

State Broadband Offices

NARUC COMMITTEE ON TELECOMMUNICATIONS

MODERATOR: HON. CHRIS NELSON, SOUTH DAKOTA

FEBRUARY 14TH, 2017

Minnesota

Danna MacKenzie

Executive Director

Minnesota Office of Broadband Development



Minnesota Office of Broadband Development Overview

**NARUC Winter Meeting
Committee on Telecommunications**

February 14, 2017

Danna MacKenzie – 651-259-7611 danna.mackenzie@state.mn.us

Executive Director

MN Office of Broadband Development

Department of Employment and Economic Development

State Involvement in Broadband

2008-2010

- 2008 – First broadband taskforce created
- 2009 – First state broadband map created
- 2010 – Statutory broadband goals established (10/5)

2011-2013

- 2011 – Broadband task force re-authorized under new Governor
- 2013 - Office of Broadband Development was created within DEED

2014-2016

- 2014 - Border to Border Broadband Infrastructure Grant created
- 2015 – Taskforce appointments renewed
- 2015 – 2nd round of B-to-B grant appropriated
- 2016 – Speed goals renewed and updated (25/3) & 3rd grant round



Office of Broadband Development

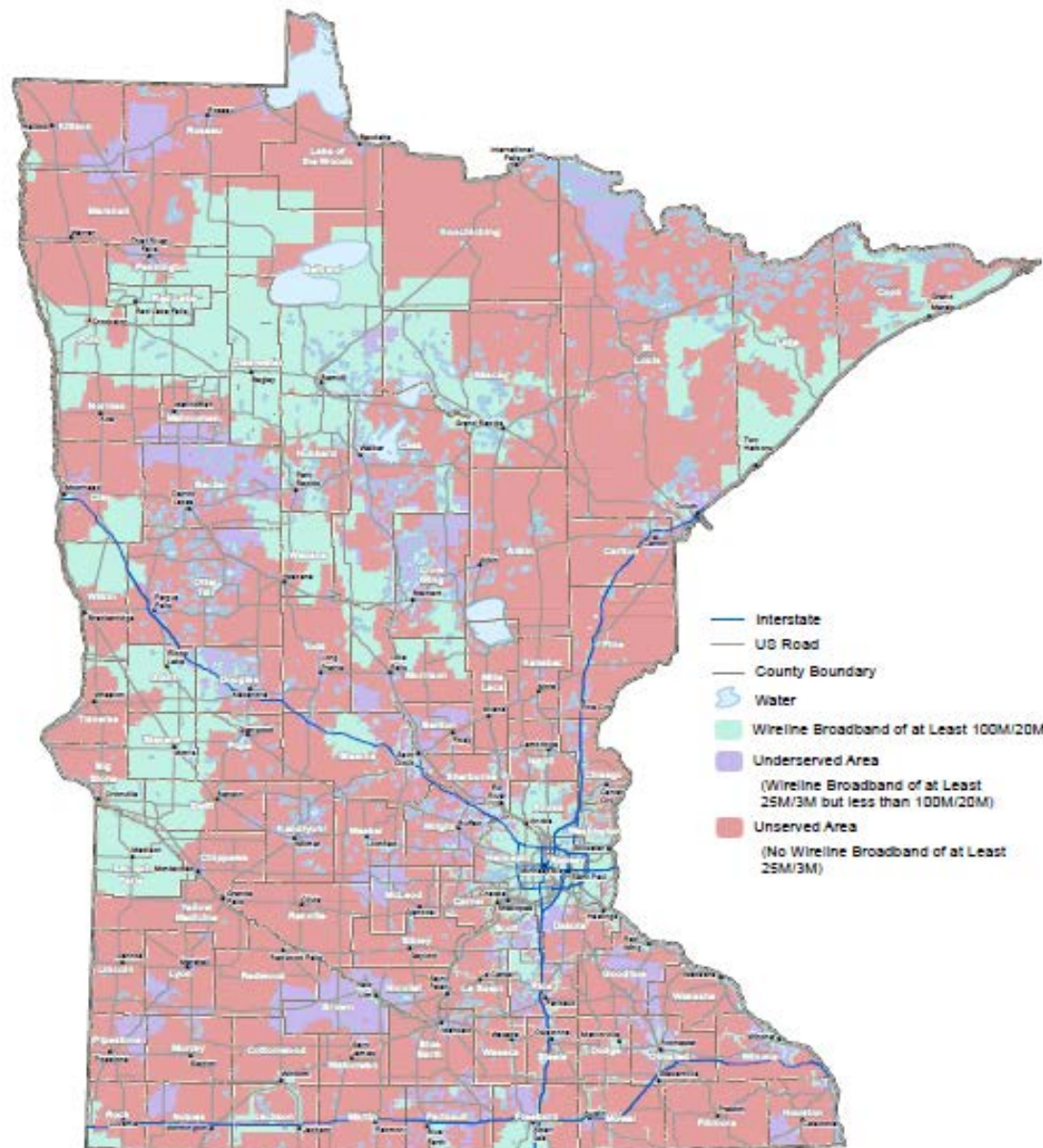
Roles and Responsibilities - Highlights

- Provide technical assistance to communities and providers
- Administer the Border to Border broadband grant program
- Measure and map broadband availability across the state
- Inform and support state broadband policy discussions
- Clearinghouse for state and federal program resources
- Measure and Analyze community anchor institution needs
- Support digital inclusion (literacy and affordability)
- Support the inclusion of community broadband needs into local planning processes
- Dig Once/conduit/ROW mgmt/permitting
- Provide support to the Broadband Task Force

2016 Broadband Service Inventory for the State of Minnesota

Border-to-Border Broadband Development Grant Program

Unserved, Underserved and Served Wireline Broadband Areas



Minnesota State Broadband Goals

Renewed and updated in 2016

All Homes and Businesses will have access to broadband service of at least:

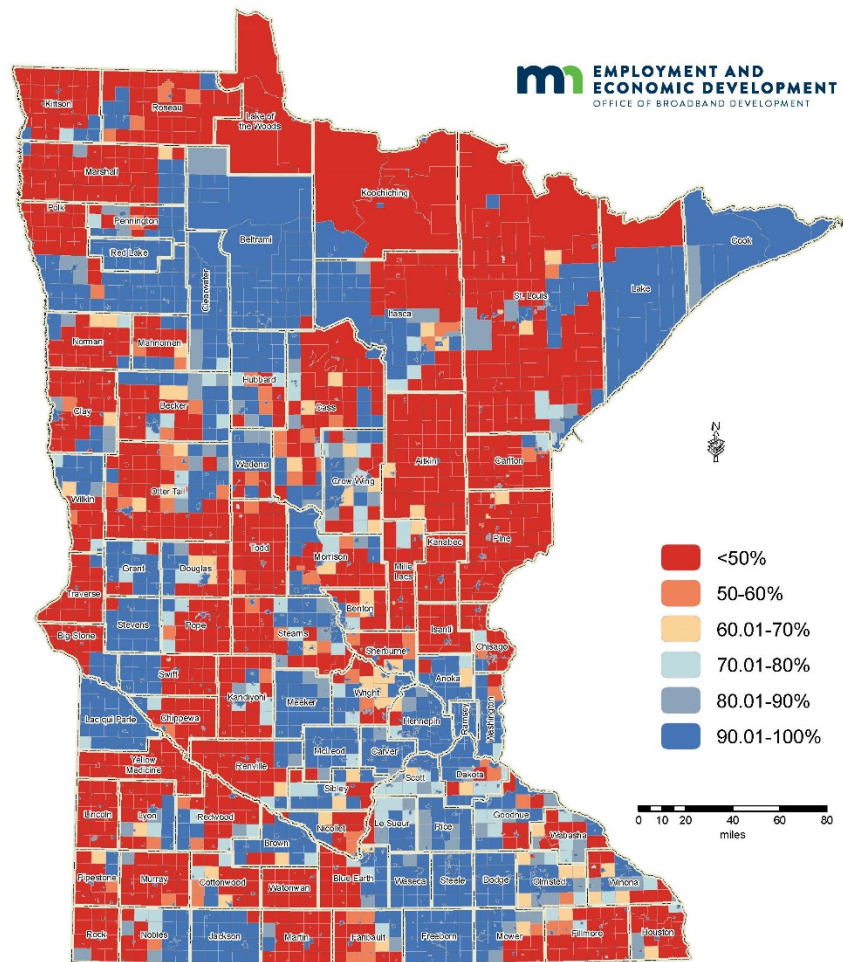
- 25 Mbps download by 3 Mbps upload (Current FCC definition) by 2022
- 100 Mbps download by 20 Mbps upload by 2026

2016 Broadband Availability in the State of Minnesota

Percentage of Households Served by Fixed,
Non-Mobile Broadband Service by City/Township

At Least 25 Mbps Download/3 Mbps Upload Speeds
(2022 State Broadband Goal)

Statewide Availability: 90.15%, Rural: 78.04%



This map was prepared by Connected Nation under contract with the Minnesota Department of Employment and Economic Development. The map represents areas of broadband service availability based on provider data submitted to and analyzed by Connected Nation and modified based on validation tools. The data is current as of December 31, 2015.

