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

HKICPA IT Conference 2024

AI Governance and Privacy: Best Practices for Accountants

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Head of Global Affairs and Research,
PCPD**

9 November 2024



PolyMATH?

LLMs can do many things, but often struggle with calculations

Gemini-1.5-Pro Poe

47323 multiplied by 19223 is calculated as follows:

```
47323
x 19223
-----
141969 (47323 * 3)
 94646 (47323 * 2 * 10)
 946460 (47323 * 2 * 100)
42590700 (47323 * 9 * 1000)
47323000 (47323 * 1 * 10000)
-----
909230429
```

Therefore, $47323 * 19223 = 909,230,429$

Microsoft Copilot

63

47323*19223 10:55 AM ✓✓

That equals 909,262,229.
Anything else you need
crunched? 10:56 AM

Llama-3.1-405B Poe

47323*19223

Calculation

To calculate the product of 47323 and 19223, we multiply the two numbers together.

$47323 \times 19223 = 909,131,529$

GPT-4o Poe

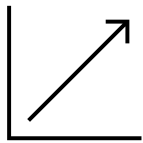
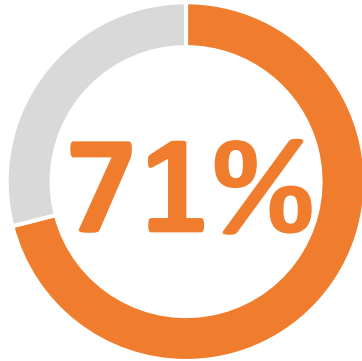
47323*19223

The product of 47323 and 19223 is
909,365,729.

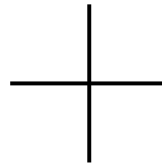
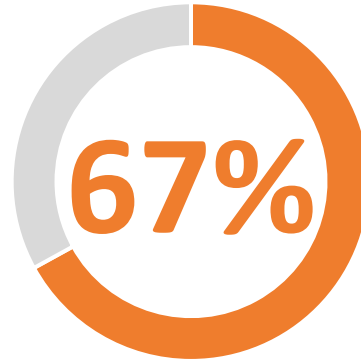
Which one is right?

Statistics

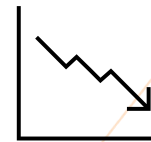
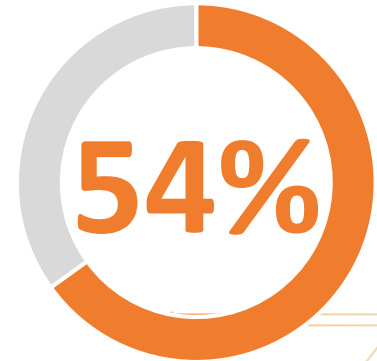
Accountants are quite positive on AI



**believe that AI will
bring substantial
changes to the
accounting industry**



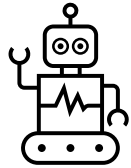
**agree that AI can
serve as a
competitive
advantage**



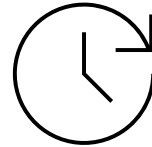
**believe that
the value of a firm
drops if it
doesn't use AI**

AI Adoption

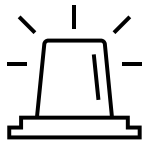
The accounting industry has been exploring AI to help their work



