









BROADBAND AND THE FARM

2015 BROADBAND COMMUNITIES SUMMIT

APRIL 15, 2015







CESS

ADOPTION

usi

Why We Should Care If Broadband Is Available To Farms and Rural America?

The RTC Broadband and the Farm panel will provide:

- * Texas and lowa's perspectives on its importance to the state economy,
- * A commercial perspective of broadband needs on the farm, and
- ❖ A discussion on how fiber and wireless networks are essential infrastructure to rural America.

Moderator: Keith Montgomery – RTC Vice President & CFO Declaration Networks **Panel:**

Dan Hunter – Assistant Commissioner, Texas Department of Agriculture
 Phillip Brown – Director Gov. Policy & Broadband Planning, Connected Nation
 Mark Lewellen – Manager Spectrum Advocacy, John Deere & Company

Texas Department of Agriculture



Connecting Texas

Dan Hunter, Assistant Commissioner



Texas Agriculture Matters!

- Agriculture is the 2nd largest economy in Texas
- Leads the nation in multiple production areas
- Connectivity is critical for the 3P's:
 - Production
 - Performance
 - Profitability

Keeping Texas Informed Through

Marketing

Health Care



Help





TexasAgriculture.gov

"TEXAS AGRICULTURE "Matters!"

-Commissioner Sid Miller



FRAMING THE CHALLENGE







- Huge rural divide in access at national benchmark speed, and
 - Rural broadband adoption six percentage points lower than state average
- Return on investment is a persistent barrier to connecting every acre
 - Public-private partnership with leveraged federal resources is critical
 - Federal resources include differing speed thresholds
 - Key question surrounding platform
- Business broadband adoption rate in Iowa = 81%
 - Agriculture, Mining, Construction & Utility Sector adoption = 84%
- Telework has grown nine percentage points since 2010
 - Opportunity exists
- Transfer of Wealth \$15.4 trillion in next 20 years



All Rights Reserved. @Copyright 2014, Connected Nation, Washington, D.C. 20010.

UNSERVED BY 10 MBPS/1.5 MBPS

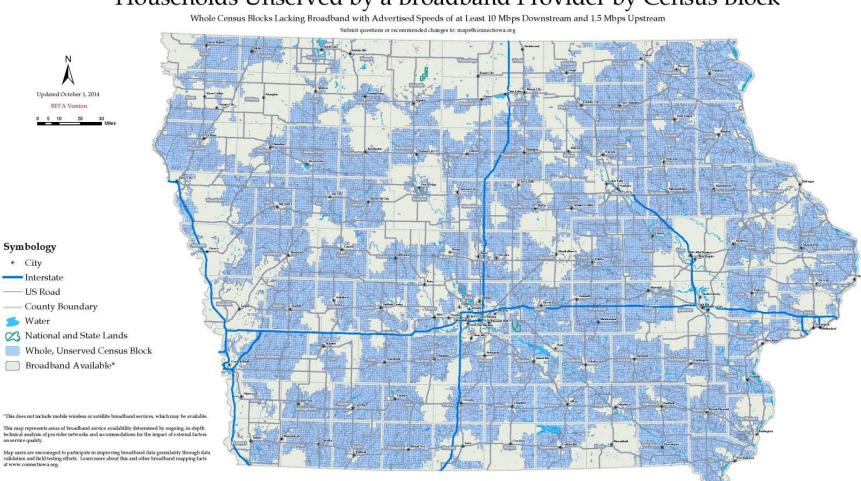








Households Unserved by a Broadband Provider by Census Block





73.43% OF HOUSEHOLDS SERVED BY 25 MBPS/3 MBPS (ONLY 8.79% OF STATE AREA)



