



BROADBAND USA

Looking Forward by Looking Back Local, State and National Broadband Efforts

April 14, 2015 – Broadband Communities

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NTIA is Completing \$4.2B in Grants that Invested in Communities and States



Infrastructure - 109 Grants
 Construct or upgrade broadband networks to connect unserved and underserved areas



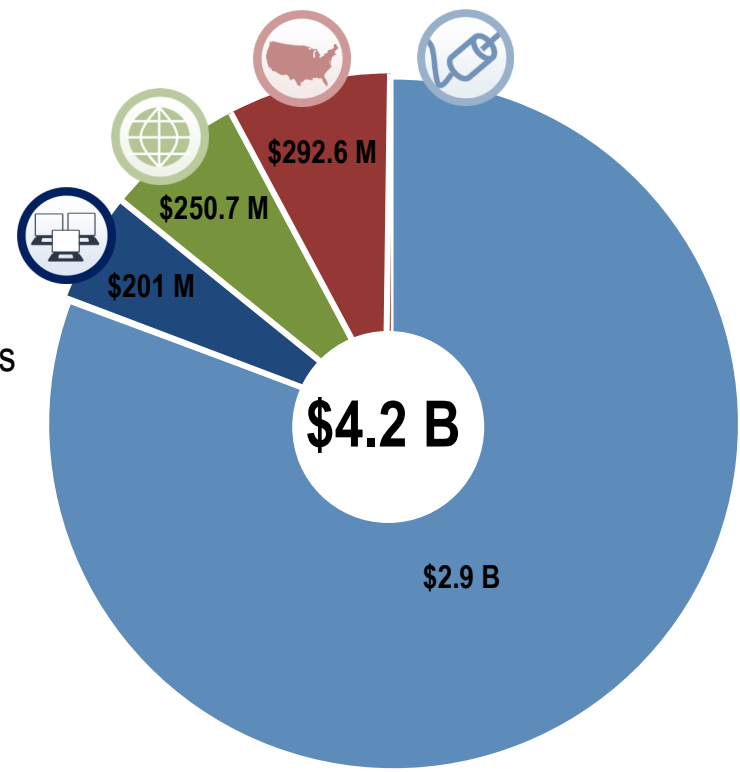
Public Computer Centers - 66 Grants
 Provide access to broadband, computer equipment, computer training, job training, and educational resources



Sustainable Broadband Adoption - 44 Grants
 Promote broadband adoption, especially among vulnerable population groups



State Broadband Initiative - 56 Grants
 Funded collection of first open dataset for broadband availability information, and funded local and state planning efforts, Gov 2.0 activities, and train-the-trainer programs





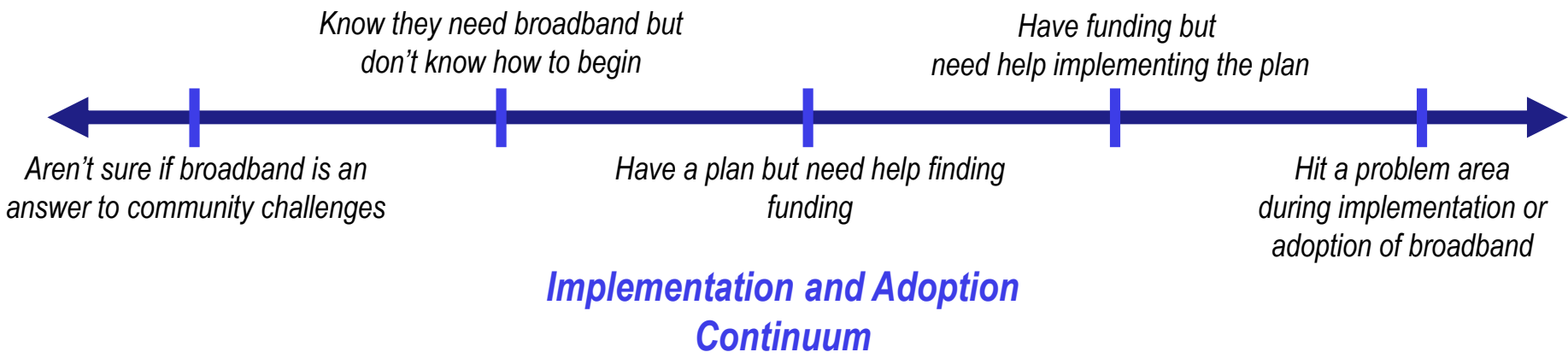
What will NTIA do?

