



個人資料私隱專員公署

Office of the Privacy Commissioner for

Personal Data

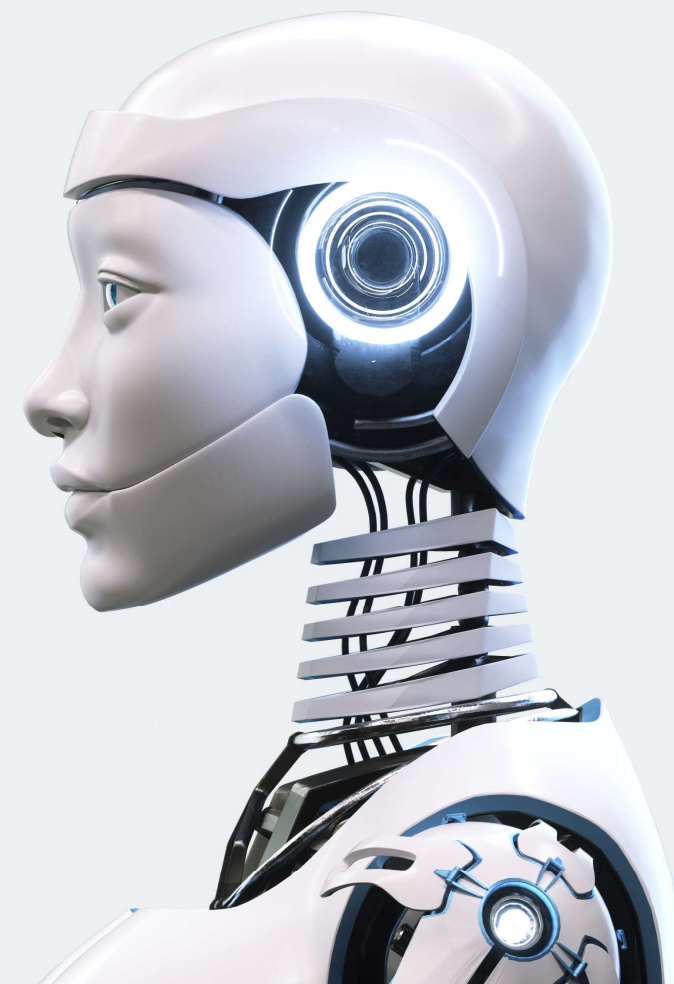
HKCS Hong Kong International Computer Conference 2024

Safeguarding Personal Data Privacy in the Age of AI: Governance Recommendations

5 November 2024

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Privacy Commissioner for Personal Data



香港個人資料私隱專員公署
Office of the Privacy Commissioner
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Risks

AI poses privacy risks



Data Breach

AI systems, like chatbots, may **retain extensive user records**, making them a **target of hackers** and 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

AI 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**.



Excessive data collection

AI applications tend to **collect and retain as much data as possible**, including personal data.

OpenAI **reportedly scraped 300 billion words online** to train ChatGPT.



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 AI recruitment system of a multinational company was **trained with biased data** and **favoured male over female applicants**.

Deepfake

Millions could be lost from deepfake

HK\$200 million scam

‘Everyone looked real’: multinational firm’s Hong Kong office loses HK\$200 million after scammers stage deepfake video meeting

Employee fooled after seeing digitally recreated versions of company’s chief financial officer and others in video call

Deepfake technology has been in the spotlight after fake explicit images of pop superstar Taylor Swift spread on social media sites

Reading Time: 3 minutes

Why you can trust SCMP 

- In early 2024, an employee of a multinational company was **tricked by fraudsters using deepfake technology to impersonate the CFO** in an online meeting and **order money transfers**
- **HK\$200 million** was transferred to the fraudsters

Source: [SCMP](#)

Officials & celebrities



- From Nov 2023 to May 2024, 21 **online deepfake video clips** involving **impersonation of government officials or celebrities** were identified by or reported to Police
- In Jan 2024, a deepfake video impersonated Chief Executive promoting an investment program with high returns

