

# 5G NEWSLETTER

Monthly update about global developments in 5G technology (16 June-15 July 2021)

## National Governments' Announcements



### France

Plans to spend nearly €1.7 billion in 5G market by 2025 through a public-private partnership strategy



### Brazil

Expects to conduct its 5G spectrum auction in August 2021; the biggest radio frequency auction ever held by the country



### South Korea

Plans to award additional 28 GHz and sub-6 GHz spectrum in November 2021 to boost the use of 5G-related services across the country



### UK

Has launched a £30 million competition among telecom innovators to develop the next generation of 5G networks



### Malaysia

Has appointed Ericsson's unit Ericsson (Malaysia) Sdn Bhd to build the national 5G network at a total cost of RM11 billion

## Telcos' Futuristic Initiatives



Plans major Open RAN deployments in its home country, Malaysia, by the end of 2021



Has announced to deploy a brand-new 5G-ready network in Angola, with support from Nokia



Has announced to offer 5G solutions across the UK by 2028



Has announced to deploy high-band 5G in partnership with Ericsson in UAE

## Key News

### 14 JULY 2021: TRAVEL

#### AT&T partners with Boingo Wireless to deploy 5G+ network in major US airports

- AT&T is working in collaboration with Boingo Wireless, an operator of airport Wi-Fi and DAS networks in the US, to deploy AT&T 5G+ network in major airports across the country
- 5G+ is AT&T's fastest mobile network and would help accelerate the adoption of advanced business applications in the travel industry
- The 5G+ network would be first deployed at seven major airports in the US in 2021, and subsequently at 25 other airports, in total, by the end of 2022

### 13 JULY 2021: DEFENCE

#### US military initiates the deployment of 5G testing for AR and VR

- Samsung and GBL Systems Corporation have started to deploy 5G testbeds for US Army military bases to conduct experiments with emerging technologies such as Augmented Reality (AR) and Virtual Reality (VR)
- The testbeds are a part of Pentagon-led initiative worth \$600 million, which was launched by US Department of Defense (DoD) in October 2020
- The testbeds were pre-assembled in Samsung's Dallas facility in May and June and were first deployed in a Florida-based US Army lab. The field testing is expected to begin at two US Army training bases by early next year

### 08 JULY 2021: AUTOMOTIVE

#### Halo launches one of the first commercial driverless car services in the US

- US-based ride-hailing provider Halo launched driverless car services, based on T-Mobile 5G network in Las Vegas, US
- To avail the service, riders need to use Halo app to summon a Halo car, which arrives at pick-up location and takes the riders to their destination
- The service is expected to start by the end of the year, with initial availability in the urban parts of the Las Vegas Valley

### 01 JULY 2021: SATELLITE

#### OQ Technology launches its first commercial 5g IoT satellite into orbit

- OQ Technology, the world's first satellite 5G IoT operator, launched its first commercial 5G Internet-of-things (IoT) satellite Tiger-2 aboard the SpaceX Transporter-2 rideshare mission
- The satellite launch is a part of the company's goal to provide commercial IoT and machine-to-machine (M2M) services using 5G connectivity across the globe
- Tiger-2 is the first commercial satellite of the company, part of a planned constellation of more than 60 satellites that would offer 5G IoT services in remote and rural areas

### 29 JUNE 2021: ENERGY MANAGEMENT

#### Nokia to deploy network slicing solution to support 4G/5G private network at Schneider Electric plant

- Nokia, which had been selected along with Orange Telecom in 2020 by Schneider Electric to develop France's first industrial 5G network, announced that it is adding its slicing system to Orange network at Schneider Electric's plant in Le Vaudreuil, France
- Network slicing provided by Nokia would enable scalable private 4G/5G connectivity for industrial uses, as it supports existing LTE, 5G Standalone (5G SA) and 5G Non Standalone (5G NSA) devices
- The networking solution would allow Orange and Schneider Electric to operate an innovative indoor network in an industrial setting

### 29 JUNE 2021: TRANSPORT

#### Indosat Ooredoo deploys first SRv6 5G network in Southeast Asia

- Indosat Ooredoo, an Indonesian operator, has commercially deployed Segment Routing over IPv6 (SRv6) to support 5G-ready transport network in Indonesia
- IPv6 intelligent routing would provide a unified network architecture for integrating transport and data centre domains
- The Segment Routing IPv6 (SRv6) architecture, deployed by Indosat Ooredoo, has been powered by Cisco. The two companies have already held a long-term partnership to build advanced transport platform in West and Central Java

### 27 JUNE 2021: TRAVEL

#### China Mobile deploys 5G MIMO network at Chengdu Tianfu International Airport

- China Mobile deployed the 5G distributed Massive MIMO network service that supports wall-to-wall 5G Gigabit speed at Chengdu Tianfu International Airport, situated in the Sichuan province in China
- The network has been built using Huawei's digital indoor small cells, combined with 5G distributed Massive MIMO software functions
- The network would enable 5G-based smart travel experience for common passengers while supporting airlines to implement smart travel applications

### 18 JUNE 2021: INDUSTRIAL AUTOMATION

#### Exor International builds smart factory with on-premise 5G private network

- Exor International, an industrial PC and HMI (Human Machine Interfaces) manufacturer, has built a 5G-enabled end-to-end smart factory in Verona, Italy to support manufacturers
- Some parts of the factory would be opened for other companies so that they can explore the usage of Industry 4.0 digitalisation
- To build 5G private network in the factory, Exor has collaborated with Telecom Italia (Tim), the largest phone company in Italy, as well as JMA Wireless, a US-based mobile connectivity specialist. Further, it has also partnered with Intel, which would supply processors and software designed to provide industrial edge control and insight capabilities