

**FIVE**

LITTLE-KNOWN OR COMMONLY MISUNDERSTOOD

**THINGS ABOUT**

***OneNet***<sup>®</sup>

***netpotential2011***

Or: How I learned to stop worrying  
and love public telecommunications  
infrastructure



ITEM 1: The core of OneNet's uniqueness as an ISP for Oklahoma. This is the traffic on commercial ISPs. Homes, businesses and organizations all file onto the same network pipes. But not all data traffic is alike - some of it serves (what we like to consider) "higher" purposes. Things like education, government, healthcare and research, with clear benefits to the public at large. Is it possible to designate special network access for entities like these?



Photo: Atwater Village Newbie (Flickr)

One option: to set aside a lane for specialized traffic. But the roadway is the same - same speed limit, surface, etc., and entering/exiting can get complicated - not really that special.

What would REALLY be special is an entire network of its own, distinct from commercial pipes...





That's what OneNet is.

- Imagine driving on an expressway that allows only your vehicle and others that serve that “greater good” I mentioned.
- OneNet is essentially Oklahoma’s backbone network, and we provide you a direct connection for seamless interaction with your peer organizations.

Photo: James Gaither (Flickr)



Example:

OneNet integrates seamlessly with state government branches, agencies, initiatives.

- Sharing records
- Complying with state reporting mandates
- Streaming media
- Standardized testing (K-12)

On a commercial ISP you risk potential data loss, uneven performance and firewall obstructions.



OU, OSU, and the entire public higher ed system for the state – not just the campuses that you think of first, but also all their divisions. Health science centers; rural medical outreach; supercomputing centers; research centers in medicine (OMRF), biotech, meteorology – these are giant institutions. Interact all over the world. They could use any ISP they desired. While we would love it for them to rely on OneNet just to be nice to us, that isn't the reason. Direct connection with STATEWIDE backbone, for one, but also...



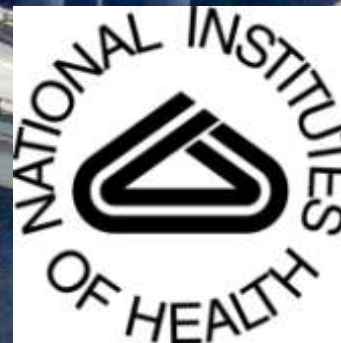
National LambdaRail & Internet2 (especially powerful for interactions beyond Oklahoma)

We're Oklahoma's only portal to these. Merged with Int2 in early '00s and NLR in 2005.

- National (actually worldwide) backbone networks designed for the high capacity data transfer requirements of academic research -- applications like modeling and simulation technology, data mining, medical imaging, particle physics, and real-time collaboration with colleagues on all of these projects and more.
- NLR & Internet2 provide commodity services and a connectivity boost to ALL users. And if you're a OneNet customer, your organization is among them. . . . You have some powerful friends . . .



Powerful friends on OneNet





- ITEM 2: our existence directly results in millions of dollars saved annually in public money (vs. total reliance on commercial providers)
- HOW? Through smart stewardship of public funding, maximizing the value of every dollar spent.
- Highest possible quality connectivity (as previously mentioned)
  - User-supported through subscription fees; no direct state appropriations
  - Economies of scale (savings are passed to subscribers, not to line our pockets – trust me)
  - Academic discounts
  - Contract negotiations with technology manufacturers
  - Efficient management (leave the network engineering to us, so you can focus your IT activities on projects specific to your org's mission)



ITEM 3: Added-value services bundled with your circuit

- Host your website (no limits)
- Host your email (no limits)
- Bridging for your videoconferences
- Manage your router remotely

For details, see presentations by Brian Burkhart and Roger Holder.