Source: [HKSAR Government](#); [SCMP](#)

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Deepfake

This demonstration shows how AI could easily be deployed for improper use of data



AI's risks vis-à-vis Data Protection Principles (DPP)

DPP1

PURPOSE AND MANNER OF COLLECTION

- Large amount of personal data collected
- Disclose little about collection

DPP2

ACCURACY AND RETENTION

- Outdated/incorrect data becomes part of training data and is kept longer than necessary

DPP3

USE OF DATA

- User conversations become new training data and may be reproduced for another purpose

DPP4

DATA SECURITY

- Security risks of storing large amount of conversations

DPP5

OPENESS AND TRANSPARENCY

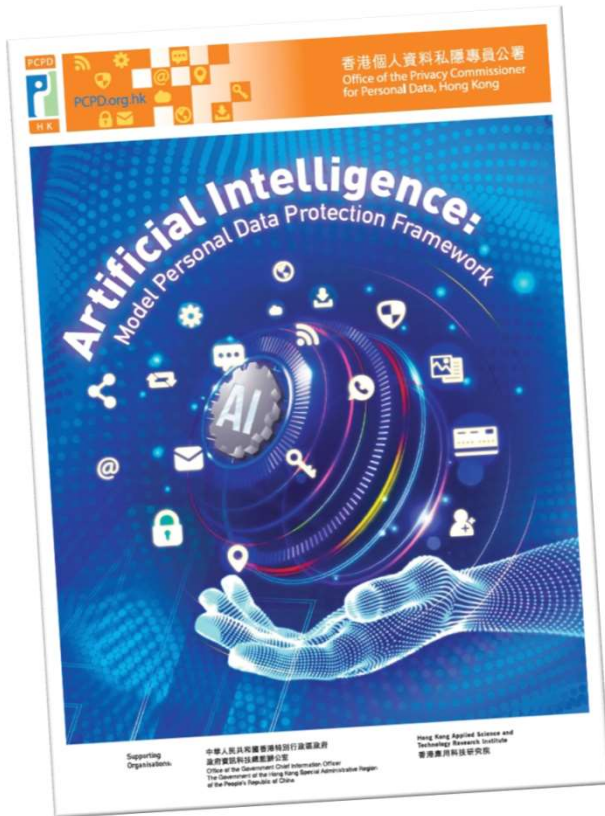
- Data subjects are not fully informed of what personal data is held or how personal data is used

DPP6

ACCESS AND CORRECTION

- Outdated/incorrect data that is part of training data is hard to be accessed or corrected

