



NEXTT

The Vision

The **Nebraska Experimental Testbed of Advanced Things (NEXTT)** is a large-scale Internet of All Things (IoAT) network testing platform that enables partners from the public and private sectors across the U.S. to accelerate research on wireless communication and networking technologies. NEXTT supports three unique next-generation IoAT applications in urban and rural areas:



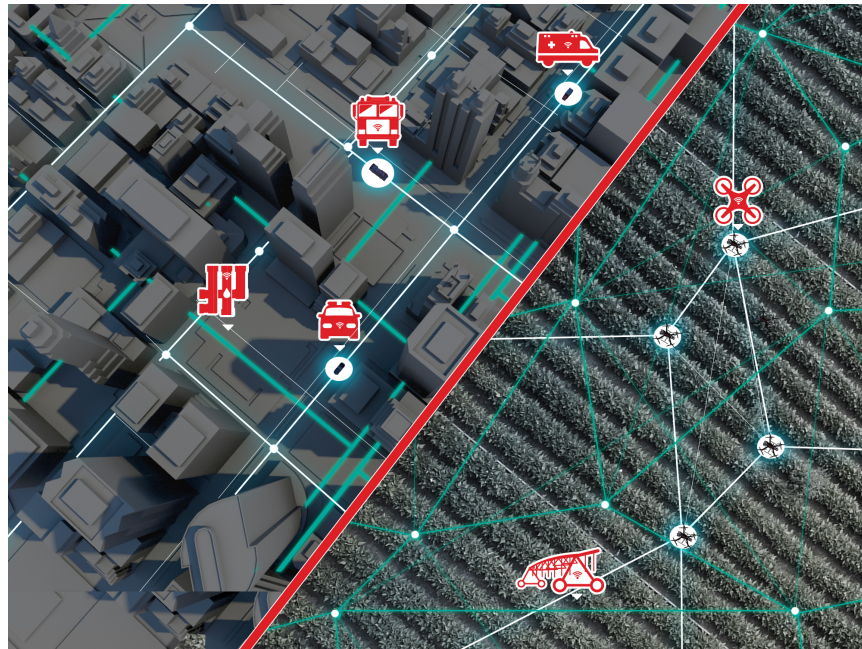
Real-time police vehicle camera video streaming.



Urban underground infrastructure monitoring.



Real-time soil monitoring and irrigation automation.



The Opportunity

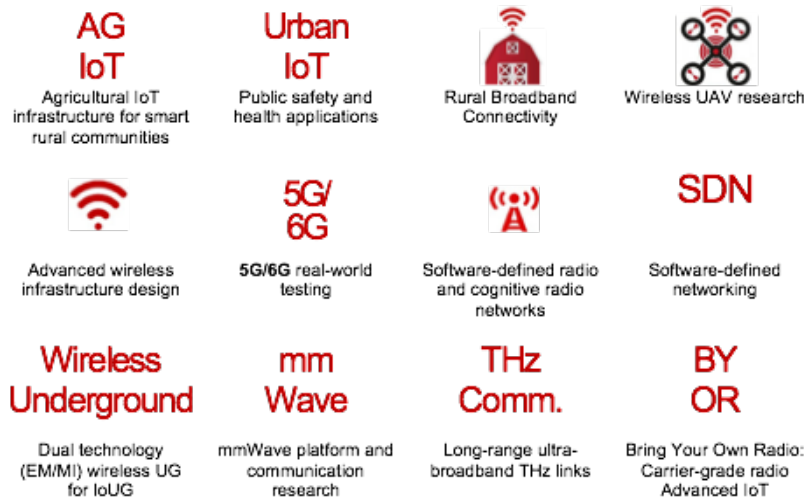
The University of Nebraska-Lincoln and the City of Lincoln are partnering with Georgia Tech, The Ohio State University, and the University of Buffalo to lead a \$24M proposal to establish NEXTT as a Platform for Advanced Wireless Research (PAWR). If selected, NEXTT will complement and extend the capabilities of existing research platforms in New York and Utah.

The PAWR Project Office, led by US Ignite Inc. and Northeastern University, is managing this \$100M public-private partnership to stand-up diverse testing platforms in select communities across the U.S. **Nebraska is ideally positioned to be one of these communities.**



Partner Capabilities

NEXTT partners from the private and public sectors will use this advanced network architecture to enable IoT applications with distinct operational requirements:



Benefits of Partnership

Partners will have access to:

- Advanced IoAT applications in public safety, urban infrastructure monitoring, and food safety.
- Hybrid wireless front-end architecture that supports **over the air and underground**; sub-GHz, GHz, mmWave, and THz communications.
- 100+ NEXTT community partners from industry, academia, and the public sector.
- 400+ miles of public/private broadband infrastructure.
- 20+ small cell locations in urban and rural areas.
- Advanced NG-RAN and SDN architectures.
- Advanced **THz** X-haul links.
- **Mobile mmWave radio** platforms.
- Ability to perform advanced wireless research from **anywhere in the U.S.** via Internet 2.
- Streamlined permitting process.
- Flexible **city and agricultural IoT** devices/applications.
- National Science Foundation-supported intellectual property protocols.

Please contact us to learn more about **NEXTT**:

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