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

I&T and Smart City Development in Hong Kong

Ir Tony Wong
Government Chief Information Officer

20 Feb 2024

Hong Kong I&T Development Blueprint Four Broad Development Directions

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

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

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

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

Some Key I&T Initiatives related to Smart City Development in the 2023 Policy Address
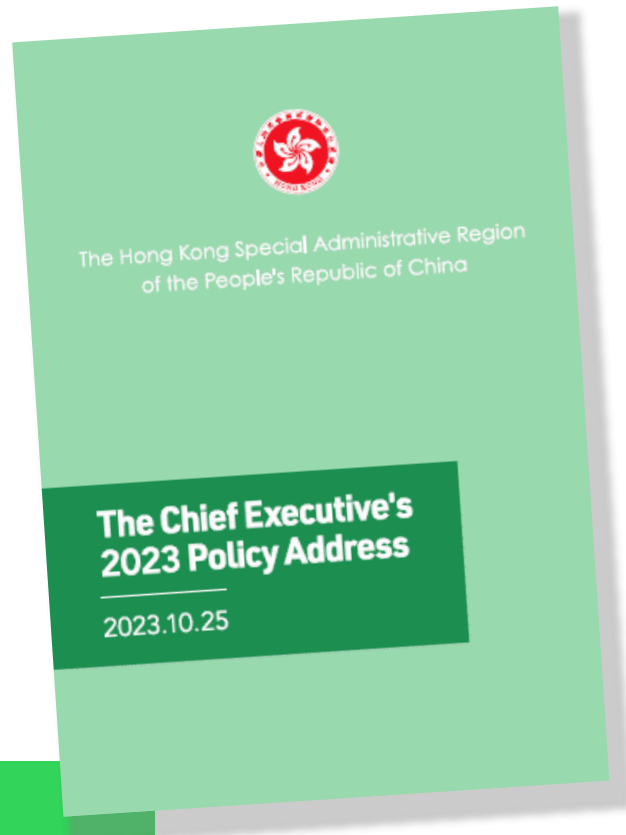
- **Advance development of digital government**

- **Artificial intelligence (AI) development**

- **Foster talent development**

- **Promote cross-boundary data flow**

- **New land supply for I&T use**

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

The Chief Executive's 2023 Policy Address

2023.10.25

Setup of Digital Policy Office

Digital Policy Office

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

+

效率促進辦公室
EFFICIENCY OFFICE

Led by the Commissioner for Digital Policy, to formulate policies on –

- digital government
- data governance
- information technology

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

The Chief Executive's 2023 Policy Address

2023.10.25

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

iAM Smart and Single Portal for Public Services

Latest News of iAM Smart

Latest status of iAM Smart

- Over **2.5 million** registration
- Over **330** online services
- New homepage design
- Useful daily information

Cross-boundary public services

- Use iAM Smart to access **Guangdong government services**
- Establish iAM Smart registration service counters in **Guangzhou and Shenzhen**

Awarded ISO certifications

- **ISO/IEC 27001:2022** (Information Security Management System)
- **ISO/IEC 27701:2019** (Privacy Information Management System)

iAM Smart and Single Portal for Public Services

More Enhancements on iAM Smart

Target by 2025

1 **Personal dashboard**
- Sharing personal information and identity documents
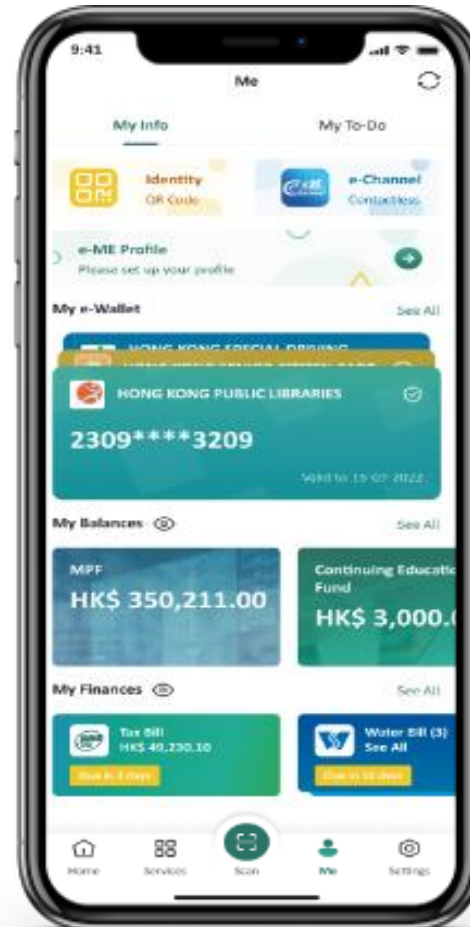
2 **Remote registration of iAM Smart+**
- More convenient registration via mobile app by verifying HKIC's chip data using NFC

