

**Ericsson**  
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Ericsson is seeking experimental license to expand the development of 3.5 GHz technology at our main campus in Plano, TX.

With this license, we will analyze a number of test cases, including:

- 1- Define path loss studies for foliage and building penetration impacts for Fixed Wireless Access deployment. This will include moving the UE to many points around the deployment site to see effects for vegetation, and to understand how this (and other environmental fades) will affect throughput. Testing over the course of several seasonal changes will allow us to better understand how a FWA solution can be improved and capacity defined for our customers.
- 2- Simultaneous deployment of multiple IoT devices. Deploying both broadband (FWA) and IoT devices for environmental monitoring and agricultural devices (robotics, crop monitoring, water monitoring) will help define limits for rural broadband needs.
- 3- Comparative studies with existing 5G systems – testing different capabilities against 5G (both at 15 GHz and 28 GHz) systems for capacity and connectivity.
- 4- Development of autonomous vehicle testing – using 3.5 GHz for autonomous vehicle interconnectivity.
- 5- Study of multipath impacts – with nearby physical buildings that allow multipath conditions.

We will use this license for our own internal analysis and to directly display to customers and visitors throughout the next year of initial requirements. Improved understanding of capabilities and limitation visually of 3.5 GHz will help ensure solutions are comparative with the selected wireless technology.