Artificial Intelligence: Model Personal Data Protection Framework



Feature



Support **Global AI Governance Initiative** of the Country



AI 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**

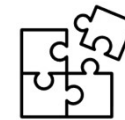
Benefits



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



Nurture the **healthy development of AI** in Hong Kong

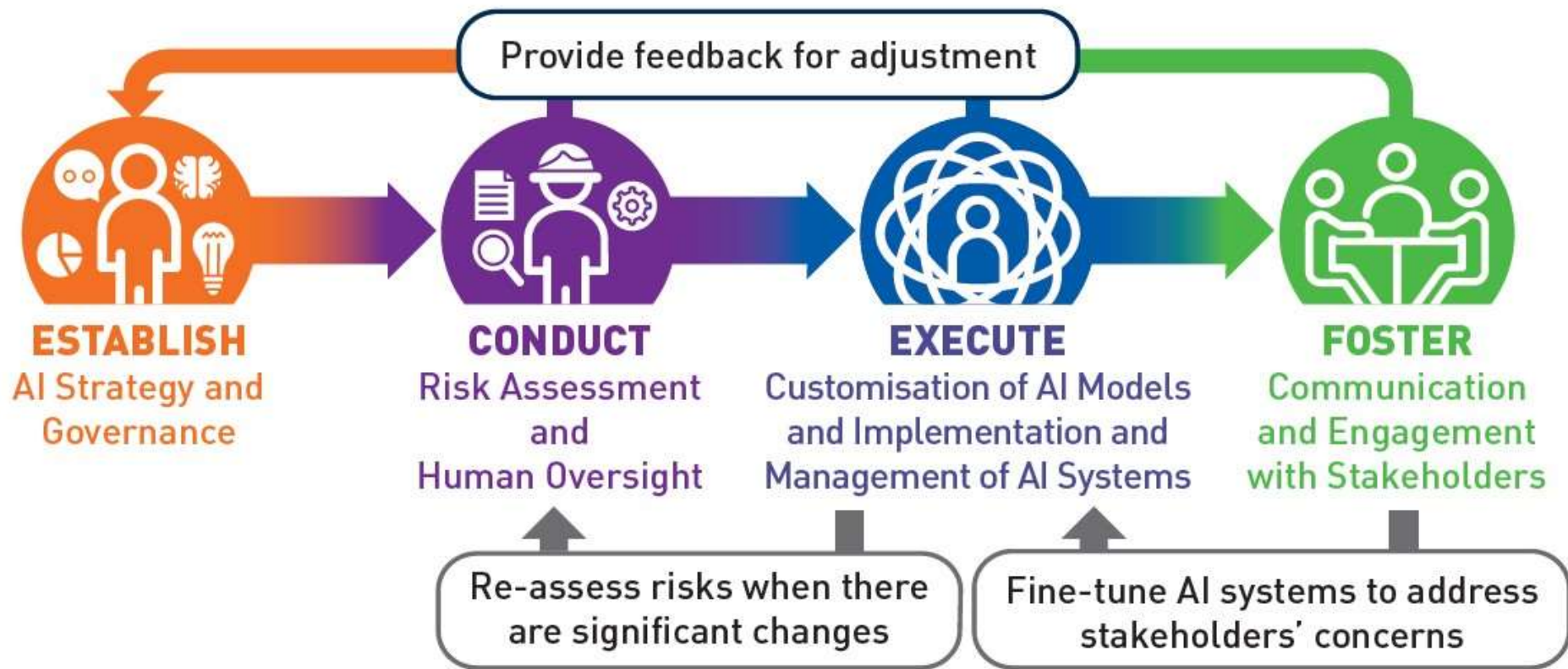


Facilitate Hong Kong's development into an **innovation & technology hub**



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

Model Personal Data Protection Framework



Governance Considerations

An organisation intending to invest in AI solutions may consider:



