



One World

5G

5G Application Potentials and the Government Subsidy

SMART
CONNECTION

SMART
FUTURE

2021/03/03



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Agenda

- 3HK – *5G Ready!*
- 5G – Digital Transformation Enabler
- 5G Applications for Logistics and Transport
- Government Subsidy Scheme and Showcases
- 3Business – Your Digital Transformation Partner

3HK - 5G Ready!



Refarm 2.1GHz for 5G 99% coverage



Build on-top 3.5GHz for speed & capacity at high traffic sites



Expand coverage by aggressive new sites rollout plan

3HK's Strongest 5G Network

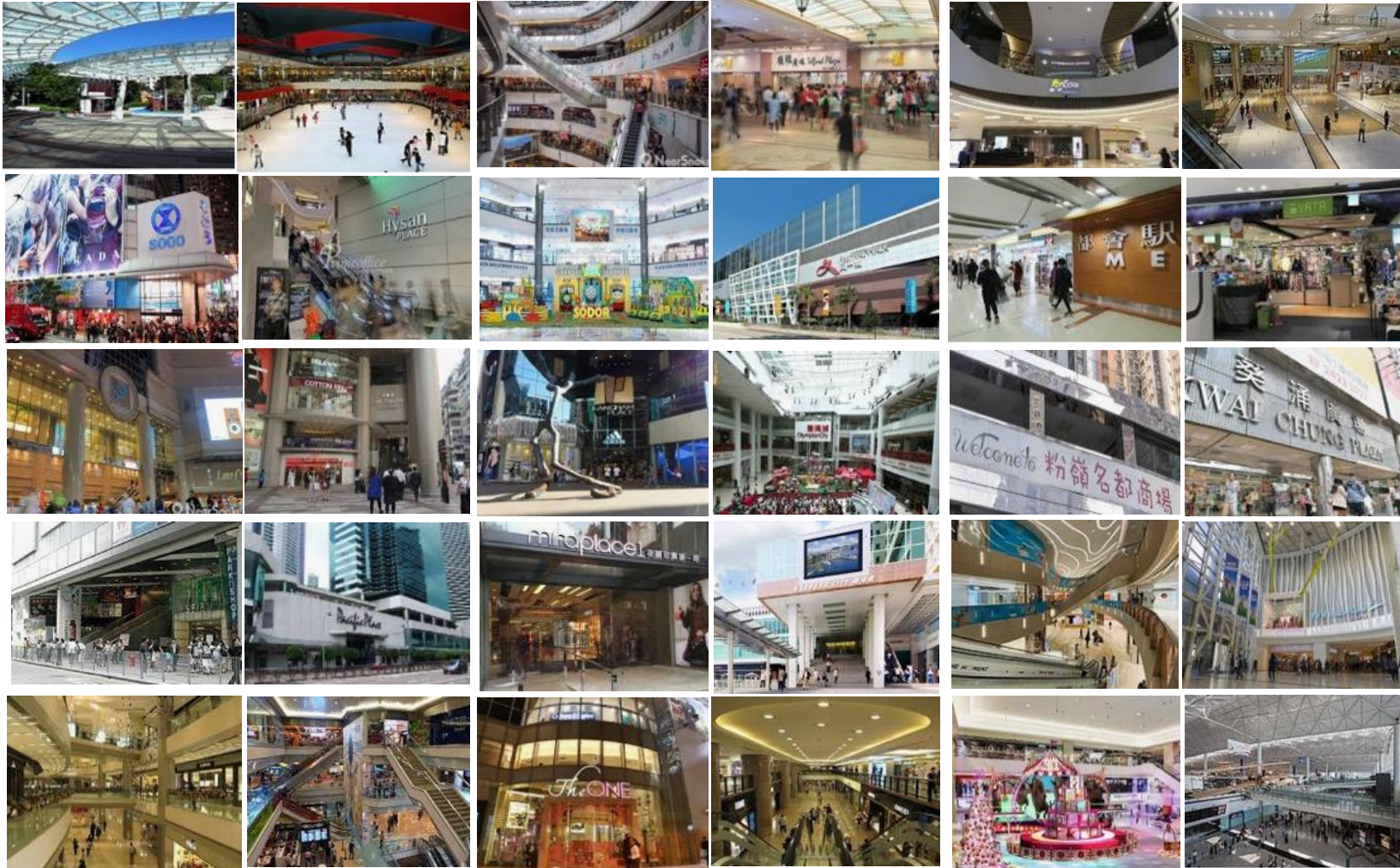
- High Speed
- Low Latency
- A Superior Experience



