This project is co-financed by the European Union
and the Republic of Türkiye

ICTürkiye2025
10 April, İstanbul

PRESENTER FULL NAME: ULUÇ KARAKAŞ

ORGANIZATION: ULAK HABERLEŞME A.Ş.

WORKSHOP NAME: SMART MOBILITY

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About
ULAK Communications Inc.

ULAK Communications Inc. specializes in R&D, production, and services for mobile and broadband communication systems, sd-x, vertical applications and private networks.

R&D
Integration
Sales
Maintenance

Over 380 Personnel
Headquarters in Ankara
Two Branches in Ankara and İstanbul

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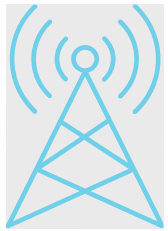
Our R&D Scope

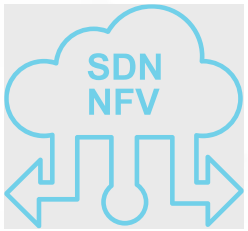
ULAK 4.5G / 5G
Base Station

ULAK 5G MAYA
SDN/NFV

ULAK 5G
Core Network

VERTICAL APPLICATIONS
V2X, Public Safety, Private Network





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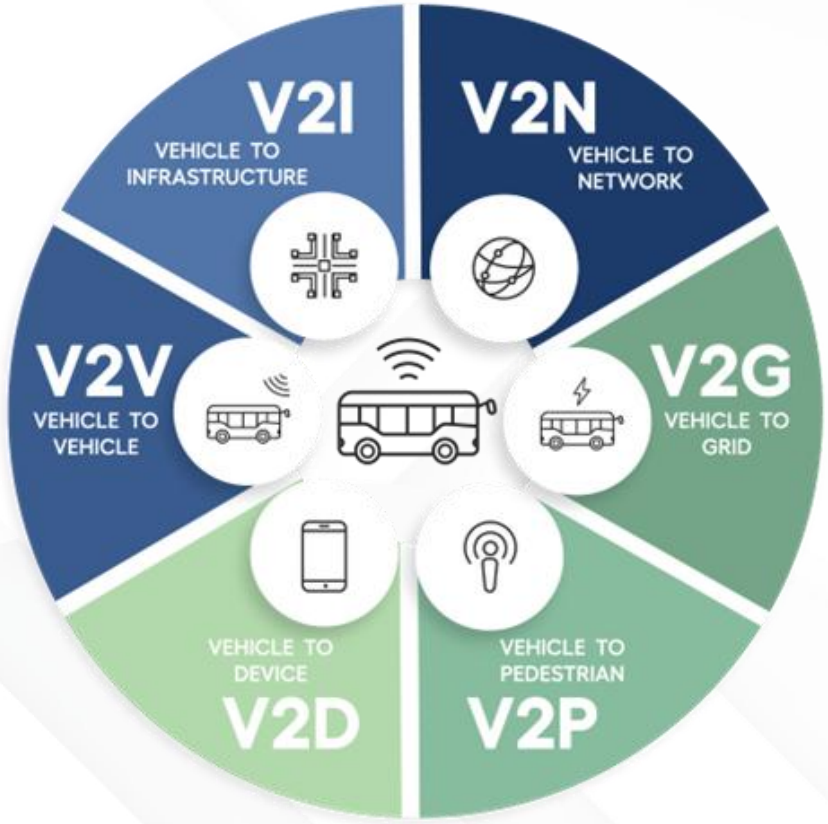
R&D Scope – V2X (Smart Mobility)



- ULAK is working on vehicle communication units based on 5G technologies to implement internationally defined scenarios, preparing them for field use.
- With domestically developed in-vehicle units, smart roadside units, and centralized management systems, ULAK offers safer transportation experiences via vehicle-to-everything (V2X) communication technologies. These systems provide early warnings about hazardous situations, ensuring driving safety.

