Measurement of the V2I Channel in Cell-free Vehicular Networks with the Distributed MaMIMOSA Channel Sounder





1) Improved SNR Demonstrate the efficiency of distributing the AP antennas over the coverage area



2) Reduced Cyclic Prefix and latency Clear advantage in RMS Delay spread of the distributed configurations with respect to the AP-centric





3) Improved coverage FSPL-like propagation characteristics for LOS scenarios when AP located on street side

<u>Conclusion</u>

► First POC of a realistic real-time vehicularcentric network with 8 AP in a suburban scenario Demonstrated more uniform SNR, decreased RMS delay spread, guidelines for deploying the AP for future planning tools



High level of flexibility of the proposed framework using MaMIMOSA for the deployment of many different distributed configurations Higher number of additional AP and antennas for emulating denser cell-free networks with mobility