Purpose(s) of using AI



Privacy and security obligations and ethical requirements



International technical and governance standards



Criteria and procedures for reviewing AI solutions



Data processor agreements



Policy on handling output generated by the AI system



Plan for continuously scrutinising changing landscape



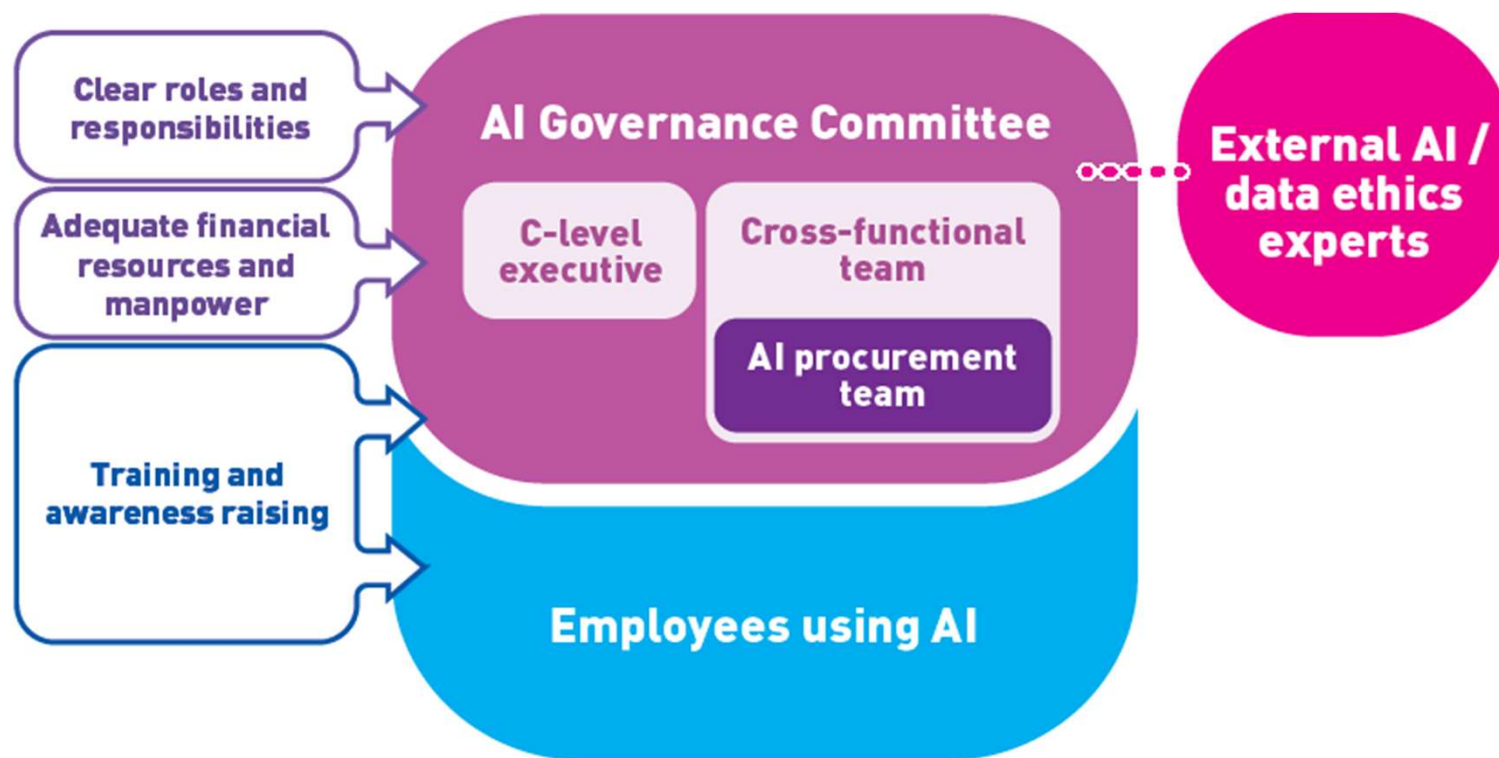
Plan for monitoring, managing and maintaining AI solution



