

## Projects with Notice of Completion Issued

As of 1 October 2021, a total of 23 projects have been completed with notice of completion issued:

No.	Description of the Project	Aspect
1	<p><u>Cloud Platform for Augmented Reality (AR)/Virtual Reality (VR) Content Production and Publication</u></p> <p>To modify AR/VR-based learning materials in a cloud-based server by tutors so that students can use specially designed mobile apps and devices to access the learning materials.</p>	Education
2	<p><u>Portable 4K Live Streaming Studio for Fitness Using 5G</u></p> <p>With 5G, the applicant creates a portable 4K video studio that it can travel to coaches' studios/home or outdoor to do the live streaming.</p>	e-Sports, entertainment and recreation
3	<p><u>Detection of Unauthorized Access for Tunnel</u></p> <p>To enhance security of tunnel by installing Internet of Things (IoT) motion detection cameras. All the cameras are connected to cloud-based video analytic engine via 5G network. The solution can analyse video images and send out alert if suspicious objects found in real time.</p>	Transport
4	<p><u>360 Remote Repairing System</u></p> <p>To enhance the remote-control repairing service system/platform for industrial machine repair via 5G network.</p>	Repair, maintenance and monitoring
5	<p><u>Real-time Monitoring of Elevator Safety and Remote Technical Support Solution</u></p> <p>Provide real-time remote technical support to frontline technicians on elevator maintenance and a 24-hour monitoring system for elevators.</p>	Property and building facilities management
6	<p><u>Ultra Compact High Efficiency Video Coding (HEVC) for Operation Improvement and Quality Enhancement of a Television Station</u></p> <p>To adopt HEVC transmitters, a video transceiving platform and a mobile application for live stream video over 5G network to replace microwave transmitting stations.</p>	e-Sports, entertainment and recreation

No.	Description of the Project	Aspect
7	<u>4K Live Video Broadcast Solution</u> To implement a set of 5G 4K live broadcast solution to simulcast concert performance over the Internet.	e-Sports, entertainment and recreation
8	<u>On-site Design with the Support of VR and 5G Technologies</u> To develop a platform which will adopt on-site scanning of interior layout, AR/VR, and 5G technology for the applicant's interior design service.	Design
9	<u>Real Virtuality Remote Car Racing</u> To develop a car racing remote control system that allows players to control a mini motor car from a far remote location.	e-Sports, entertainment and recreation
10	<u>AR-based Booth Design Platform</u> To adopt AR technology to facilitate the communications with clients during exhibition booth design.	Event, conference and exhibition
11	<u>5G-BIM-MR Solution</u> To adopt smart glasses for applicant's consultants, contractors and architects to visualise and edit Building Information Modelling (BIM) through Mixed Reality (MR) at the construction sites.	Construction
12	<u>Collaborative Engineering Design with 5G</u> To make use of VR and AR technologies running on top of 5G to enable collaborative engineering design of remote surgical device.	Medical and healthcare
13	<u>4K Video Conferencing Solution</u> To adopt a 4K video conferencing solution for showing applicant's fabric products to customers. The solution is equipped with 20x zoom capabilities which magnifies the fabric for detailed viewing.	Textile
14	<u>Adopting 5G Technology on Mobile BIM and AR Applications in Building and Construction Sites</u> To develop a mobile application for the use of the three dimensional BIM and AR for on-site building and construction site inspection.	Construction

No.	Description of the Project	Aspect
15	<u>5G Connected Drone for Radio Base Station (RBS) Inspection</u> 5G connected drone system for the inspection of RBS.	Telecommunications
16	<u>MR Remote Maintenance Solutions</u> To develop and implement MR Remote Maintenance Instruction Solutions with 5G technology so that technicians can give commands and instructions to on-site workers to perform the fieldwork (inspection, repair and maintenance, etc.) via smart glasses.	Repair, maintenance and monitoring
17	<u>5G Smart Reverse Vending Machine (RVM)</u> To (1) upgrade the artificial intelligence recognition system by incorporating 5G technology into the RVM such that pictures of the recycled items taken by the inbuilt camera are transferred to cloud server for real-time analysis and results are then sent back to RVM and (2) to develop a remote monitoring system by utilizing the inbuilt camera to monitor the operations of RVM such that technicians at back office can communicate with the on-site staff to carry out maintenance work.	Environmental protection
18	<u>5G AI Camera Detection and Mobile IoT Sensor for Residence</u> To deploy a surveillance system at a residential building.	Property and building facilities management
19	<u>5G 4K Live-Streaming Car for Sport Programmes</u> To deploy a platform to broadcast live sport events with 4K resolution.	e-Sports, entertainment and recreation
20	<u>3D learning materials</u> To deploy AR smart glasses and AR based 3D learning materials for teaching.	Education
21	<u>5G Enabled Smart Hospital</u> To deploy 5G enabled network infrastructure at an education institution Medical Centre to enable remote medical training and remote medical consultation.	Medical and healthcare
22	<u>Real-time Disinfection Station Maintenance Support System over 5G</u> To deploy AR smart glasses with 5G network in Real-time Maintenance of Disinfection Station.	Repair, maintenance and monitoring

No.	Description of the Project	Aspect
23	<p data-bbox="343 264 1114 331"><u>Interior Design with the Support of AR and 5G Technologies</u></p> <p data-bbox="343 365 1114 472">To develop a platform which adopts AR and 5G technologies for the applicant's service for construction design projects.</p>	Design