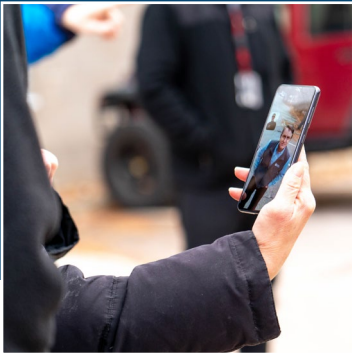# The Boulder FirstNet Lab

In disasters and emergencies, first responders need communication tools that are tested and proven to work — consistently, securely, and reliably. That's where the Boulder FirstNet Lab comes in.

Innovation for public safety's network

The Boulder FirstNet Lab is a state-of-the-art laboratory in which the FirstNet Authority tests public safety functionality and features unique to the FirstNet network. These include current and future quality of service; priority and preemption; mission critical services and applications; and future public safety functions. The Lab is located at the technical office of the FirstNet Authority in Boulder, Colorado.

The Boulder FirstNet Lab is built with Telecommunications Industry Association standards in mind. It is a federal facility where the FirstNet Authority has the equipment needed to complete its own network validation and testing. The Boulder FirstNet Lab connects to the FirstNet network, including Band 14 and other AT&T bands.

State-of-the-art testing

Testing functionality and features for public safety in the lab allows FirstNet Authority engineers to evaluate that responders receive the prioritized user experience expected and as designed for them on the network.

For example, using specialized load test tools in the lab, engineers can simulate congestion on the network to show how priority and preemption work for first responders on FirstNet.

Experts in the Lab also look at new and emerging technologies to understand how they operate on the FirstNet network, such as:

Want to learn more?
Visit **FirstNet.gov/Lab**.

- Compact Rapid Deployables (CRDs) and miniCRDs
- Land mobile radio to LTE integration
- In-building solutions like the Cell Booster Pro
- High-power user equipment

Engineers in the lab help ensure the tools, features, and functions that first responders need work as expected on current and evolving generations of broadband.

See the lab for yourself

FirstNet Authority staff provide in-person and virtual demonstrations to interested public safety agencies and officials. Lab tours are open to any public safety agency or first responder, whether they're a FirstNet user, considering using FirstNet, or just want to learn about public safety broadband technology. If you would like to set up a tour, visit **FirstNet.gov/Lab**.