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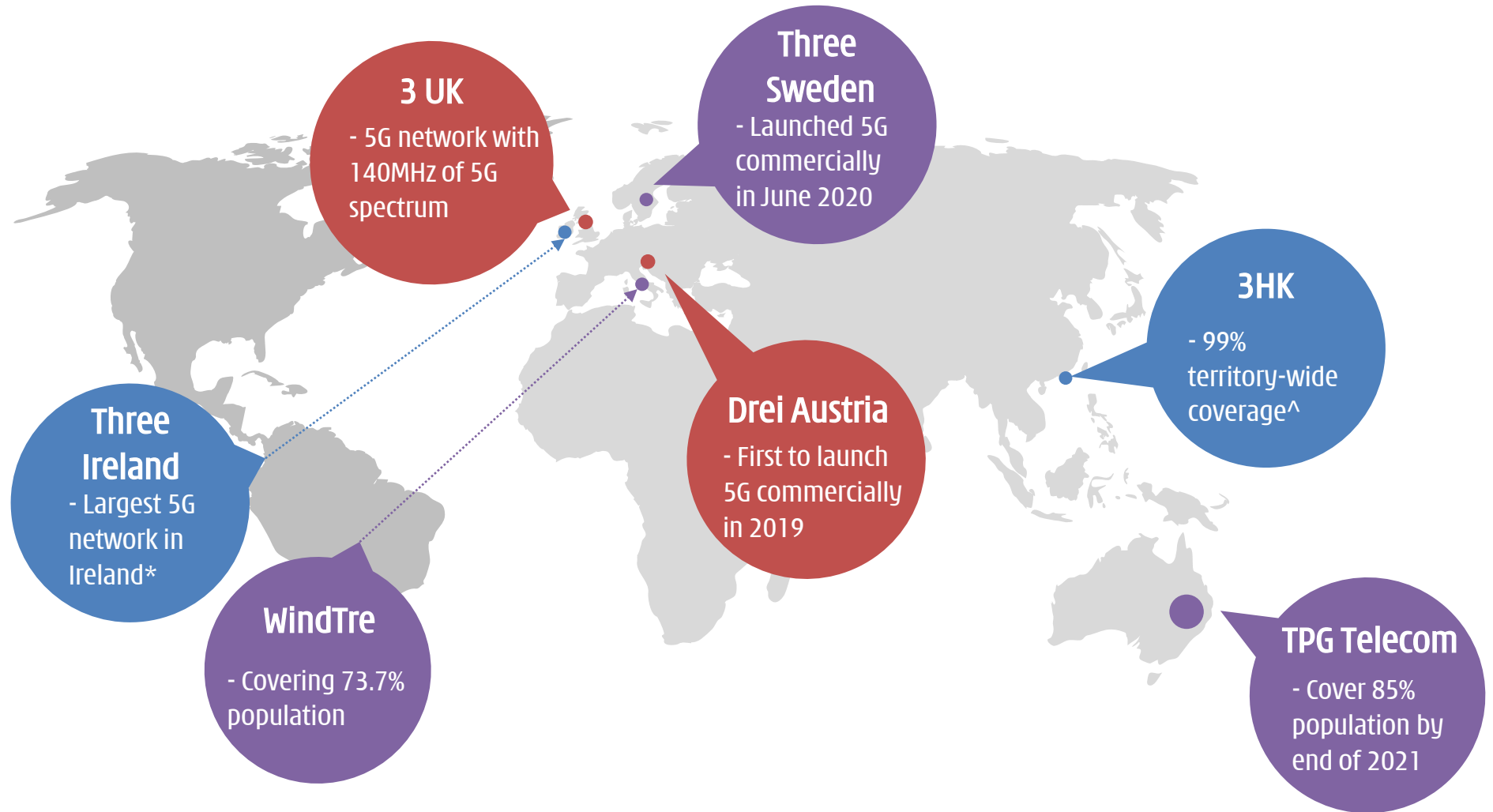
5G Coverage at ~600 Key Premises