Evaluation of AI supplier

Governance Structure

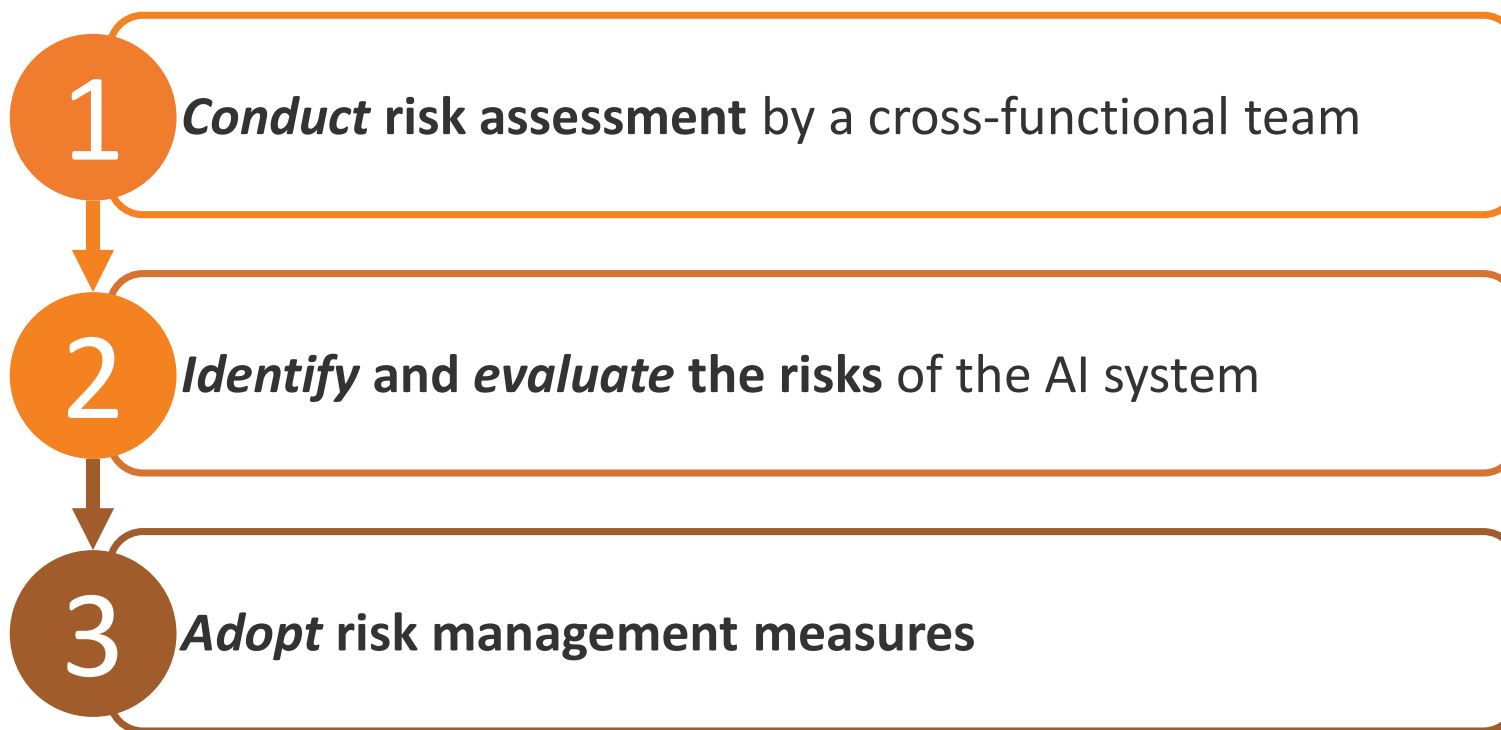
An internal governance structure with sufficient resources, expertise and authority should be established