- NTIA created BroadbandUSA to **provide assistance to communities** that want to improve their broadband capacity and use broadband more effectively.
- NTIA **provides expert, impartial advice and field-proven tools** for assessing broadband adoption, planning new infrastructure, and engaging a wide range of partners in broadband projects.
- **BroadbandUSA brings stakeholders together** to solve problems, contribute to emerging policies, link communities to other federal agencies and funding sources, and address barriers to collaboration across agencies.





BroadbandUSA Will Assist Communities In A Variety Of Ways



NTIA Is Developing Useful Products And Tools

Broadband Adoption Toolkit



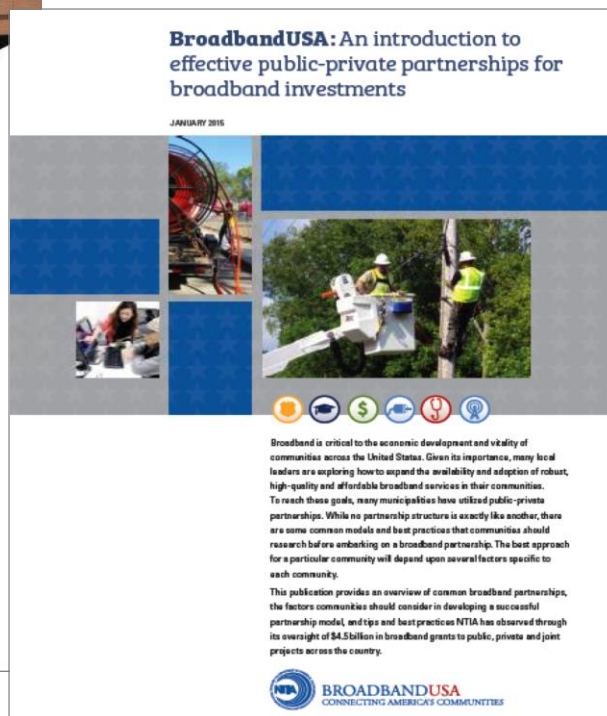
2013 NTIA Broadband Adoption Toolkit
MAY



Public Private Partnership Primer


BroadbandUSA: An introduction to effective public-private partnerships for broadband investments

JANUARY 2015



Broadband is critical to the economic development and vitality of communities across the United States. Given its importance, many local leaders are exploring how to expand the availability and adoption of robust, high-quality and affordable broadband services in their communities. To reach these goals, many municipalities have utilized public-private partnerships. While no partnership structure is exactly like another, there are some common models and best practices that communities should research before embarking on a broadband partnership. The best approach for a particular community will depend upon several factors specific to each community.

This publication provides an overview of common broadband partnerships, the factors communities should consider in developing a successful partnership model, and tips and best practices NTIA has observed through its oversight of \$4.5 billion in broadband grants to public, private and joint projects across the country.