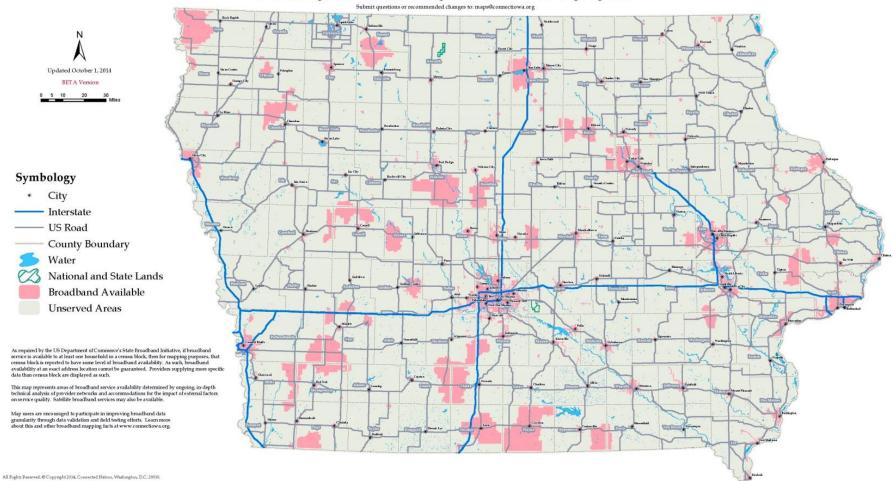






Broadband Service Inventory for the State of Iowa

Advertised Speeds of at Least 25 Mbps Downstream and 3 Mbps Upstream



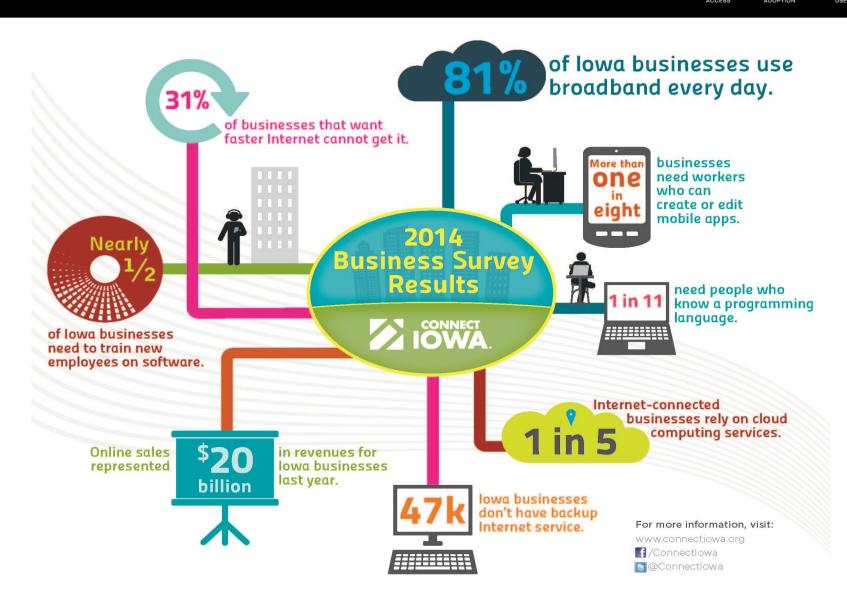


BUSINESS BROADAND USE AND NEED











Rural Telecom Congress (RTC)

Mark N. Lewellen

Manager of Spectrum Advocacy



JDLink™ Enabled Machines











Mobile Telematic Gateway (MTG)





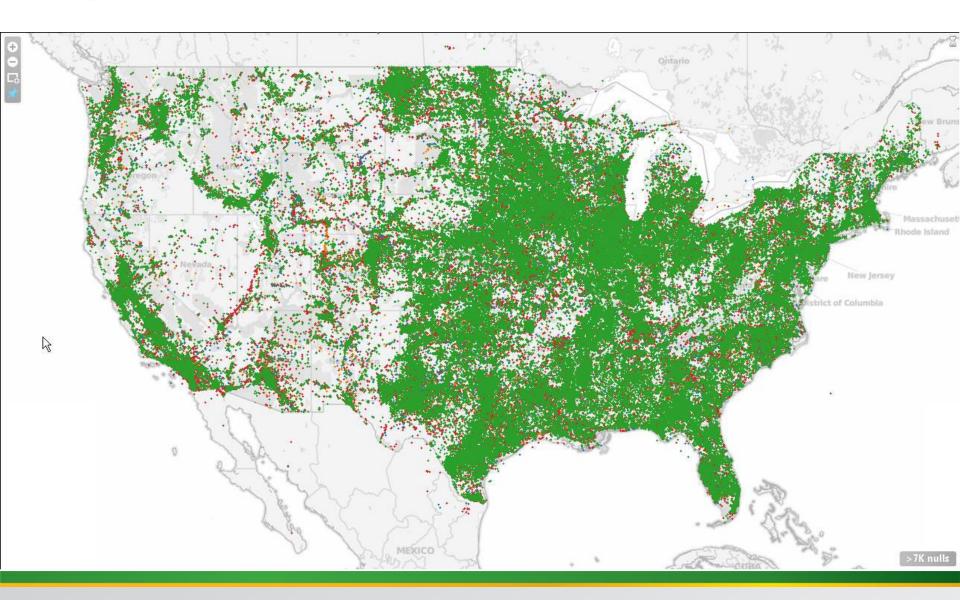














Connecting the Nation's Cropland

- If you want to reduce costs and increase yields in cropland, then it needs mobile broadband coverage
- More mobile broadband coverage requires more cell towers
- We are doing several things to address that challenge:
 - Pointing out the need to cover modems not just people in the "Internet of Things"
 - Advocating for cropland at both State and Federal level
- If you produce on cropland, it needs mobile broadband



Broadband is what Iowa needs to keep growing