Conduct

Risk assessment and human oversight

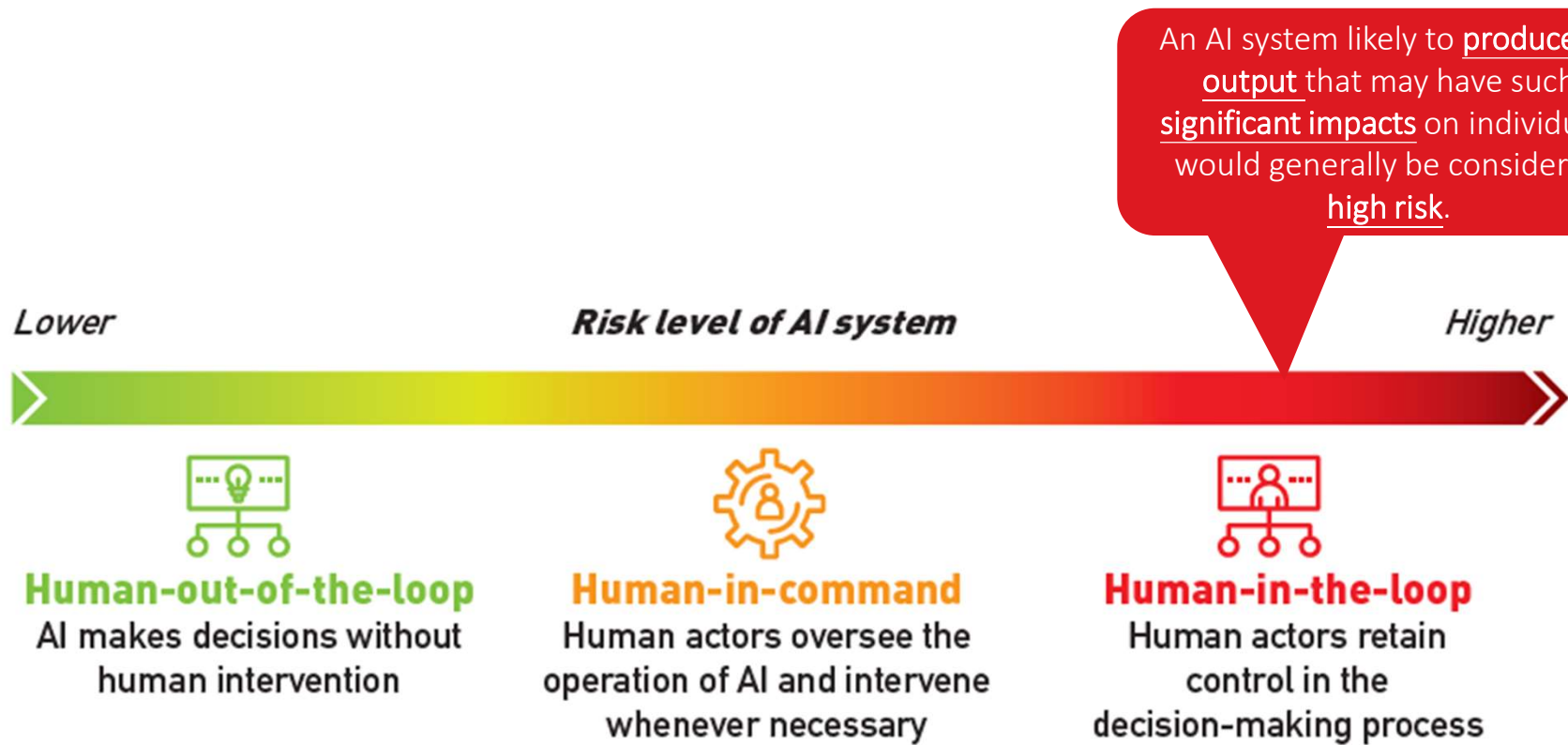
Process of Risk Assessment



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Conduct Risk Assessment

The level of human oversight should correspond with the risks identified



Examples

The below use cases may incur higher risks



Real-time identification of individuals using biometric data



Evaluation of individuals' eligibility for social welfare or public services



Assessment of job applicants, evaluation of job performance or termination of employment contracts



Evaluation of the creditworthiness of individuals for making automated financial decisions



AI-assisted medical imaging analytics or therapies

Cryptocurrency project

World ID



Execute: Data Preparation

Compliance, data minimisation, quality management, data handling

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 third-party 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