Additional maps and data are available at
<http://mn.gov/deed/programs-services/broadband/maps>

Upon request, this information can be made available in alternate formats for people with disabilities by contacting the DEED Office of Broadband Development at 651-259-7610.

Submit questions or recommended changes to:
DEED.broadband@state.mn.us

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2016 Broadband Availability By Township

Percentage of Households Served by Fixed, Non-Mobile Broadband Service

Households that DO NOT HAVE At Least 25 Mbps download by 3 Mbps upload (2022 state goal):

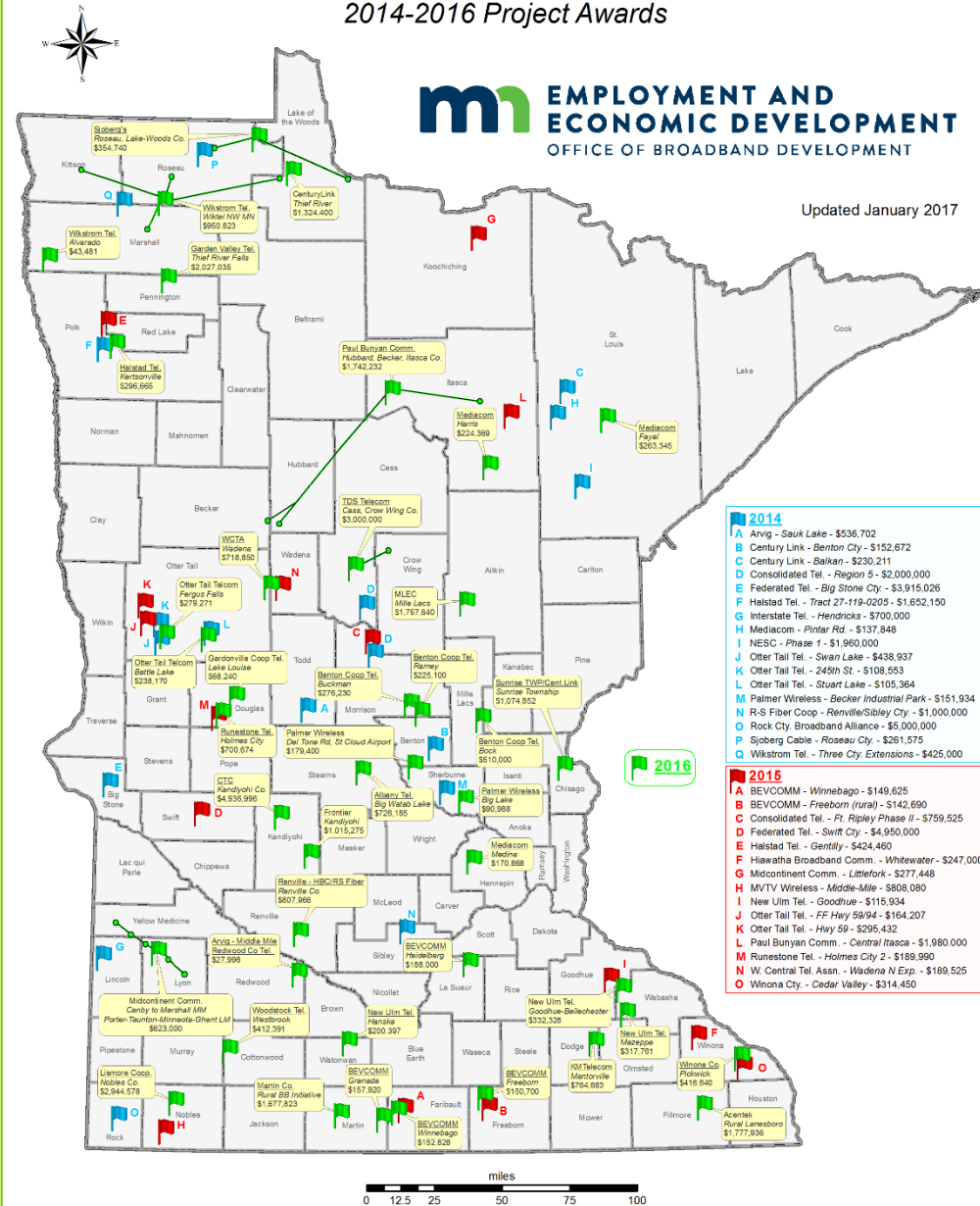
Statewide:	209,000
Rural:	202,000

Minnesota Border-to-Border Broadband Development Grant Program

2014-2016 Project Awards

mn EMPLOYMENT AND
ECONOMIC DEVELOPMENT
OFFICE OF BROADBAND DEVELOPMENT

Updated January 2017



Grant Awards: 3 rounds

	3-year totals
Funding	\$65.58M
Applications Received	146
Awards:	
Awards Made	73
Households Served	25,949
Businesses Served	3176
Institutions Served	244
Public/Private partnerships	26
Projects:	
Matching Investments	\$81.6M
Completed	19



North Carolina

Jeffrey R. Sural

Acting General Counsel

Director, Broadband Infrastructure Office

North Carolina Department of Information Technology





ACTIVE AND ENGAGED BROADBANDIO

TECHNICAL ASSISTANCE PROGRAM

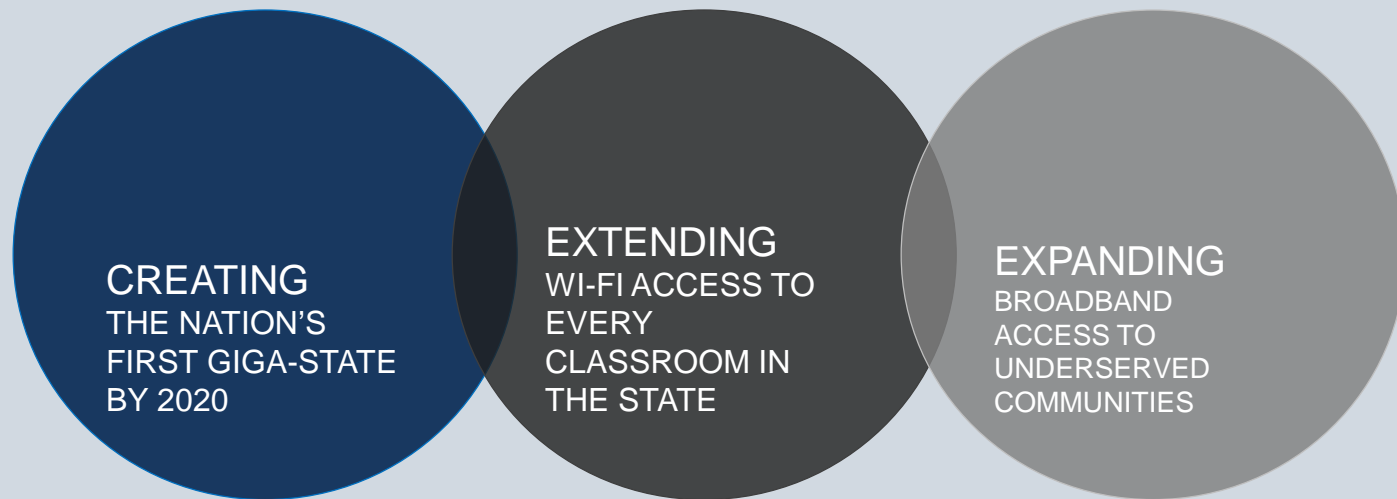
On-the-ground support to implement a proven process for broadband expansion

