# Kansas Statewide Broadband Initiative

## **Interim Committee Hearing**

Wednesday, November 14, 2012

The Kansas Department of Commerce, Kansas Statewide Broadband Initiative and
Data Access & Support Center, Kansas Geological Survey
Stanley Adams





## Data Access & Support Center (DASC) Overview

Kansas Statewide Broadband Initiative

- Established by the GIS Policy Board in 1991
- · Central repository of GIS databases of statewide/regional importance
- · State and local government coordination
- · GIS database development and integration
- · Located at the Kansas Geological Survey at the University of Kansas
- Development and maintenance of the Kansas GIS portal
- Web site http://www.kansasgis.org

Special Comm	nittee on Rural Broadband
Date: 1	1-14-2012
Attachment_	10

#### NTIA State Broadband Initiative - Outline

Kansas Statewide Broadband Initiative

- Overview of National Telecommunications and Information Administration data submission requirements
- · What information is collected from the broadband provider industry?
- · How is the information collected, assembled, and submitted to NTIA?
- What information is released to the public? What information is not released to the public?
- · Provider web tools & public web map
- · Suitable uses of the broadband map





#### **Broadband Service Provider Data Collection**

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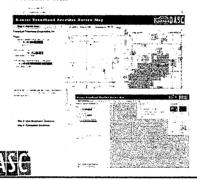
- DASC Partnered with KDOC in January, 2012 to support KSBI in the NTIA Broadband Data Collection and Mapping project
- April 1, 2012 and October 1, 2012 data collection and outreach cycles are complete
- NTIA site visit in May 2012 mapping effort given very positive review
- · Semi-annual data collection timeline:
  - Spring
    - o Data collection begins January 1
      - data current to December 31
    - o State map delivered to NTIA April 1
    - o National Map released mid-July
  - Fall
    - o Data collection begins July 1
      - data current to June 30
    - o State map delivered to NTIA October 1
    - o National Map released mid-January



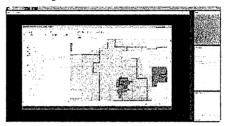
### Kansas Broadband Provider Outreach

Kansas Statewide Broadband Initiative

- · Kansas Broadband providers are participating in this voluntary data collection effort
- · The KSBI team provides multiple opportunities to engage:
  - Data collection webinars
  - · Provider roundtable discussions
  - Provider web portal
  - Interactive data review web meetings with individual service providers



Web Meeting



Kansas

## **Overview of NTIA Requirements**

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### **Data Collected**

- · Wireline service area (Cable, DSL, and FTTH)
  - o NOT current customer service area
  - o Can provide service in 7-10 business days "without extraordinary commitment of resources"
- · Wireless service area (fixed, mobile, and satellite)
- · Community Anchor Institutions
  - o Schools
  - o Libraries
  - o Hospitals
  - o Etc
- · Middle- and Last-mile infrastructure (optional)

## **Overview of NTIA Requirements**

Kansas Statewide Broadband Initiative

### Which data are publicly-available?

- · Wireline service area
- · Wireless service area
- · Community Anchor Institutions

## Which data are NOT publicly-available?

- · Middle- and Last-mile infrastructure
- Raw data products submitted to DASC by Kansas Broadband Providers that are covered by Non-Disclosure Agreements





### **Overview of NTIA Requirements**

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### Wireline Attributes

- · Provider and DBA name
- FCC Registration Number (FRN)
- · Transmission technology
  - o Asymmetric DSL
  - o Symmetric DSL
  - o Other Copper Wireline
  - o Cable Modem DOCSIS 3.0
  - o Cable Modem Other
  - o Optical Carrier/Fiber to the End User (Fiber To The Home)
- Max advertised download/upload speeds
- · Typical download/upload speeds



## **Overview of NTIA Requirements**

Kansas Statewide Broadband Initiative

#### Speed Tiers per NTIA Database Standard:

- 1. Less than or equal to 200 Kbps.
- 2. Greater than 200 Kbps and less than 768 Kbps.
- 3. Greater than or equal to 768 Kbps and less than 1.5 Mbps.\*
- 4. Greater than or equal to 1.5 Mbps and less than 3 Mbps.
- 5. Greater than or equal to 3 Mbps and less than 6 Mbps\*\*
- 6. Greater than or equal to 6 Mbps and less than 10 Mbps.
- 7. Greater than or equal to 10 Mbps and less than 25 Mbps.
- 8. Greater than or equal to 25 Mbps and less than 50 Mbps.
- 9. Greater than or equal to 50 Mbps and less than 100 Mbps.
- 10. Greater than or equal to 100 Mbps and less than 1 Gbps.
- 11. Greater than or equal to 1 Gbps.
- NTIA minimum definition of broadband 768 Kbps download, 200 Kbps upload
- \*\* FCC National Broadband Plan found national median speed to be 4 Mbps download, 1 Mbps upload





## Overview of NTIA Requirements

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#### Wireless Attributes

- · Same as wireline plus...
- · Spectrum
- Transmission technology
  - o Satellite
  - o Terrestrial Fixed Wireless Unlicensed
  - o Terrestrial Fixed Wireless Licensed
  - o Terrestrial Mobile Wireless