3 **Citizen-centric service categorisation**
- More user-friendly grouping of commonly-used government online services by specific themes

4 **Streamlined workflow**
- One-tap logon with streamlined workflow

5 **Step-up authentication**
- Additional identity authentication for high-valued or critical transactions
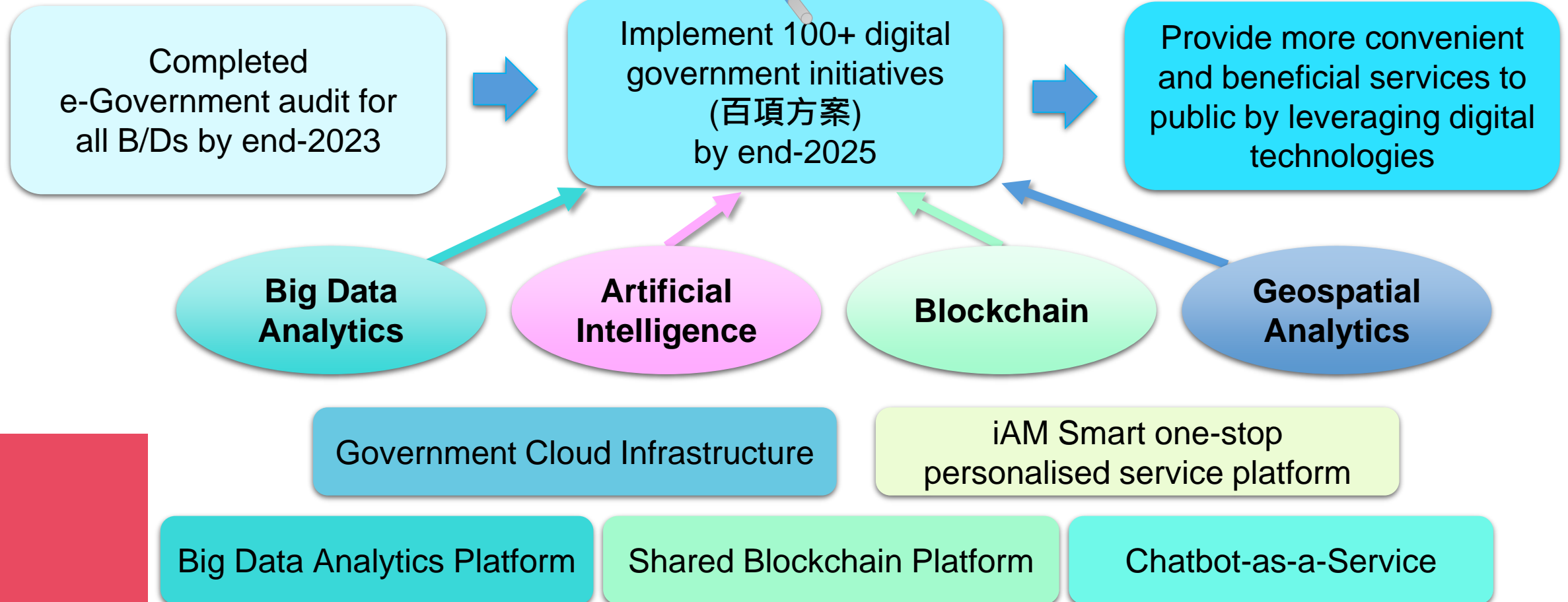
6 **Identity QR code**
- QR code containing masked / unmasked personal information for identity verification

For illustration purpose only

6

e-Government Audit

Implement **100+ digital government initiatives** to promote digital government and smart city

services@gov.hk

EGA

Completed e-Government audit for all B/Ds by end-2023

Implement 100+ digital government initiatives (百項方案) by end-2025

Provide more convenient and beneficial services to public by leveraging digital technologies

