

Korea's Policy and Regulatory Updates

> APEC TEL67 5 Aug. 2023

Digital innovation with private 5G: E-um project

Mobile

Project'

What is the E-um Project? Government initiative to advance private 5G ecosystem, allowing non-telecom operators to build and operate 5G networks using 4.7GHz and 28GHz — which are dedicated frequency bands for private 5G networks in Korea

- Launched the pilot '5G Communications Convergence (Jun.2022)
- Released the Guidance for establishing and operating Private 5G (Oct.2021)
- Announced the Plan for Frequency Allocation of Private 5G (Jun.2021)
- Announced the Action Plan for 5G⁺ Strategy (Jan.2021)

5G E-um Project: Newly Assigned Enterprises in July of 2023



LG Electronics

- Frequency bands: 4.7GHz
- Sector: R&D
- Testbed for robot, cloud, etc



Megazone Cloud

- Frequency bands: 4.7GHz
- Sector: Logistics
- Logistics services utilizing AI, Cloud, etc



The K-Network 2030 Strategy

The Ministry of Science and ICT announced 'the K-Network 2030 Strategy' to carry out policy tasks to achieve three goals: ① Facilitate development of 6G technology ② Foster Innovation of software-based networks ③ Strengthen network supply chains (Feb. 2023)

Ramp up innovation for the next generation network	Build more robust and safe network infrastructure	Create a robust and competitive ecosystem for the industry
 Advancing 6G R&D Global cooperation for 6G standardization Developing 6G Convergence Services Establishing pilot networks for low orbit satellite communication services(2027) 	 Network infrastructure enhancement for private networks, backbone networks, and submarine cables Reducing energy consumption of network equipment and contributing to carbon neutrality Improving safety and trust of networks 	 Strengthening the network software capacities of the companies Creating an enabling ecosystem for Open-Ran networks Fostering professionals of the next generation networks

<Strategies of the K-Network 2030>

Competitiveness Enhancement Strategy for Hyper-scale AI

The Ministry of Science and ICT announced '**Competitiveness Enhancement Strategy for hyperscale AI**' to accelerate digital transformation utilizing AI in April 2023

Strategy	Expand technical and industrial infrastructure for hyper-scale AI	Create an ecosystem for hyper-scale Al innovation	Establish institutional and cultural foundations for AI innovation
Policy measures	 (Data) Augment high-quality text data for the development of hyper-scale AIs (Technology) Develop deep-learning technologies and undertake R&D (Infrastructure) Develop HW-SW to enable hyper-scale AI to utilize high-performance and low-power K-cloud and expand support of computing resources for hyper-scale AI to SMEs and universities 	 (Super Al Flagship Project) Develop application services that innovate productivity, such as expert assistance and support, by applying hyper-scale AI to the top five professional fields in the private sector (Public and administrative innovation) Implement hyper-scale AI-related public initiatives such as streamlining internal work and complaint responses (Capacity Building) Nurture hyper-scale AI professional talent and Improve hyper-scale AI training and AI training program for citizens 	 (Social Issues) Improve regulations related to hyper-scale AI, discuss social issues such as education and security (Regulations) Prepare ethical principles for AI in education and guidelines for the use of hyper-scale AI in the public sector (Assessment for reliability) Evaluate risk factors and performance of hyper-scale AI services

Thank You