Smart City Powered by Artificial Intelligence (AI) in Hong Kong MPF Symposium 2023



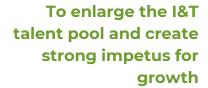




Hong Kong I&T Development Blueprint Four Broad Development Directions



To enhance the I&T ecosystem and promote "new industrialisation" in Hong Kong







To promote digital economy development and develop Hong Kong into a smart city

To proactively integrate into the overall development of the country and consolidate our role as a bridge connecting the Mainland and the world



Major Al-Related Initiatives in 2023 Policy Address



The Hong Kong Special Administrative Regior of the People's Republic of China

The Chief Executive's 2023 Policy Address

2023.10.25

- Launch over a hundred of digital government initiatives to promote digital government using AI and other advanced technologies.
- Establish a supercomputing centre to foster Al development.
- Establish a new InnoHK R&D Centre specialising in R&D in generative Al technology.

Development of Al Supercomputing Centre



The Chief Executive's 2023 Policy Address

Cyberport would establish an Al Supercomputing Centre in phases,

starting from 2024



Research Institutes



Government







Multi-pronged Support Strategy







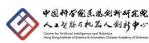
Subsidy

Nurture Talent

Promotion

Platform for Training and Building Up Al Talent Pool - InnoHK































- \$10 billion allocated to set up "InnoHK Research Clusters" at the HK Science Park
- 14 research laboratories admitted under AIR@InnoHK, covering AI-driven big data analytics, AI chips, fintech, robotics, etc.
- New InnoHK centre for R&D on generative AI and HK-based Large Language Model

Possible Use Cases of Generative Al



Facilitate users in preparing chatbot knowledge base



Serve as a **productivity tool** to facilitate administrative works



Handle public comments and enquiries

Accuracy

Al Hallucinations: could embed plausiblesounding random falsehoods within their generated contents

Privacy and Leakage of Sensitive Data

User input may be used for re-training by third-party vendor

Challenges of Generative AI

Liability and Responsibility

Legal liability and obligations for the suggested actions and generated responses are unclear

Intellectual Property Rights

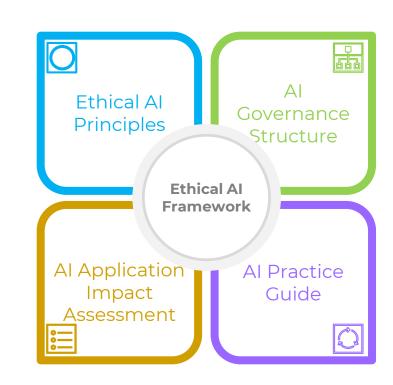
Risk of copyright infringement / plagiarism

Debates on whether All generated output is copyrightable

Outputs by Generative AI may have ethical issues

Updated Ethical AI Framework

- Government internal guidelines in adopting Al & 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 Aug 2023 to incorporate potential areas of concerns and suggested tips in relation to generative AI for B/Ds' consideration





e-Government Audit: Over 100 digital government initiatives by end-2025

Complete e-Government audit for all B/Ds before end-2023



Implement over 100 digital government initiatives by end-2025



more convenient and beneficial services to public by leveraging technologies

Big Data Analytics Artificial Intelligence

Blockchain

Geospatial Analytics

The Next Generation Government Cloud Infrastructure

"iAM Smart" one-stop personalised service platform

Big Data Analytics Platform

Shared Blockchain Platform

Chatbot-as-a-Service

Shared Blockchain Platform and e-Proof



Digital Infrastructure as Common Services to Other B/Ds

A new shared service for B/Ds to implement chatbots for handling public enquiries



Traffic Data Analytics System



Image masking for privacy protection



Big Data Analytics Platform (BDAP)



Chatbot-as-a-Service

Adopted or planned to adopt Chatbot-as-a-Service for chatbot development







Development Bureau

The Government of the Hong Kong Special Administrative Region of the People's Republic of China







Geospatial Analytics / Common Spatial Data Infrastructure





CSDI Portal (portal.csdi.gov.hk)



Government adoption of AI in enhancing efficiency and quality of public services

Innovation Facilitator





Al Competition





Al-enabled services



Open Data and Al

Open data serves as the fuel for AI development



Explore Open Data on

DATA.GOV.HK



Dataset Available API Available

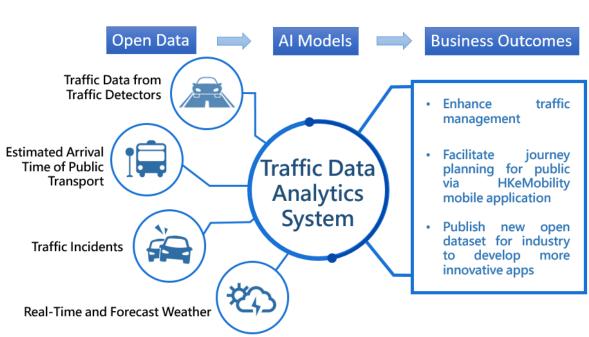
118

Data Providers

丛 50B+

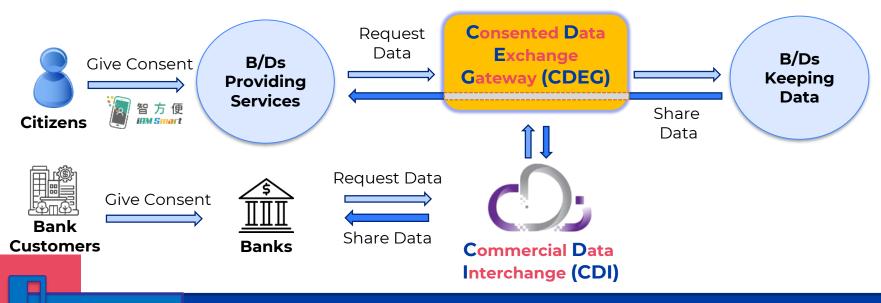
2,200+

Download in 2022



Promote data sharing for streamlined digital services

- Government bureaux/departments (B/Ds) and banks obtain data stored in government systems with authorisation from citizens and customers
- General public can enjoy more efficient services



- Consult Office of the Privacy Commissioner for Personal Data
- Adopt "iAM Smart" and Shared Blockchain Platform

Secure

Set Up of Digital Policy Office



Digital Policy Office





Led by Commissioner for Digital Policy, to formulate policies on -

- digital government;
- data governance; and
- information technology

To consolidate information technology-related resources within the Government, promote the opening up and sharing of data and co-ordinate with departments to offer more digital services.



THANK YOU