

# Innovation and Technology for the Betterment of Hong Kong

## AAPBS 2018 Academic Conference

29 May 2018



Ir Allen Yeung, Government Chief Information Officer



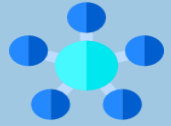


# Vision

- Driving the development of new economy
- Enhancing competitiveness
- Creating quality employment opportunities
- Improving quality of life



# Hong Kong's Pro-Business Environment



## Strategic location

at the heart of Asia, gateway to Mainland China and many of the region's most exciting cities, with non-stop flight connections



## Safe and reliable city



with low risk of natural calamities such as earthquakes and tornadoes



## World's freest economy,

characterized by free trade, free market, free flow of capital and information, with simple and predictable tax regime and an attractive location in Asia Pacific for multinational companies

## Sound Legal System



with IP protections, law enforcement, and international arbitrations

# Robust ICT Infrastructure



## Digital Competitiveness

Asia ranking as 2<sup>nd</sup> and world ranking as 7<sup>th</sup> (2017)



## Digital Security and Personal Safety

World ranking as 5<sup>th</sup> and 7<sup>th</sup> (2017)



## Data Centre Risk Index

Asia ranking as 3<sup>rd</sup>, world ranking as 11<sup>th</sup> (2016)



## Internet Connection

World's 4th fastest average connection speed (2017 Q1)