CONVENING & AGGREGATING

Align & coordinate the state's digital infrastructure resources, programs & relevant state agencies

STRATEGY & GUIDANCE

Provide policy & strategy guidance & recommendations



INFORMATION TECHNOLOGY



CONNECTING NORTH CAROLINA

State Broadband Plan

www.ncbroadband.gov/sbp



**Incentivize
investment/reduce
barriers:**

**Next-generation
infrastructure**

**Close the
'homework gap'**

**Create community-
based adoption &
utilization programs
and initiatives**

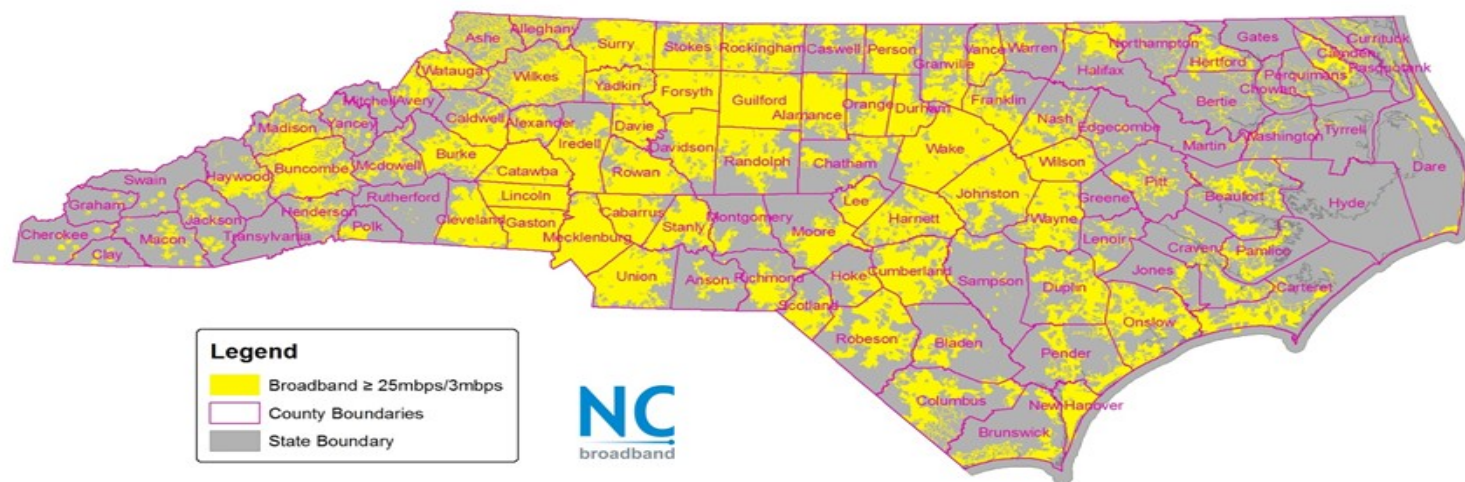
**Enhance public
safety and first
responder
connectivity**

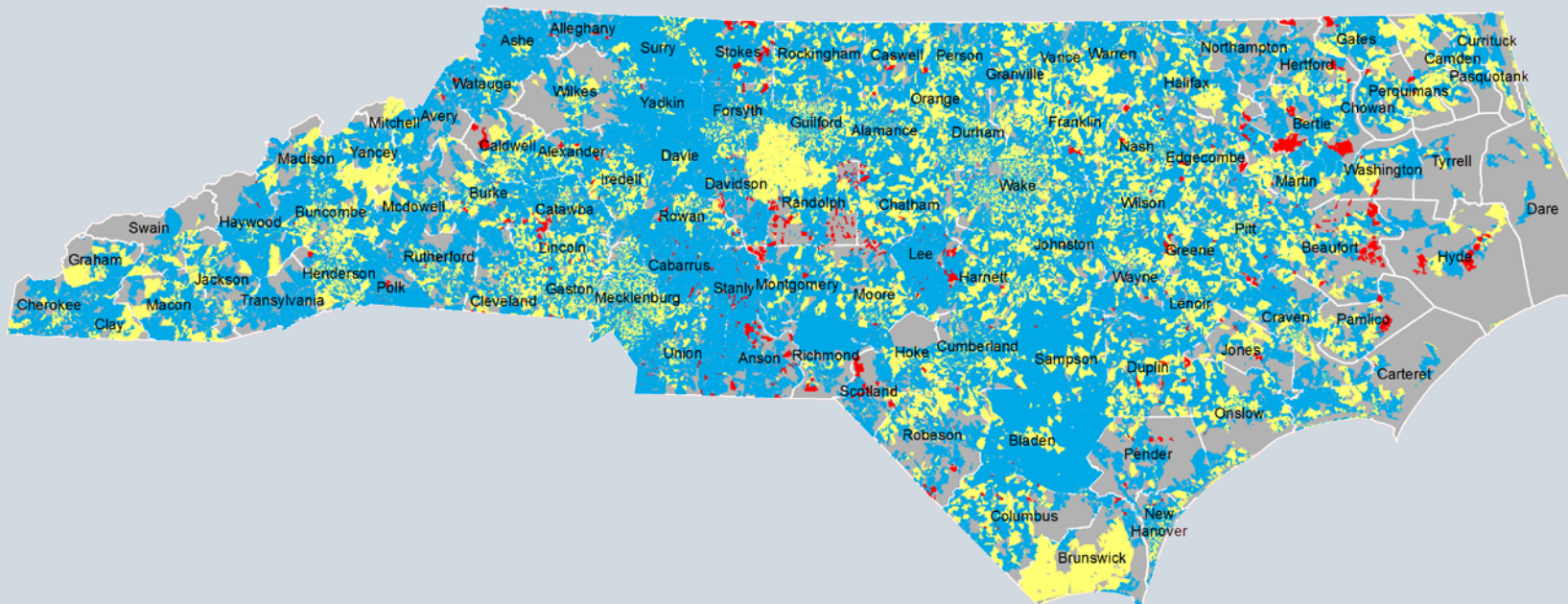
**Integration of
broadband into
economic
development
strategies**

**Leverage
telehealth
technologies**

≥ 25 mbps download, 3 mbps upload

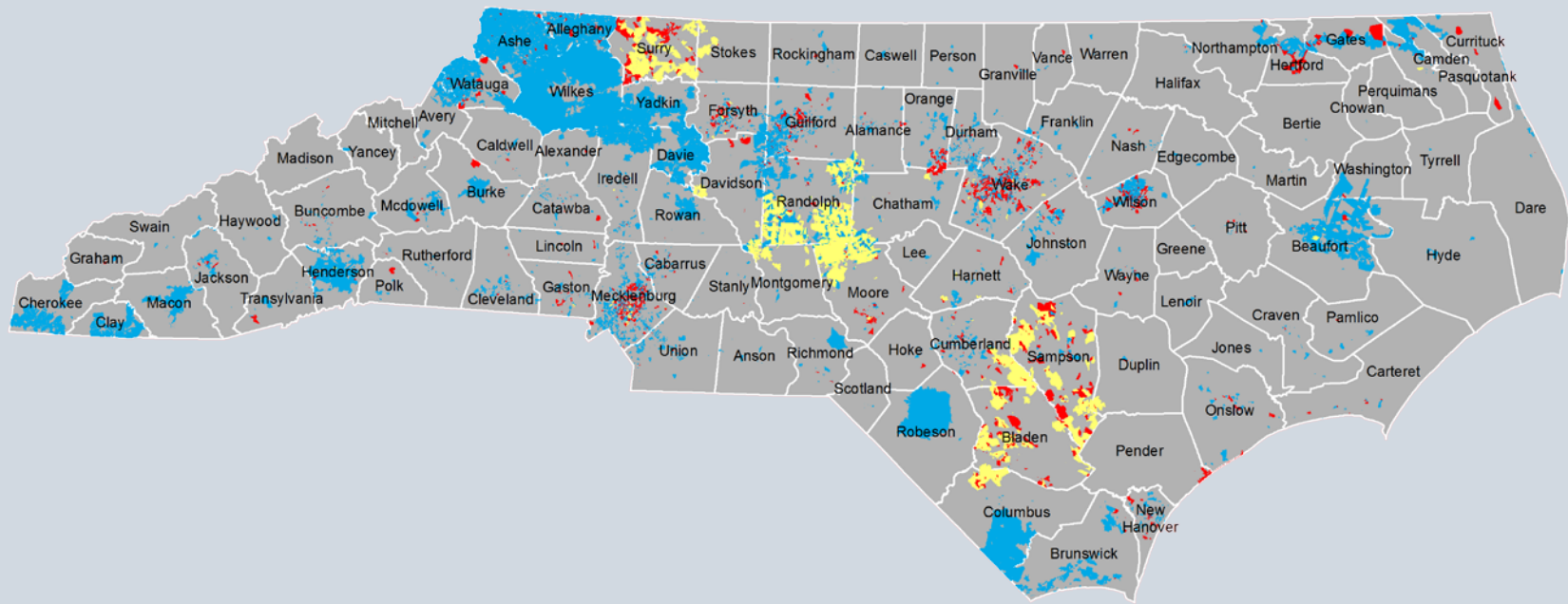
An estimated 90.2% of households statewide have broadband available at this speed or higher, which leaves 367,457 households without this availability.





