Why NASCTN? Why now?

- **Increased demand for rapid innovative solutions**
- **Increasingly complex spectrum environment**
- **Tight time constraints**
- **Need for new technologies**
- **Increased dependence on M&S**
- **Need for trusted spectrum sharing solutions**

Path to Trust-based Sharing

- **NASCTN offers access to critical test resources and experts**
- **NASCTN bridges US resources to get the right national answer**
- **NASCTN provides the scientific basis for informed spectrum regulatory…**

…and effective business decisions

> *"Through NASCTN we enable the best of our engineering capacity to work together …"*
> *Mr. Terry Halvorsen, DoD/CIO*

Department of Defense

NASCTN: Spectrum Sharing through Collaboration

Ranges — Actual Systems — Anechoic Chambers — Information — Test Analysis — M&S — Experts

National Advanced Spectrum and Communication Test Network

NASCTN

Mission: Increase Federal and commercial spectrum access by accelerating the development & deployment of spectrum sharing technologies

Construct: The 'One-Stop-Shop' for coordinating and integrating government, academic, and commercial capabilities to facilitate trusted testing of spectrum sharing technologies

325 Broadway
Boulder, Colorado 80403

More Questions?

Making spectrum access available while maintaining operational effectiveness is a complex situation that must address many difficult technical issues.

The DoD NASCTN Team is available to support your efforts. They can identify NASCTN access requirements for test and research. Feel free to engage NASCTN in your spectrum sharing concerns.

Contacts

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DoD NASCTN Team
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◊ TRMC Lead: Mr. Mark Lofquist, MITRE, 303-497-3947

NASCTN Benefits

- Arranging spectrum sharing tests with actual Federal systems
- Establishing long term engagements
- Influencing current and future spectrum plans
- Sharing of resources and experts
- Expanding shared spectrum knowledge, science, and innovation
- Providing fast and efficient means to engage a wide range of capabilities
- Assisting in shared spectrum issues
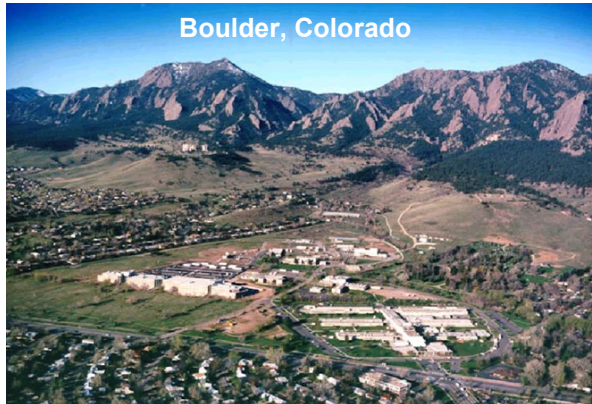
Future DoD Spectrum Environment

NASCTN Provides Access

- Vast array of Federal capabilities and experts
  - ⇒ 23 Test Ranges
  - ⇒ 3 Service Laboratories plus DARPA
  - ⇒ Department of Commerce Center for Advanced Communications
  - ⇒ National Broadband Interoperability Test Facility
  - ⇒ Collaboration with University Affiliated Research Centers (UARC)
- Engagement of Industry through Cooperative Research and Development Agreements (CRADA)

DOC Boulder Labs

Boulder, Colorado

NASCTN Advantages

- Trust
  - ⇒ Provides an open, transparent test and research environment
  - ⇒ Provides scientifically-based spectrum tests and decisions
  - ⇒ Provides results accepted by federal agencies and industry
- Collaboration
  - ⇒ Blends unique skills of available resources
  - ⇒ Works with innovators in spectrum sharing across the US
  - ⇒ Offers streamlined process for coordinating all resources
  - ⇒ Reduces time, improves choices of resources
  - ⇒ Engages the right people at the right time
- Protection
  - ⇒ Protects intellectual property
  - ⇒ Protects classified, proprietary and controlled information

Spectrum Sharing:

Built-in not Bolted-on