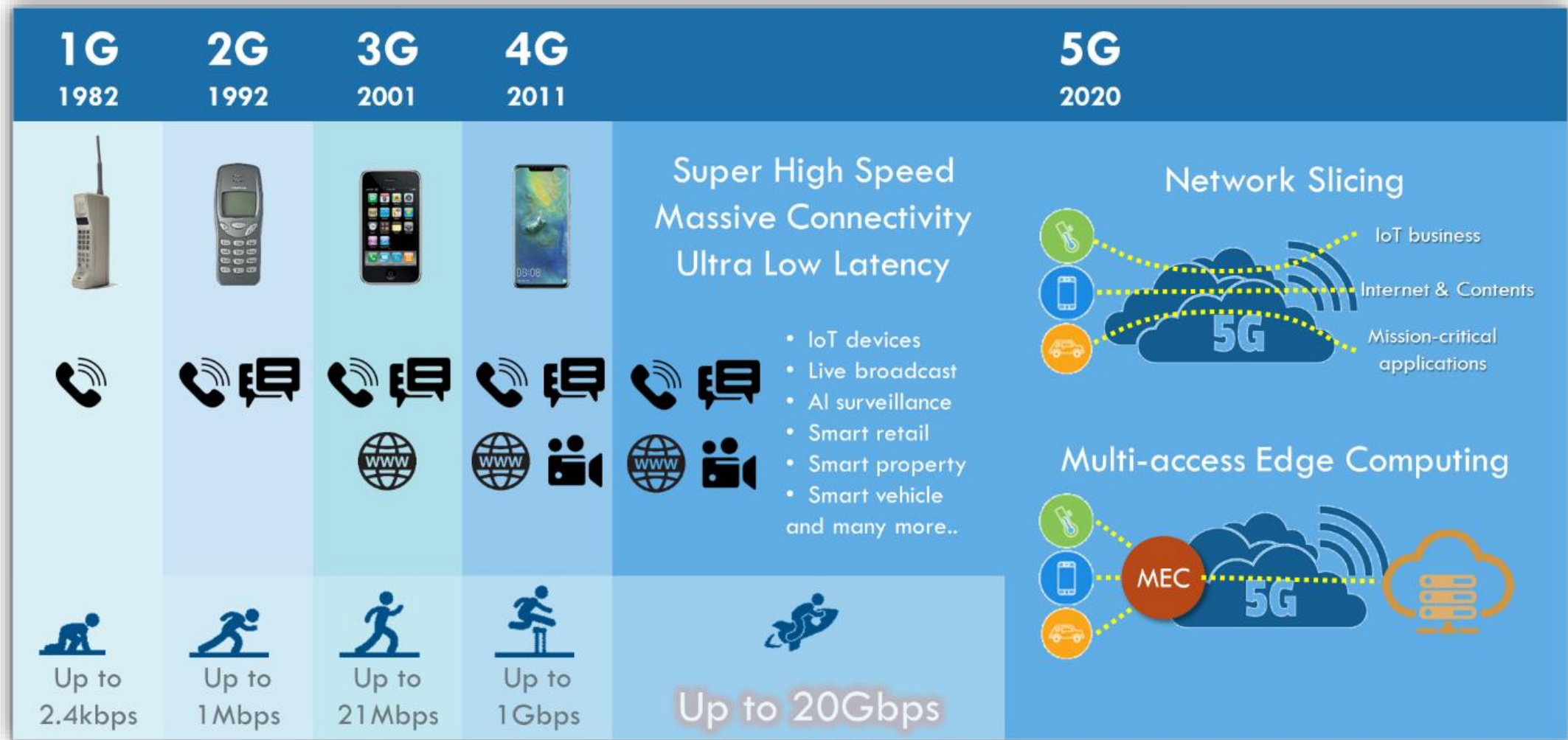
Stanley Plaza
Cityplaza
Sogo
Hysan Place
Times Square
Lee Theatre Plaza
Windsor House
Pacific Place
IFC Phase II Shopping Centre
Shun Tak Centre
apm
Telford Plaza
Plaza Hollywood
Festival Walk
Langham Place
Olympian City
Mira Place
Ocean Terminal
The One
The Gateway
Popcorn
Tseung Kwan O Plaza
Metro Town
New Town Plaza Phase 1-3
Fanling Town Centre
Kwai Chung Plaza
Nina Plaza
Maritime Square
Tuen Mun Town Plaza
Hong Kong International
Airport (East Hall)



3's 5G Global Footprint



5G - Digital Transformation Enabler



5G Applications for Logistics and Transport

5G Push-to-Talk (PTT)

- Warehouse
- Stadium
- Construction
- Property management
- Logistics

Robotics

- Campus
- Shopping mall
- Property management
- Production plants & warehouse

Video Streaming

- Property management
- Fashion & textile industries
- Performance organizers & venues
- Financial house