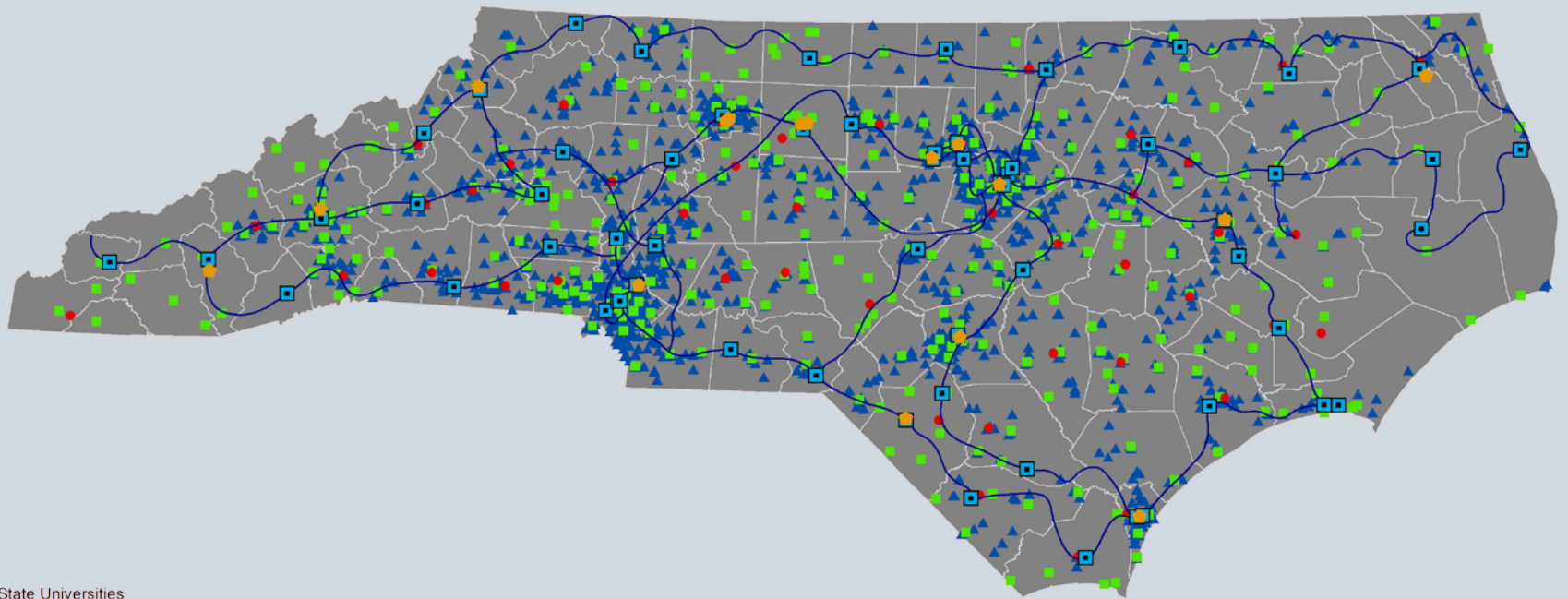
- DSL, xDSL in 2014
- DSL, xDSL Coverage Added in 2015
- DSL, xDSL Increased Speed* from 2014 to 2015

Based on Maximum Advertised Download Speed
 Source: Federal Communications Commission
<https://www.fcc.gov/general/broadband-deployment-data-fcc-form-477>
 (accessed: March 2016)



- Fiber to the Curb (December 2014)
- Fiber Coverage Added in 2015
- Fiber Coverage With Increased Speed* from 2014-2015

Based on Maximum Advertised Download Speed
 Source: Federal Communications Commission
<https://www.fcc.gov/general/broadband-deployment-data-fcc-form-477>
 (accessed: March 2016)

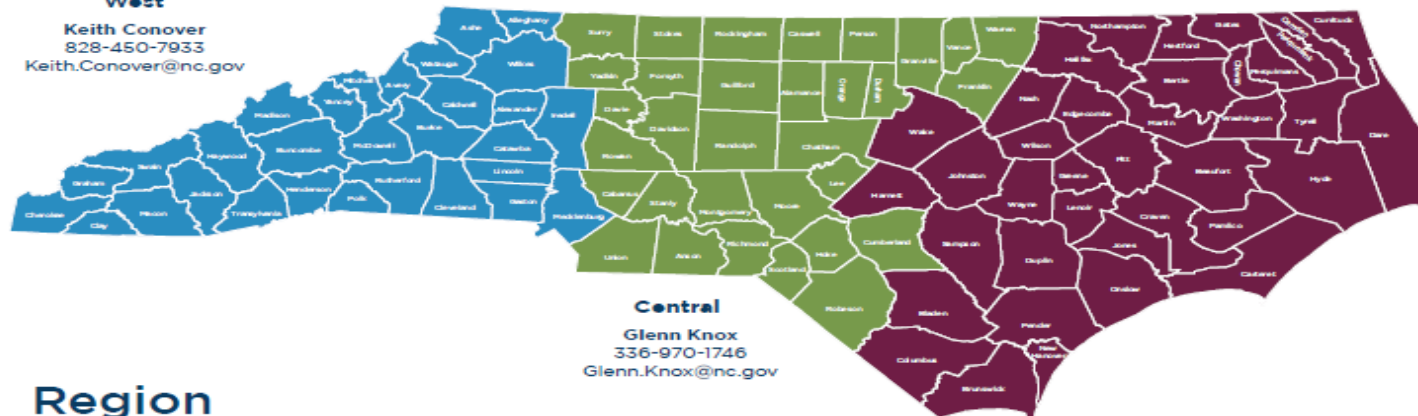


- State Universities
- Community Colleges
- Libraries
- K to 12 Schools
- MCNC Fiber Network

2016 Technical Assistance Regions

West
Keith Conover
828-450-7933
Keith.Conover@nc.gov

East
George T. Collier
919-754-6558
George.Collier@nc.gov



ENHANCING OUTREACH



NCBroadband.gov
FirstNet.nc.gov



@BroadbandIO
@FirstnetNC



Broadband@NC.Gov



NEWS

Information Technology

West Virginia

Tony Simental

West Virginia State GIS Coordinator

WV Office of GIS Coordination



**NARUC Winter Meeting
Washington, D.C.
February 14, 2017**

Tony Simental, MS
State GIS Coordinator



**West Virginia Broadband Mapping
Program**

NARUC Winter Meeting
Washington, D.C.
February 14, 2017

Connecticut

Elin Swanson Katz

Consumer Counsel

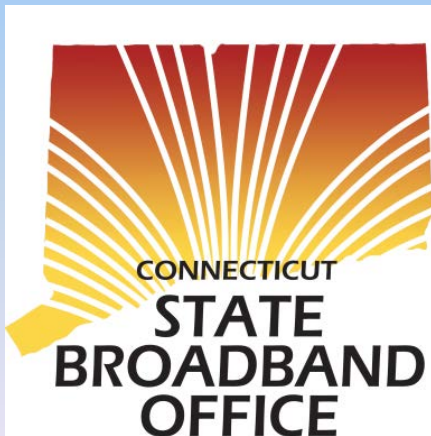
State of Connecticut

Office of Consumer Counsel



Meet Connecticut's State Broadband Office

**NARUC Winter Meeting
Washington, D.C.**



**Elin Swanson Katz
CT Consumer Counsel**

February 14, 2017



Sec. 16-2a. Office of Consumer Counsel. (a) There shall be an independent Office of Consumer Counsel...to act as the advocate for consumer interests *in all matters which may affect Connecticut consumers* with respect to public service companies, electric suppliers and certified telecommunications providers, including, but not limited to, rates and related issues, ratepayer-funded programs and matters concerning the reliability, maintenance, operations, *infrastructure and quality of service* of such companies, suppliers and providers.



