



Innovation Facilitator @ Government *Co-create with Greater Bay Area*

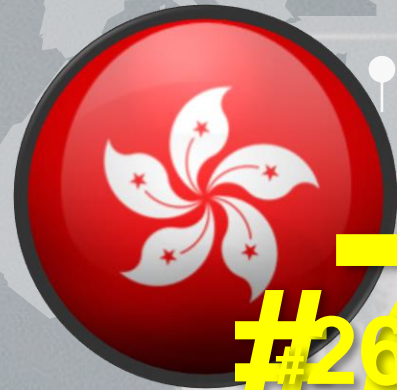
LSCM Logistics Summit 2019

Ir PANG Yiu Hung, JP
Deputy Director, EMSD



Remarkable Achievements





The Global Innovation Capability Index 2018

Source:





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

The Chief Executive's 2017 Policy Address





Increasing R&D
resources



Pooling technology
talent



Providing investment
funding



Providing research
infrastructure

一起同行 擁抱希望 分享快樂 Innovation and Technology



Reviewing legislations
and regulations



Opening up
government data



Bettering procurement
arrangements



Popularizing science
education



R&D Expenditure in HK

HK\$ 21b

HK\$ 15b

2013

2017

To be doubled in 5 years

(in billion)

Source:





R&D Expenditure in HK



HK\$ 500 million
per year since FY 17/18



Rising trend
in FY 19/20





Pro-innovation Government Procurement Policy



Value for money
 \neq
Lowest priced bid



Tenderer's experience become
non-essential requirement



Technical score weighing 50-70%
**(with minimum 20% for innovative elements in
technical assessment)**



Pro-innovation Government Procurement Policy



**EMSD & OGCIIO become
“innovation facilitators”**



Identify I&T market players



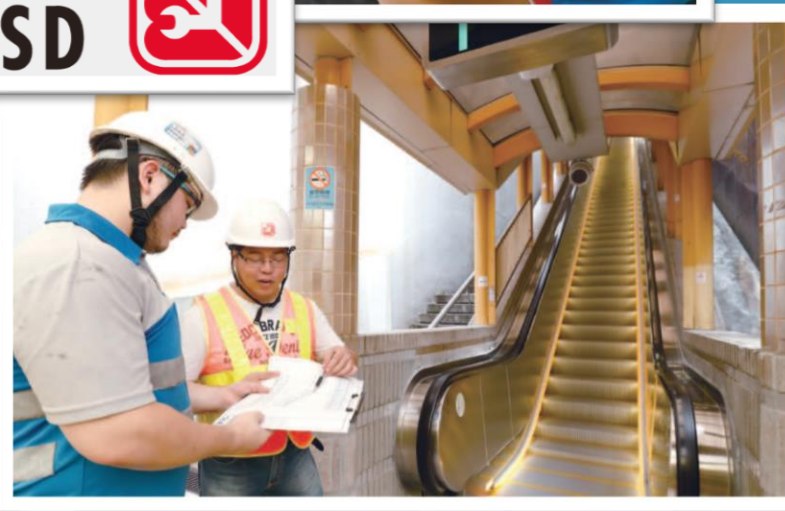
Help B/Ds connect with I&T start-ups



> **8,000**
Government
venues



機電工程署
EMSD



~ **HK\$ 7b**
per year

E&M InnoPortal

Connect
Share
Co-Create



www.emsd.gov.hk/inno



>50 active cases



>64 institutions
& start-ups



>HK\$ 30M
for trials

E&M InnoPortal



AI



Big data



**Video
Analytics**



IoT



**Cloud
computing**



VR/AR

香港智慧城市

Hong Kong Smart City 藍
Blueprint 圖

Hong Kong Smart
City Blueprint



Smart
Mobility



Smart
Living



Smart
Environment



Smart
People



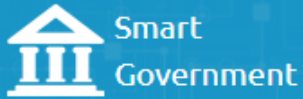
Smart
Government



Smart
Economy

香港智慧城市

Hong Kong Smart City 藍
Blueprint 圖



Hong Kong Correctional Services
The Government of the Hong Kong Special Administrative Region

機電工程署
EMSD



Smart Prison initiative





香港智慧城市
Hong Kong Smart City
藍圖
Blueprint 圖



知識產權署專利註冊處
Patents Registry
Intellectual Property Department



港特別行政區政府
The Government of the Hong Kong
Special Administrative Region

批予短期專利證明書
《專利條例》(第 514 章)

CERTIFICATE OF GRANT OF SHORT-TERM PATENT
Patents Ordinance (Chapter 514)