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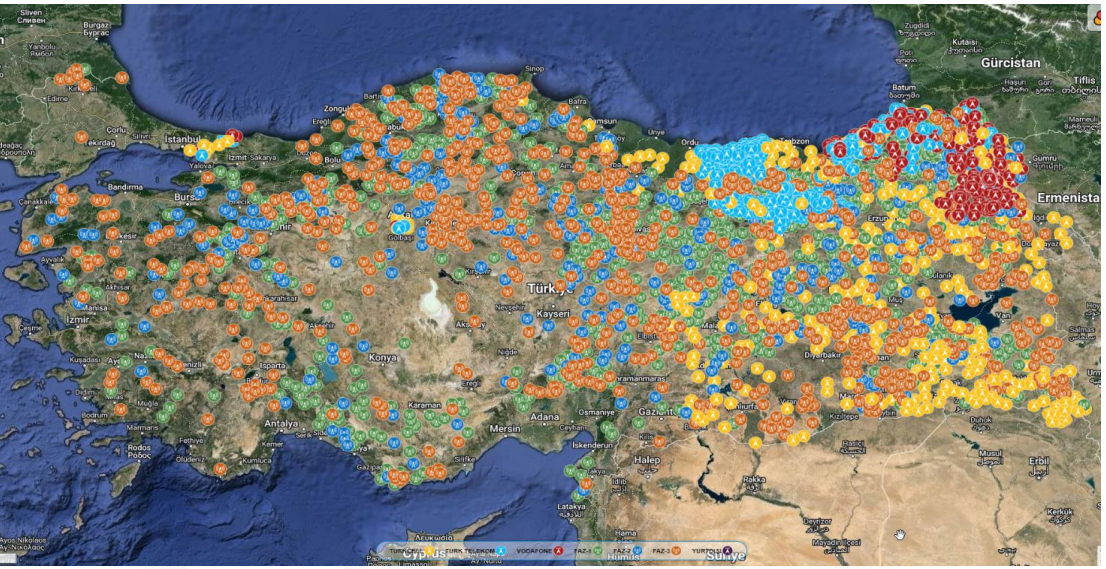
Projects/Sales



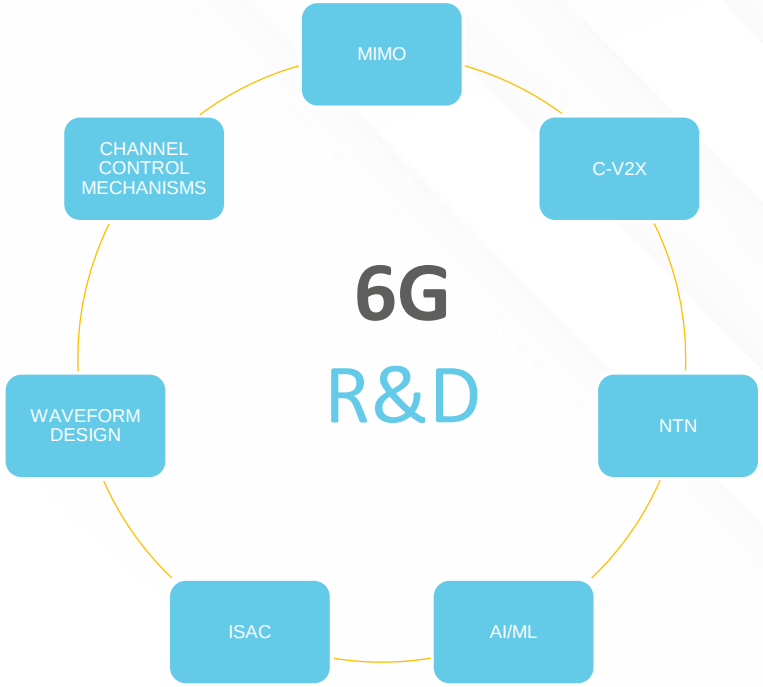
TÜRK TELEKOM TURKCELL VODAFONE EVRENSEL 1 EVRENSEL 2 EVRENSEL 3

4.5G/LTE
3127 ACTIVE SITES

SD-WAN

1207
ACTIVE SITES

TÜRK PATENT TÜRK PATENT VE MARKA KURUMU
UNITED STATES PATENT AND TRADEMARK OFFICE uspto



34
Patents in 6G

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Projects

EUROPEAN UNION #HorizonEU
HORIZON EUROPE

CELTIC-NEXT

ULAK's Role and Contributions in the Project: Supply Chain 5 – Smart City Pilots
Demonstrator 1 brings together **sea vessels, rental passenger cars and e-scooters together in an autonomous & tele-operated driving by using 5G connectivity.**

ULAK's Role and Contributions in the Project: Work Package 5
The objective of **WP5** is to develop and deploy validated solutions for key application areas, including **automotive, smart cities, and autonomous mobility.**
Contributing to Smart Logistics and Smart Construction Connectivity: 5G deployment and V2X Integration

Hi CONNECTS

IMMINENCE

ULAK's Role and Contributions in the Project
A **fault and performance management framework** for software-defined networks to enhance data center efficiency.
AI/ML-based methodologies to enable flexible and scalable mobile networks, particularly within the SDN/NFV architecture.
Execution of **demonstration activities**

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Projects to Join as a Partner

Under Cluster 5 Call Topics, ULAK Haberleşme would like to contribute to projects including:

Connected, Cooperative and Automated Mobility (CCAM)

Mobility Systems Through 5G Connectivity and V2X

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