Sec. 16-2a. Office of Consumer Counsel....(c) There shall be established an Office of State Broadband within the Office of Consumer Counsel. The Office of State Broadband shall work to facilitate the availability of broadband access to every state citizen and to increase access to and the adoption of ultra-high-speed gigabit capable broadband networks.

High-Tech Manufacturing



Education and the Digital Divide

SCHOOLS

Murphy Hears Bridgeport Students' Concerns About Lack Of Internet At Home

DAILY VOICE Daily Voice 06/05/2015

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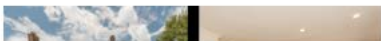
EMAIL

PRINT

0 COMMENTS

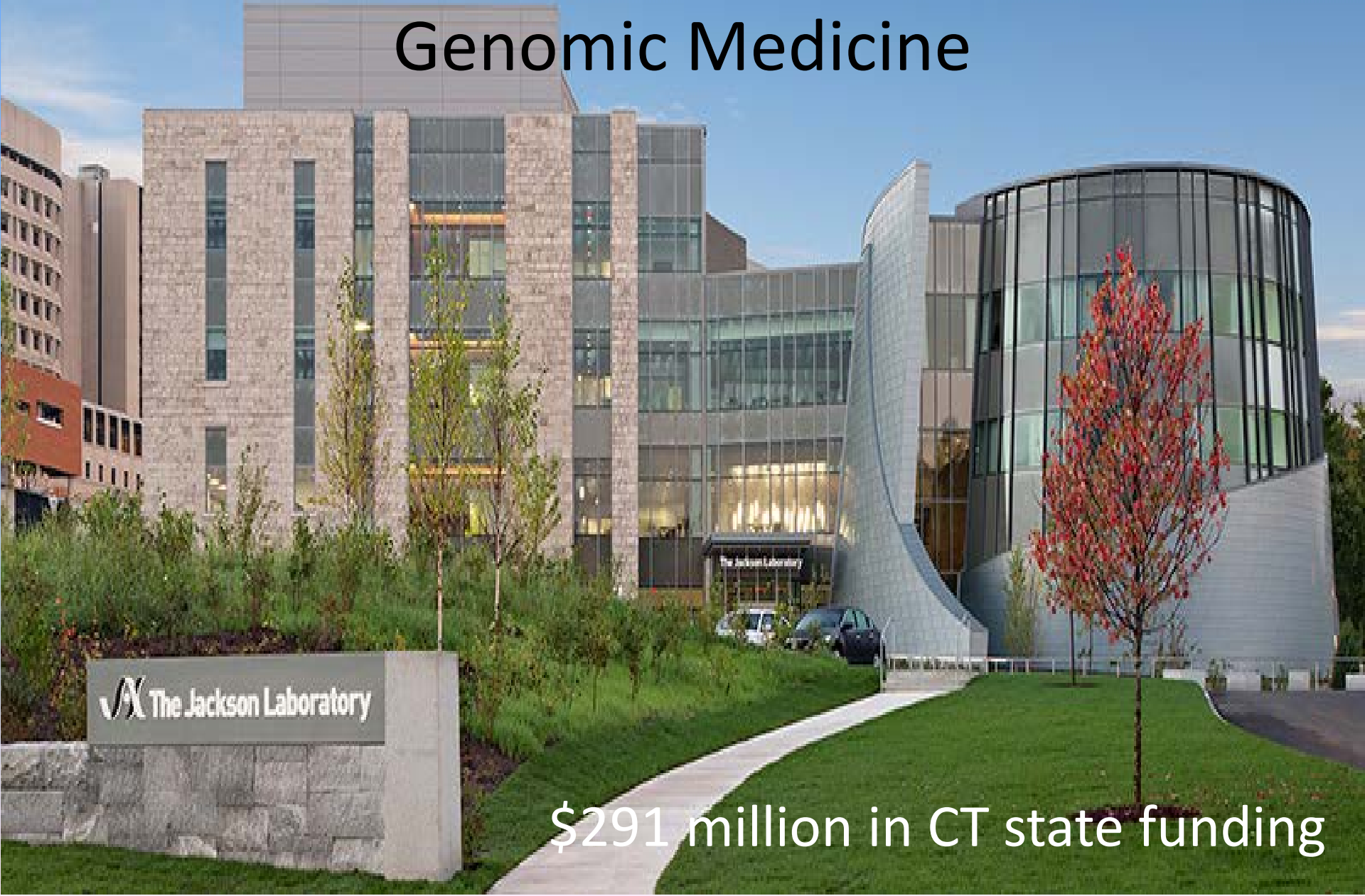


U.S. Sen. Chris Murphy meets with students at Warren Harding High School in Bridgeport. Photo Credit: U.S. Sen. Chris Murphy



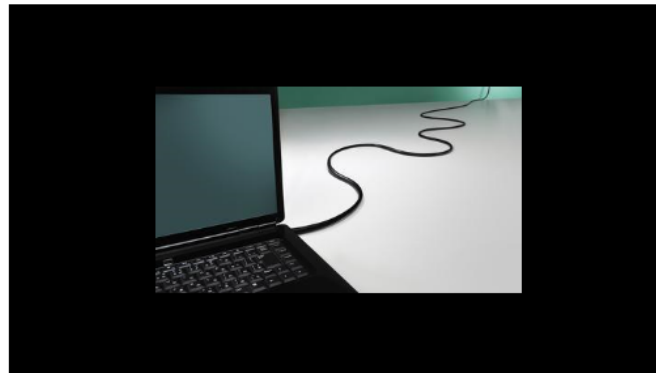
BRIDGEPORT, Conn. – Students at Warren

Health Care Data, Bioscience, and Genomic Medicine



\$291 million in CT state funding

46 Connecticut Cities And Towns Join Ultra-High-Speed Internet Project



Hartford Courant



By **Gregory B. Hladky** - Contact Reporter



Should your municipality be looking to get ultra-high-speed Internet service?

DECEMBER 19, 2014

A total of 46 Connecticut cities and towns have now signed on to a project to bring ultra-high-speed Internet service to their communities, according to state Consumer Counsel Elin Swanson Katz.

The goal is to provide Internet service connections that are as much as 100 times faster than what Connecticut Internet users now have. Advocates of the project say ultra-speedy World Wide Web service has triggered dramatic economic growth in several of the U.S. cities already.

New Haven, Stamford and West Hartford leaders joined with state officials in September to announce the plan, and convinced other Connecticut municipalities to get on board.