Big Data Analytics

Artificial Intelligence

Blockchain

Geospatial Analytics

Government Cloud Infrastructure

iAM Smart one-stop personalised service platform

Big Data Analytics Platform

Shared Blockchain Platform

Chatbot-as-a-Service

Accelerate Development of Digital Infrastructure

Common Spatial Data Infrastructure (CSDI) Portal

Traffic Data Analytics System
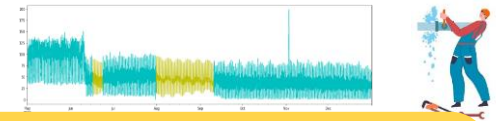
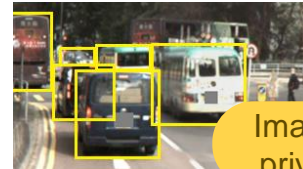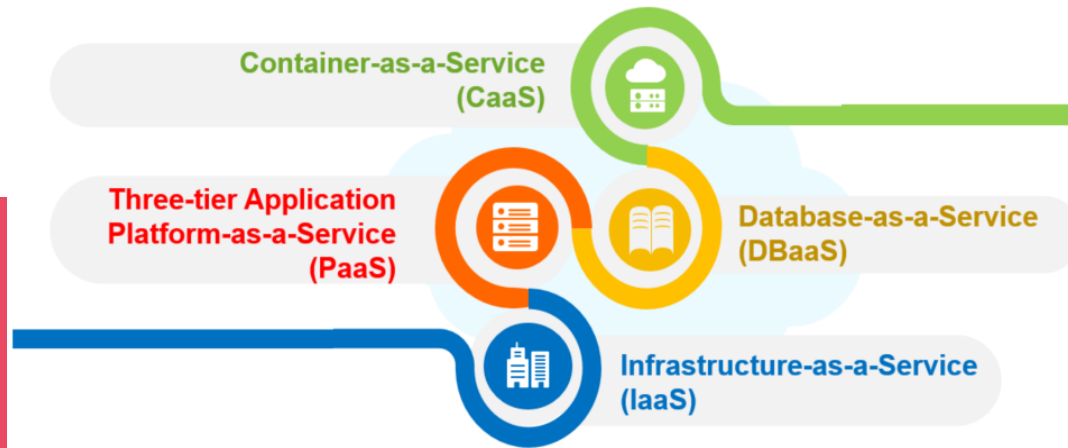Water flow and pressure analytics for Water Intelligence Network
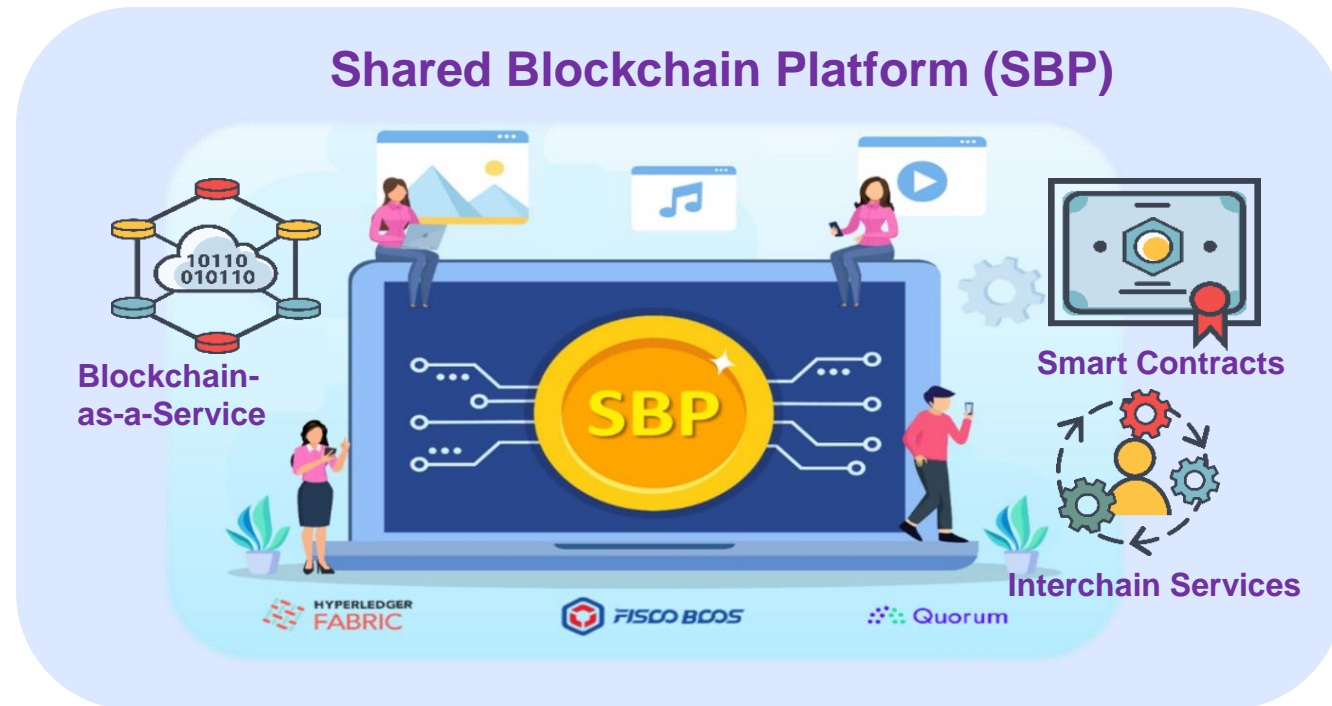
Image masking for privacy protection

