



Office of the Government Chief Information Officer
The Government of the Hong Kong Special Administrative Region
of the People's Republic of China

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

MPF Symposium 2023

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Government Chief Information Officer

12 December 2023



Hong Kong I&T Development Blueprint Four Broad Development Directions



1

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

To enlarge the I&T talent pool and create strong impetus for growth

2

3

To promote digital economy 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

4



Major AI-Related Initiatives in 2023 Policy Address



The Hong Kong Special Administrative Region
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 AI development.
- Establish a new **InnoHK R&D Centre** specialising in R&D in generative AI technology.

Development of AI Supercomputing Centre

Cyberport would establish an AI Supercomputing Centre in phases, starting from 2024


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

**The Chief Executive's
2023 Policy Address**
2023.10.25



Research Institutes



Government



Industry



Academia



Multi-pronged Support Strategy



Subsidy



Nurture Talent



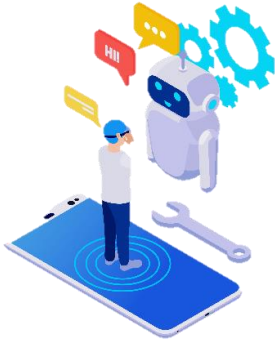
Promotion

Platform for Training and Building Up AI 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

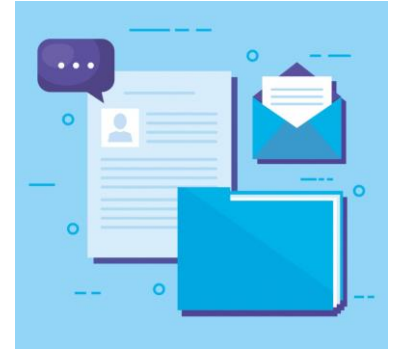
Possible Use Cases of Generative AI



Facilitate users in preparing
**chatbot
knowledge base**



Serve as a
productivity tool
to facilitate
administrative
works



**Handle public
comments** and
enquiries

Accuracy

AI Hallucinations:
could embed plausible-
sounding random
falsehoods within their
generated contents

Privacy and Leakage of Sensitive Data

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

Liability and Responsibility

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

Intellectual Property Rights

Risk of copyright
infringement / plagiarism

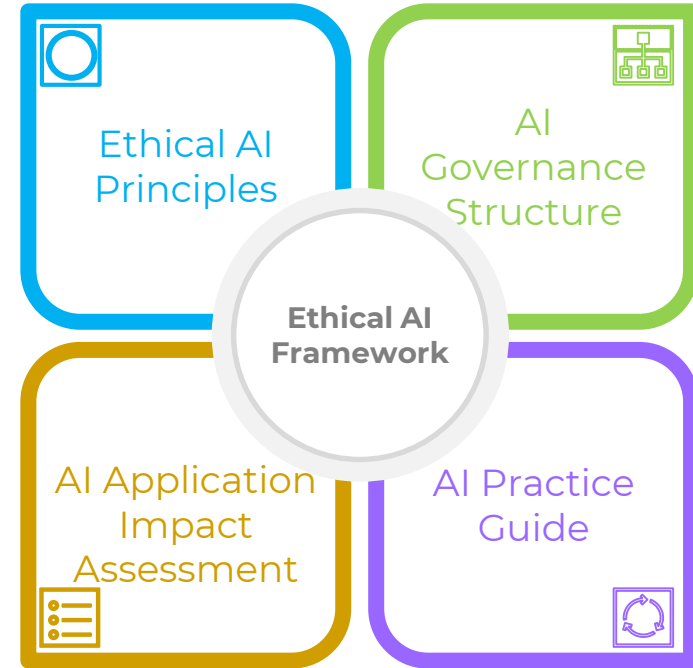
Debates on whether AI
generated output is
copyrightable