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POLITICS

US Cities With the Highest % of



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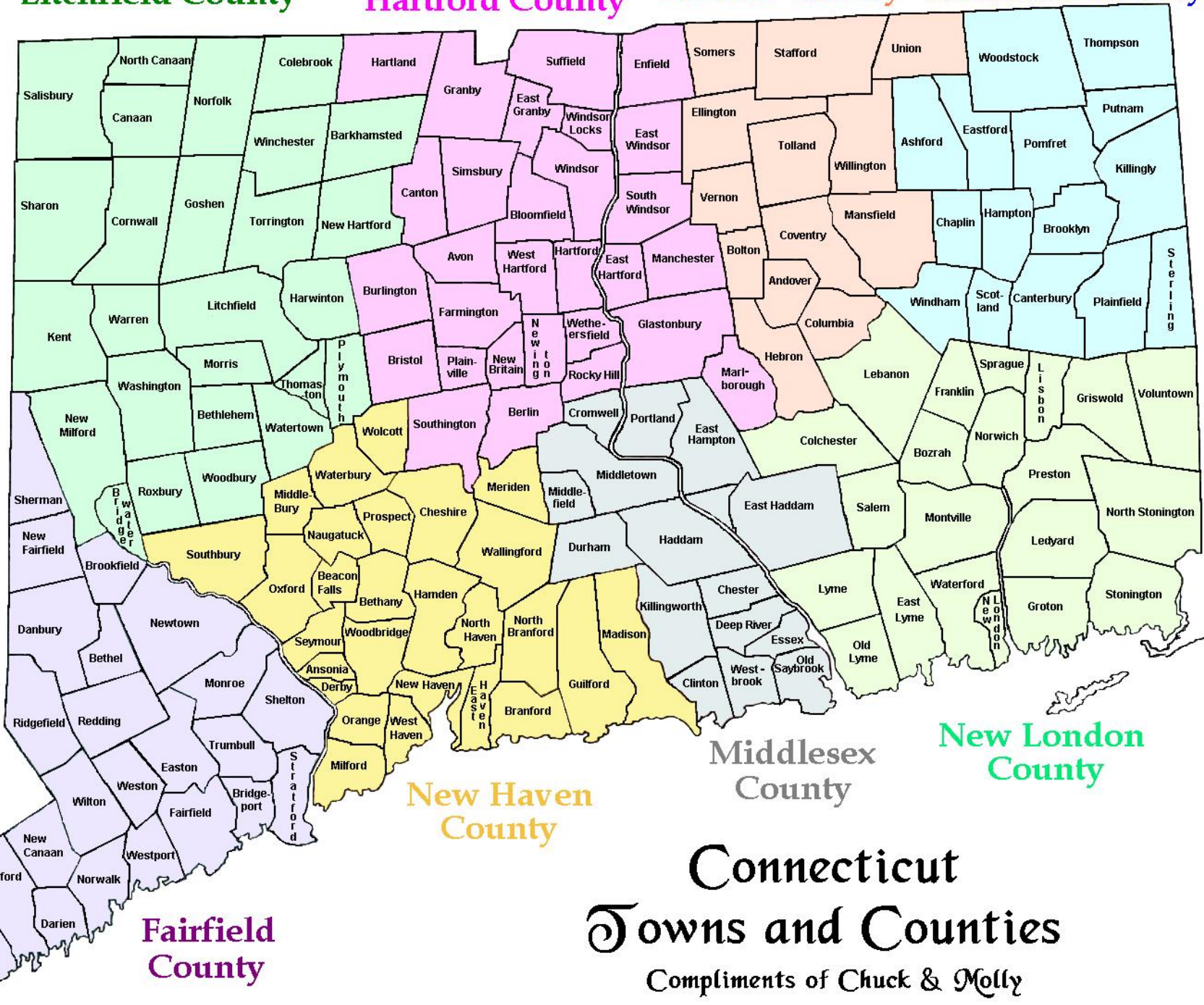
(none)
(none)

Litchfield County

Hartford County

Tolland County

Windham County



Connecticut Towns and Counties

Compliments of Chuck & Molly

Numerous dockets before Public Utilities Regulatory Authority on access to poles & public rights of way



The screenshot shows the official website of the Connecticut Department of Energy & Environmental Protection, specifically the Public Utilities Regulatory Authority. The header features the state seal and the department's name. A navigation bar includes links for Home, About Us, Press Releases, Forms, and Contact Us. Below this, a secondary navigation bar lists key areas: CONSUMER AFFAIRS, ENERGY EFFICIENCY, CURRENT TOPICS, DOCKET INFO, MAKE A FILING, and QUICK LINKS. The main content area is divided into two sections. On the left, a large banner image of a smiling woman wearing a headset is accompanied by the text "Our Consumer Affairs Team is Here to Help They are Only a Click Away..." and a "MORE INFO" link. On the right, a smaller section introduces Katie Dykes, Chair, with a portrait photo and a welcome message. The welcome message states: "Welcome to the Public Utilities Regulatory Authority website. Here you will find information about the regulation of rates and services of Connecticut's electricity, natural gas, water and telecommunication public service companies as well as franchise information about the state's cable television companies. We also offer helpful information to you as a consumer of these services." At the bottom, a red-bordered box contains a notice: "Effective January 1, 2017, out of state attorneys must follow *pro hac vice* procedures in order to appear before Connecticut's administrative proceedings, including those at PURA." To the right of this notice is a small graphic of a calendar for January.

 DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
PUBLIC UTILITIES REGULATORY AUTHORITY

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CONSUMER AFFAIRS ENERGY EFFICIENCY CURRENT TOPICS DOCKET INFO MAKE A FILING QUICK LINKS

 *Our Consumer Affairs Team is Here to Help They are Only a Click Away...* [MORE INFO >](#)

Katie Dykes
Chair

Welcome to the Public Utilities Regulatory Authority website. Here you will find information about the regulation of rates and services of Connecticut's electricity, natural gas, water and telecommunication public service companies as well as franchise information about the state's cable television companies. We also offer helpful information to you as a consumer of these services.

Effective January 1, 2017, out of state attorneys must follow *pro hac vice* procedures in order to appear before Connecticut's administrative proceedings, including those at PURA.



NTIA

Brian Gibbons, Broadband USA, NTIA



BROADBANDUSA

BroadbandUSA's State Broadband Leaders Network

Brian Gibbons

Discussion with State Broadband Offices

February 14, 2017 NARUC Committee on Telecommunications

The National Telecommunications and Information Administration (NTIA)

- NTIA is the Executive Branch agency in the U.S. Department of Commerce that is principally responsible for advising the President on telecommunications and information policy issues.
- NTIA's programs and policymaking focus largely on
 - expanding broadband Internet access and adoption in America,
 - expanding the use of spectrum by all users, and
 - ensuring that the Internet remains an engine for continued innovation and economic growth.



NTIA investments in broadband

In 2009, ARRA created one-time grant programs investing \$4.2 B to advance broadband:

- Comprehensive Community Infrastructure*
- Public Computing Centers*
- Sustainable Broadband Adoption*
- State Broadband Initiative and the National Broadband Map



