

Opportunities and Challenges of Applying AI for Medical Applications

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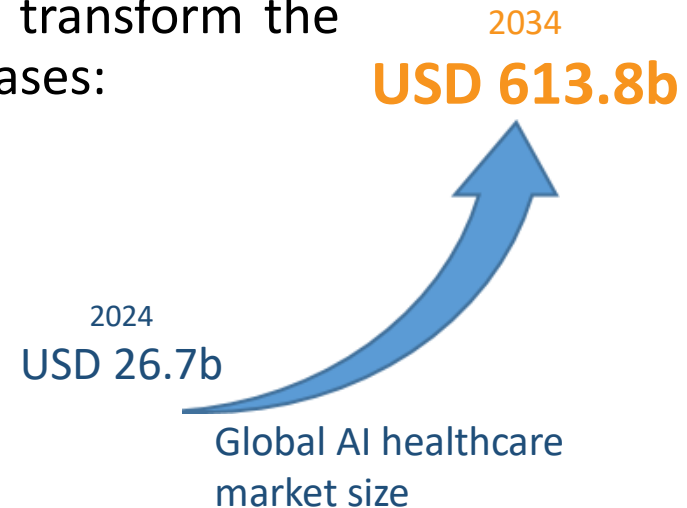


Opportunities of Applying AI in Healthcare

According to a survey in 2024, the global AI healthcare market size is expected to grow from USD 26.7 billion in 2024 to USD 613.8 billion by 2034.

- AI in healthcare has the opportunity to transform the way we diagnose, treat and prevent diseases:

- **Diagnosis and Treatment Planning**
- **Predictive Analytics**
- **Drug Discovery and Development**
- **Enhanced Patient Engagement**
- **Operational Efficiency**