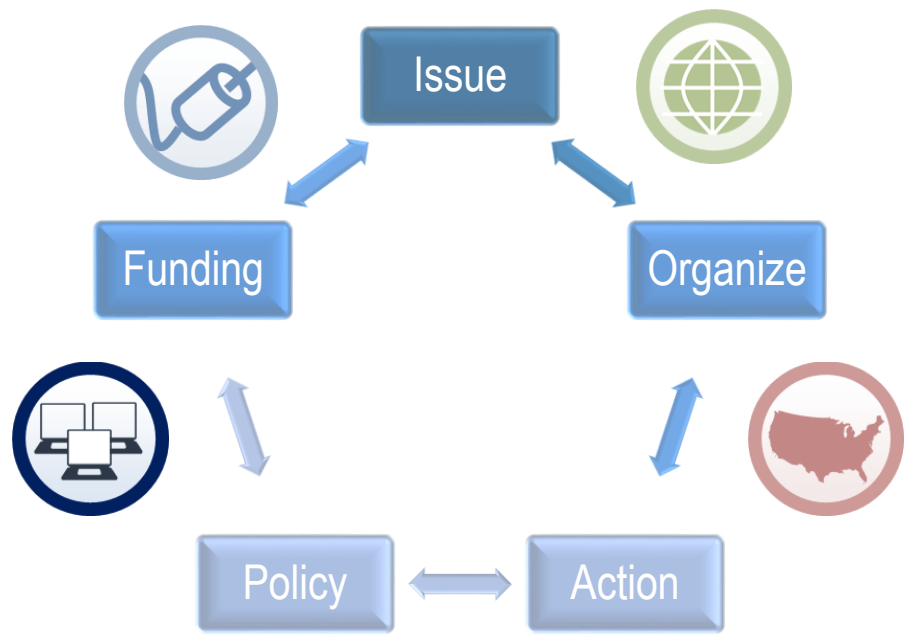
Primer Includes Tips on–

- Getting Started
- Best Practices
- Case Studies

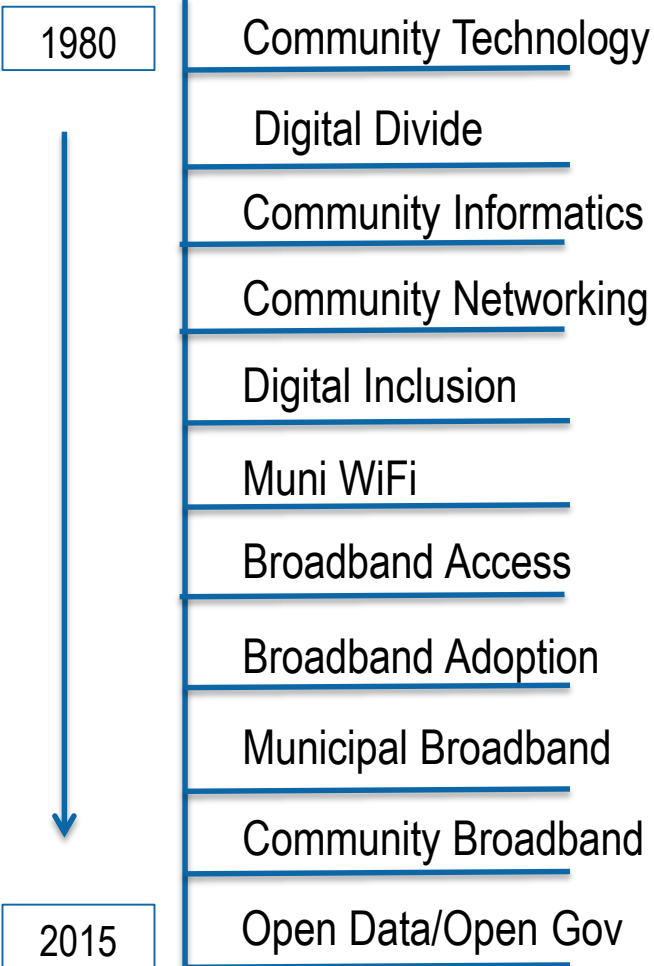
Download it today:

<http://1.usa.gov/1kve40F>

How Did We Get Here?