Challenges of Generative AI

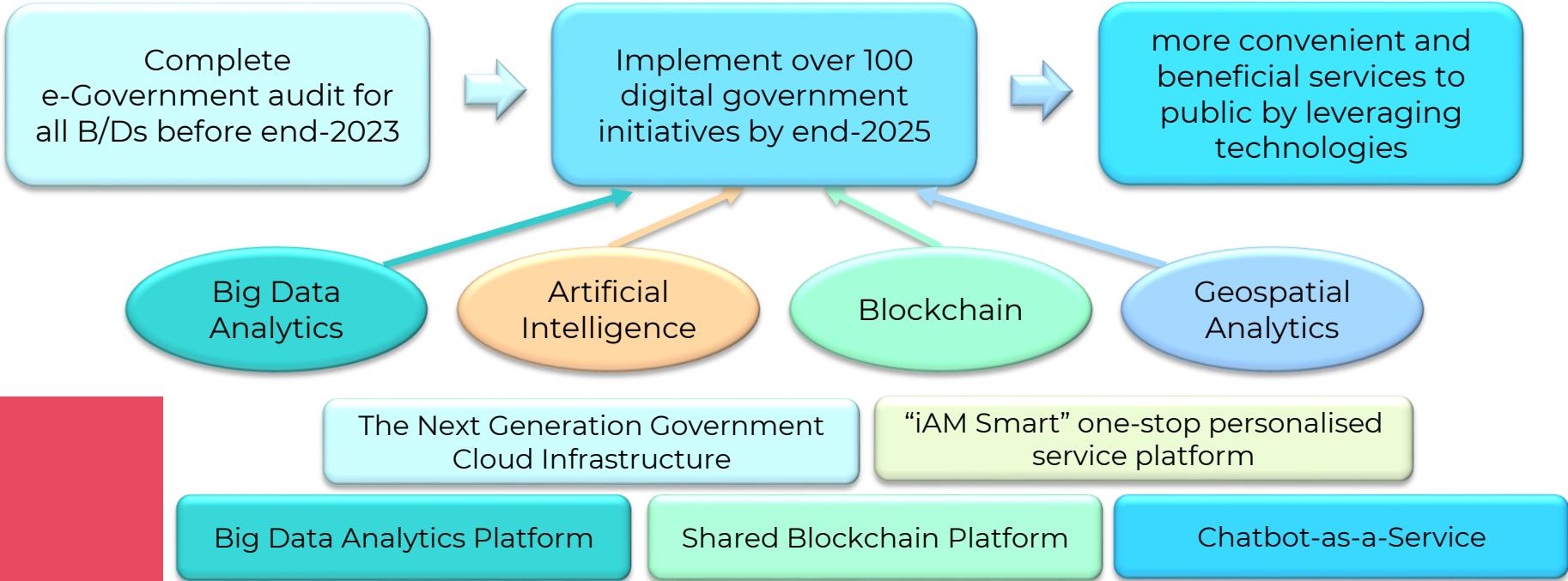
**Outputs by
Generative AI may
have ethical issues**

Updated Ethical AI Framework

- Government internal guidelines in adopting AI & 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