**Task
automation**



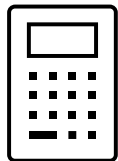
**Predictive
analytics**



Fraud detection



**Regulatory
compliance**



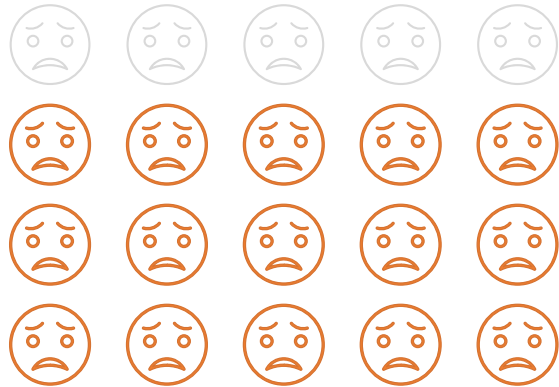
**Real-time financial
reporting**



**Enhanced client
interactions**

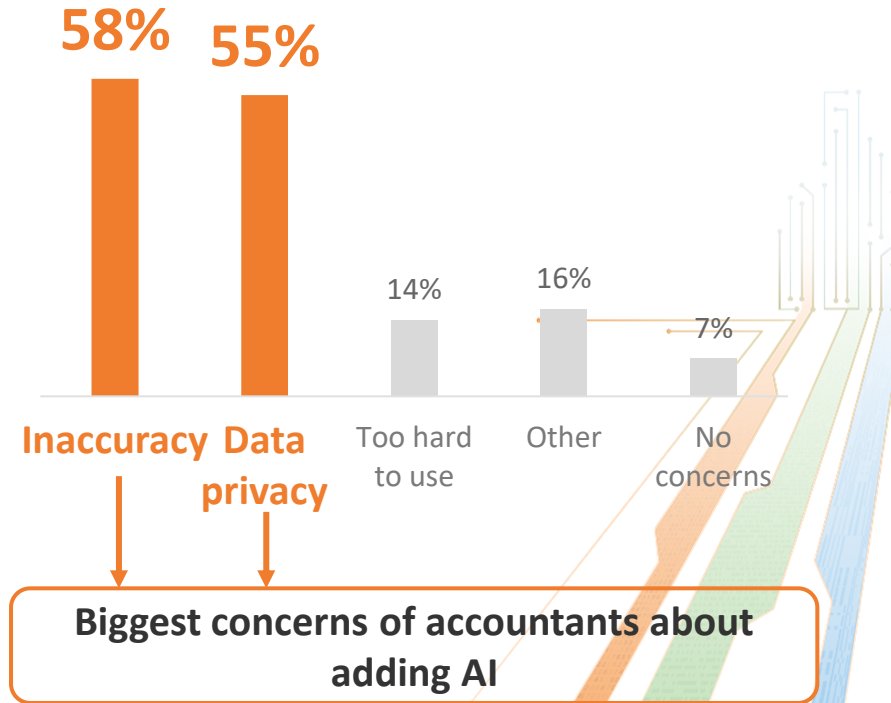
Over-optimistic?

Despite promises, the industry knows it needs to be cautious



76%

of accountants concerned about data security when evaluating AI tools



Risks

Different risks have arisen from AI

1

Privacy risks



Excessive data collection



Misuse of data



Data security



Identity re-identification



Data accuracy

2

Ethical risks



Interpretation of decisions



Harmful content



Copyright issues

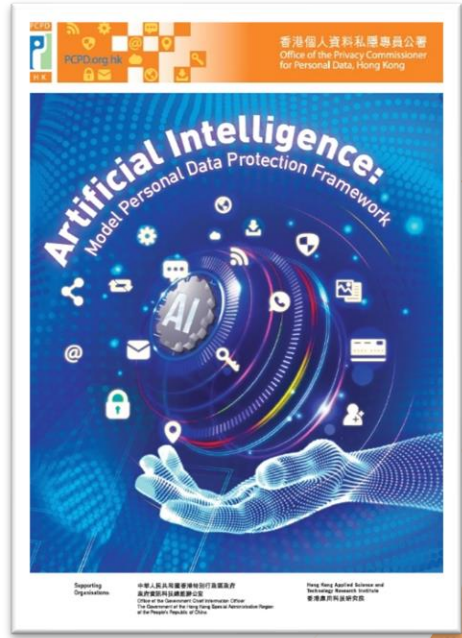
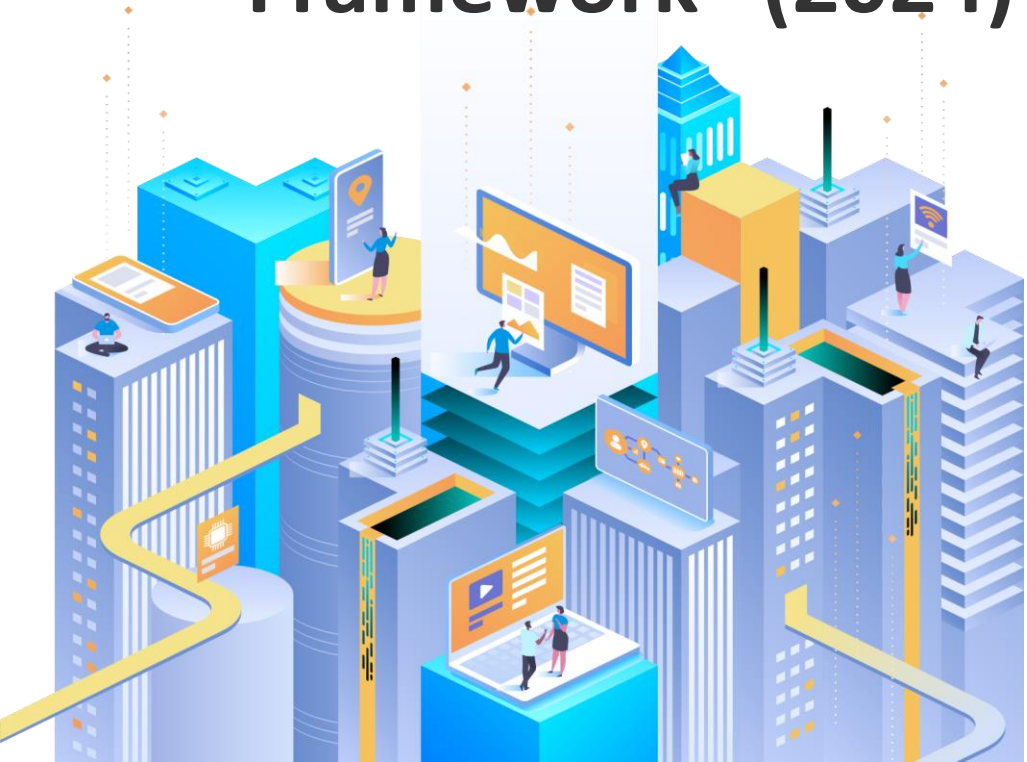