Video Analytics

- Carpark
- Warehouse
- Laboratory
- Production plants
- Access control

Environmental IoT

- Construction & property management
- Public utilities
- Hospitality

AR / VR

- Training
- Exhibition
- Entertainment
- Retail

5G Applications for Logistics and Transport

Real-time High-definition Surveillance - Ensure Asset Security

- High-definition video capture
- Real-time streaming with super-high speed 5G
- Rapid deployment, highly mobile with wireless connectivity
- Service transparency
 - Logistics management: full visibility of service delivery
 - Customers: on demand monitoring available
- Suitable for use on vehicles, warehouses, car parks, drones
 - Valuable asset
 - Supercars
 - Vaccines
 - Sensitive goods
 - Long term / temporary setup



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5G Applications for Logistics and Transport

IoT & Cold Chain Monitoring – Enhance Service Assurance

- Real-time monitoring of various parameters (temperature, humidity, location tracking, geo-fencing, vibration, unboxing alert, etc.)
- Enable end-to-end transportation monitoring, esp. in-transit
- Continual monitoring of multiple parameters including videos and images if needed, real-time data transmission via super-high speed 5G
- Applicable to transport and storage of premium fresh food, vaccines, chemicals, etc.



Temperature



Humidity



Vibration



Location



Unboxing



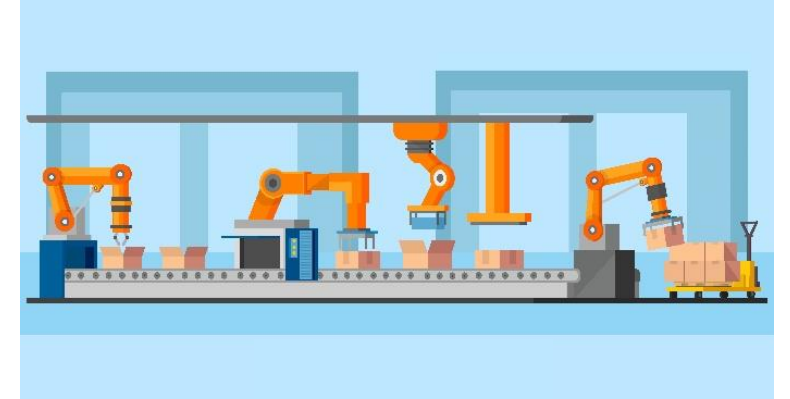
Photo / video for incidents



5G Applications for Logistics and Transport

Box Damage Detection – Quality Assurance & Investigation Aids

- AI and cloud computing to quickly identify damaged boxes
- 5G enables high-speed video processing and damaged box recognition
- Cloud computing aggregates data of various types of goods from different locations to optimize detection precision
- Quickly identify the point of failure and improve the operation



5G Applications for Logistics and Transport

AR Training - Improve Occupation Safety

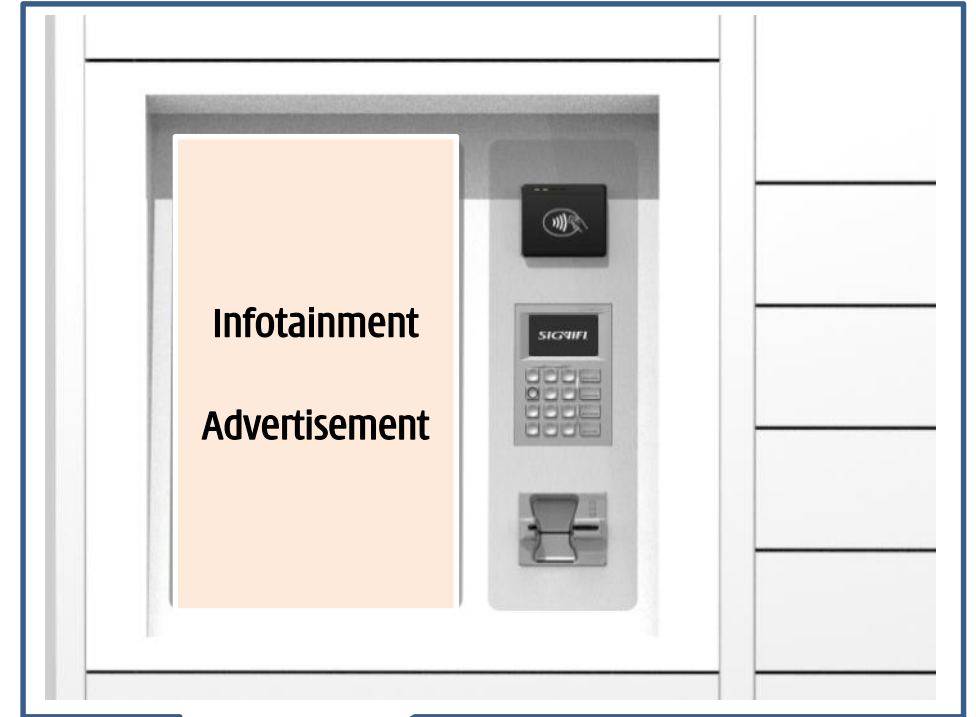
- Real-time visualized, interactive training to field staff, e.g. machine operation
- 5G delivers high-definition and rich AR contents with its super-high speed capacity
- Applicable to drivers, machine operators



