## 5G O-RAN: Uninterrupted Communications for Disaster Relief in Rural Areas

## The Integration of Portable 5G O-RAN Private Network with Resilient Digital Satellite Communications Solution

Difficulties may arise in disaster rescue due to communications disruptions. The high transmission and low latency of the 5G O-RAN, among other features, help maintain stable communications during disaster relief. This project integrates a mobile 5G base station with medium earth orbits to improve communications coverage and undertake missions such as communications, images monitoring, and disaster reporting of the disaster relief system.





## **Project Results**

**#First in the World** | The world's first digital resilience application integrating domestic 5G O-RAN with satellite communications for smart disaster prevention.

**#Recognized by Major International Vendors | The CEO of Intel** personally demonstrated Pegatron's O-RAN private network equipment and relevant 5G products at Intel Vison.



## There are signals ! **Rescue anyone, anywhere** • A mobile 5G private network the size of a suitcase makes it easy for disaster relief workers to carry around and enables **5G** stable and uninterrupted communications in remote disaster areas. • Integration with medium earth orbits can maintain uninterrupted communications of the disaster relief system even when the power is off in the disaster area, which enhances the efficiency of disaster relief. SH There are images ! Highly efficient disaster relief communications • High-definition 4K images and voice messages enable more accurate decision-making for disaster relief. • Simultaneous connection of several people makes remote, instant communications and instructions more efficient.

Domestic Trial Site Hsinchu city

International Export Site Japan, Indonesia

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