Historical Issue Areas



Computers, Internet, Media, Tablets, Smartphones, Devices

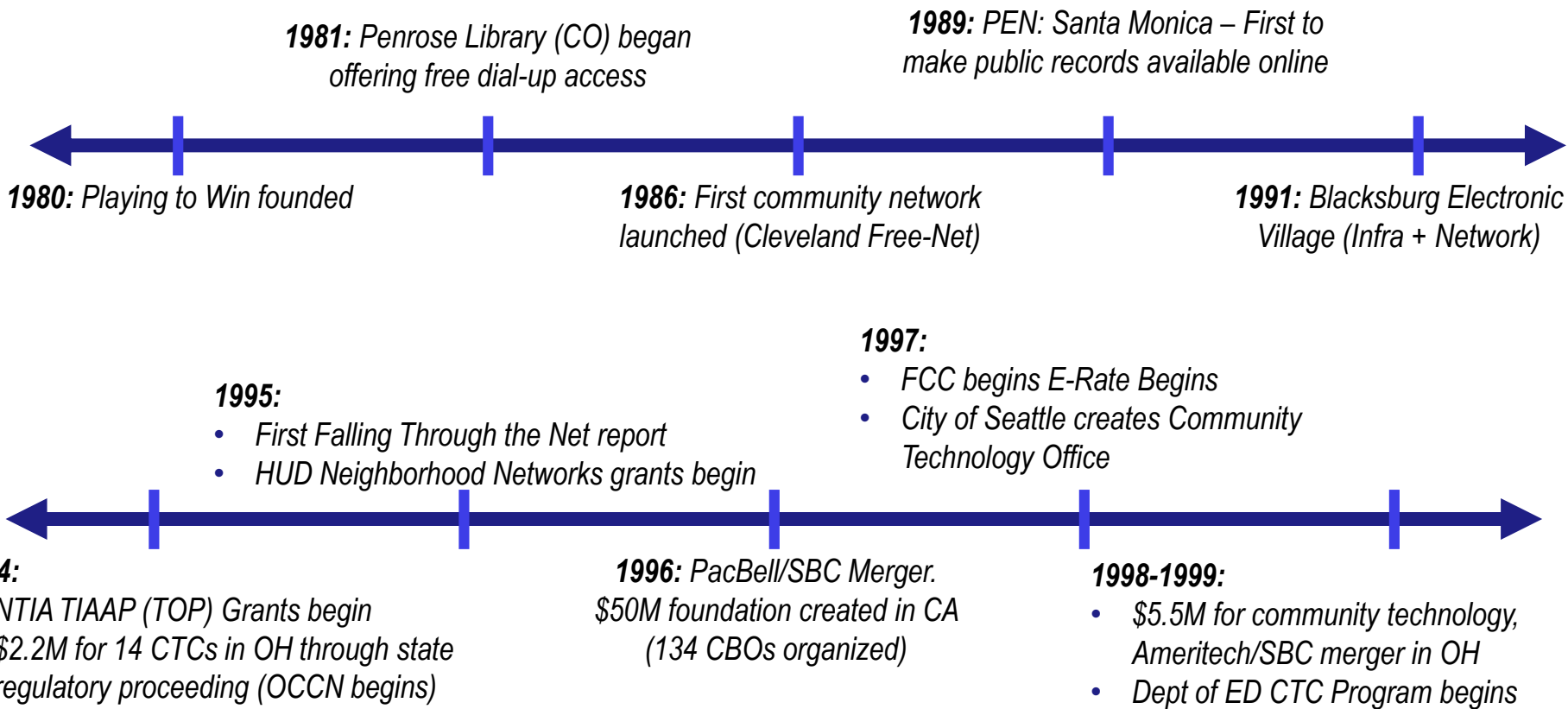
Devices: Community Technology Centers, Home, Public Computing Centers, Makerspaces, Fablabs
Infrastructure: Dial-up, broadband, Internet, IOT

Technology Access and Adoption

Digital Literacy (basic), Information Literacy (advanced), Content and Technology Creation