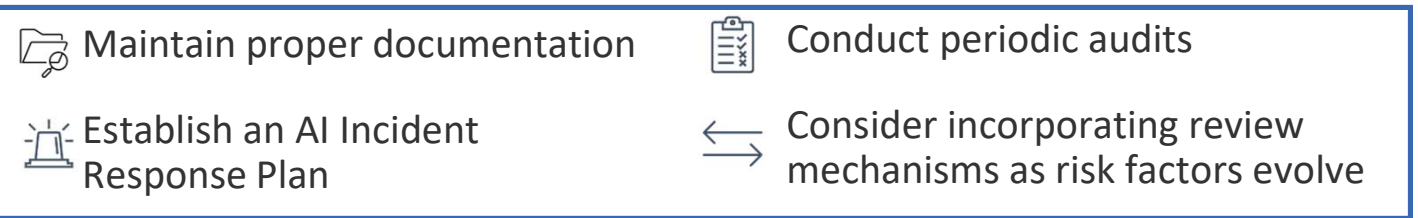
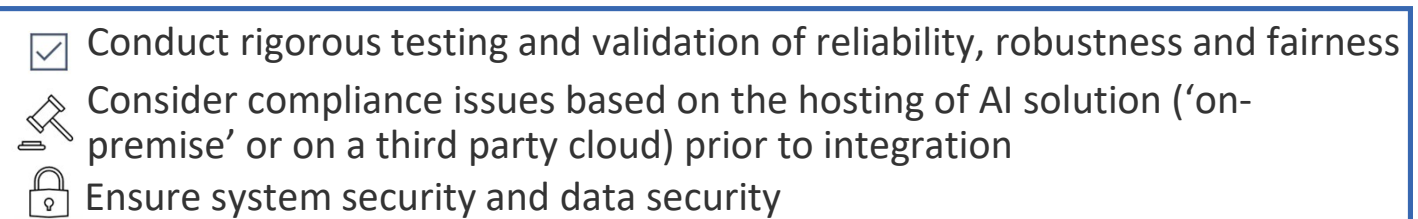
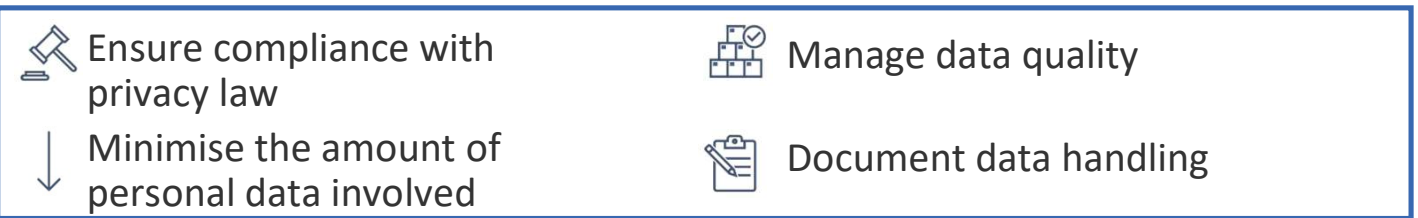
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Execute: Customisation of AI Models and implementation and management of AI systems

Process

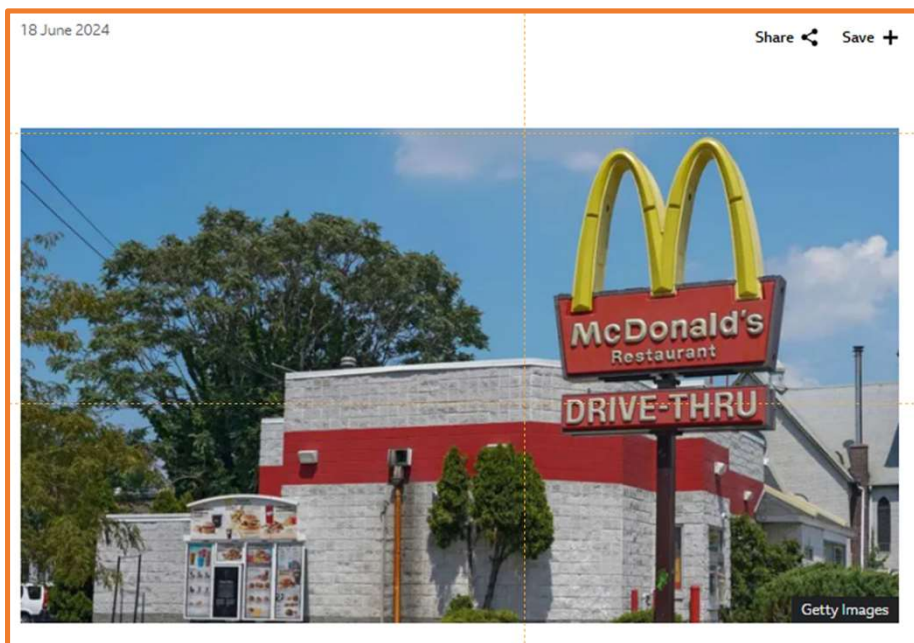


Selected Recommendations



When you order an ice cream

A restaurant chain stopped its voice ordering system after blunders



Test run of AI-powered voice ordering systems for customers



Multiple problems reported on social media



Test run discontinued in mid-2024

Source: [BBC](#)