5G Applications for Logistics and Transport

Smart Locker Transformation - Uplift Business Values

- Live stream advertisements or media contents via 5G
- Smart lockers become an advertising tool for additional revenue
- Customer service via video calls at smart lockers for better customer experience



5G Applications for Logistics and Transport

5G Push-to-Talk - Cost-saving Communications

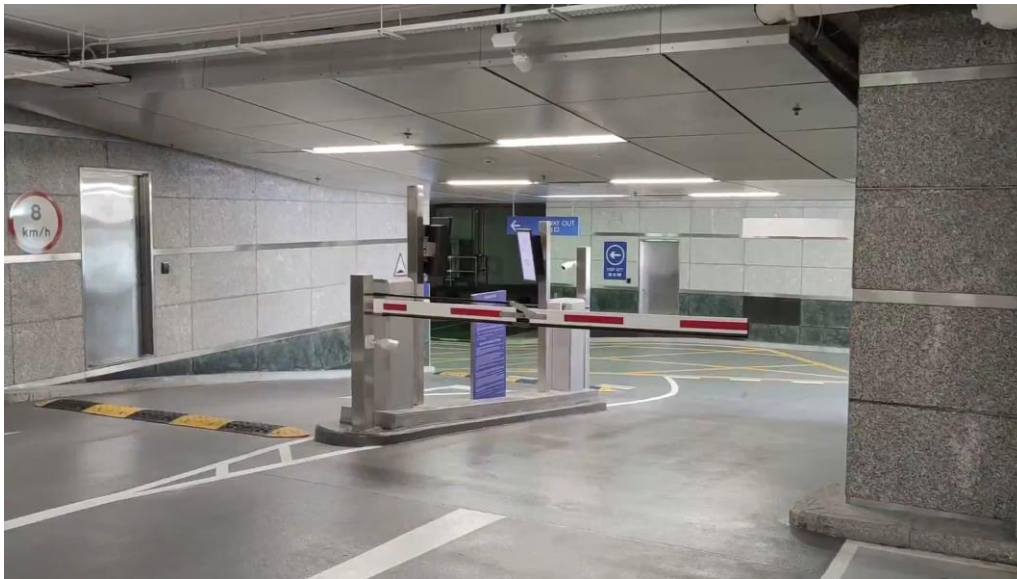
- Save huge PTT operation and maintenance cost
- Consolidate business features into smartphones to improve portability
- Better than conventional PTT, 5G enables content-rich workflow solutions, e.g. delivery sign-off, hob dispatch, report and escalation, internal messaging, voice & video calls, etc.
- Applicable to fleet and field workers



5G Applications for Logistics and Transport

Contactless Car Park – Ensure Access Control

- High-definition video capture
- Automatic License Plate Recognition (ALPR) engine with video analytic technology for precise recognition
- Real-time barrier gate response supported by super-high speed and ultra-low latency 5G
- “Drive-through” experience shortens entry and exit time, improve traffic condition
- Applicable to warehouse and parking lot



5G Applications for Logistics and Transport

Broadband Replacement - Flexible Broadband Solution for Remote Areas

- Ideal replacement for low speed broadband in remote areas
- Plug-and-play for rapid deployment
- Suitable for both permanent and temporary setup



Subsidy Scheme for Encouraging Early Deployment of 5G

- 50% project subsidy up to \$500,000
- Submission deadline: 31st May, 2021
- Approved project completion deadline: 30th Sep, 2021 (with audited report)



