



5GINFIRE

EVOLVING FUTURE INTERNET RESEARCH AND EXPERIMENTATION INTO A 5G-ORIENTED EXPERIMENTAL PLAYGROUND FOR VERTICAL INDUSTRIES

5GINFIRE EXPERIMENTS

First five experiments using the 5GINFIRE testbeds and infrastructure have been completed and further 17 experiments are currently in implementation.

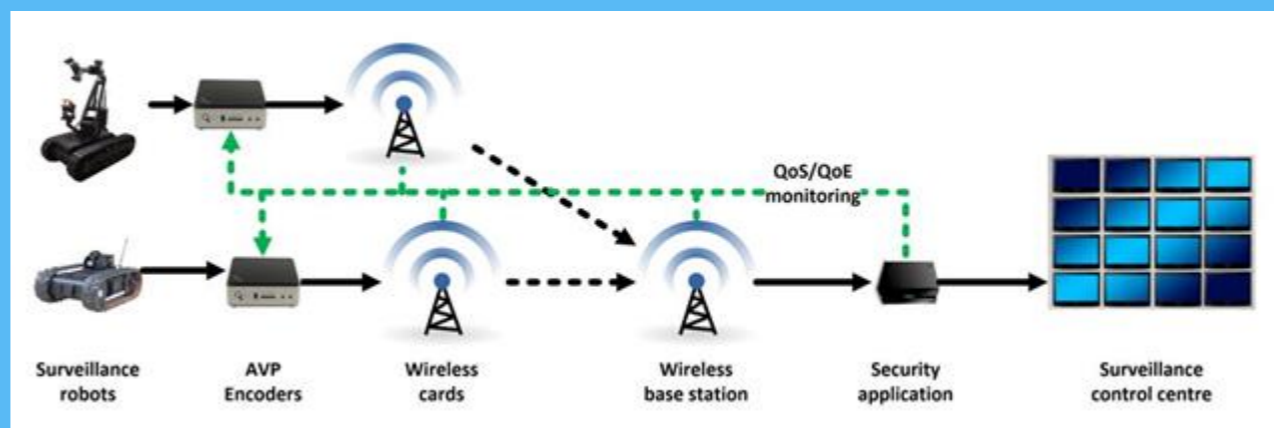
Vulnerable Road Users Safety using a hybrid Cloud RAN and Edge Computing model

Cloud/VNF-based outperforms the Road Side Unit (RSU)-based deployment in the majority of the scenarios and performs in a more stable manner.

VRU-SAFE experiment by University of Athens, Greece

5G Smart City Robotic Surveillance Platform

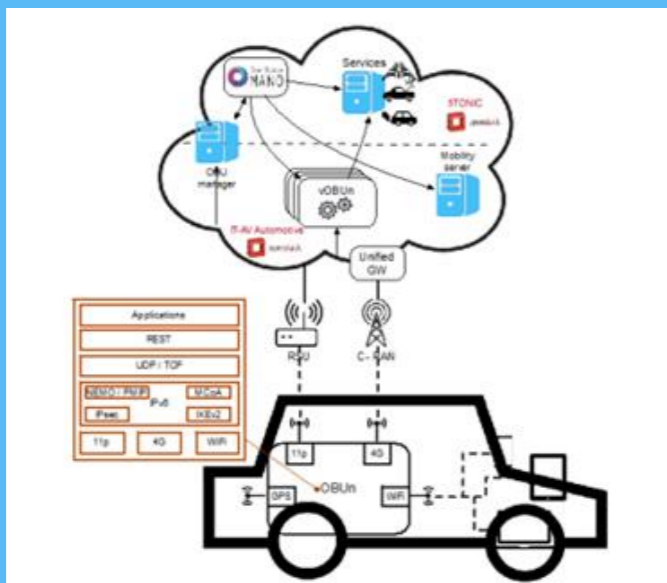
Having the media routing on an edge node allows avoiding unnecessary video transmission to the monitoring application and storing them at a different location.



RobotView5G experiment by Cybernetic Technologies NETICTECH S.A., Poland

Hybrid Communications to Foster 5G Vehicular Services

The results show that an improvement of several orders of magnitude (from 80 to 2 msec) can be achieved if it is not necessary to receive data from a physical OBU for a data that can be provided by a virtual OBU.



SURROGATES experiment by University of Murcia, Spain

Service Function Chaining orchestration application for low latency guarantees

Deviation between the estimated latency, computed on the abstract topology and the measured end-to-end latency along the established chain resulted in a reasonable average of 3.8%.

SFCLola experiment by CNIT, Italy

Context-Aware Video Controller for autonomous transport and security monitoring

Video QoE and network QoS has been measured to adjust video encoder in order to save transmission bandwidth or improve image fidelity depending on the current transmission environment.

CAVICO experiment by ITTI, Poland

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