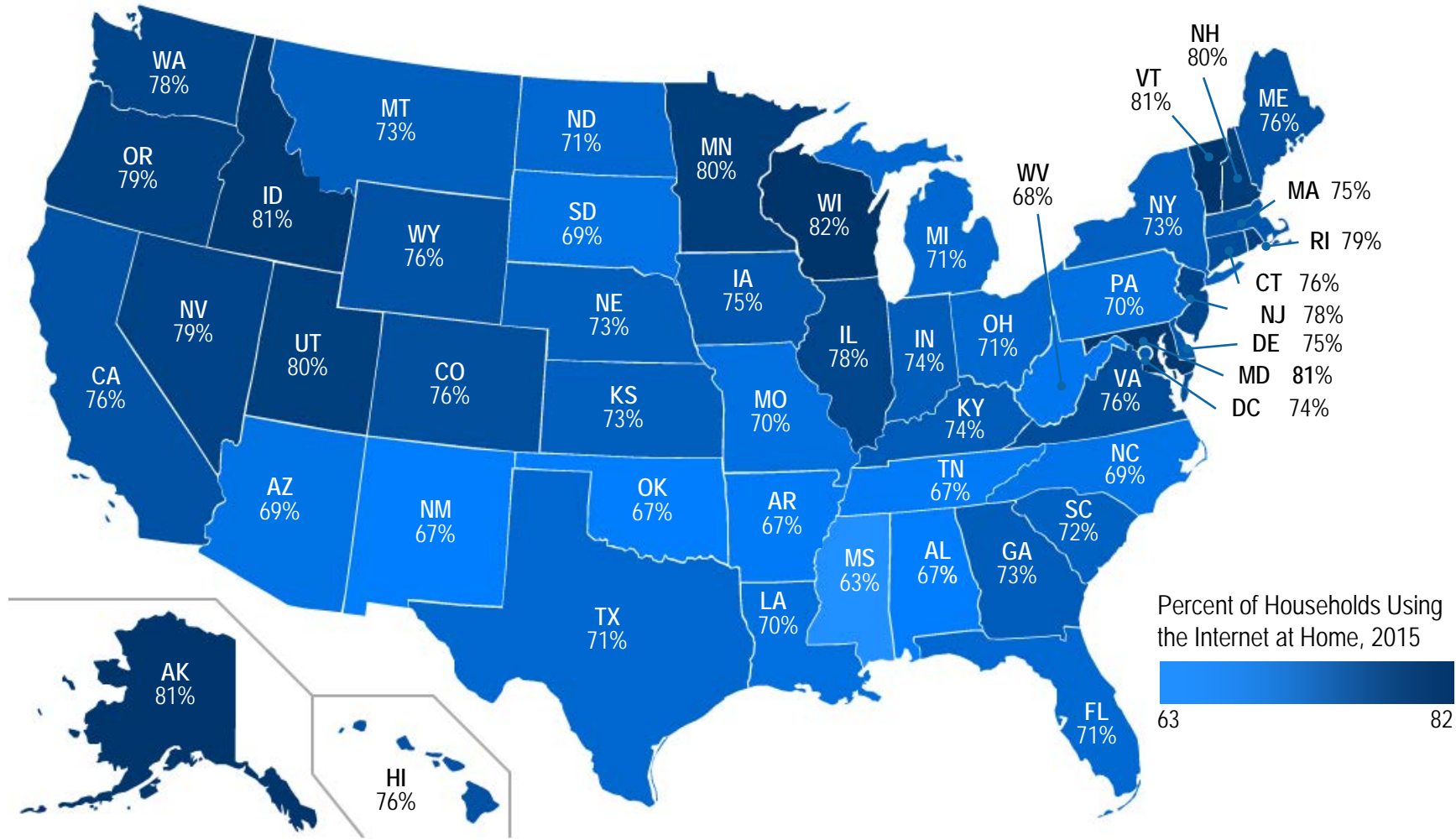
Source:

Connecting America's Communities Map

<http://www2.ntia.doc.gov/BTOPmap/>

*Together the first three programs are known as the Broadband Technology Opportunities Program (BTOP)

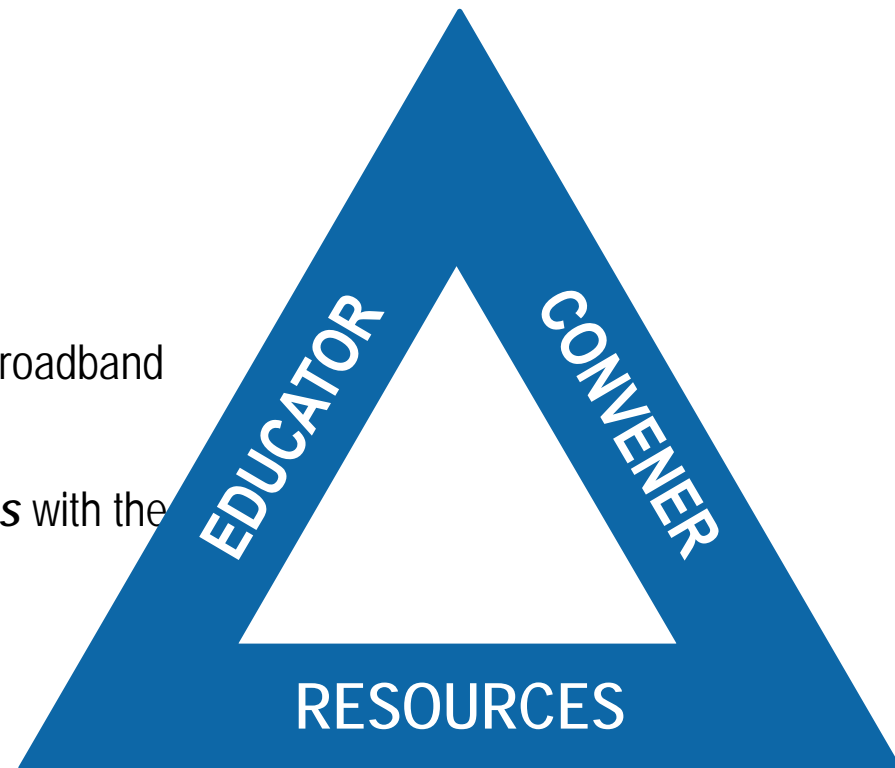
Over 33 million American households do not use the Internet from home



Source: NTIA Data Central, <https://www.ntia.doc.gov/data>

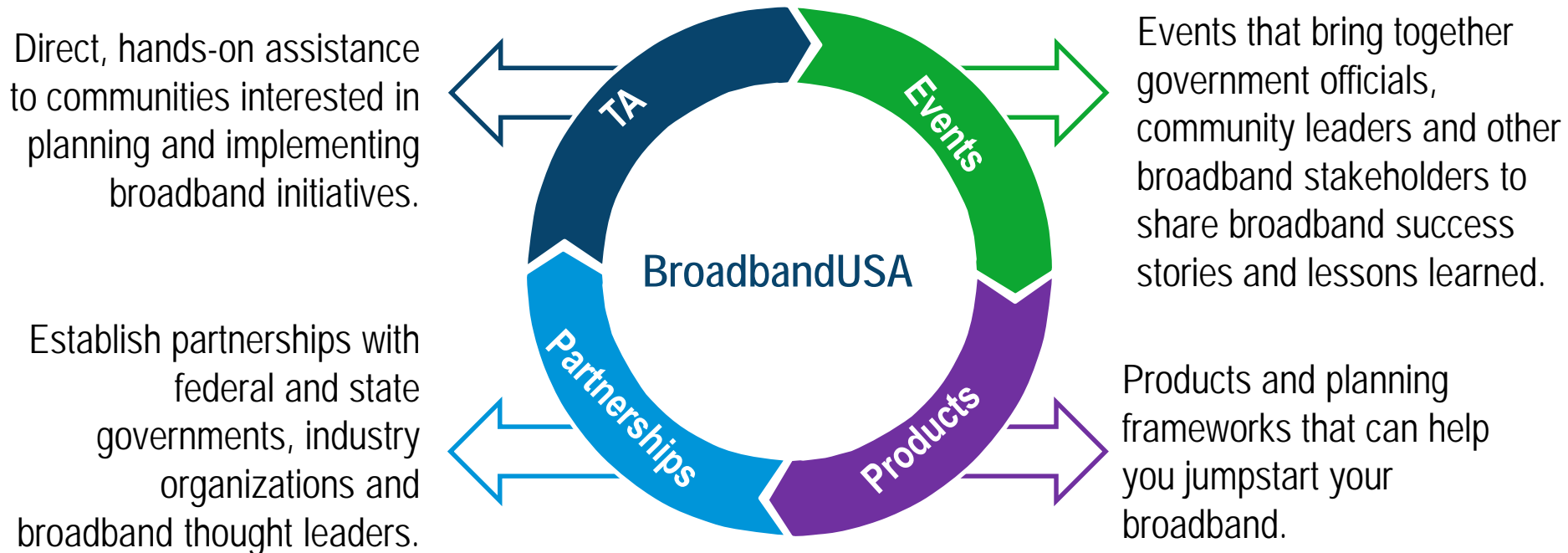
NTIA launched BroadbandUSA

- *Arm stakeholders & community leaders with information* to make the right decisions
- *Develop guidance for pursuing solutions* to broadband challenges.
- *Convene and facilitate the right conversations* with the right people to increase project success.



How can BroadbandUSA help?

BBUSA provides assistance and expertise to communities, leaders and private entities implementing broadband deployment and adoption programs



BroadbandUSA: Technical Assistance



Planning

(e.g., RFP Development/Review, Preliminary Network Design, Asset Inventory)



Funding

(e.g., Partnership Facilitation, Funding Option Assessments)



Implementation

(e.g., Network Design, Regulatory Approvals, Interconnection, Permitting)

90% of TA requests involve broadband planning and
62% involve questions related to funding

BroadbandUSA: Connectivity Initiative

Accelerate broadband planning, action, and progress.

