

Curiosity Lab at Peachtree Corners

Peachtree Corners, GA

SCENARIO

To move smart transportation technologies from concept to commercialization within communities, organizations need an environment where they can cost-effectively test and demo them.

SOLUTION

Curiosity Lab at Peachtree Corners is a city-owned and -operated living laboratory designed specifically as a proving ground for technology that has “graduated” from a closed laboratory environment. It consists of a 5G-enabled 1.5-mile autonomous vehicle test track and smart cities laboratory located within an existing 500-acre technology park where thousands of people and vehicles interact with the test track and smart city technology every day.

The lab’s mobile 5G wireless network may be used in concert with roadside units to support the testing of Vehicle to Everything (V2X) communications. Intelligent traffic cameras and traffic signals along with smart streetlights and data sensors provide video coverage and data collection that can be monitored from a central network operations center.

The lab also features a technology incubator that provides 25,000 square feet of innovation space for early-stage startups and corporate innovators. Strategic partner Sprint provides subject matter experts at no charge to organizations exploring 5G and emerging technologies.

RESULTS

Use of the living laboratory for testing and demonstration is free and comes with no expectation by the city that users must share proprietary information or intellectual property. Ownership, operation and regulation by a single contact—the city—eliminates red tape and expedites the speed with which a company can conduct testing or organize a demonstration.

Smart traffic management systems

For walkers, cyclists and drivers; across bus, light rail, train and ferry systems; and in parking lots and shared mobility services, intelligent traffic management systems turn data into access and convenience.

Sensors like low-energy beacon technology, such as iBeacons, and video cameras mounted on street lights and poles gather information. Apps, webcams and electronic displays deliver a real-time view. And wireless networks bring it all together.

Read on for examples across a range of transportation modes.