

Conclusion of the Subsidy Scheme for Encouraging Early Deployment of 5G

Telecommunications Regulatory Affairs Advisory Committee
20 July 2023



The Scheme

- On 5 May 2020, OFCA launched the Scheme under the **second round of Anti-epidemic Fund** to encourage various sectors, through the provision of financial incentives, to deploy 5G technology early
 - to foster innovation and smart city applications
 - to improve efficiency of operations and quality of services
 - to enhance Hong Kong's overall competitiveness
- Subsidise **50%** of the actual costs, cap at **\$500,000** for each approved project
- Application period: **5 May 2020 – 31 December 2022**



A total of **173** approved projects

The Scheme

Applications must fulfil all of the following requirements

5G technology must be deployed and is the primary enabler

Substantive benefits

Innovation /
cross-sectoral
synergy



Aspects of Approved Projects and Applications

Design

Augmented reality
(AR) based Interior design



Event, conference and exhibition

AR/virtual reality (VR) communication system,
4K / hologram live streaming system



Construction

Construction site management and support, building material delivery



Fire / noise detection, construction site facilities

3D modelling for underground works



e-Sports, entertainment and recreation

Remote e-sports car racing, live streaming broadcast for performances / events / news / gaming tournaments / live streaming



Artificial intelligence (AI) based sport training



Mixed reality based running event, athletes tracking / bio-data monitoring



AR based remote travel

Environmental protection

Smart recycling Machines, slope / tunnel and air-quality monitoring system



Logistics

Remote-controlled rubber-tyred gantry cranes



Finance and insurance

Virtual trading desk, vehicle telematics insurance



Education

AR / VR based teaching, remote teaching, special education, smart farming for STEM education



Aspects of Approved Projects and Applications

Sales and marketing

Real-time online sales

Real-time online auction

Customer traffic flow analysis



Telecommunications

Radio base station inspection,
AR-assisted facility locating



Repair, maintenance and monitoring

Real-time monitoring system, drone system

Remote repair system / technical support



Property and building facilities management

Car park / public area management

Remote technical support, concierge / patrol / advertisement robot



AI based security system



Medical, healthcare and public health

Remote consultation and Training for surgical operation

Insecticide / disinfectant spraying robot, robotic bio-data monitoring

Remote medical support, remote medical diagnosis



Textile

Real-time display of fabric samples



Transport

Real-time detection of unauthorised access to tunnel restricted area



Agriculture, forestry and fisheries

Real-time remote monitoring, smart fish farming

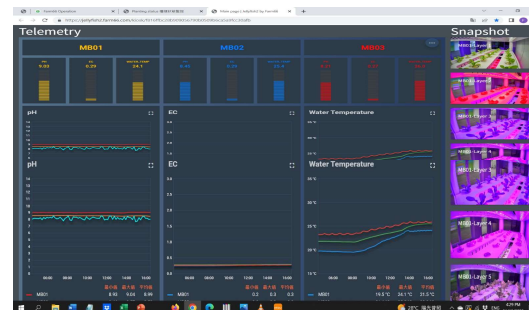


Approved Project – Example 1

Smart Farming for STEM Education



A smart agricultural laboratory in school campus for delivering STEM learning activities in smart farming



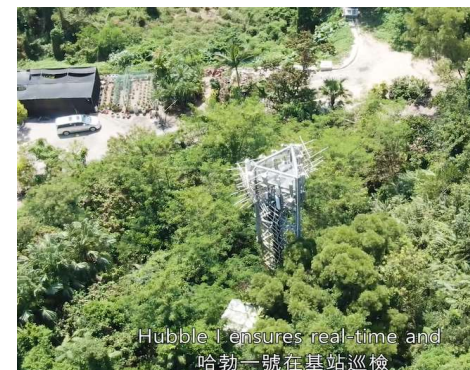
Through AI analysis, students can remotely monitor and adjust plant growth conditions