Bias and inaccuracies



Hallucination

Overview of "Artificial Intelligence: Model Personal Data Protection Framework" (2024)



International standards

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

4. Data Privacy

2. Human oversight

5. Fairness

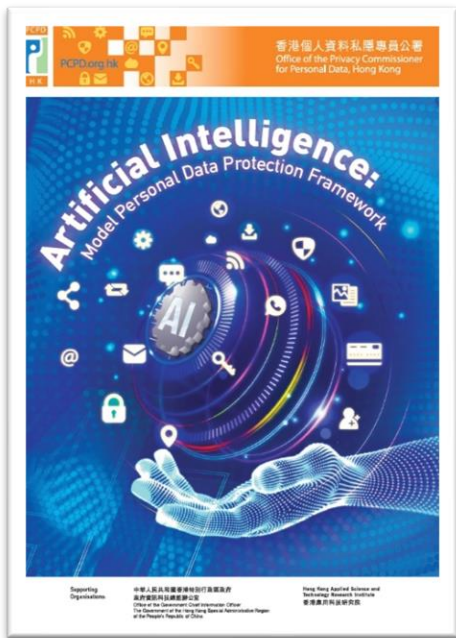
3. Transparency & interpretability

6. Beneficial AI

7. Reliability, robustness & security

Model Personal Data Protection Framework

Artificial Intelligence: Model Personal Data Protection Framework



Feature



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

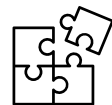
Benefits



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



Nurture the healthy development of AI in Hong Kong

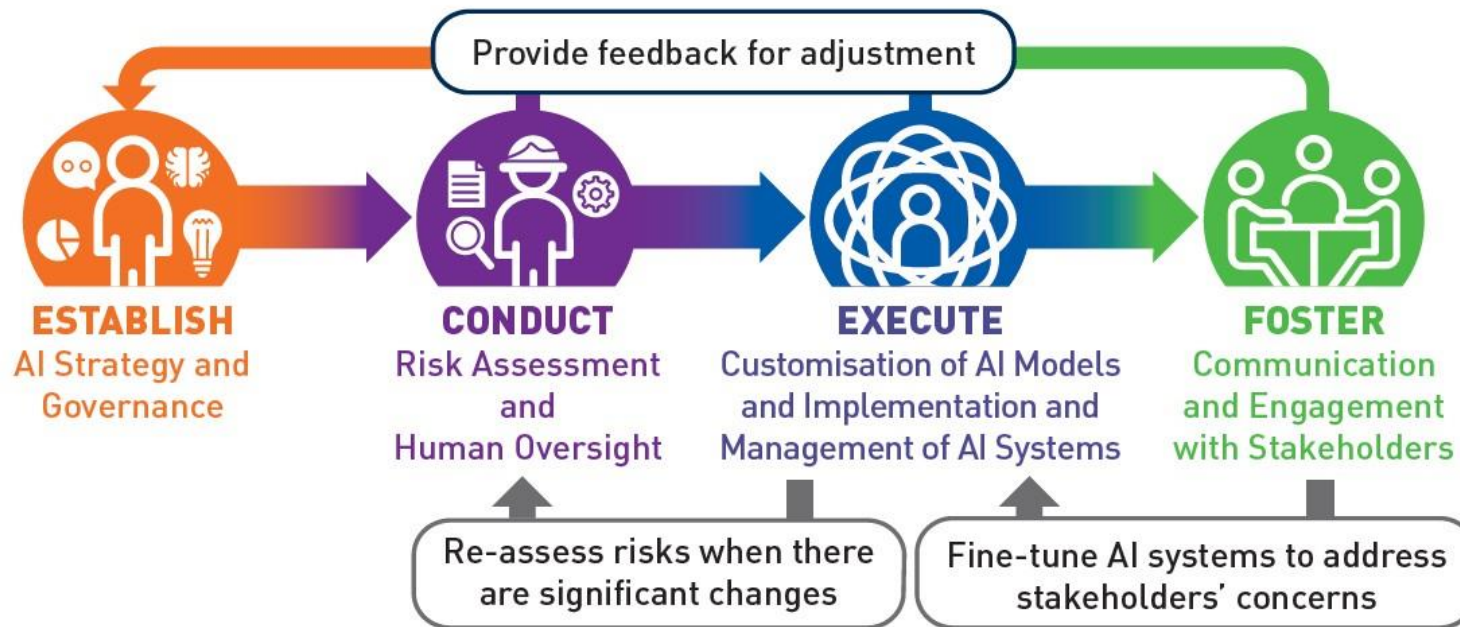


Facilitate Hong Kong's development into an innovation & technology hub



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

Artificial Intelligence: Model Personal Data Protection Framework



AI Strategy

An AI strategy shows management's commitment



Functions



Demonstrate the commitment of top management to the ethical and responsible procurement, implementation and use of AI



Provide directions on the purposes for which AI solutions may be procured, and how AI systems should be implemented and used

