



BROADBANDUSA

NTIA and Broadband Opportunity Council Initiatives

2016 National Conference of Regions

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Agenda

- NTIA and BroadbandUSA Overview
- Broadband Opportunity Council Overview and Initiatives
- Community Connectivity Index
- Federal, State, Regional, Local Collaboration
- Q&A

What is the National Telecommunications and Information Administration (NTIA)

- NTIA is an agency within the U.S. Department of Commerce
 - Executive Branch agency that is principally responsible for advising the President on telecommunications and information policy issues.
 - Programs and policymaking focus:
 - Expanding broadband Internet access and adoption in America through BroadbandUSA
 - Managing the government's use of spectrum
 - Ensuring that the Internet remains an engine for continued innovation and economic growth

Results of NTIA's Broadband Technologies Opportunities Program (BTOP)

NTIA invested \$4.2 billion across four BTOP grant portfolios to promote broadband deployment and adoption in rural and underserved areas.



Comprehensive Community Infrastructure (CCI)
\$3.5B - 123 grants



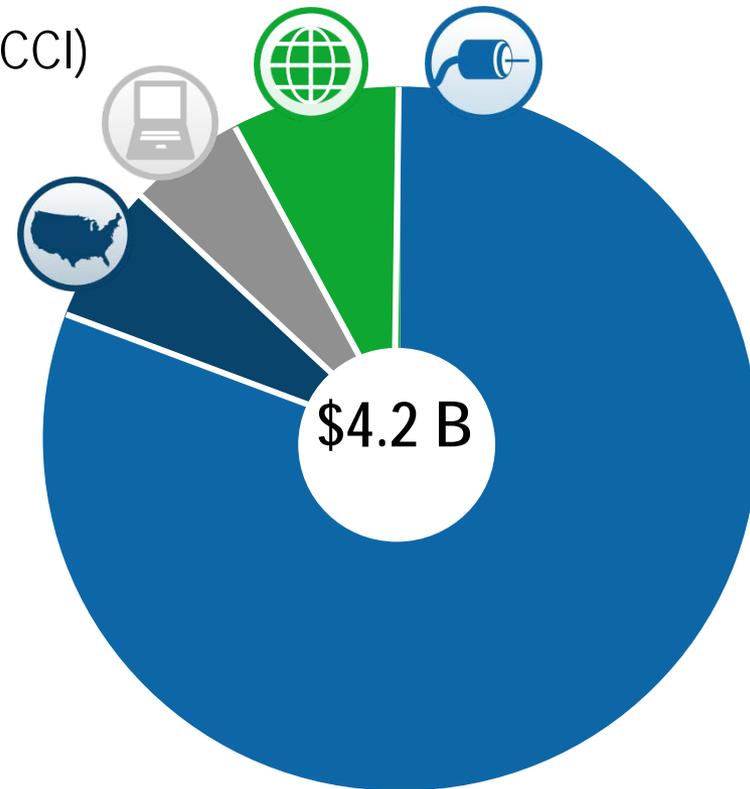
Public Computer Centers (PCC)
\$201M - 66 grants



Sustainable Broadband Adoption (SBA)
\$251M - 44 grants

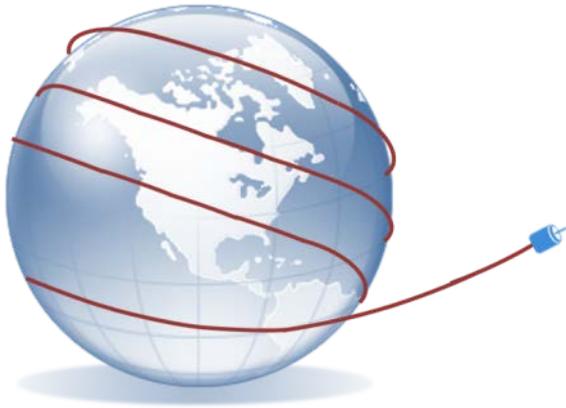


State Broadband Initiative (SBI)
\$293M - 56 grants



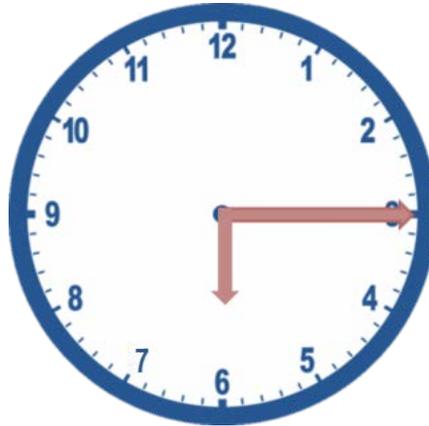
BTOP projects successfully deployed fiber networks, offered training, and connected communities