Public toilet analytics for better maintenance

BDAP

Government Cloud Infrastructure Services (GCIS)

Container-as-a-Service (CaaS)

Three-tier Application Platform-as-a-Service (PaaS)

Database-as-a-Service (DBaaS)

Infrastructure-as-a-Service (IaaS)

Shared Blockchain Platform (SBP)

Blockchain-as-a-Service

SBP

Smart Contracts

Interchain Services

HYPERLEDGER FABRIC   FISCO BCOS   Quorum

Open and Sharing of Data for Improving Public Services

資料一線通
DATA.GOV.HK

- **3 250 datasets**
- **60 data providers**
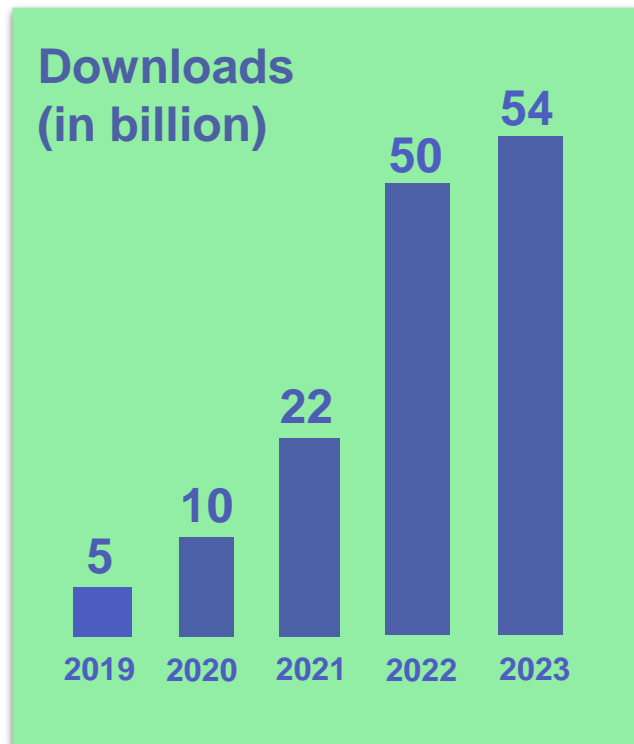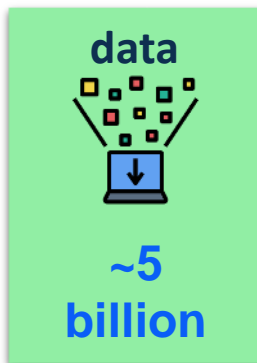- **1 200 APIs**

Oct 2018

Dec 2023

- **5 300+ datasets**
- **118 data providers**
- **2 200+ APIs**

Popular datasets

🚌 Real-time ETA data for public transport

🌀 Real-time weather data

📍 Digital maps

API
>49 billion

data
~5 billion

Downloads (in billion)