Elements that may be included



Setting out **ethical principles**



Establishing **specific internal policies and procedures**



Determining the **unacceptable uses** of AI systems



Regularly **communicating the AI strategy, policies and procedures**



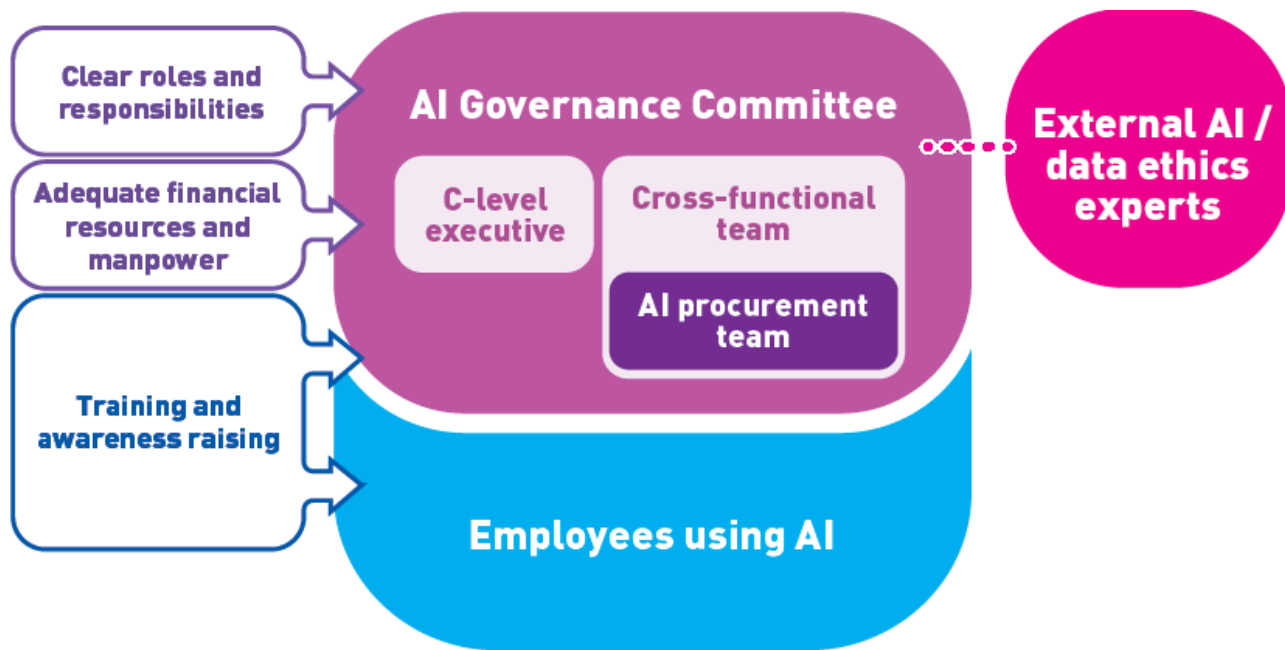
Establishing an **AI inventory**



Considering **emerging laws and regulations** that may be applicable

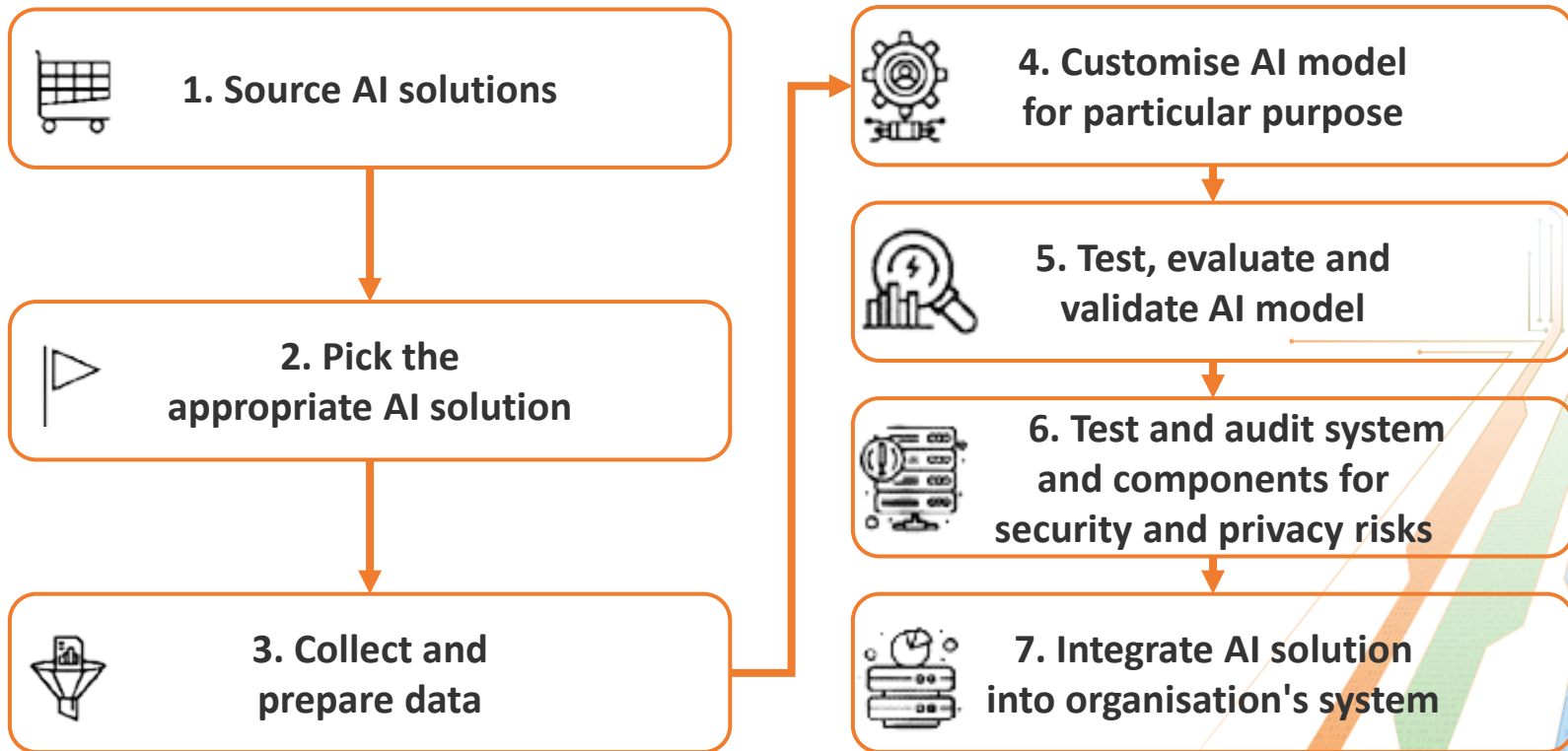
Governance Structure

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



7 Steps for AI Procurement and Implementation

The flowchart shows the general process



Governance Considerations

An organisation intending to invest in AI solutions may consider these:



