KANSAS BROADBAND MAP & FEDERAL UPDATE

Kansas Statewide Broadband Expansion Planning Task Force
December 17, 2019

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Connected Nation
Federal Update

New Funding for Broadband Buildout

- FCC’s Rural Digital Opportunity Fund (RDOF) - $20.4 billion proposed over 10 years
- FCC’s 5G Fund for Rural America - $9 billion proposed over 10 years
- USDA’s “ReConnect” Grant Program Round 2 - $550 million

Progress: Better Federal Broadband Mapping

- Legislation in Congress – H.R. 4229 & S.1822
  - More Granular Data, Public Challenge Process, Data Validation & Provider Filing Assistance
- FCC’s Digital Opportunity Data Collection (DODC) Report & Order Released August 1
- “Broadband Serviceable Location Fabric”
  - Pinpointing locations that warrant broadband service delivery
- New role for state and tribal governments: validating & challenging the data
What is a “Broadband Serviceable Location Fabric?”

All Building Footprints
What is a “Broadband Serviceable Location Fabric?”

Building Footprints that Warrant Broadband Service Delivery
What is a “Broadband Serviceable Location Fabric?”

Matching Addresses with On-Point Home Structure Data
State Broadband Mapping Project Overview

- Objective: Produce a more granular and accurate broadband availability map that the FCC’s National Broadband Map
- Collect and display granular data on service availability (provider name, provider type, speed, serviceable area)
- All service types (fiber, cable, DSL, fixed wireless, mobile wireless)
- Online searchable GIS map and downloadable PDF maps
- For use by the general public and the Statewide Broadband Expansion Planning Task Force (created by HB 2701)
- Feedback-driven in-field validation of infrastructure April through June 2019
- Initial map delivered on December 31, 2018; updated and final map delivered on July 31, 2019
NDAs & Data Collection

- Nondisclosure agreements (NDA) available to providers to protect Confidential Information shared with Connected Nation

- Map Development: Broadband Service Areas by Technology and Speeds by Serviceable Area

- Confidential Information: Used to derive service areas IF granular service area data is not available
  - Serviceable Locations
  - Infrastructure Routes
  - Equipment Locations (except certain vertical assets)

- Data collection began in August 2018 continued through June 2019
Provider Participation

- **88** broadband providers in Kansas
- **70** submitted granular / location-level data
- **10** refusals to participate; represented on map as Form 477 census block-level data (gray areas)
- **2** submitted location-level data for at least one service type, but we relied on Form 477 data for their other service type(s)
- **6** were non-responsive and have not been reporting to the FCC via Form 477, so there was no data to include
## Service Availability by Population

<table>
<thead>
<tr>
<th>Service Requirement</th>
<th># Unserved</th>
<th># Served</th>
<th>% Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Participating Providers with Granular Data</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At Least 10 Mbps Download/1 Mbps Upload</td>
<td>253,515</td>
<td>2,599,603</td>
<td>91.11</td>
</tr>
<tr>
<td>At Least 25 Mbps Download/3 Mbps Upload</td>
<td>485,896</td>
<td>2,367,222</td>
<td>82.97</td>
</tr>
<tr>
<td>At Least 50 Mbps Download/5 Mbps Upload</td>
<td>904,664</td>
<td>1,948,454</td>
<td>68.29</td>
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<tr>
<td>At Least 100 Mbps Download/20 Mbps Upload</td>
<td>1,339,076</td>
<td>1,514,043</td>
<td>53.07</td>
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<tr>
<td>At Least 1 Gbps Download</td>
<td>1,403,039</td>
<td>1,450,079</td>
<td>50.82</td>
</tr>
<tr>
<td>At Least 1 Gbps Download/1 Gbps Upload</td>
<td>2,635,317</td>
<td>217,801</td>
<td>7.63</td>
</tr>
<tr>
<td><strong>Including Non-Participating Providers (Form 477 Data)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At Least 10 Mbps Download/1 Mbps Upload</td>
<td>27,410</td>
<td>2,825,708</td>
<td>99.04</td>
</tr>
<tr>
<td>At Least 25 Mbps Download/3 Mbps Upload</td>
<td>95,569</td>
<td>2,757,549</td>
<td>96.65</td>
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<tr>
<td>At Least 50 Mbps Download/5 Mbps Upload</td>
<td>330,328</td>
<td>2,522,790</td>
<td>88.42</td>
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<tr>
<td>At Least 100 Mbps Download/20 Mbps Upload</td>
<td>561,653</td>
<td>2,291,465</td>
<td>80.31</td>
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<tr>
<td>At Least 1 Gbps Download</td>
<td>785,371</td>
<td>2,067,747</td>
<td>72.47</td>
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<tr>
<td>At Least 1 Gbps Download/1 Gbps Upload</td>
<td>2,011,192</td>
<td>841,926</td>
<td>29.51</td>
</tr>
</tbody>
</table>
Interactive Map

https://connectednation.org/kansas/interactivemap

Color Key for Service Availability Layers:

- **Orange**: Fiber
- **Purple**: DSL
- **Pink**: Cable
- **Green**: Fixed Wireless
- **Blue**: Mobile Wireless
- **Gray**: Form 477 Data for Non-Participating Providers
QUESTIONS?

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