ITEM 4: The only ISP in Oklahoma that can legitimately claim statewide reach

**Over 1,500 circuits**

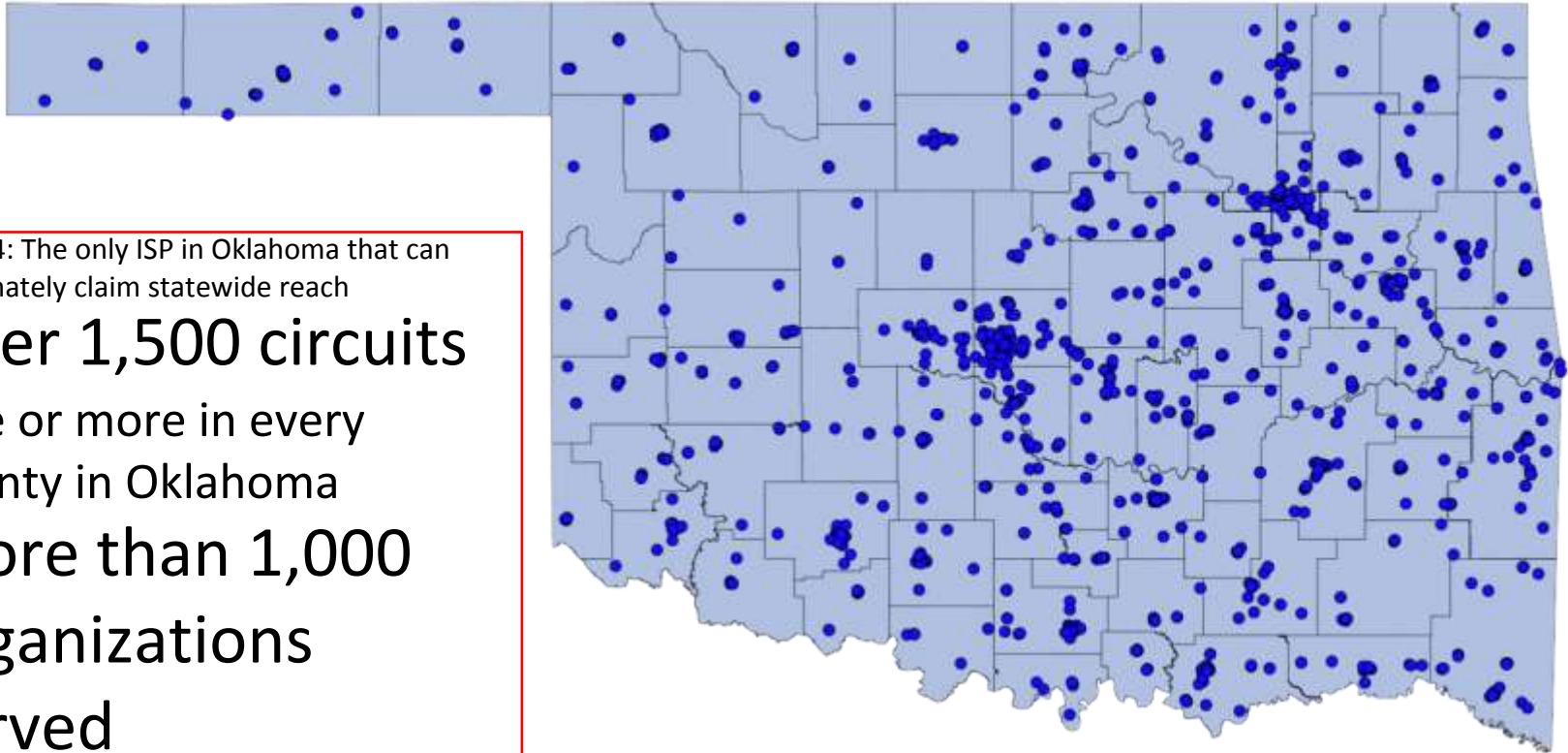
One or more in every county in Oklahoma

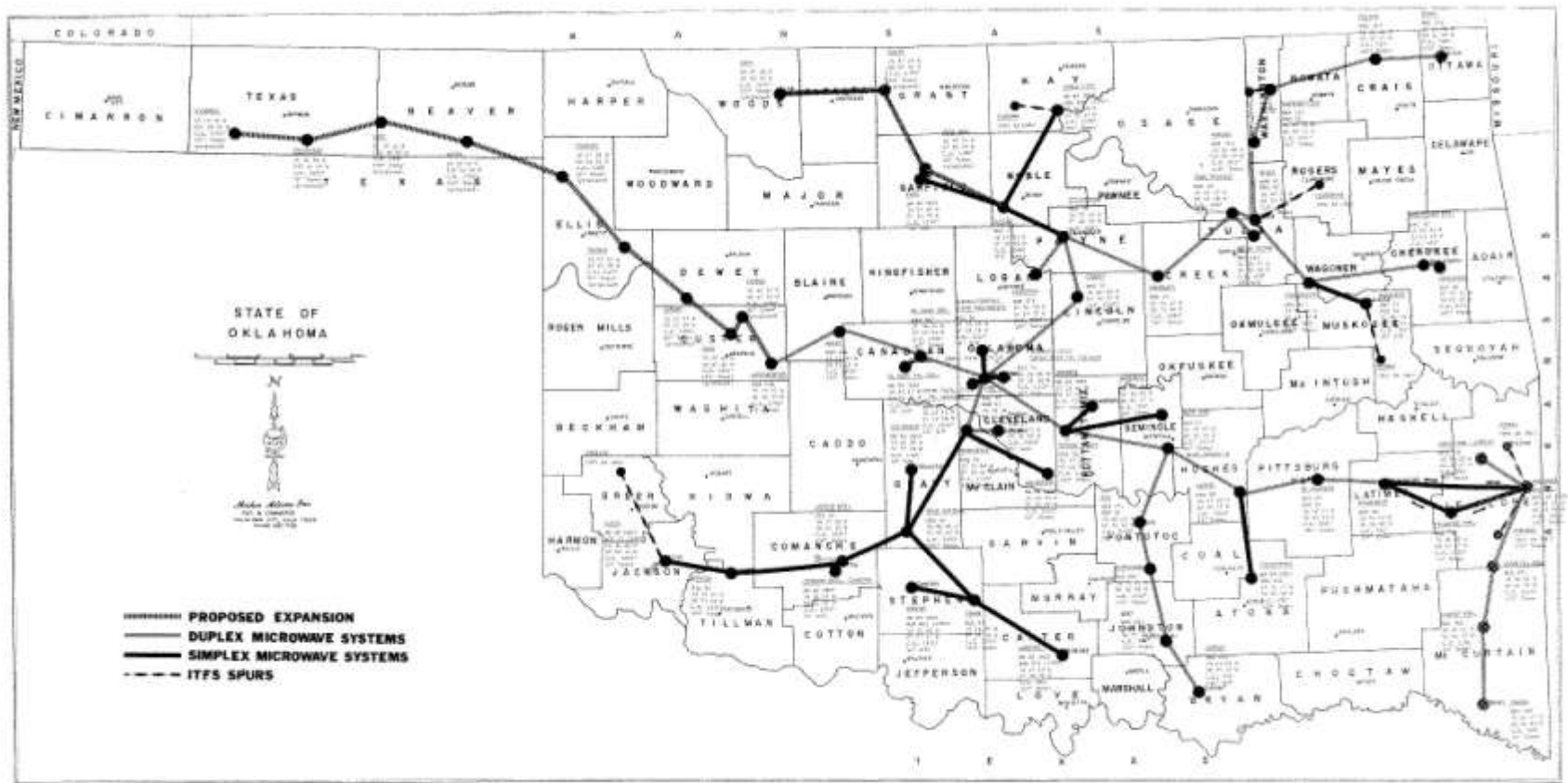
**More than 1,000**

**organizations**

**served**

Made possible through a public-private partnership.





**OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION**

**TELEVISED INSTRUCTION SYSTEM**

ITEM 5: Origins go back to 1971, when State Regents established a closed-circuit TV network for distance learning among Oklahoma's colleges and universities.

"Talk-back television."

Map of the tower locations, dating from 1981.