Purpose(s) of using AI

1



Privacy and security obligations and ethical requirements

2



International technical and governance standards

3



Criteria and procedures for reviewing AI solutions

4



Data processor agreements

5



Policy on handling output generated by the AI system

6



Plan for continuously scrutinising changing landscape

7



Plan for monitoring, managing and maintaining AI solution

8



Evaluation of AI supplier

9

Training and Awareness Raising

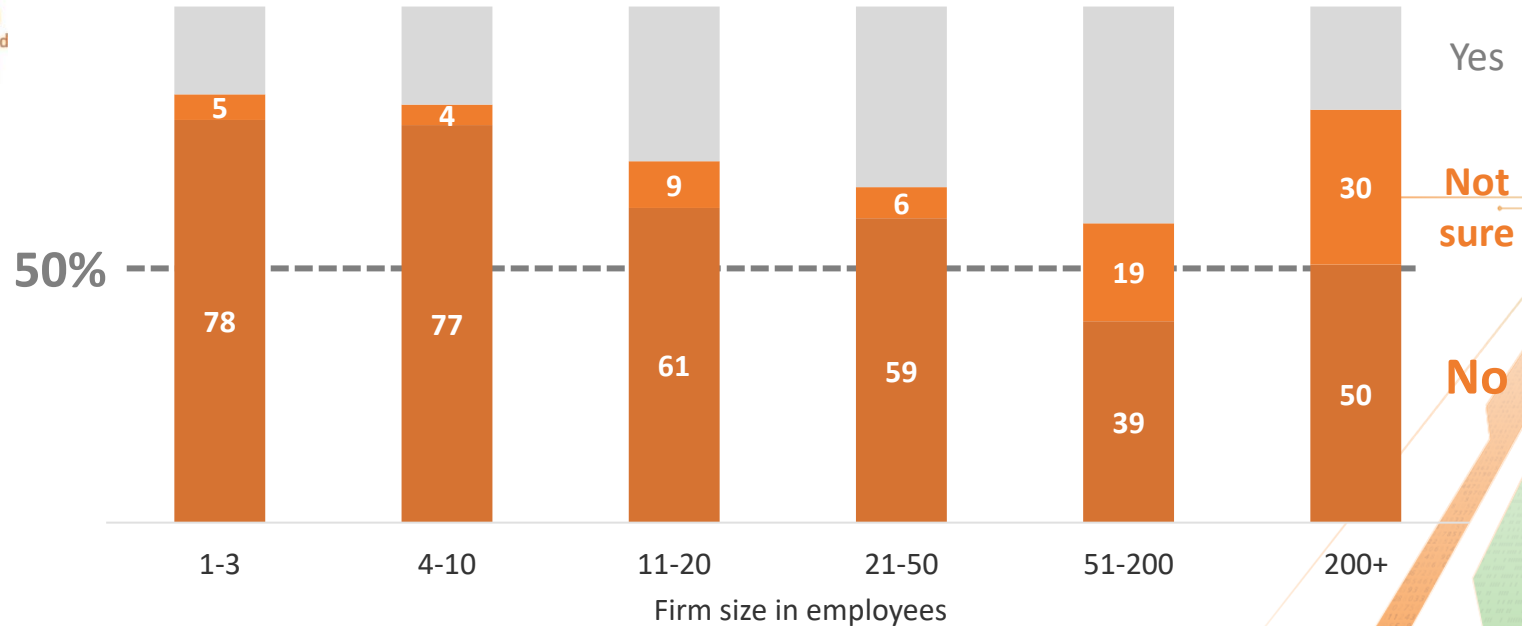
Regardless of firm size, AI training is uncommon among accounting firms



ESTABLISH
AI Strategy and
Governance

Is AI training offered at your firm?

%, by firm size



Training and Awareness Raising

Different personnel should receive training tailored for them



Recommended Personnel