2019	2020	2021	2022	2023
5	10	22	50	54

Open and Sharing of Data for Improving Public Services

B/Ds should as a matter of principle and priority **enable data sharing** with other B/Ds

Nomination of Departmental Data Officer	Publication of Departmental Data Catalogue	Data Sharing via Consented Data Exchange Gateway

Streamline user experience in transacting online applications with the Government

Citizen-centric Services

CDEG

Proven

Consented Data (from B/Ds)

Application Data (from User Input)

e-Government Services

Facilitating Data Flow and Safeguarding Data Security

Policy Statement on
Facilitating Data Flow and Safeguarding Data Security in Hong Kong

ITIB published the Policy Statement on Facilitating Data Flow and Safeguarding Data Security in Hong Kong (Policy Statement) 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. (https://www.itib.gov.hk/en/publications/)

Policy Statement
on Facilitating Data Flow and
Safeguarding Data Security in Hong Kong

AI Supercomputing Centre as a strategic I&T infrastructure

Cyberport is preparing the establishment of AI Supercomputing Centre in phases, from this year onwards
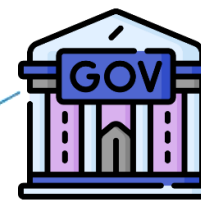
AI Supercomputing Centre

Research Institutes

Government

Industry

Academia

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

The Chief Executive's 2023 Policy Address

2023.10.25

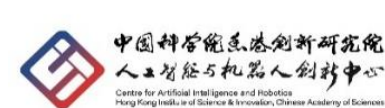# Platform for Training and Building Up AI Talent Pool – InnoHK

$10 billion allocated to set up InnoHK Research Clusters at the Hong Kong Science Park

New "Hong Kong Generative AI Research and Development Center" for R&D on generative AI and HK-based Large Language Model

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

香港大學
THE UNIVERSITY OF HONG KONG

香港中文大學
The Chinese University of Hong Kong

THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

Where top-notch innovations create impact

AIR@InnoHK

HK STP

14 research laboratories admitted under AIR@InnoHK, covering AI-driven big data analytics, AI chips, Fintech, robotics, etc.

ACCESS
AI Chip Center for Emerging Smart Systems
智能晶片與系統研究中心

中國科學院香港創新研究院
人工智能與機器人創新中心
Centre for Artificial Intelligence and Robotics
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences

FLAIR

HK QAI
香港量子人工智能實驗室
Hong Kong Quantum AI Lab

D24H
Laboratory of Data Discovery for Health
醫衛大數據深析實驗室

AiDLab
Laboratory for Artificial Intelligence in Design
人工智能設計研究所

MULTI-SCALE MEDICAL ROBOTICS CENTER

CMRS
產品可靠性暨系統安全研發中心
CENTRE FOR ADVANCES IN RELIABILITY AND SAFETY
A Research Centre admitted under AIR@InnoHK Cluster