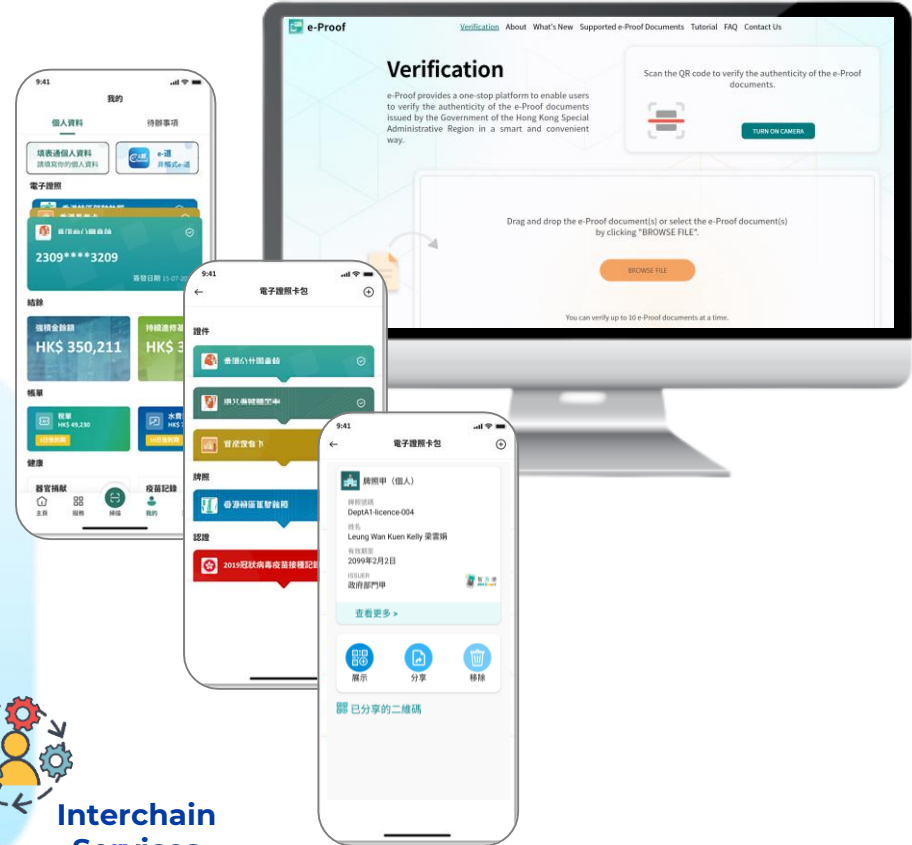
Shared Blockchain Platform and e-Proof



Smart Contracts



Blockchain-as-a-Service



Interchain Services

Digital Infrastructure as Common Services to Other B/Ds

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

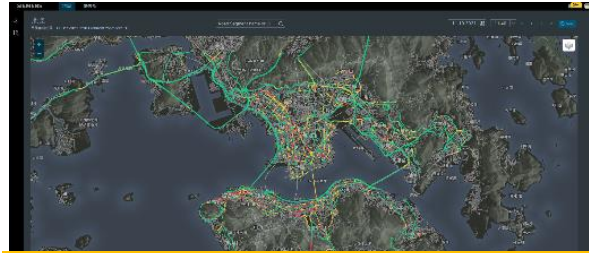


Chatbot-as-a-Service

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



Big Data Analytics
Platform (BDAP)



Traffic Data Analytics System



Image masking
for privacy
protection

搵表格



Development Bureau

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



漁農自然護理署
Agriculture, Fisheries and
Conservation Department



and more...

Geospatial Analytics / Common Spatial Data Infrastructure

The screenshot shows the homepage of the Common Spatial Data Infrastructure (CSDI) Portal. At the top, there is a navigation bar with a logo, the text 'Common Spatial Data Infrastructure', and buttons for 'CATALOG', 'MAP', 'Text Size', and 'Login'. Below the navigation bar is a large banner with the text 'CSDI Common Spatial Data Infrastructure Portal' and a search bar. The search bar contains the text 'Search Dataset e.g. School...'. Below the search bar, there is a section titled 'FRAMEWORK SPATIAL DATA THEMES' with a grid of icons representing various themes: Address, Administrative Area, Building, Coordinates Reference System, Geographic Name, Land Parcel, and Transportation. A link 'All Themes >' is also present.

To provide government departments as well as public & private organisations with an information infrastructure to promote the **sharing of spatial data** and support the development of various smart city applications.

A grid of 21 icons representing various spatial data themes. The icons are arranged in three columns and seven rows. The themes are: Climate and Weather, Commerce and Industry, Development, Education, Election, Environment, Geography, Health, Housing, Labour, Community and Social Welfare, Land Information, Law and Security, Population, Recreation and Culture, Sports, Technology, Transportation, and Utilities.

CSDI Portal (portal.csd.gov.hk)

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

Innovation Facilitator



智慧政府創新實驗室
Smart Government Innovation LAB



AI Competition

“Catch the Innovation” Campaign
“Innovative Application with AI”
Innovation Competition

Competition is open for government personnel's submission from 5 June 2023 until 4 August 2023. [Learn More](#)



AI-enabled services

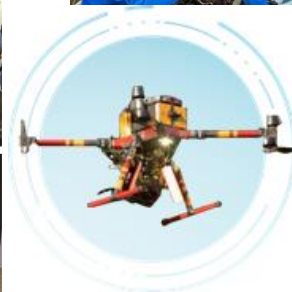
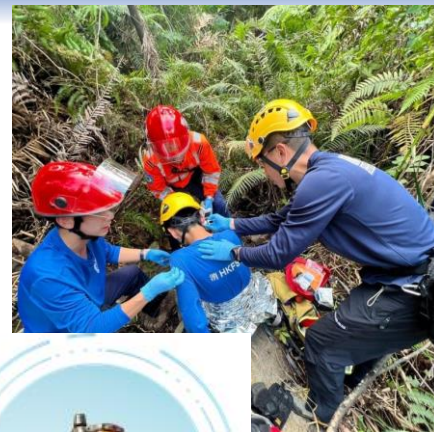


