

# Connecting Europe Facility

## 5G Coverage along Eastern Balkans and Black Sea Corridors (RO-BG-UA-MD)



[waveo.eu](http://waveo.eu)



Project funded through the Connecting Europe Facility program of the European Commission, under the framework of 5G large scale pilots – 5G coverage along Transport Corridors, Grant Agreement 101241151.



# use cases

## Road Infrastructure Monitoring (WINGS)

Augmented CCAM (Connected, Cooperative & Automated Mobility)

Collecting data from various sources such as security cameras, drones, municipal vehicles, and weather information

AI and Deep Learning (DL) mechanisms to provide relevant information about the condition of public infrastructure assets

Real-time dashboard for monitoring the infrastructure's health

Involved facilities: BG and RO



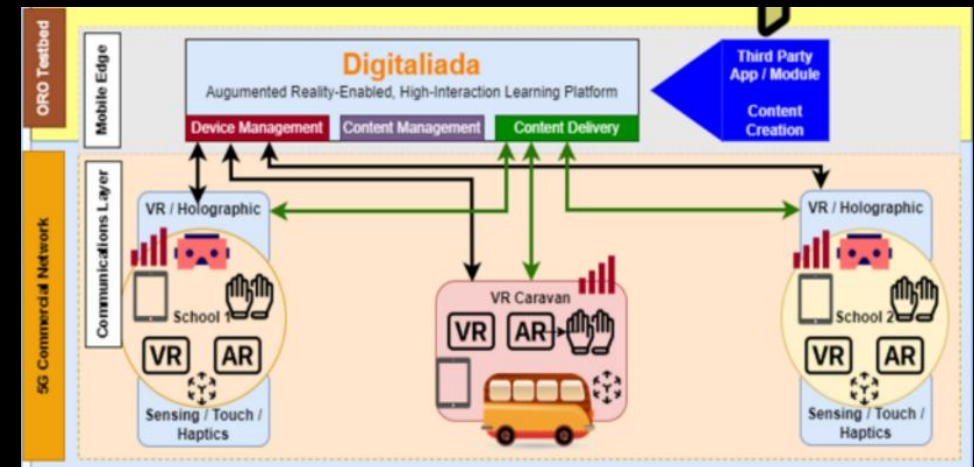
## XR Rural School (ORO Foundation)

Utilizing immersive VR/AR technology over 5G to create captivating educational content, such as virtual site tours or digital museums

Employing technology to simulate real-world scenarios for better understanding of complex subjects or practical skills development

Providing virtual access to extensive educational materials and labs that are typically unavailable in rural settings

Involved facilities: RO only (extending the scope of the 5G-CDD project)



## target KPIs

total length of transport corridors covered by 5G in Romania: 310 km

number of 5G radio sites in Romania: 114

total length of transport corridors covered by 5G in Bulgaria: 10 km

number of 5G radio sites in Bulgaria: 1

average inter-radio site distance: 3 km

spectrum bands enabled along the sections: 700 MHz, 2.1 GHz, 3.5 GHz

average uplink / downlink throughput: 20 Mbps

average latency E2E: 50 ms

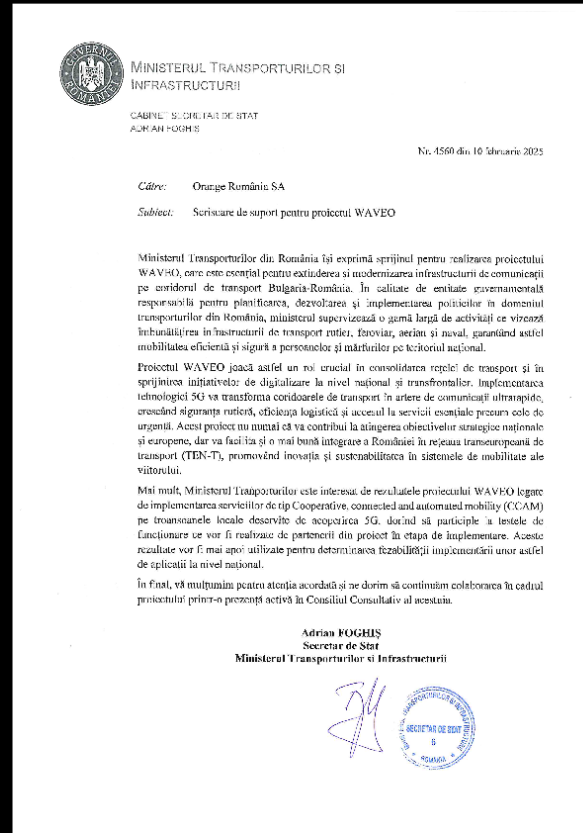
mobility interruption time: 5s

application-level handover success rate: 99%

# strategic partners

LoS from:

- **The Ministry of Transport, participate to the CCAM use case tests and be part of the future project Advisory Board**
- **Aumovio (Continental Automotive), exploit the results of the project to push the adoption of V2X technologies in future cars and be part of the future project Advisory Board**
- **Orange Moldova, be involved in the cross-border seamless connectivity scenarios that will be tested by Orange Romania**



**Thank you!**