茲證明下述短期專利在 4 日批予:
I hereby certify that a short-term patent with the following particulars has been granted today:

專利所有人姓名或名稱及地址 Name and Address of Proprietor:
The Government of Hong Kong Special Administrative Region
Electrical and Mechanical Services Department Headquarters
3 Kai Shing Street, Kowloon
HONG KONG

專利編號 Patent No.: HK1218490 申請編號 Application No.: 16109521.1

發明名稱 Title of Invention:
附有樓宇自控系統(BAS)、閉路電視(CCTV)系統、射頻識別(RFID)系統和實時定位系統(RTLS)的建築信息模擬-資產管理(BIM-AM)系統所簡化的大廈操作和維修保養(O&M)服務
BIM-AM SYSTEM STREAMLINED BUILDING O&M SERVICES WITH BUILDING AUTOMATION SYSTEM (BAS), CLOSED CIRCUIT TV (CCTV) SYSTEM, RFID SYSTEM AND REAL TIME LOCATION SYSTEM (RTLS)

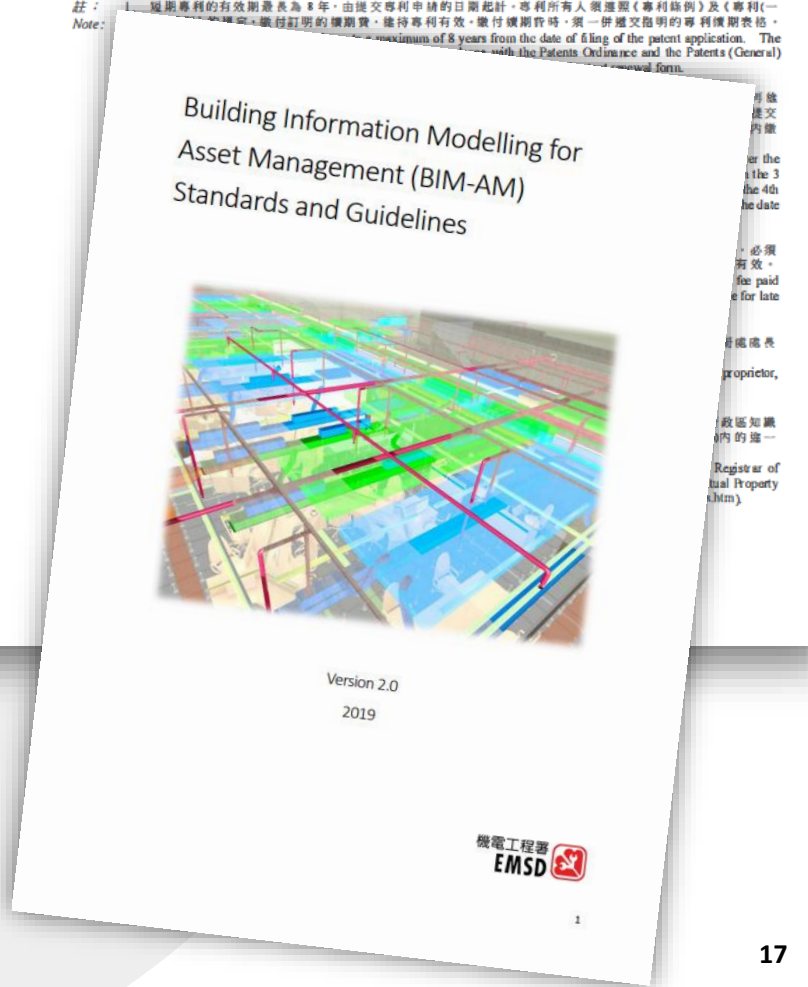
短期專利有效期 (在符合續期的規定下) Term of Short-term Patent (subject to renewal):
由 10.08.2016 起計 8 年
Eight years commencing on 10.08.2016

專利編號 Patent No. HK1218490

日期: 2017 年 2 月 17 日
Date: 17 February, 2017

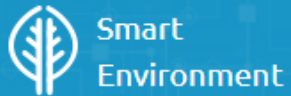
專利註冊處處長梁家麗
Ada K.L. Leung
Registrar of Patents

註: 短期專利的有效期最長為 8 年, 由提交專利申請的日期起計。專利所有人須遵照《專利條例》及《專利(一般)規例》繳付訂明的續期費, 維持專利有效。繳付續期費時, 須一併提交仿印的專利續期表格。 The maximum term of a short-term patent is 8 years from the date of filing of the patent application. The proprietor must pay the prescribed renewal fee to maintain the patent in force. When paying the renewal fee, the proprietor must also submit a prescribed form for renewal.