## Reliable Power Supply

TIA-942 Tier 4 data centre standard, > 99.999% reliability



## ICT Hub in the Region

Huge capacity, multi-channel, high resilience

# ICT Infrastructure enabler to e-Commerce

Average Peak Internet  
connection speed

129.5 Mbps

4<sup>th</sup> fastest worldwide

Household broadband  
penetration

92.8%



Mobile penetration

247.5%

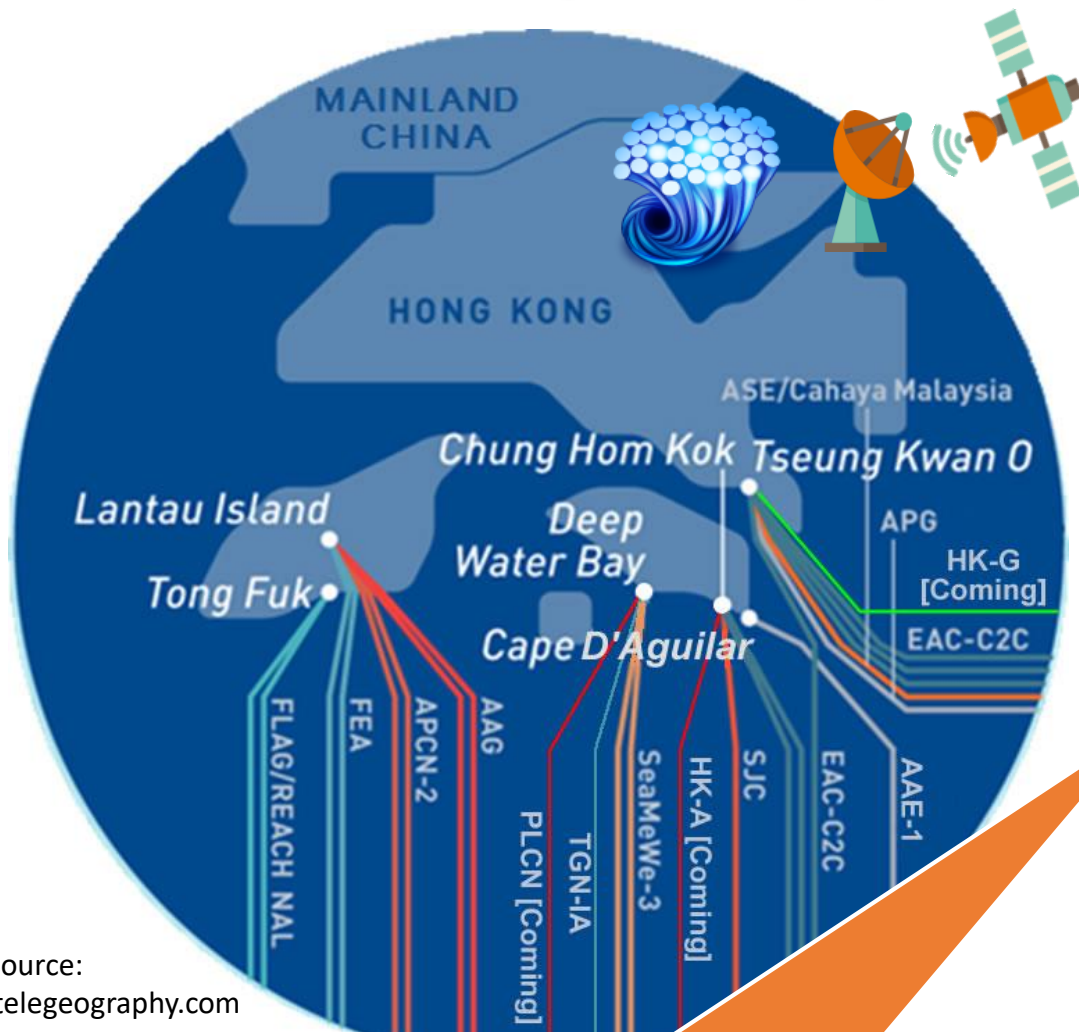
Average Internet  
connection speed

21.9 Mbps

4<sup>th</sup> fastest worldwide



# ICT Hub in the Region



## 11 Submarine Cable Systems

- AAE-1 - Greece, Italy, India, Malaysia, Thailand ...
- AAG - US, Guam, Singapore, Philippines ...
- APCN-2 - Korea, Singapore, Japan, Philippines ...
- APG - Korea, Singapore, Japan, Thailand ...
- ASE - Singapore, Japan, Philippines, Malaysia ...
- EAC- C2C – Korea, Singapore, Japan ...
- FEA - UK, Italy, Spain, Egypt, Saudi Arabia, Korea, Japan ...
- NAL - Korea, Japan, China (Taiwan)
- SeaMeWe-3 - Germany, UK, France, Egypt, Saudi Arabia, India, Singapore, Korea, Japan...
- SJC - Singapore, Japan, Thailand...
- TGN-IA - Singapore, Philippines, Vietnam

## 20 Overland Cable Systems

Connected to the Mainland

## 11 Satellites

about 58 Tbps total equipped capacity of external telecommunications facilities (Dec 2017)

