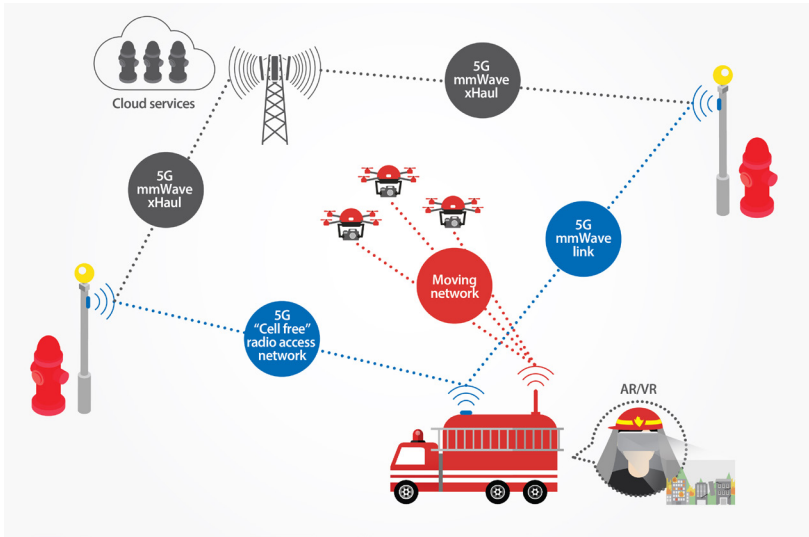


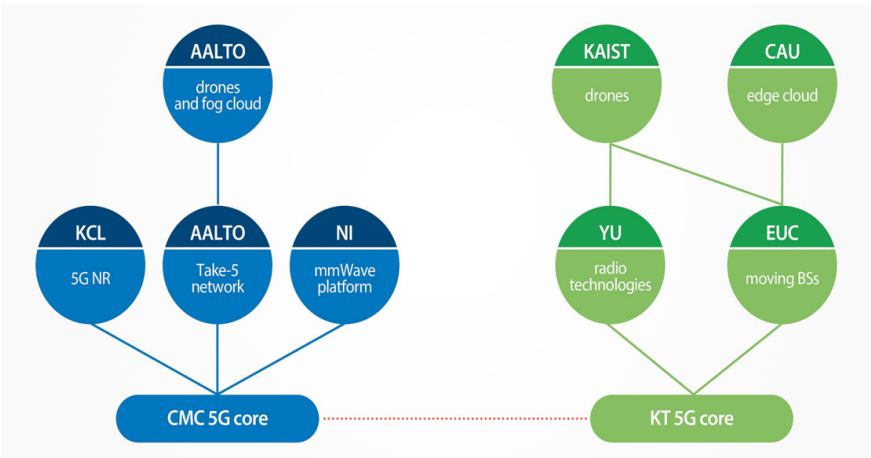
USE CASES



Firefighting use case: The main envisaged scenario in PriMO-5G is the firefighting scenario, which is one of the commonly occurring scenarios in Public Protection and Disaster Relief (PPDR). The firefighting scenario considered in PriMO-5G envisions the use of fire fighting vehicles with mmWave connectivity and a drone fleet controlled from the vehicles to enhance the efficiency and effectiveness of fire-fighting operations. In this use case, mobile rescue personnel can send a fleet of drones, and obtain real-time situation awareness of the fire scene though the use of drones bearing video cameras and sensors. This can be done before crew has to come in to the hazard scene. The drones will provide high-definition VR/AR video according to the control of a person in the fire engine.

TESTBEDS

The ambition of the PriMO-5G project is to interconnect the 5G testbeds in Europe and Korea so that the cross-continental testbeds can be established. Newly developed technologies will be tested in the testbeds. Finally, end-to-end operations of envisaged use cases will be demonstrated. Figure below shows the high-level concept of cross-continental testbeds the PriMO-5G project aims to build.



AALTO: Aalto University (Finland)
CAU: Chung-Ang University (Korea)
CMC: Cumucore (Finland)
EUC: EUCAST (Korea)
KAIST: Korea Advanced Institute of Science and Technology (Korea)
KCL: King's College London (UK)
KT: Korea Telecom (Korea)
NI: National Instruments (Germany)
YU: Yonsei University (Korea)



VIRTUAL PRESENCE IN MOVING
OBJECTS THROUGH 5G

PROJECT GOAL

To demonstrate an end-to-end 5G system providing immersive video services for moving objects. This will be done by cross-continental testbeds that integrate radio access and core networks developed by different PriMO-5G project partners.

OBJECTIVES

- **Objective 1:** To demonstrate an end-to-end 5G system providing immersive video services for moving objects
- **Objective 2:** To develop technologies of mmWave access, 5G core networks, and AI-assisted communications fulfilling requirements for Objective 1
- **Objective 3:** Input to 5G standardization and spectrum regulation activities

EUROPEAN PARTNERS



Aalto University
(Project Coordinator)



Cumucore



ERICSSON
Ericsson AB



King's College
London



KTH Royal Institute
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NATIONAL
INSTRUMENTS
National Instruments
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KOREAN PARTNERS



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