Training Topics



**System analysts/architects
/ data scientists**

- Compliance with data protection laws, regulations and internal policies; cybersecurity risks



AI system users

- Compliance with data protection laws, regulations and internal policies; cybersecurity risks; general AI technology



**Legal and compliance
professionals**

- General AI technology and governance



Procurement staff

- General AI technology and governance



Human reviewers

- Detection and rectification of any unjust bias, unlawful discrimination and errors / inaccuracies in the decisions made by AI systems or presented in the content



**All staff performing
work relating to AI
system**

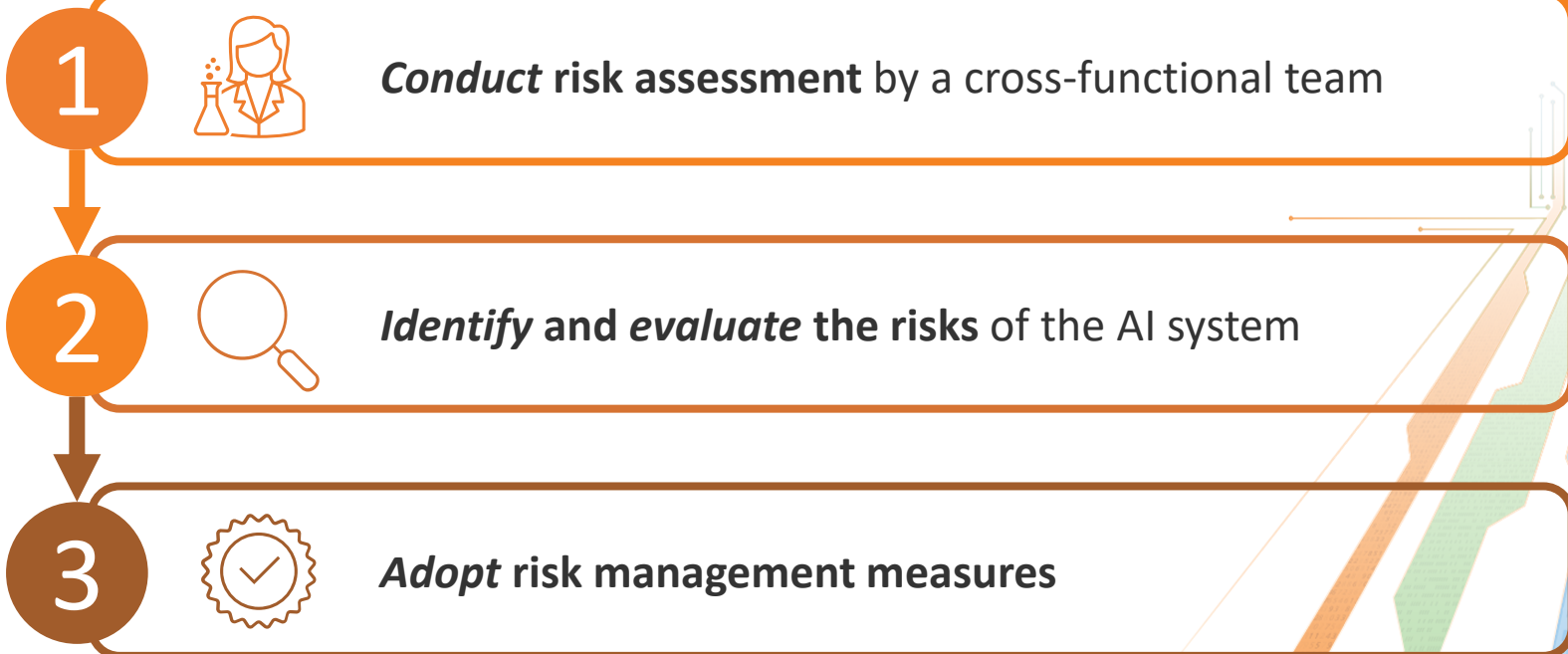
- Benefits, risks, functions and limitations of the AI system(s) used by the organisation

