5G MALAYSIA DEMONSTRATION PROJECTS

FREQUENTLY ASKED QUESTIONS

Autonomous Vehicle

1. What is an Autonomous Vehicle?
   Answer: It is a driverless or self-driving car capable of detecting its surroundings through the use of connected intelligent transport systems (C-ITS) and drives without human input.

2. What is connected intelligent transport system (C-ITS)?
   Answer: This is a technology which allows vehicles to become connected to each other, their surrounding environment e.g. traffic lights, road signage etc. and other parts of the transport network through a wireless device. C-ITS technology can improve road safety by preventing collisions and also assists in reducing congestion and environmental impacts.

3. When will autonomous vehicles be available?
   Answer: Some companies with driverless technology in development believe they'll have them ready for the market in just a few years: 2021 – 2025.

4. How safe are driverless cars?
   Answer: Fully driverless cars aren't ready for the open road yet, but when the technology is perfected and they have enough test miles under their belt, driverless cars will be incredibly safe, perhaps saving many, if not all, of the 1.2 million lives lost to traffic accidents globally each year.

TV Broadcast over 5G

1. What is 5G Broadcast?
   Answer: 5G Broadcast is designed to deliver Digital TV using 5G Technology. With this, viewers will have option to watch Digital TV from Mobile devices, without streaming data or internet from 5G network.

2. What is technology used in 5G Broadcast?
   Answer: 5G broadcast using the process named FeMBMS -Further

evolved Multimedia Broadcast Multicast Service. The technology will

integrate with MYTV transmission system & transmit the signal from MYTV's broadcast antenna.

3. How to receive the 5G Broadcast content.
   Answer: Smart phone or tablet or device with 5G Broadcast enable.

4. Will 5G Broadcast consume data?
   Answer: No, 5G broadcast content signal is transmitted from digital terrestrial television transmitter known as HPHT (high power high tower) downlink. Device without SIM is able to receive the HPHT downlink.

5. Is there any buffer for 5G Broadcast content?
   Answer: 5G Broadcast is linear transmission from HPHT transmitter station, there will be no buffer compare live streaming broadcast.

6. What is the infrastructure for 5G Broadcast?
   Answer: We don't need to build the new infrastructure, 5G Broadcast system equipment will be integrated with the existing digital terrestrial television transmitters.

7. 5G Broadcast is linear multimedia broadcasting, how about the interactivity?
   Answer: The interactivity features for 5G Broadcast applications will be through mobile network for the return channel.

Virtual Learning

1. What is Virtual Learning?
   Answer: Virtual Learning is the merging of real and virtual worlds to produce new environments and visualizations where physical and digital objects co-exist and interact in real time.

2. What is the difference between virtual reality and augmented reality?
   Answer: Rather than displaying simple images like Augmented Reality, Virtual Reality strives to put fully digital objects that are trackable and intractable in the user's environment. Users can actually view and manipulate things from different angles which is as complex as an anatomy model.

Real-Time Tracking and Surveillance

1. What is Real-Time Location System (RTLS)?
   Answer: An RTLS is any solution that can tell you where an asset, individual, vehicle or other object is located, in real time.

2. What technology does it use?
   Answer: There are different types of RTLS for different application:

   - **GPS**

   - **RFID**

   - **BLE (Low Energy Bluetooth)**

3. What is the benefit of RTLS?
   Answer: If offers real-time tracking and tracing of assets or individuals where any response to incidents can be immediately deployed.

4. What is **Real-Time Video Surveillance and Analytics** (RTVSA)?
   Answer: Is a solution that can detect, monitor and identify through multiple video camera technology.

5. Why use RTVSA?
   Answer: It offers better security surveillance and automation without the increase of warm bodies. Better security management with geo-fencing and digital gates.

6. Will RTVSA improve security?
   Answer: Yes. It improves security by analyzing collected video date through real-time and measures and develops faster response times to security risks and also incidents.