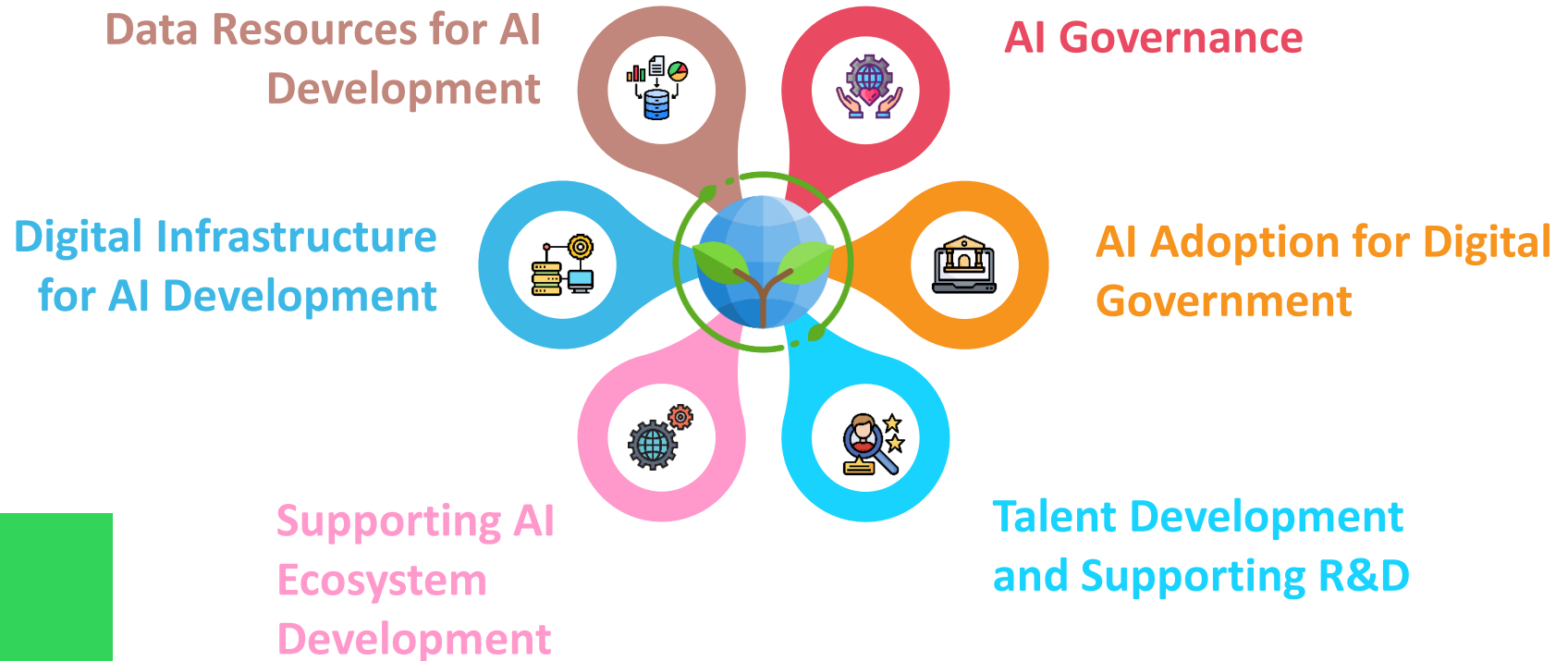


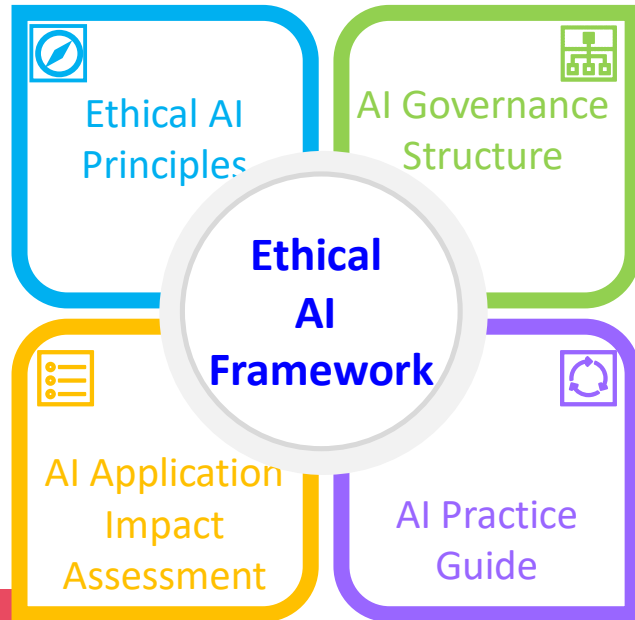
Challenges and Ethical Considerations



- Data Privacy and Security
- Bias and Fairness
- Human Oversight
- Accountability and Liability
- Transparency and Interpretability
- Reliability and Robustness
- Lawfulness and Compliance

Driving AI Development





Ethical AI Framework

- A guideline for Government B/Ds in adopting AI and big data analytics and incorporating ethical elements in the **planning, design and implementation of IT projects or services**.
- Developed in consultation with PCPD and complied with PCPD's Guidance on the Ethical Development and Use of Artificial Intelligence.
- Updated in August 2023 to incorporate potential areas of concerns and suggested tips in relation to **generative AI** for B/Ds' consideration .



Privacy Protection for AI Development



Guidance on the Ethical Development and Use of Artificial Intelligence

Assist organisations to understand and comply with the relevant **personal data privacy protection** requirements when developing and using AI



Artificial Intelligence: Model Personal Data Protection Framework

Assist organisations to procure, implement and use AI, including generative AI, in compliance with the relevant requirements of the PDPO