Deployed More Than 115,000 Miles of Fiber



Enough to circumnavigate the globe 4.5 times

Delivered 20 Million Training Hours



Equivalent to taking classes 24/7 for more than two centuries

Trained More Than 4 Million People

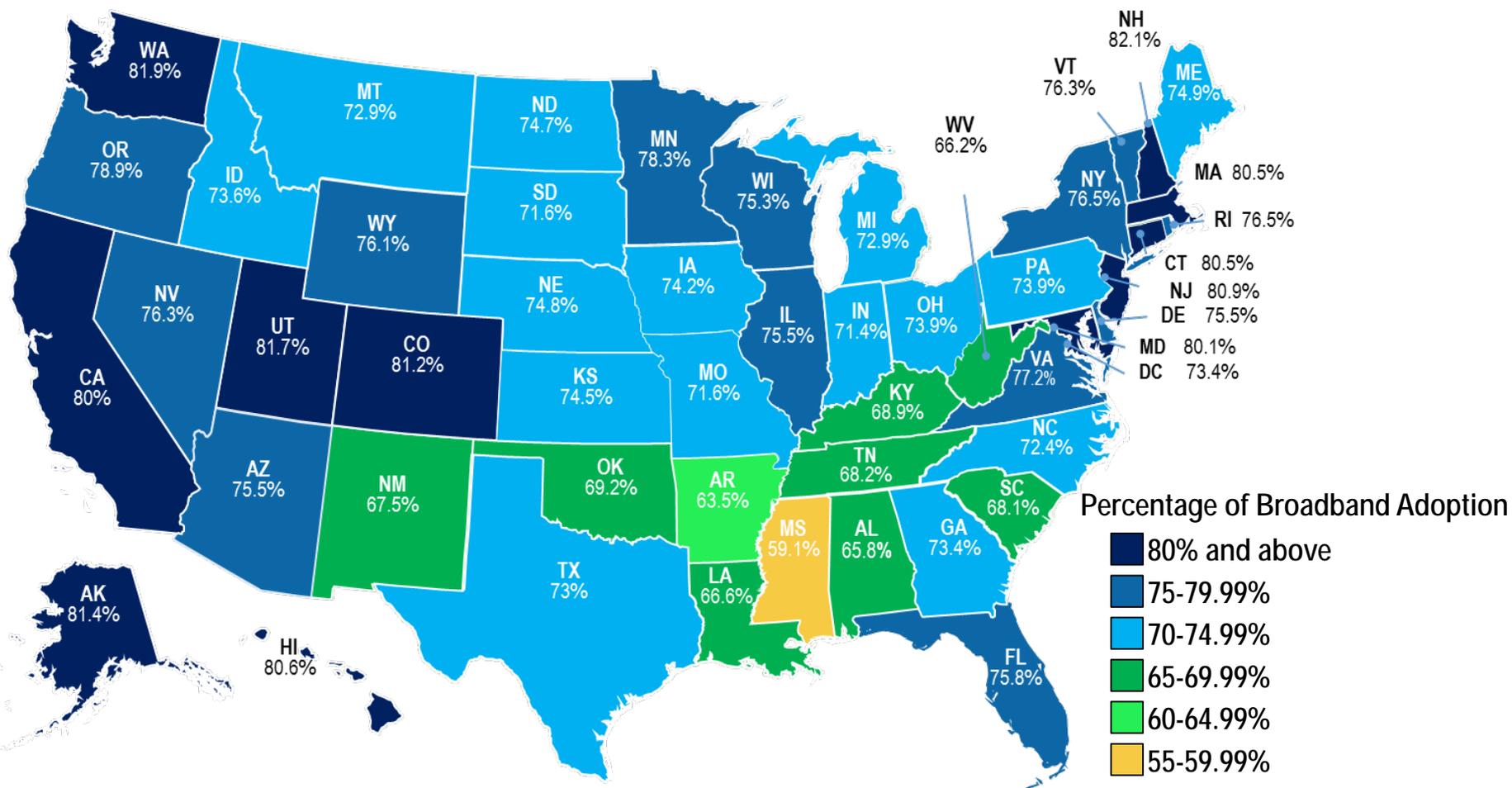


More than the total population of Oregon

Observations from ASR Analytics independent analysis of the social and economic impacts of BTOP projects

