Dynamic Spectrum Sharing:

Fueling Innovation, Investment and Opportunity

SPECTRUM FOR THE FUTURE

Locally licensed, dynamic spectrum sharing drives technological innovation, stimulates competition in the wireless marketplace, and generates economic opportunities and investment across critical industries. Already widely deployed, dynamic, shared licensing has proven its worth as the best tool for opening new spectrum across the country.

Education

Shared spectrum helps school districts create free wireless internet options, bridging the digital divide for students who don't have an internet connection at home, while also equipping schools to harness cutting-edge digital tools in the classroom.

Manufacturing

Spectrum sharing has allowed manufacturers of critical goods – from steel to semiconductors – to improve safety, enhance onsite communications, boost productivity, and utilize new technologies like autonomous vehicles at large facilities where other technologies cannot deliver the same reliability, coverage, or control.

Health Care

Spectrum sharing improves network capacity across hospital campuses, aiding everything from remote patient monitoring to cross-department communication – keeping staff and patients connected and supporting critical medical devices.

Rural Connectivity

Spectrum sharing in the CBRS band has helped expand broadband access in rural communities in a cost-effective way. Thanks to the efficiency of these networks, they are particularly well-suited to remote areas where there are fewer towers.

Major Events

From the Super Bowl to the Ryder Cup, spectrum sharing is improving operations and fan experiences by syncing ticket scanners, concessions, communications devices, scoreboards, and more – driving innovation at some of the world's largest events.

Dynamic, locally licensed spectrum sharing is a successful, widely deployed technology that can achieve 5G deployment objectives, drive wireless innovation and competition, and bolster economic development.

Dynamic Spectrum Sharing Has Been Deployed Across the Country

The Port of Long Beach Uses Private Wireless to:

- Support automated guided vehicles moving cargo without a human driver
- Monitor inventory in real time using CBRS-enabled wireless sensor
- Track and route equipment, vehicles, and cargo to improve speeds and workplace safety

Purdue Research Foundation's "Discovery Park" is Building a CBRS-Powered Network to:

- Provide dedicated wireless connectivity to manufacturers, researchers, businesses, retailers, and residents across a 400-acre parcel of land on Purdue University's campus
- Experiment with next-generation smart city technologies, such as smart sensors and AI-based applications

Salt Lake City's Murray City School District is Implementing Private CBRS Networks to:

- Close the "homework gap" by providing internet to students at home
- Improve school safety with wireless cameras, sensors, alarms, emergency phones, and more
- Support the implementation of new technology in classrooms, such as AR/VR, smart boards, and video streaming

CBRS Deployment By The Numbers:

Over
400,000
CBRS base station devices deployed

98%
Of U.S. states, D.C., and islands with at least one active CBRS base station

278
CBRS base station models certified by FCC

841
Different end-user devices certified by FCC