- ✓ Better outcomes in less time
- ✓ Engage more communities & constituencies
- ✓ Increase resource relevance & usability



Quick Start



Framework



Assessment



Local Report



Resources

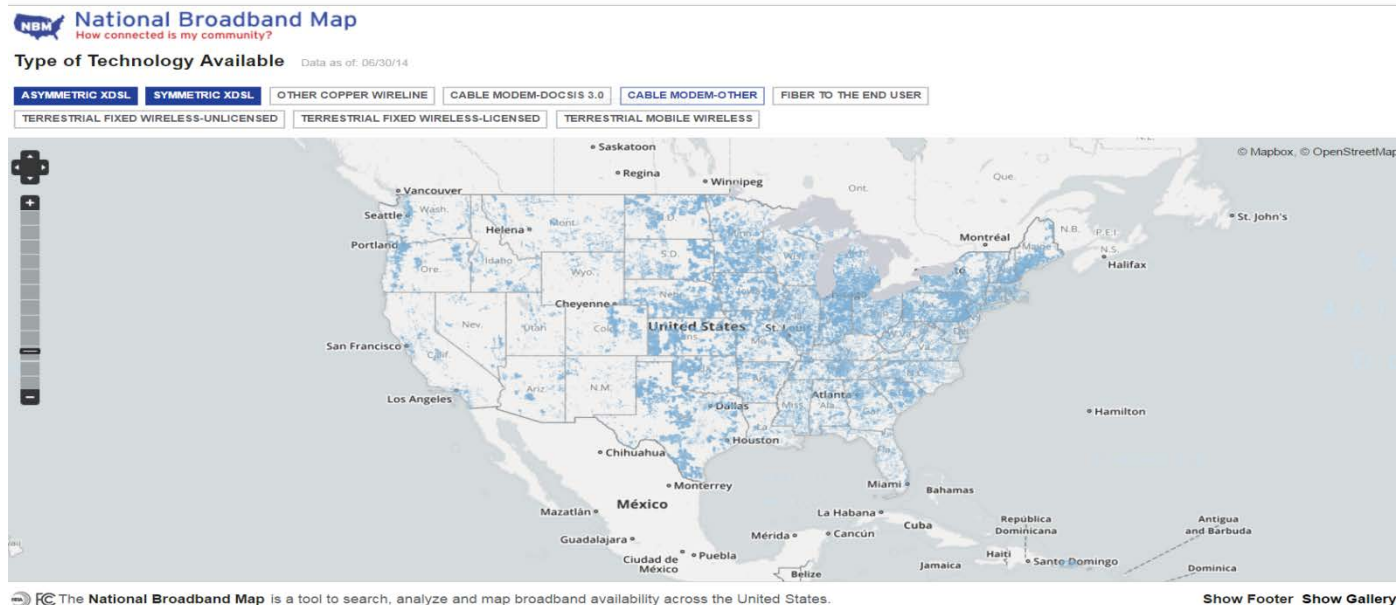
Broadband Interagency Working Group

- Broadband Opportunity Council: Established March 2015 and co-chaired by DOC and USDA, with 25 member agencies
- Focused on Executive Branch potential for action
- Report Issued in August 2015 with 36 Action Items
- As of January 2016 agencies have completed 15 of the 36 Action Items
 - Elevated broadband as a critical issue across the federal government
 - Transitioned coordination efforts to career-level Broadband Interagency Working Group

See: <https://www.ntia.doc.gov/blog/2017/agencies-making-progress-connect-america>

BroadbandUSA: State Broadband Leaders Network (SBLN)

- Continues the collaborative exchange between NTIA and states established while working together on the National Broadband Map
- A vehicle for the exchange of information on broadband issues and topics of mutual interest among participants and BroadbandUSA



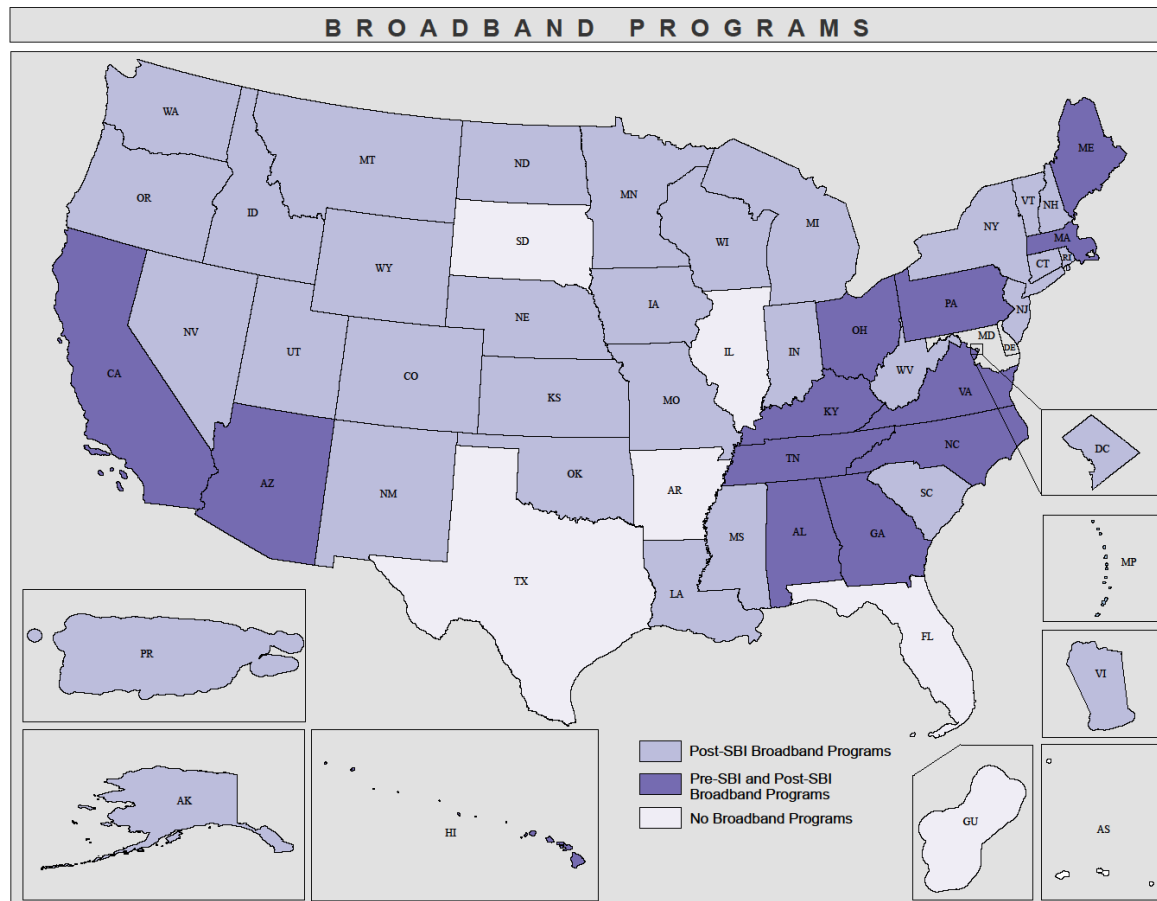
State Broadband Leaders Network Activities

- Produces events, webinars, workshops and other materials that support the network and participants
- Hosts calls and shares information among members
- Coordinates BroadbandUSA technical assistance opportunities
- Informs Broadband USA and NTIA of state priorities and best practices regarding broadband deployment, access, adoption, inclusion, and use

State Broadband Leaders Network Participants

- SBLN participant ranks are varied and include:
 - ✓ State broadband offices
 - ✓ Governor's offices
 - ✓ GIS offices
 - ✓ Public Utility Commissions
 - ✓ Economic development offices
 - ✓ Universities
 - ✓ State extension services
 - ✓ Public safety offices
 - ✓ State designated third party entities

State Broadband Leaders Network Participation



Learn More About SBLN

For information on BroadbandUSA's State Broadband Leaders Network

Brian Gibbons

Senior Communications Policy Specialist

Broadband USA

202-482-6094

bgibbons@ntia.doc.gov

For further information on Broadband USA

- For more information, contact us at broadbandusa@ntia.doc.gov
- Visit us on the web at <http://www2.ntia.doc.gov>
- TA Resource Guides at <http://www2.ntia.doc.gov/Broadband-Resources>