Data Resources for AI Development

Open and Sharing of Data for AI Development

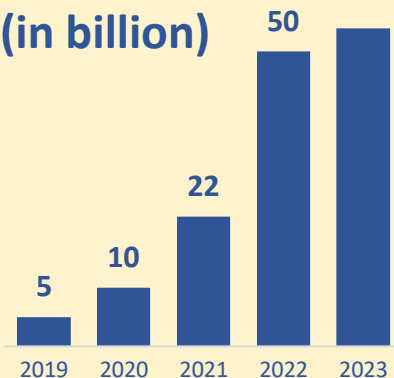


5,400+ datasets

2,300+ APIs

117 data providers

Downloads
(in billion)

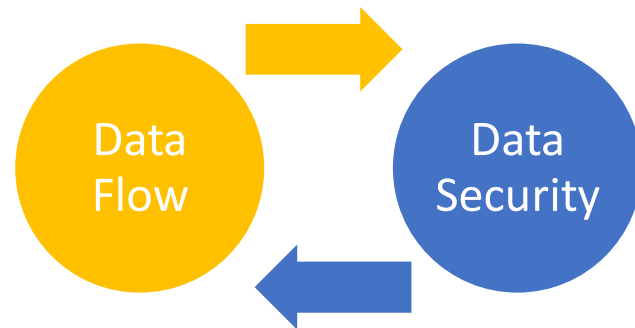


Data sharing via Consented Data Exchange Gateway

Streamline user experience in transacting online applications with the Government



Facilitating Data Flow and Safeguarding Data Security



ITIB published the Policy Statement on Facilitating Data Flow and Safeguarding Data Security in Hong Kong in December 2023 setting out Government's management principles and key strategies on data flow and data security, and putting forward 18 specific action items.

Promoting Cross-boundary Data Flow



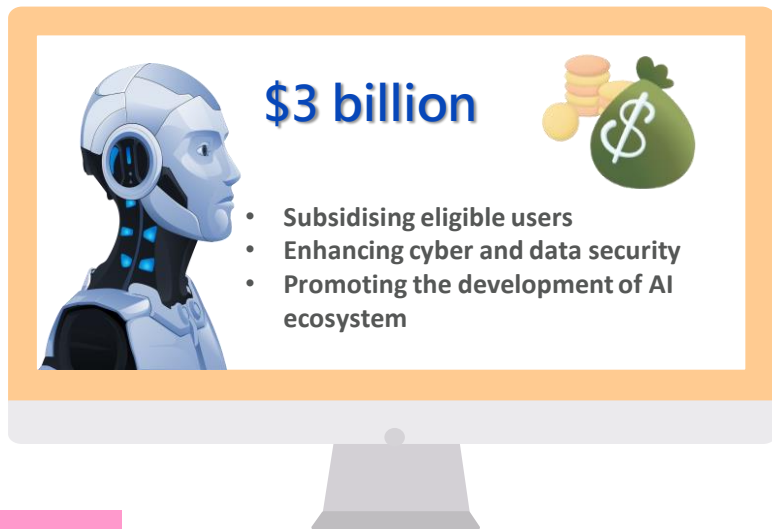
- On 13 Dec 2023, ITIB and the CAC announced the facilitation measure on “Standard Contract for the Cross-boundary Flow of Personal Information Within the Guangdong-Hong Kong-Macao Greater Bay Area (Mainland, Hong Kong)”
- Starting from **1 November 2024**, **industries of all sectors** in the nine Mainland cities in the GBA and Hong Kong can take part in the facilitation measure and voluntarily adopt the GBA Standard Contract.

Cyberport's **Artificial Intelligence (AI) Supercomputing Centre** will come into operation in phases, supporting the demand of local universities, R&D institutes and enterprises.

AI Supercomputing Centre



AI Subsidy Scheme



Establishment of
Committee of AI Subsidy Scheme

- Launched on **7 October 2024**
- Now open for application
- Generally be subsidised up to 70% of the service list price of the AISC.

Application of AI in Hospital Authority



Analyse X-ray images



**Analyse lab reports with
automated system flagging
for timely follow ups**



**Predict on upcoming
A&E service needs and
operation management**

Thank you

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