## In the pipeline

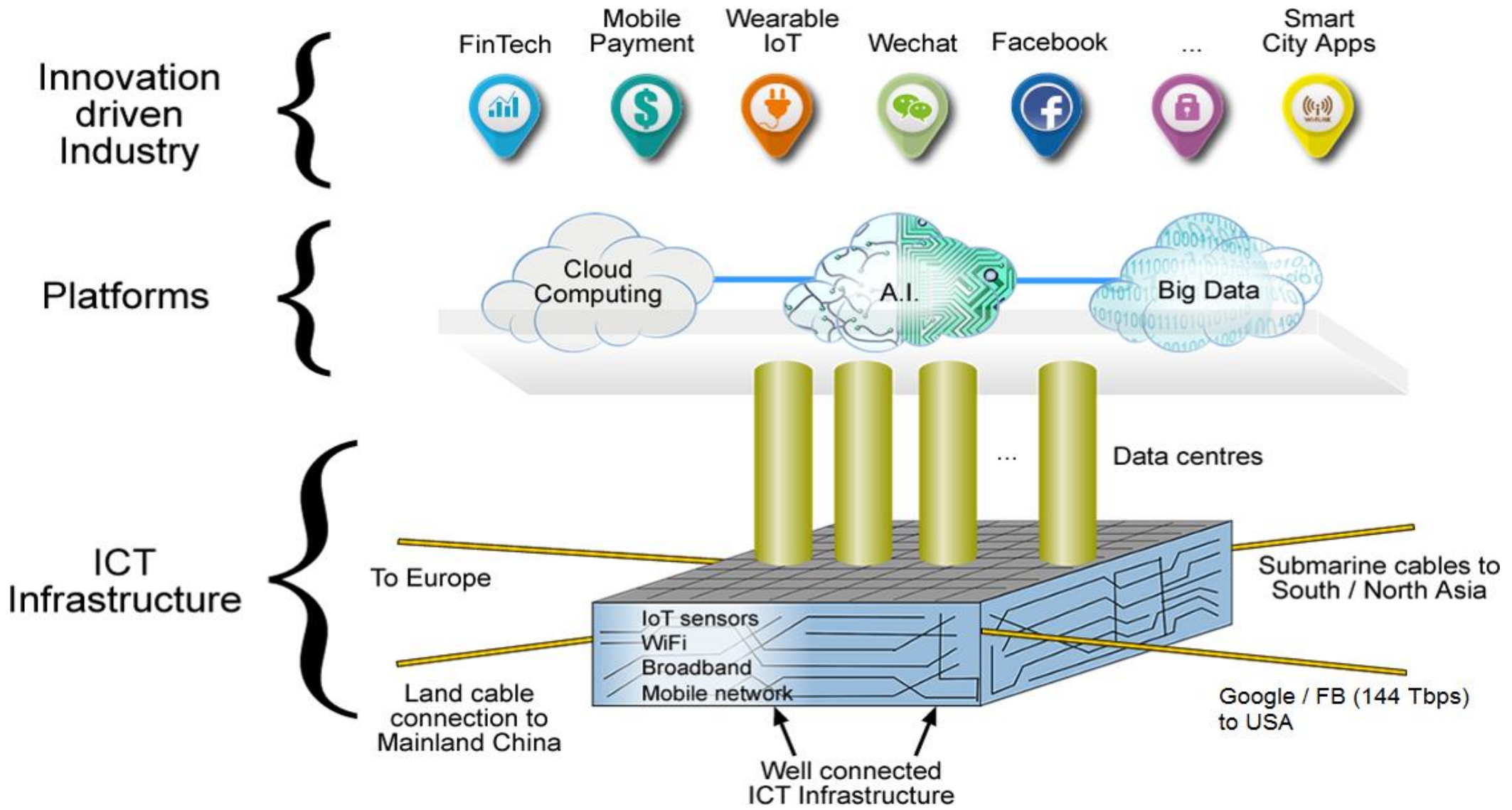
- HK-A - US (California)
- HK-G - US (Guam)
- PLCN - US (LA)

# AAE1 cable map – Supporting the B&R Initiative



Source: <https://www.pccwglobal.com/en/news-room/2017/511-pccw-global-lands-new-asia-africa-europe-1-cable-system-in-hong-kong> 7

# ICT Infrastructure

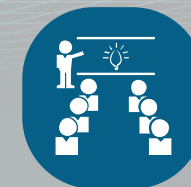






R&D  
resources

Science  
education



Technology  
talent

Procurement  
arrangement



Investment  
funding

Open data



Technological  
research  
infrastructure

Legislation and  
regulations



Eight  
Major  
Areas

1

8

2

7

3

6

4

5



# Smart City Vision

*Embracing innovation and technology to build a world-famed Smart Hong Kong characterised by a strong economy and high quality of living*



# Governance



Steering  
Committee on  
Innovation and  
Technology



Smart City Office

## Six Areas



Smart Mobility



Smart Living



Smart Environment



Smart People



Smart Government



Smart Economy





# Smart People

Nurturing Young Talent



Innovation and  
Entrepreneurial Culture

# Smart Economy

Strengthen the current pillars by leveraging innovation and technology

- Fintech
- Smart Tourism



Develop new economic pillars

- Promote R&D and re-industrialisation



Promoting Sharing Economy

- Review existing legislation and regulations



# Smart Region Living Lab





# Smart Hong Kong: Embarking a New Journey