Photo source:
www.scmp.com

Open Data and AI

Open data serves as the fuel for AI development



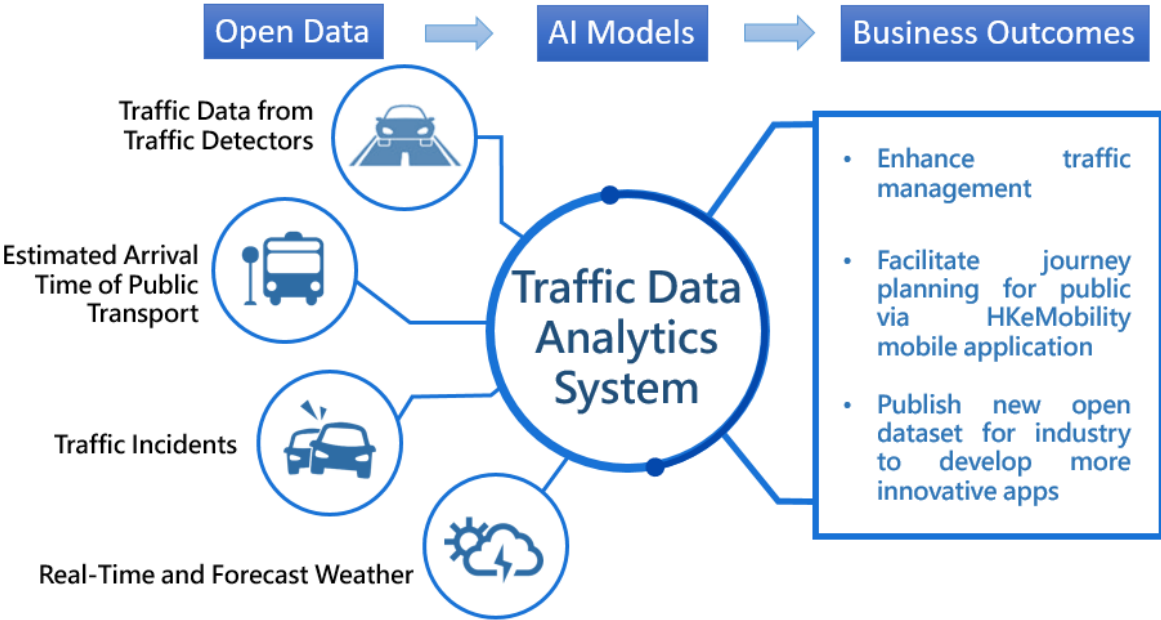
Explore Open Data on [DATA.GOV.HK](https://data.gov.hk)

5,260+
Dataset Available

2,200+
API Available

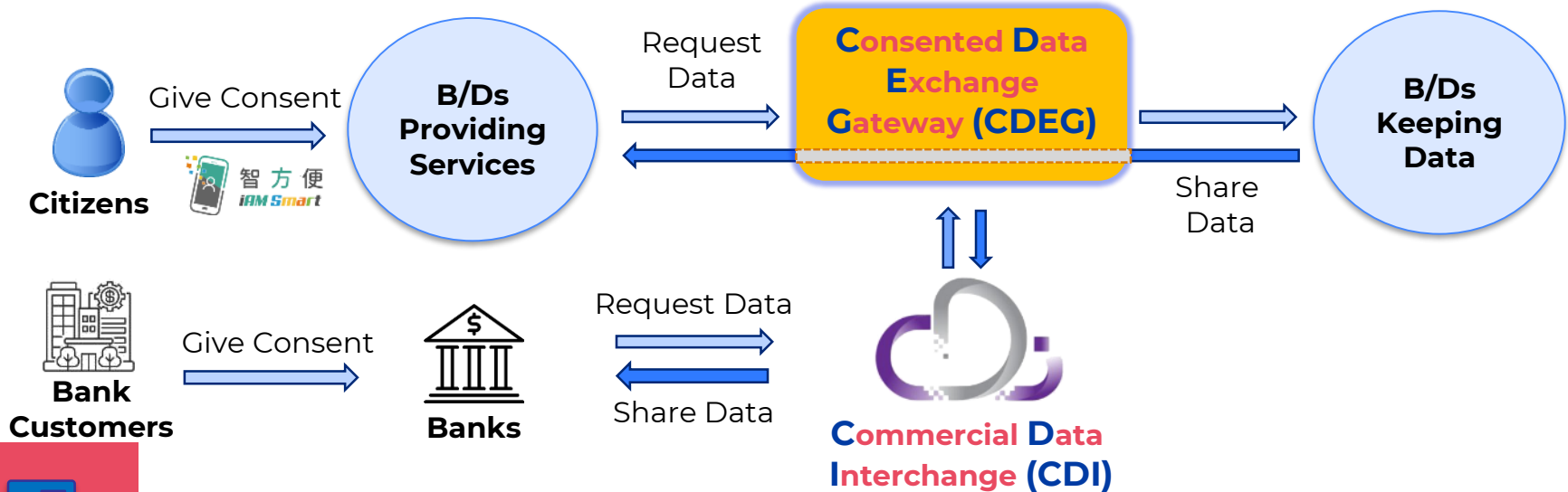
118
Data Providers

50B+
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



Secure

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

Set Up of Digital Policy Office

Digital Policy Office



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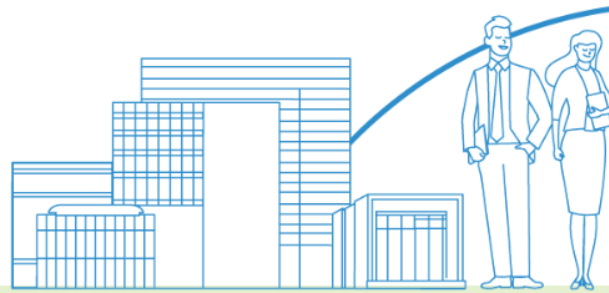


效率促進辦公室
EFFICIENCY OFFICE

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