Conduct

Risk assessment and human oversight



Process of Risk Assessment



Risk Factors

Both privacy and ethical risks should be addressed



Risk type

Some factors to consider in a risk assessment

Privacy Risks



- The **allowable uses** of the data
- **Volume** of personal data
- **Sensitivity** of data involved
- **Security** of personal data

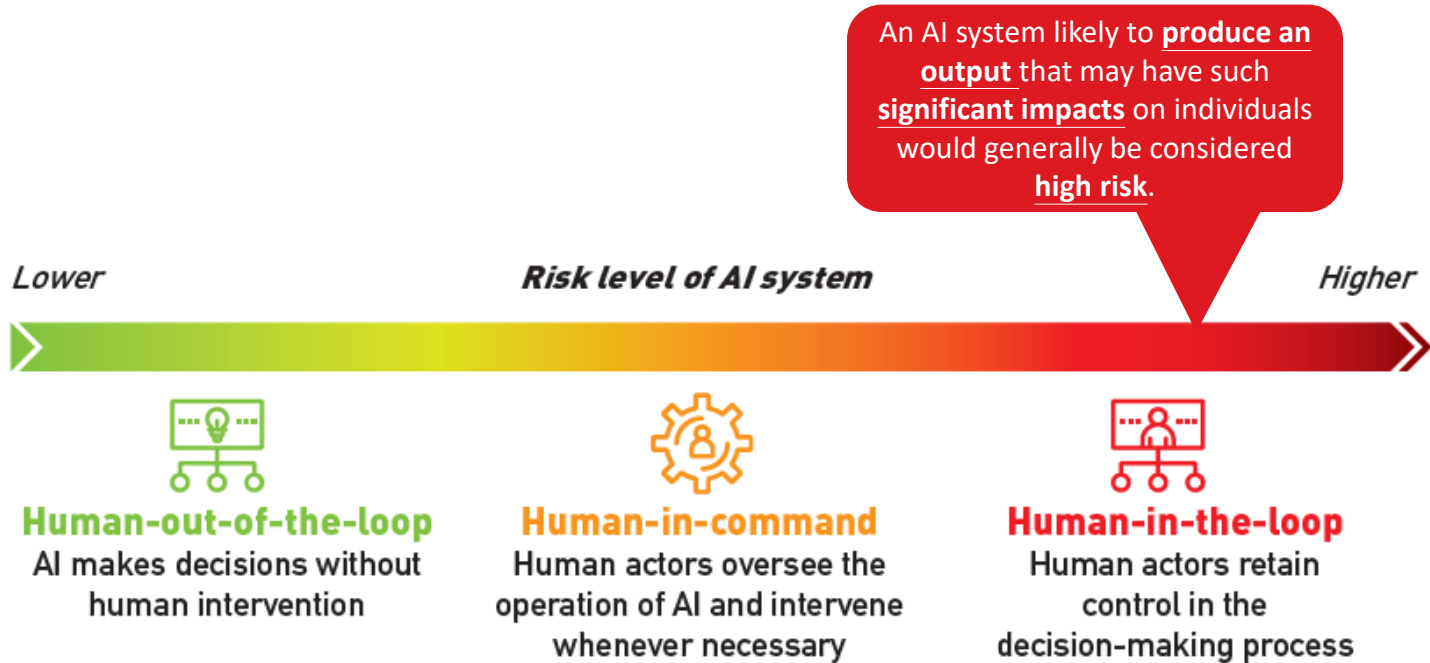
Ethical Risks



- **Potential impacts** on the affected individuals, the organisation and the wider community
- **Probability** of impacts of the AI system on individuals, and their **severity** and **duration**