Approved Project – Example 2

5G Connected Drone for Radio Base Station (RBS) Inspection



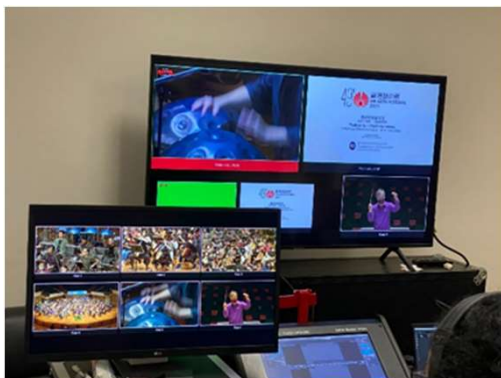
A 5G connected drone system for inspection of radio base stations through live streaming and drone flight automation



RBS conditions are live streamed through the drone camera for inspection by maintenance personnel in real time

Approved Project – Example 3

4K Live Video Broadcast Solution for Orchestra



The live broadcast solution allows the orchestra to livestream its performance in high quality to audience everywhere



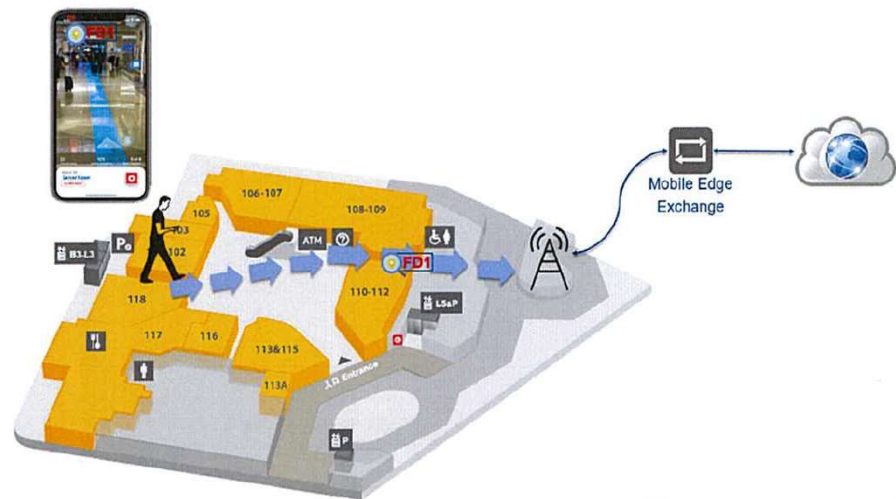
5G網上串流
直播音樂會

Approved Project – Example 4

5G AR Indoor Navigation System

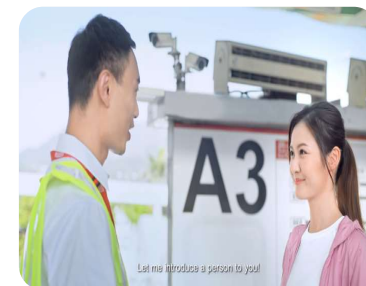


A mobile application using AR technology to navigate field operation technicians to access the destination in an unfamiliar customer building to carry out repair and maintenance service on telecom equipment



Publicity Activities

- To enhance public awareness of the Scheme and the tremendous potentials of 5G, a series of publicity programmes was launched:
 - **Advertisements** on various social media platforms and websites
 - A series of **short videos** “Office of Superpower” about five approved projects



Publicity Activities

- Two experience-sharing seminars in April 2021 and December 2022



Conclusion

The Scheme provides financial support to encourage different industry sectors to adopt 5G and **promote 5G deployments**, with a view to

- **facilitating smart city development**
- **providing convenience for the public in their daily life**
- **opening up more business opportunities and room for development for start-up businesses**
- **fostering innovation**
- **staying competitive in digital landscape and enhancing Hong Kong's overall competitiveness**



Thank You