- Expected to yield \$5.7 - \$21.0 billion in increased annual economic output
- Expected to create more than 22,000 long-term jobs and generate more than \$1 billion in additional household income each year.
- Created 79,000 year-long jobs during implementation, with an associated economic output of \$12.9 billion. Thus, \$1 in BTOP spending yielded \$2.81 in total output.

Still, nearly 30 million American households don't subscribe to broadband at home



Source: U.S. Census Bureau, American Community Survey, released 2014

What are BroadbandUSA's Goals?

BroadbandUSA serves as a strategic advisor to help communities implement broadband deployment and digital inclusion programs to drive economic development, advance education and healthcare, support public safety and expand access to government services.

Connecting America's Communities

- Helping communities expand local broadband connectivity and access
- Ensuring robust bandwidth for schools, libraries, hospitals, government buildings and other community anchor institutions
- Promoting next-generation, gigabit-capable networks

Getting Americans Online

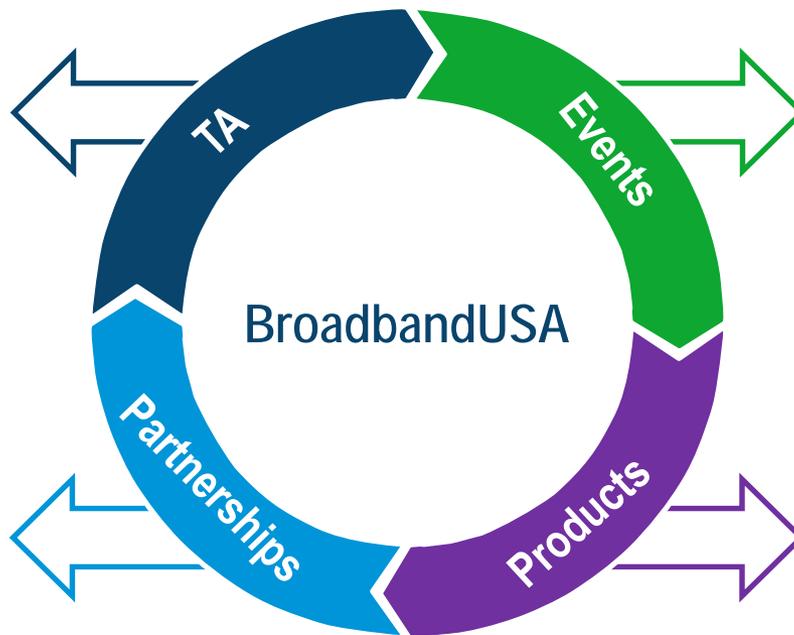
- Advancing digital literacy training and broadband adoption efforts to close the digital divide among vulnerable populations
- Supporting programs to provide online job search assistance and help small businesses get online
- Promoting programs to provide subsidized computer equipment and low-cost access to those who otherwise couldn't afford it

Promoting Economic Development

- Ensuring communities have advanced, high-speed telecommunications networks to attract businesses, create jobs and drive growth
- Supporting local efforts to deploy cutting-edge infrastructure needed to compete in the 21st Century economy
- Connecting rural communities to broader resources and opportunities

How will BroadbandUSA achieve these goals?

Direct, hands-on assistance to communities interested in planning and implementing broadband initiatives.



Established partnerships with federal and state governments, industry organizations and broadband thought leaders.

Events that bring together government officials, community leaders and other broadband stakeholders to share real-world broadband success stories and lessons learned.

Products that incorporate best practices and guidance proven by BTOP, SBI and other BroadbandUSA partners.

What types of technical assistance will BroadbandUSA offer?

