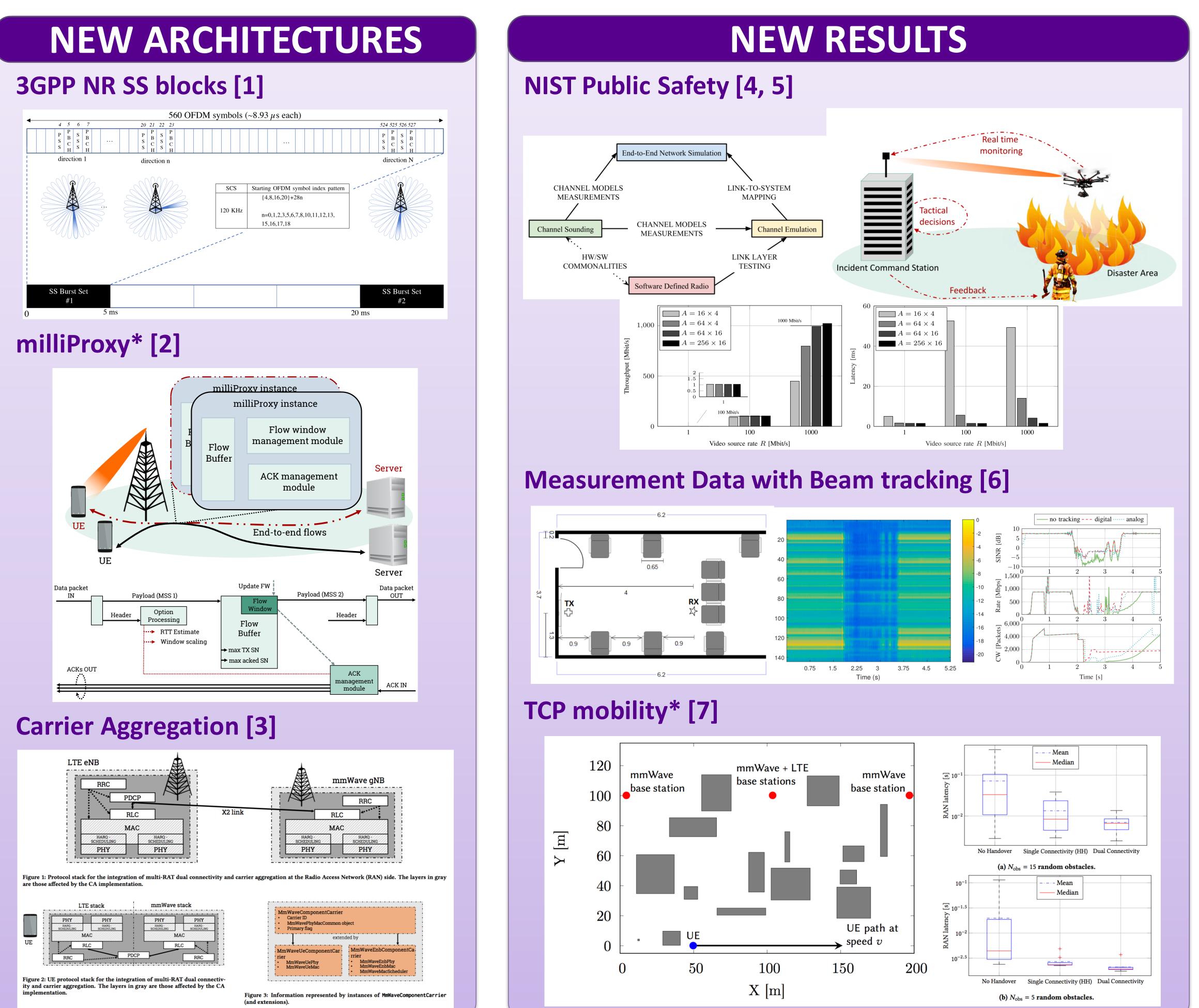


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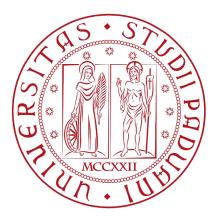


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ns-3 mmWave 5G Cellular Network Simulator

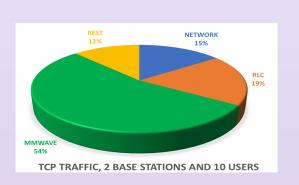


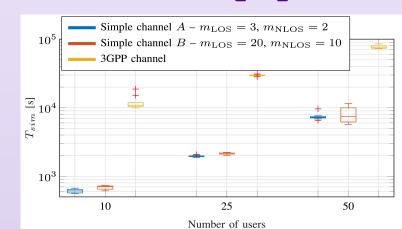


NEXT STEPS

Integration with the ns-3 App Store

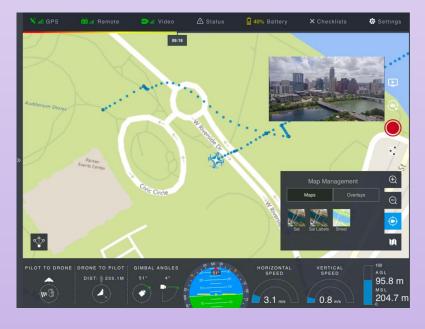
Channel model optimization [8]





Relaying*

Vehicular and drone communication



References

* Check out the "Integrated Access and Backhaul at mmWave Frequencies" and "Improving TCP performance on mmWave cellular networks" posters for more info! [1] C. Herranz et al., "End-to-end Performance of mmWave Directional Synchronization", submitted to ACM MSWiM 2018. [2] M. Polese et al., "milliProxy: a TCP Proxy Architecture for 5G mmWave Cellular Systems", Asilomar 2017. [3] T. Zugno et al., "Integration of Carrier Aggregation and Dual Connectivity for the ns-3 mmWave Module", WNS3 2018 [4] M. Mezzavilla et al., "Public Safety Communications above 6 GHz: Research and Opportunities", IEEE Access 2018. [5] M. Polese et al., "mmWave for Future Public Safety Communications", i-TENDER 2017. [6] C. Sleizak et al., "Understanding End-to-End Effects of Channel Dynamics in Millimeter Wave Cellular", IEEE SPAWC 2018. [7] M. Polese et al., "Mobility Management for TCP in mmWave Networks" Proceedings of the 1st ACM Workshop on Millimeter-Wave Networks and Sensing Systems 2017. ACM, 2017. [8] M. Polese, M. Zorzi, "Impact of Channel Models on the End-to-End Performance of mmWave Cellular Networks", IEEE SPAWC 2018