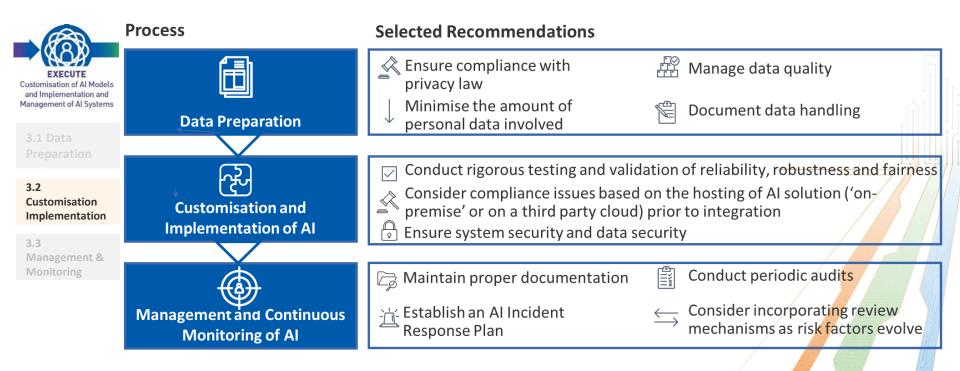
📅 Manage data quality

😤 Document data handling

Example

- A fashion retail platform is purchasing a thirdparty developed AI chatbot that it will customise to provide fashion recommendations to its customers
- The company may find it necessary to use the past purchases and browsing histories of different segments of its customer groups to fine-tune the chatbot
- However, the use of personal data, such as customers' names, contact details and certain demographic characteristics, would not be necessary

Execute: Customisation of AI Models and implementation and management of AI systems





Foster

Communication and engagement with stakeholders



2

Contact Us

- 👕 Hotline 2827 2827
- % Website www.pcpd.org.hk
- Email communications@pcpd.org.hk
- Address Unit 1303, 13/F, Dah Sing Financial Centre, 248 Queen's Road East, Wanchai, Hong Kong

📄 Fax 2877 7026



保障、尊重個人資料私隱