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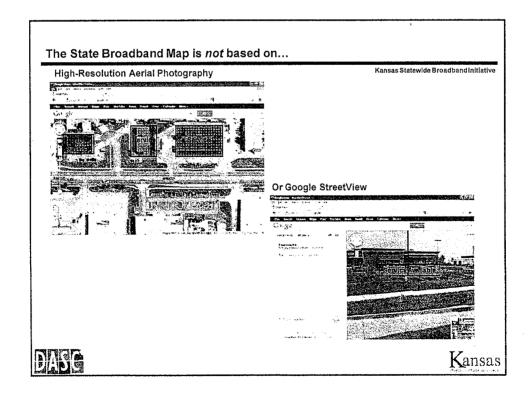
## **Overview of NTIA Requirements**

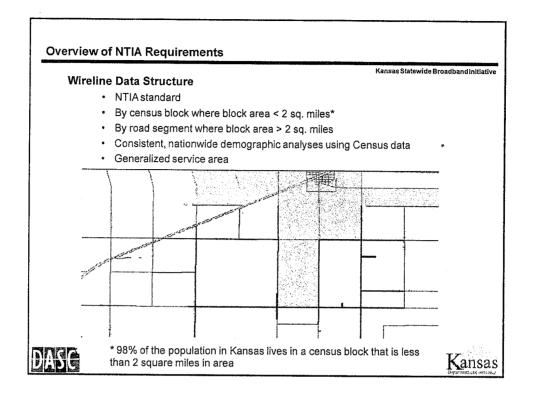
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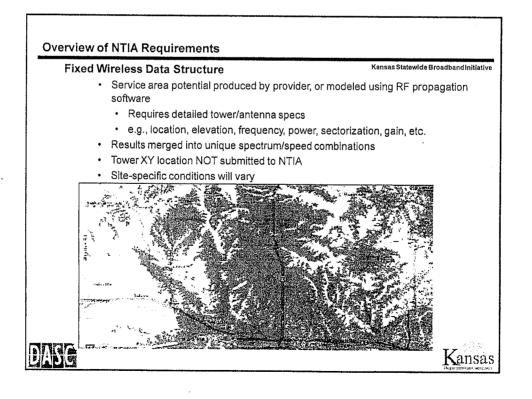
## Middle- and Last-mile Attributes

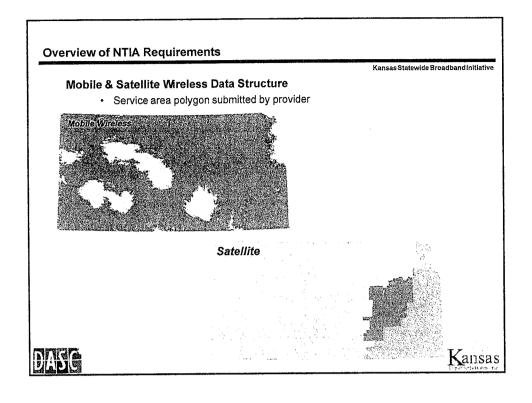
- Provider name
- DBA Name
- FCC Registration Number (FRN)
- Geographic coordinates (latitude/longitude)
- Elevation
- Capacity
- · Transmission technology
- · Number served (last-mile only)
- Again, this is not required and is not released to the public

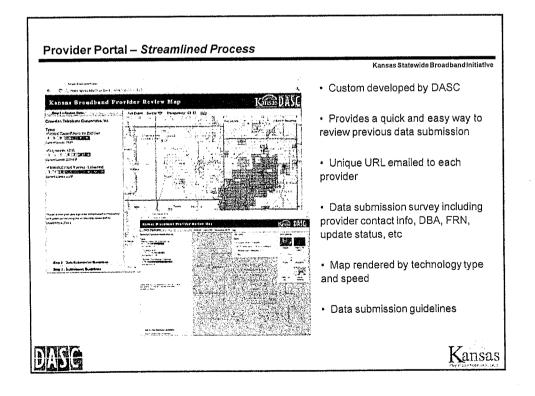


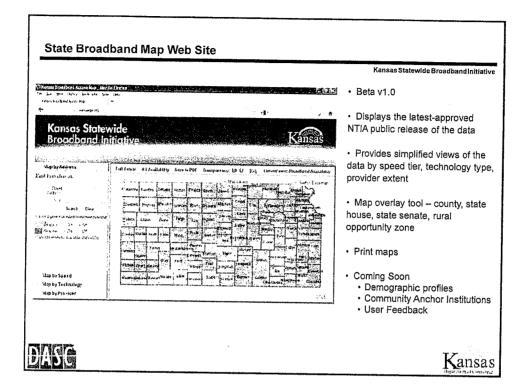












## Suitable Uses of the Broadband Map

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- · Strategic planning and needs assessment
- · Broadband service potential, not actual
  - · No information on demand (e.g., subscription take rates, pricing, etc.)
  - · Not site-specific conditions may vary
- · Voluntary program
- Gap analysis
  - · Number of providers in an area
  - · Served/under-served areas
- Trends
  - · Evolution of transmission technology
  - Max. Advertised Download/Upload speed
  - · Progress of taxpayer investments
- · Giant step forward





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