

5G Urban Drones

Objective: Development and testing of communication boards enabling direct drone-to-drone communication and the use of advanced positioning techniques from the network.

Description: Cellular communications for vehicles (C-V2X), initially defined in 4G and evolved in 5G, have been designed to allow vehicles to communicate with "everything" around them in order to improve road safety and traffic management. In the development of this standard for vehicular communications, the focus was always on road traffic management, whether in the city or on the road.

This pilot will show how these communications are equally useful in the use of drones. To fly in urban environments, it is essential to have very precise positioning. GPS signals are not accurate enough to fly in urban environments. Alternative positioning can be provided from the mobile network to improve safety and even improve GPS accuracy through GNSS corrector stations and the use of RTK algorithms.



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