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AI Incident Response Plan

The plan may encompass the below six elements

1



Defining an AI Incident

3



Reporting an AI Incident

5



Investigating an AI Incident

2



Monitoring for AI Incidents

4



Containing an AI Incident

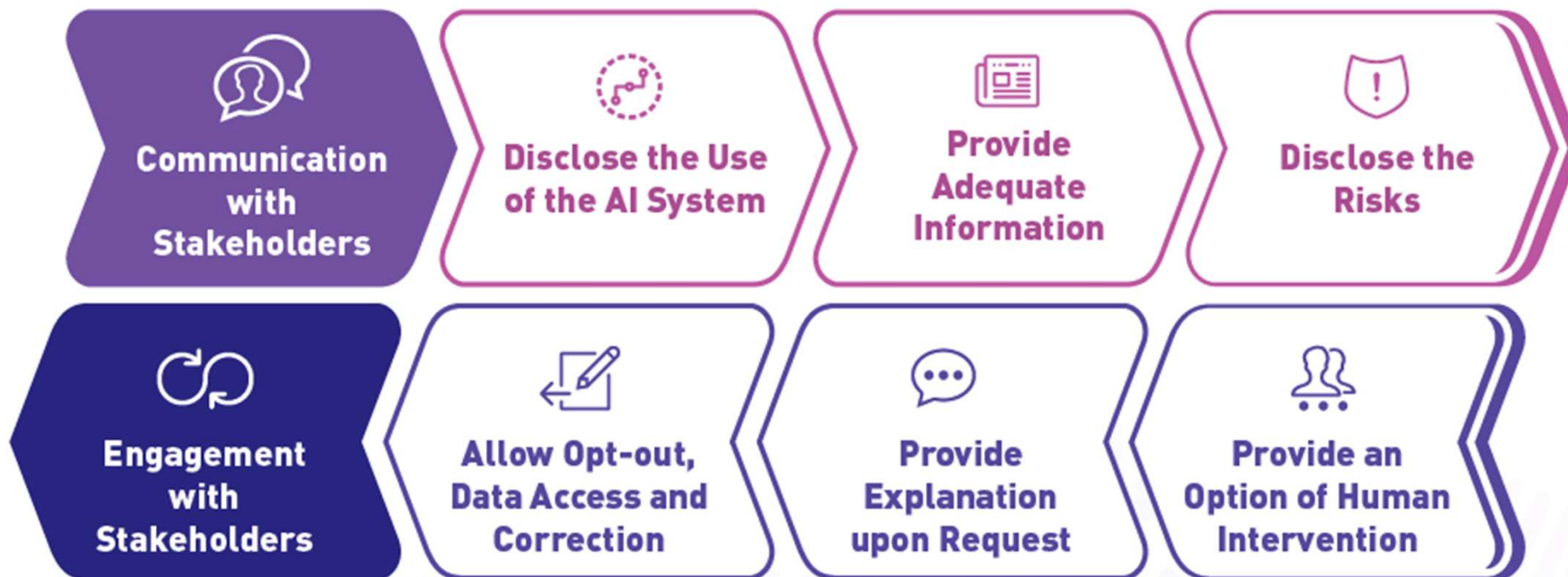
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Recovering from an AI Incident

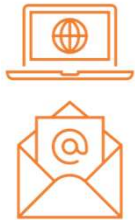
Foster

Communication and engagement with stakeholders





Thank you!



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