LAB for AI-POWERED FINTECH

LR
HONG KONG CENTRE FOR LOGISTICS ROBOTICS
香港物流機械人研究中心

TransGP

博智
Centre for Perceptual and Interactive Intelligence
感知交互研究中心

HONG KONG CENTER FOR CONSTRUCTION ROBOTICS
香港智能建造研發中心

Talent Development – IT Innovation Lab in Schools

As of Jan 2024

2020/21 - 2022/23 school year

IT Innovation Lab in Schools
學校IT創新實驗室計劃

2021/22 - 2023/24 school year

Knowing More About IT
奇趣IT識多啲計劃

2023/24 - 2025/26 school year

IT Innovation Lab in Schools
學校IT創新實驗室計劃
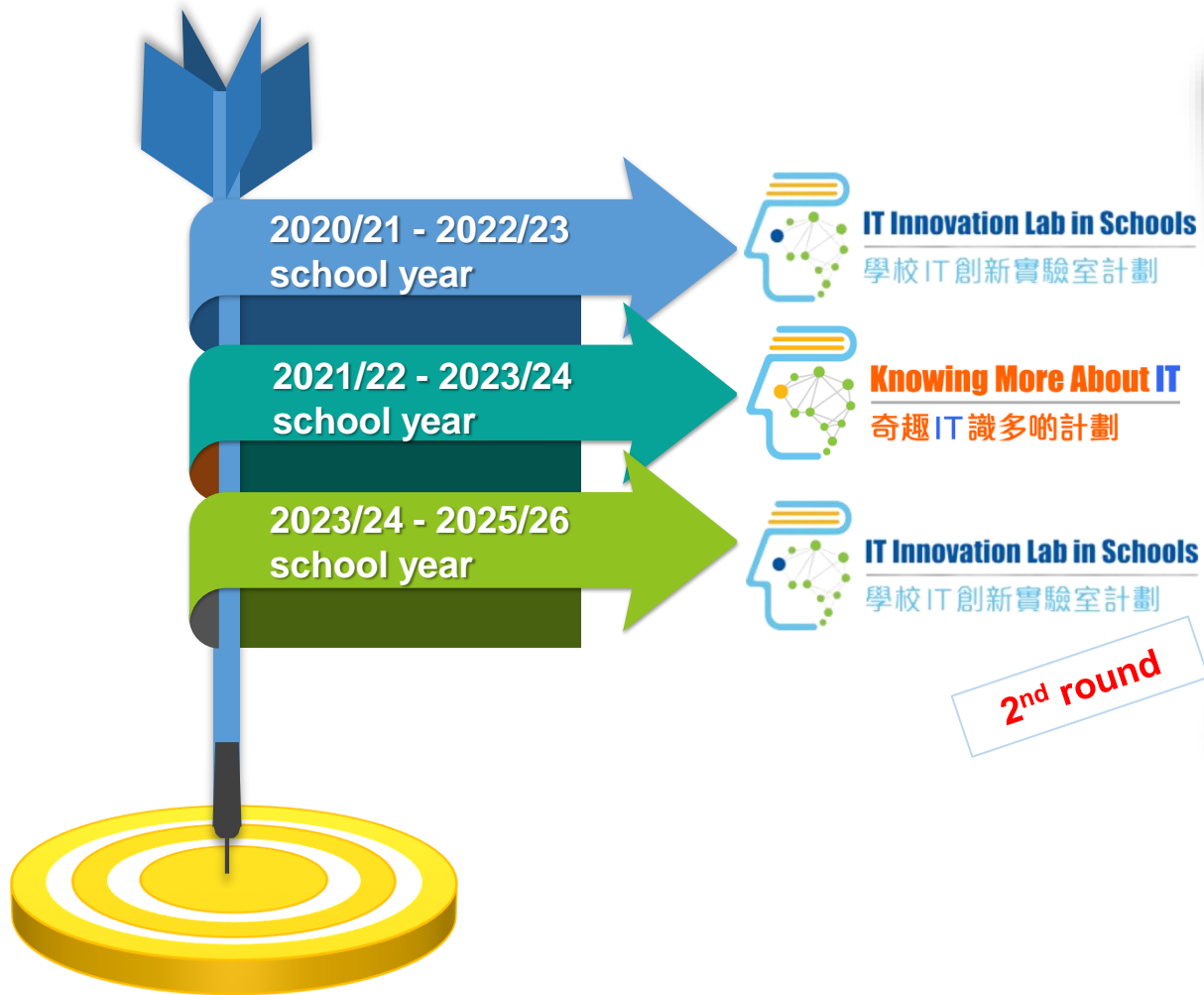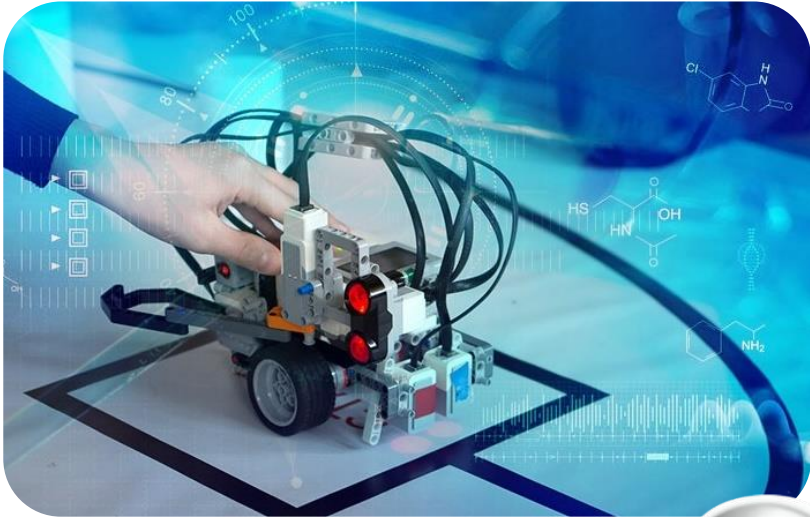
2nd round