Group Technical Assistance

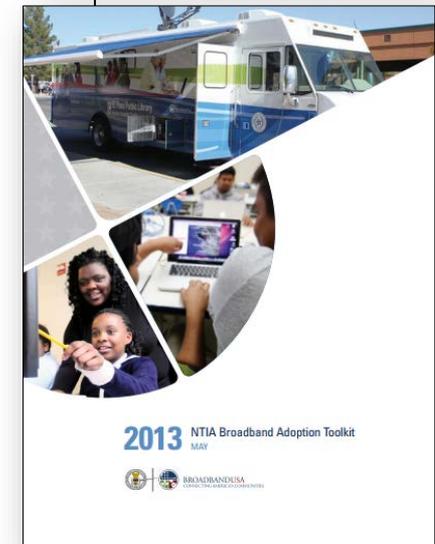
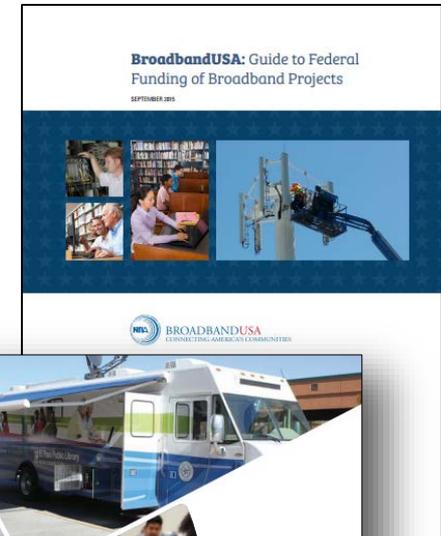
- Deliver broadband support to state, local and federal officials, community leaders, and other groups of broadband stakeholders
- Emphasize real-world broadband success stories, lessons learned, and cross-cutting broadband issues
- Can be customized for partners, specific programs, regions, or states

One-to-One Technical Assistance

- Direct, hands-on assistance to communities planning and implementing broadband initiatives
- Provide specific support for Federal and public-private partnership opportunities
- Connect communities with Federal funding opportunities
- Deliver specific recommendations for individual broadband programs (planning, funding, design, implementation, sustainability, etc.)

BroadbandUSA Guides and Tools

- **Broadband Adoption Toolkit:** Shares NTIA's expert knowledge and experience from broadband adoption and computer training projects
- **Federal Funding Guide:** Provides details on programs offered by federal agencies that fund broadband for specific purposes
- **Public-Private Partnerships Guide:** Provides an overview of common broadband partnerships, the factors communities should consider in developing a successful partnership model, and tips and best practices
- **Local and Tribal Government Guides:** In the coming months, BroadbandUSA plans to release guides aimed at supporting local and tribal governments as they develop broadband programs.



Broadband Opportunity Council

Established by Presidential Memorandum on March 23, 2015

- Co-chaired by DOC and USDA, with 25 member agencies
- Focused on Executive Branch potential for action
- Aims to coordinate federal policies to promote broadband deployment and adoption



- Addressing regulatory barriers
- Encouraging public and private investment
- Promoting broadband adoption and meaningful use
- Supporting broadband deployment, competition and adoption

Broadband Opportunity Council- Report to the President

Describes 36 immediate actions, with associated milestones, that Federal agencies have committed to undertake

- Four key themes:
 - Modernize Federal programs to expand program support for broadband investments
 - Empower communities with tools and resources to attract broadband investment and promote meaningful use
 - Promote increased broadband deployment and competition through expanded access to Federal assets
 - Improve Data Collection, Analysis and Research on Broadband

Modernize Federal programs to expand program support for broadband investments

Agencies will take 13 actions to clarify eligibility of funds for broadband purposes in Federal grants and loans – valued at \$10B

Examples include:

- Treasury: guidance that broadband is eligible for New Markets Tax Credit Program
- RUS: new broadband policies, guidance and barrier removal for Community Facilities, Rural Business Cooperative Service Business and Industry, Rural Utilities Service Electric Smart/Grid and Rural Utility Service Infrastructure program
- EDA: updated regulations so broadband planning and deployment is identified as a national priority

Modernize Federal programs to expand program support for broadband investments (continued)