Patented BIM-Asset Management System

香港智慧城市
Hong Kong Smart City 藍
Blueprint 圖



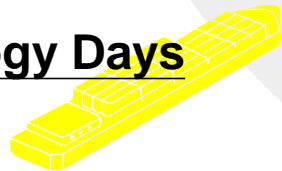
BIM-Asset Management

EMSD as Innovation Promoter

To drive the application of I&T with a view to building Hong Kong into a smart city



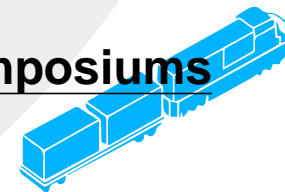
Technology Days



Guided Tours



Symposiums



Jointly Promote and Support Application of I&T



Collaboration with GBA





機電署與廣州市人社局簽署《機電人才發展備忘錄》。
 EMSD and HRSSGZ signed a Memorandum of Co-operation on E&M Talent Development.



機電署與香港、澳門、大灣區及其他內地城市的六個機構共同簽署《粵港澳大灣區建築物重新校驗(再調適)合作備忘錄》。
 EMSD and six organizations from Hong Kong, Macao, Greater Bay Area and other Mainland cities jointly signed a Memorandum of Co-operation on Retro-commissioning of Buildings.

EMSD as Super Connector in lining up E&M sectors in GBA



機電署與廣東省科學技術協會簽署《粵港創新及科技交流合作備忘錄》。
EMSD and Guangdong Provincial Association for Science and Technology signed a Memorandum of Co-operation on Innovation and Technology Collaboration.



機電署與廣東省生產力促進中心簽署《粵港創新及科技發展合作備忘錄》。
EMSD and Guangdong Productivity Centre signed a Memorandum of Co-operation on Innovation and Technology Development.

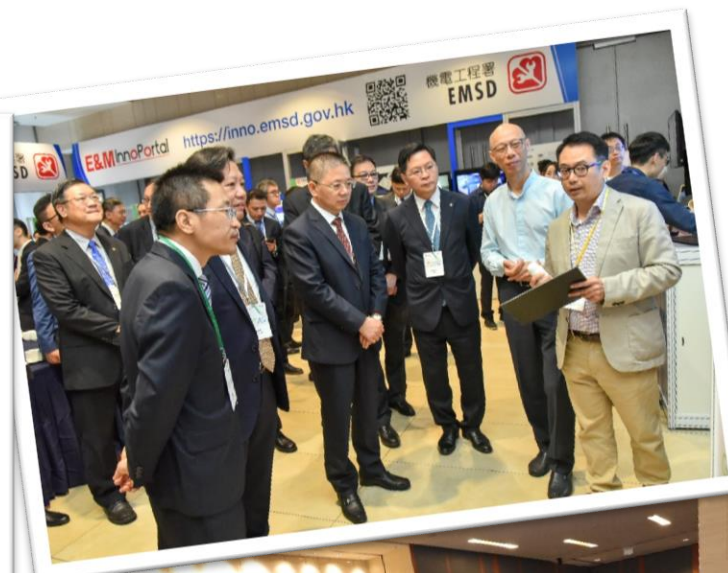


機電署與廣東省科學院簽署《粵港創新及科技發展協作備忘錄》。
EMSD and Guangdong Academy of Science signed a Memorandum of Co-operation on Innovation and Technology Cooperation.

GBA as an International I&T Hub



Green I&T Day



GBA Collaborations

I&T Projects

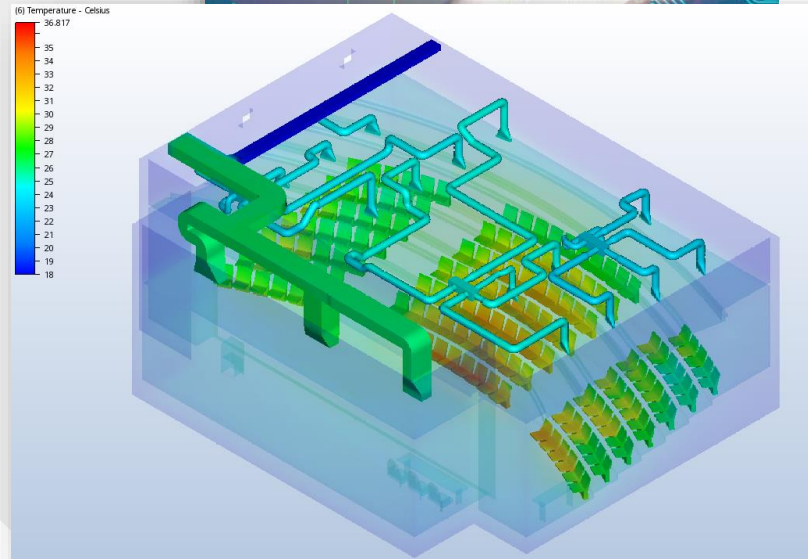
AI-based signal analysis technique for advanced fault detection of lift installations