3HK - 5G Facilitator and Trusted Partner

- >\$3M cumulative subsidy from the Government



5G Applications for Logistics and Transport

3香港領先打造5G商業應用方案

5G as an Enabler

MR Glasses with BIM-MR Software
(for Management, Safety Teams and Frontline to overlay BIM model on site)

BIM team
(uploading BIM model at office)

李仲謙
保華建築集團
項目管理資訊系統部主管

Mixed Reality (MR) based Building Information Modelling (BIM)

3香港領先打造5G商業應用方案

李仲謙
保華建築集團
項目管理資訊系統部主管

Concierge & Patrol Robot

3香港領先打造5G商業應用方案

迅速應對突發事件

- 遇到緊急查詢或商場發生突發事件，會透過5G網絡即時聯絡商場控制室，通知職員解決問題
- 備有定位系統，讓職員準確知道事發位置，即時到達現場提供協助

3香港領先打造5G商業應用方案

MANDARIN

5G 高頻寬、低延時、廣聯接

關德英
文華國際企業有限公司
聯合創辦人及董事總經理

4K Video Conference

3香港領先打造5G商業應用方案

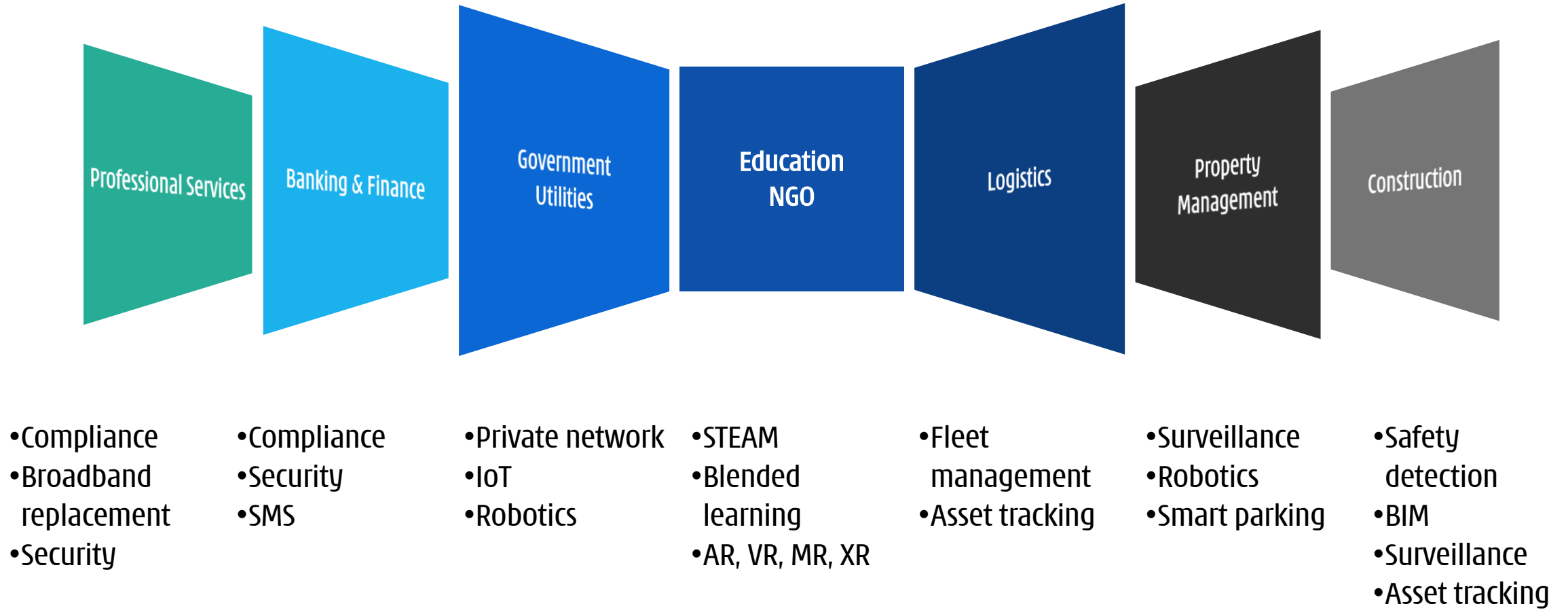
香港舞蹈團
HONG KONG
DANCE COMPANY

5G 4K現場直播舞蹈表演

崔德煒
香港舞蹈團行政總監

4K Live Broadcast

Vertical Expertise



Your Digital Transformation Partner



Enterprise Market
Expertise



One-Stop-Solution



Digital Transformation
Ecosystem





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Thank you



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