- DOL: clarification that broadband service within one stops / American Job Centers is an allowable expense
- HHS: to provide \$25 million in new grants to advance Health Centers' use of health IT
- DOJ: to issue clarifying that the Justice Assistance Grant (JAG) program allows funding for broadband deployment and adoption related to criminal justice activities
- HUD: to indicate that broadband is an eligible infrastructure expense for a number of programs including Community Development Block grants, Indian Community Development Block Grants, Housing Trust Fund, HOME Investment Partnerships Program, Housing Opportunities for Persons With AIDS, Emergency Solutions Grant

Empower communities with tools and resources to attract broadband investment and promote meaningful use

Examples

- Community Connectivity Initiative (i.e. Connectivity Index)
- One-stop portal for information about Federal broadband programs
- Promote dig-once policies across multiple agencies
- Tribal connectivity initiatives (e.g., Tribal Broadband Summit; DOI tribal schools connectivity initiative)
- HHS to promote the use of broadband for healthcare organizations and consumers
- IMLS to develop a network assessment toolkit and technical assistance program for rural and Tribal libraries and provide assistance on Wi-Fi deployment

Promote increased broadband deployment and competition through expanded access to federal assets

Examples:

- DOT to develop and disseminate policy guidance defining broadband flexibilities within highway rights of way, including the use and valuation of excess fiber capacity within Intelligent Transportation Systems (ITS); shared use of fiber, conduit and other assets
- DOI/USDA: Explore strategies to create efficiency and consistency in Section 106 review for broadband projects
- DOI to develop an initiative to leverage over 4,000 towers and other assets on DOI-managed property to support broadband deployments.

Improve data collection, analysis and research on broadband

- Develop a “Broadband Research Agenda”- NSF and NTIA developing comment processes
- NSF and other Federal departments and Agencies to develop a new round of application ideas to demonstrate benefits that can be gained by expanding gigabit broadband networks
- Dept. of Education will use existing data collection tools and vehicles to assess and compile better national data about student access to technology in school and at home

Community Connectivity Index and Initiative

- Goal: Empower communities with strategies that increase broadband access, adoption, and use.

Self-Assessment Tool

Report, Recommendations and Index

Planning and Implementation Support

National Community of Practice

Self Assessment Tool

Access

- Wireline and fixed wireless availability and speed
- Technology
- Wireless coverage
- Nearest fiber POP
- Redundant backhaul
- Community assets
- Price per Mbps

Adoption

- Wireline subscribers
- Wireless data subscribers
- Public access computers
- Digital literacy training
- Government funding for inclusion
- Integration with other social services

Policy

- Dig once
- Rights-of-way
- CIO responsibility
- Broadband planning team/ or function
- Public asset use
- GIS mapping
- Permitting shot-clock
- Staff/funding for public access and training

Use

- Education: school connectivity, online courses, tech curriculum
- Health: e-records, telehealth
- E-Gov: online 311, proceedings, permitting, payments
- Economic Development: tech incubator

Timeline

1Q16

- Engage partners and align resources
- Develop Indicators
- Identify pilot communities

2Q16

- Alpha Pilot– Test drive indicators in communities
- Translate recommendations into action
- Assessment instrument design; evaluate and refine

3Q16

- Create online assessment
- Develop peer assessment methodology
- Plan for national community of practice

4Q16

- Launch online tool – Beta Pilot
- Refine assessment actions, ecosystem
- User test online assessment tools

1Q17

- Rollout national program
- Collect aggregate data and develop peer analysis
- Establish change process

Partnerships Key to Success

- **Community Partners**– Design and test the tool
- **Organizational Partners**– Scale to reach communities across the country
- **Philanthropic and Business Partners** – Provide direct support to communities
- **Federal Partners**- All of the above– Design, scale, and support



Federal, State, Regional, Local Collaboration

Examples:

NTIA's Model Cities Spectrum Management Initiative

NIST and US Ignite's Global Cities Program

HUD's ConnectHome

BTOP, CT and Regional Councils of Governments

DOT's Smart City Transportation Program

NYS, Ok, KY and CA Broadband Initiatives

ConnectEd

Ways to contact BroadbandUSA

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- Website: www.ntia.doc.gov/broadbandusa