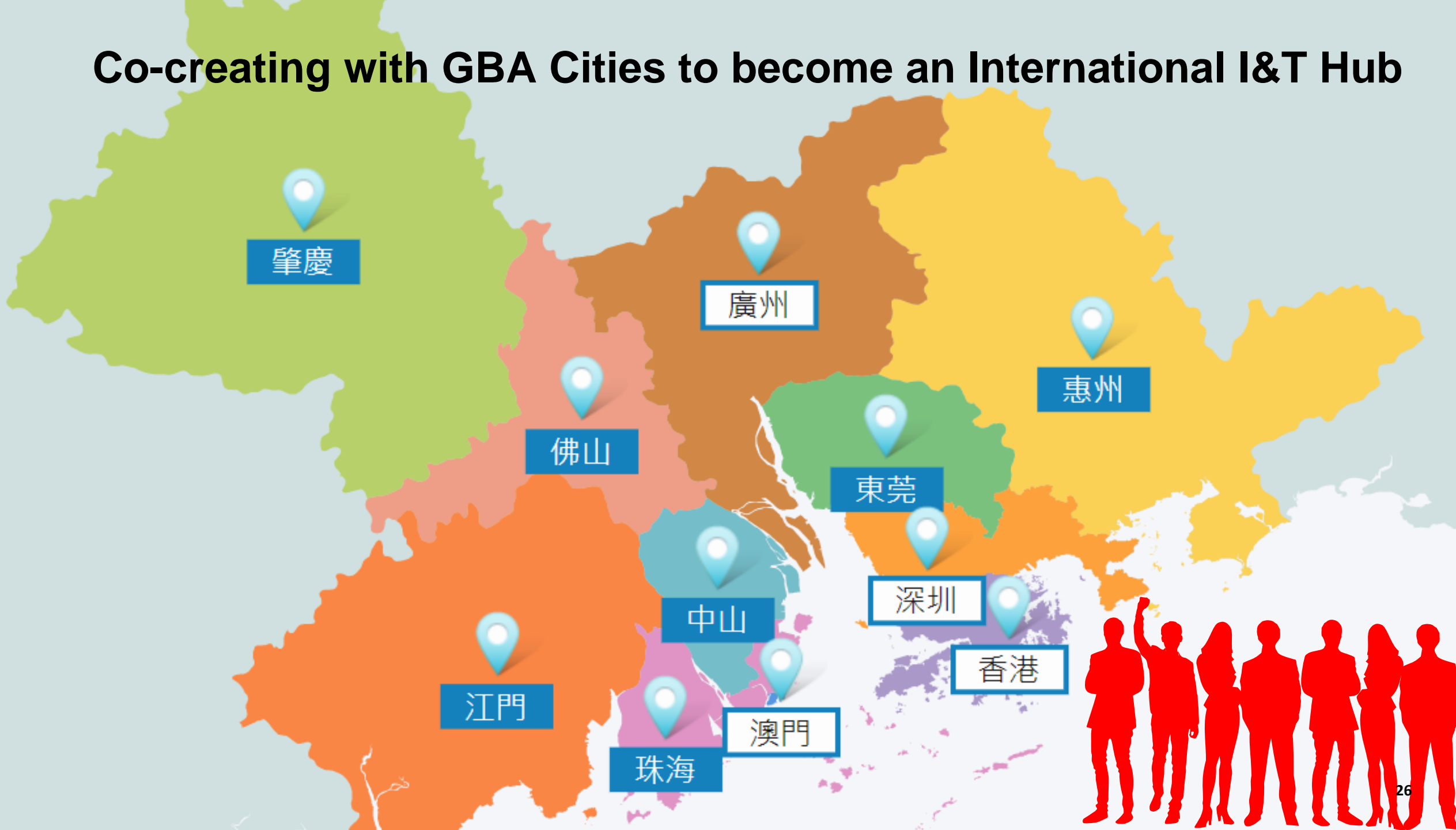
Robotic-based application for mosquito control



Intelligent air conditioning control with machine-learning algorithm through BIM and CFD integration.



Co-creating with GBA Cities to become an International I&T Hub





Thank you