~ 960 schools applied

> $500M funding approved

> 300 0000 students benefited

Talent Development – STEM Internship Scheme

- **Providing short-term internship positions in relevance with I&T to undergraduates and post-graduates taking STEM-related programmes**

- **Foster their early interest in pursuing a career in I&T after graduation**

- **Enriching Hong Kong's talent pool**

- **Expand the number of student interns from 3 000 in 2022 to 5 000 in 2027**

Promoting the "Cross-boundary Public Services" Initiative

Co-operation Agreement between Guangdong and the HKSAR on Co-developing a Smart City Cluster in Mar 2023

Ceremony for promulgation of the Hong Kong / Guangdong Cross-boundary Public Services Co-operation Achievements in Nov 2023

Over 100 frequently used cross-boundary public services

智方便
iAM Smart

Connection

through iAM Smart

log in directly to

"Unified Identity Authentication Platform of Guangdong Province"
廣東省統一身份認證平台

Guangdong Provincial Administrative Service website

"Yue Sheng Shi" (粵省事) mobile app

Facilitating Cross-boundary Data Flow within the Greater Bay Area

- ITIB and Cyberspace Administration of China (CAC) signed the "Memorandum of Understanding on Facilitating Cross-boundary Data Flow within the Guangdong-Hong Kong-Macao Greater Bay Area" on 29 Jun 2023

- ITIB and CAC announced the facilitation measure on "Standard Contract for the Cross-boundary Flow of Personal Information Within the Greater Bay Area (Mainland, Hong Kong)" ("GBA Standard Contract") on 13 Dec 2023

  ✓ invited banking, credit referencing and healthcare sectors to join "Early and Pilot Implementation"

Align with the Planning of "South-North Dual Engine (Finance – I&T)"

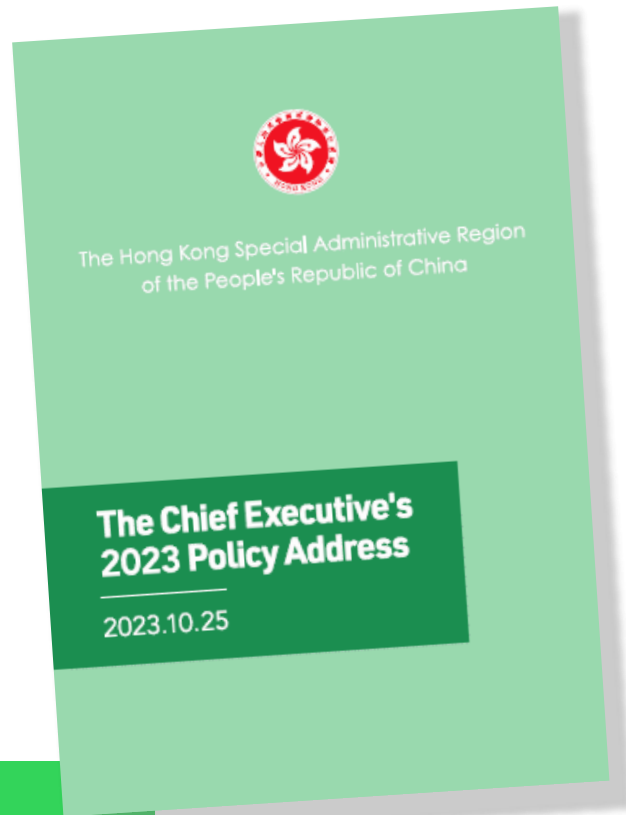**Develop the Northern Metropolis into a "New International I&T City"**

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

The Chief Executive's 2023 Policy Address

2023.10.25

San Tin Technopole

Sandy Ridge for I&T and related purposes

Other Major I&T Related Initiatives in the 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

- **Press ahead with "new industrialisation"**

- **Promote R&D and transformation of outcomes**

- **Foster the synergistic development of the Hong Kong Park and Shenzhen Park**

Thank you