



5G MALAYSIA DEMONSTRATION PROJECTS

FACTSHEET

Digi at the 5G Malaysia: Progressing Humanity Showcase (18-21 April 2019)

Presented three 5G use cases to demonstrate the technology's potential impact on Emergency Services, Learning and eSports, running on transmission speeds of up to 1.6Gbps on the 100MHz spectrum 5G network. The showcase was open to the public on 20 and 21 April at Kompleks Perbadanan Putrajaya, presenting a unique opportunity for all Malaysians to witness the potential of the next frontier in telecommunications technology.

Digi partners ZTE to explore 5G innovations (27 May 2019)

The partnership aims to explore several aspects of collaboration to make 5G a reality in Malaysia, including 5G live trials of end-to-end network functions and features, and pilot trials of 5G use cases for enhanced Mobile Broadband (eMBB), Fixed Wireless Access (FWA), Ultra-Reliable Low-Latency Communication (URLLC) and Massive Machine Type Communications (MMTC). We believe collaborations and trials is key to explore use cases that are relevant to Malaysia, and is an important part of Digi's next steps towards implementing 5G technology in the country.

Digi's 5G OpenLab, the first in Malaysia (Opened for submissions on 18 September, Lab opens 1 October 2019)

Digi and Cyberview Sdn Bhd (Cyberview) partnered to introduce the 5G OpenLab, a 5G-powered collaborative space in Cyberjaya where businesses, academics and developers can go to test new 5G use cases. The Lab is the first of its kind in Malaysia.

Located in Cyberview's RekaScape, the 5G OpenLab is a 1,102 square feet collaborative space that will serve to advance new technology solutions and innovations with Digi and its technology partner, ZTE. The Lab will provide select participants the opportunity to trial test cases and prototypes that will benefit from 5G's super high-speed, massive bandwidth and ultra-low latency connectivity in a live, controlled environment. The trials will be conducted using 100MHz of the 3.5GHz spectrum.

The 5G OpenLab will open its doors on 1 October 2019, with Universiti Putra Malaysia (UPM) and CREST (Collaborative Research in Engineering, Science and Technology) as the first of many to conduct trials at the lab. UPM will test two use cases related to a smart education virtual reality learning space, and an augmented reality avatar for smart cities. Participating faculties from UPM are the Faculty of Engineering and Faculty of Computer Science and Information Technology. CREST will work on digital healthcare use cases related to Emergency Medical Services, remote surgery, remote monitoring for Smart Hospitals and 5G connected ambulances.

The 5G OpenLab is open to academics, universities, developers and registered businesses. Applicants must have use cases ready to be tested in the Lab, related to the areas of smart cities, smart mobility, smart healthcare, and creative digital content. Applications are open from now until 17 October 2019, and can be submitted online at 5Gopenlab@cyberview.com.my. For more information, please visit digi.my/5GOpenLab.



Digi's active participation in the 5G Demonstration Project (1 October 2019 onwards)

In conjunction with Malaysia's 5G Demonstration Project (5GDP), Digi will be conducting 5G use case trials at the 5G OpenLab in Selangor, and at Langkawi Airport and Hospital.

Digi's Use Cases in Selangor

Testing will be conducted at Malaysia's first 5G OpenLab, with use cases focusing on the digital healthcare, education, entertainment/media and smart city verticals.

1. Virtual Maker Space (Collaborative VR)

An always available virtual maker space that connects users from multiple locations to learn, collaborate and create together in a safe environment.

Benefit: Revolutionise real-time collaboration across geographical locations and space limitations.

2. Interactive AR with Avatar

An interactive, mixed reality experience, where avatars are virtual tourist guides who help visitors explore a city by sharing information using landmarks and attractions as markers.

Benefit: The solution works as a tourist information centre on-the-go.

3. Remote Diagnosis/Monitoring and Connected Ambulance

Real-time patient health data transfer from remote places or moving vehicles to a control centre (i.e. remote clinics, inside an ambulance to hospitals). This test is done in a lab setting.

Benefit: The continuous streaming of patient data from when the paramedics arrive on scene right up to delivering the patient at the hospital will create improved experiences and better life enhancing outcomes for patients.

4. Fixed Wireless Access (FWA)

Exploring the possibilities of wireless gigabits per second speed connections to homes and other premises.

Benefit: FWA will play an important role in providing internet access to areas that cannot be fiberised, such as remote areas, rural schools or internet centres, where access is important to catalyse modernisation and change for more Malaysians in these areas.

Digi's Use Cases in Langkawi

Langkawi will be the first island in Malaysia to have 5G. Digi's testing here will focus on advancing digital healthcare and tourism on the Island.

1. Real-Time Medical Data Transfer

Real-time patient health data transfer from the emergency department or ambulance direct to specialists' devices. As compared to testing in a controlled environment at the 5G OpenLab, this will be real life test at the Hospital.

Benefit: The continuous streaming of patient data from when the paramedics arrive on scene right up to delivering the patient at the hospital will create improved experiences and better life enhancing outcomes for patients.

2. Virtual Tourism

Experience a 360 degree view of tourist attractions via live streaming of HD videos when you arrive at Langkawi Airport.



Benefit: Provides a teaser to first-time tourists to get a glimpse of attractions in their destination of choice prior to signing up for the actual trip. This solution could also potentially serve to enable people with disabilities (OKU) to experience attractions that are difficult to reach the world over.

Digi believes that 5G will bring entirely new possibilities to the way Malaysians live, work and play, and the best way to explore these possibilities is to put 5G in the hands of our local innovators, developers and partners. We strongly believe in a collaborative approach to develop the potential of our nation's 5G ecosystem. Here's why:

- 5G will be one of the main catalysts for technological advancement in other verticals and industries.
- We are at the early stages of 5G, and where the potential of 5G to stimulate such technological progress needs to be verified and validated.
- Testing different categories of use cases will help us verify two important points,
 1. The technical requirements of 5G to deliver each of these use cases, and
 2. Identify which use cases would bring the most immediate benefits to businesses and society, and the potential to commercialise them in the near future.
- It is crucial for this process to be collaborative, involving as many partners, academics, innovators, developers, and agencies as possible, as these test findings will help to accelerate the development and commercialisation of these use cases.
- The larger the data set, the more we set ourselves on the path to succeed in building a robust 5G ecosystem for Malaysia and bring meaningful impact for the benefit of businesses and the society.

- End -