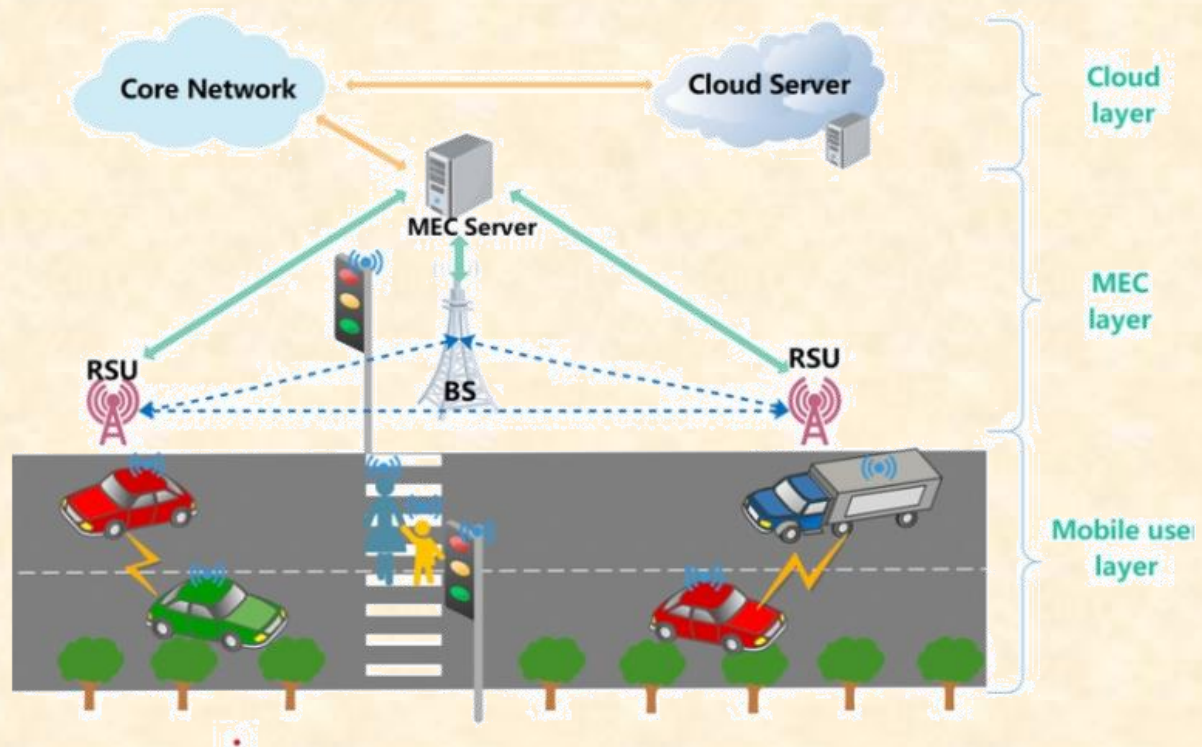


Artificial Intelligence-Empowered Edge of Vehicles

Cities could use cellular and mobile edge compute to deploy delivery bots and robotaxis instead of installing roadside units to power the network, according to new research from Verizon and Cisco. The two companies recently completed a proof-of-concept project in Las Vegas to test the idea.

Instead of deploying enough roadside units to build a vehicle-to-everything network, cities could use existing cellular networks, provided they have a public MEC infrastructure. Using existing cellular networks would speed up the rollout of autonomous vehicles, but some government agencies have concerns about the service limitations of that approach.



The Cisco and Verizon test proved that the combination of Verizon’s LTE network, public 5G Edge with AWS Wavelength and Cisco Catalyst IR1101 routers meet the latency thresholds required for autonomous driving applications, according to the companies.

The director of systems architecture at Verizon, said that the project shows the strength of mobile edge compute platforms for connected transportation innovation with much more streamlined architecture.

“This test is a huge milestone in proving that the future of connectivity for IoT applications can be powered by cellular,” also this is “huge for roadway operators in that it relieves them of the massive expense of deploying and operating a dedicated vehicle-to-everything environment.”

-Prof. Meena Perla