Risk-based Approach















The level of human oversight should correspond with the risks identified



Execute

Customisation of AI Models and implementation and management of AI systems



Process	Selected Recommendations	
 Data Preparation	 Ensure compliance with privacy law  Minimise the amount of personal data involved	 Manage data quality  Document data handling
 Customisation and Implementation of AI	 Conduct rigorous testing and validation of reliability, robustness and fairness  Consider compliance issues based on the hosting of AI solution ('on-premise' or on a third party cloud) prior to integration  Ensure system security and data security	
 Management and Continuous Monitoring of AI	 Maintain proper documentation  Establish an AI Incident Response Plan	 Conduct periodic audits  Consider incorporating review mechanisms as risk factors evolve

AI Incident Response Plan

All six steps in a glance



The case of self-driving cars

Image source: [Wikimedia Commons](#) (no changes made)



Foster

Communication and Engagement with Stakeholders



1

**Information
Provision**

3

Explainable AI

2

**Data Subject Rights
and Feedback**

4

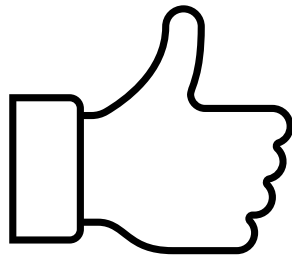
**Language and
Manner**

Benefits

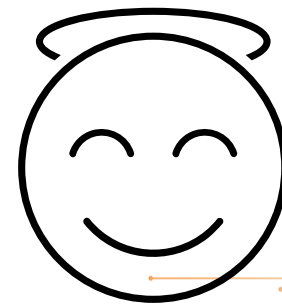
Appropriate use of AI could benefit the industry



**Enhanced
Efficiency and
Accuracy**



**Improved
Customer
Experience**



**Increased Job
Satisfaction**

PCPD's Support

We're here to help



Seminar on "AI and Privacy Protection: Balancing Innovation and Safety"



Ms Ada CHUNG Lai-ling
Privacy Commissioner
for Personal Data

Dr Arvin TANG
Director, Multimedia Systems and
Analytics, Artificial Intelligence and
Trust Technologies, ASTRI

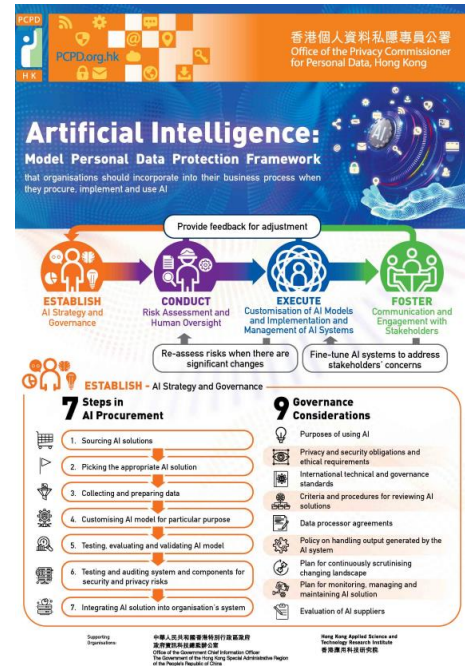
30 July 2024 (Tuesday) | 3:00 pm - 4:15 pm

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

Supporting
Organisation: 

SME
Hotline

Webinars



Artificial Intelligence: Model Personal Data Protection Framework

that organisations should incorporate into their business process when they procure, implement and use AI

Provide feedback for adjustment

ESTABLISH AI Strategy and Governance

CONDUCT Risk Assessment and Human Oversight

EXECUTE Customisation of AI Models and Implementation and Management of AI Systems

FOSTER Communication and Engagement with Stakeholders

Re-assess risks when there are significant changes


Fine-tune AI systems to address stakeholders' concerns


7 Steps in AI Procurement

1. Sourcing AI solutions
2. Picking the appropriate AI solution
3. Collecting and preparing data
4. Customising AI model for particular purpose
5. Testing, evaluating and validating AI model
6. Testing and auditing system and components for security and privacy risks
7. Integrating AI solution into organisation's system

9 Governance Considerations

1. Purpose of using AI
2. Privacy and security obligations and ethical requirements
3. International technical and governance standards
4. Criteria and procedures for reviewing AI solutions
5. Data processor agreements
6. Policy on handling output generated by the AI system
7. Plan for continuously scrutinising changing landscape
8. Plan for monitoring, managing and maintaining AI solution
9. Evaluation of AI suppliers

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Supporting Organisation:  香港應用科學及技術研究中心
Applied Research Centre
of the Polytechnic University of Hong Kong


2-page leaflet

Contact Us

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