Evolution of a Movement: 1980-2000



Themes from 1980-2000

Institutions

- Non-profits
- Libraries
- Universities (Particularly Free-Nets)
- Government



Multiple Centers of Leadership



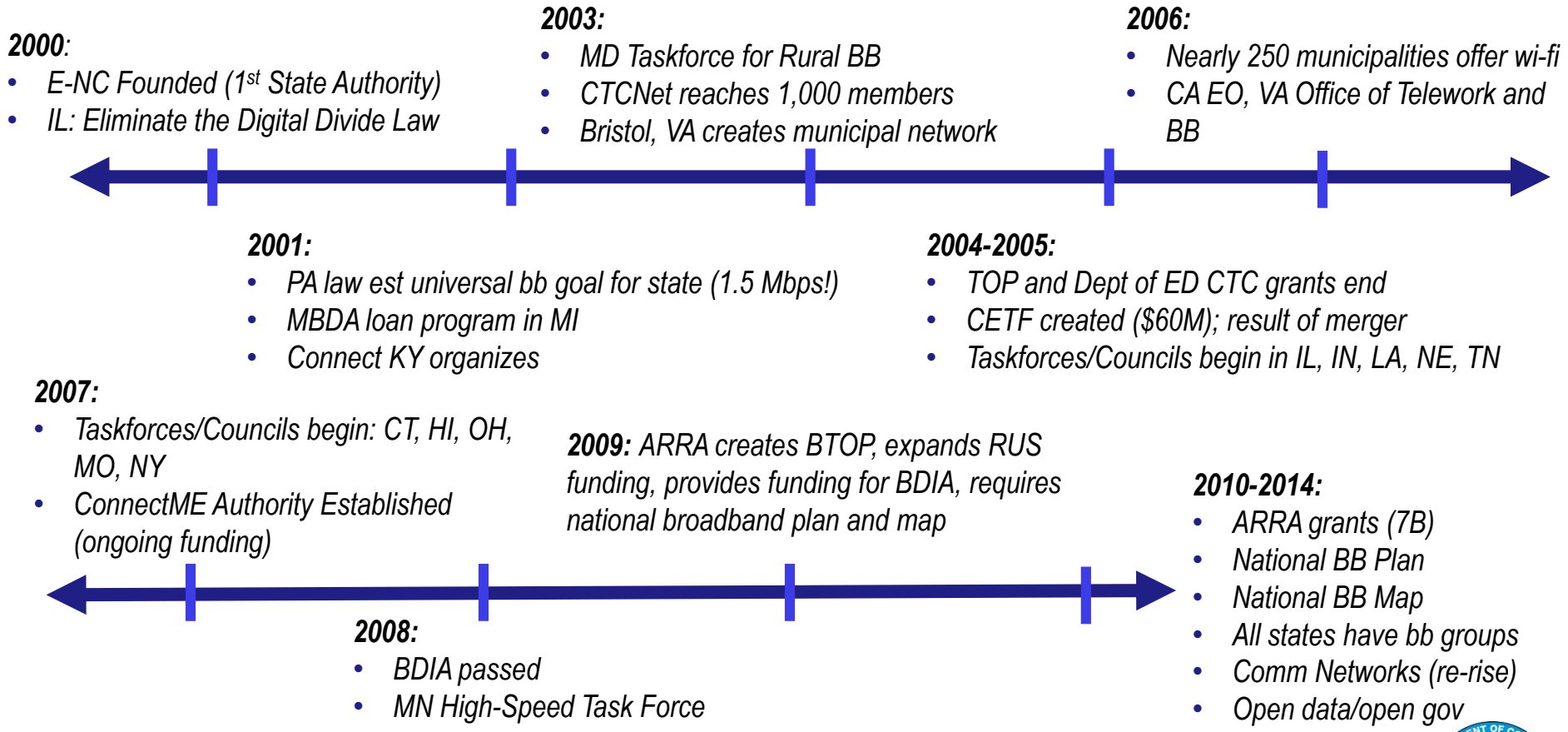
Influences

- Media Access
- Cable Access
- State High-Speed Education Networks
- Social Justice Organizations

Different Levers:

- Institutional support to community
- Authoritative research/policy proposals
- Community organizing/political pressure
- Funding

Evolution of a Movement: 2000-2014

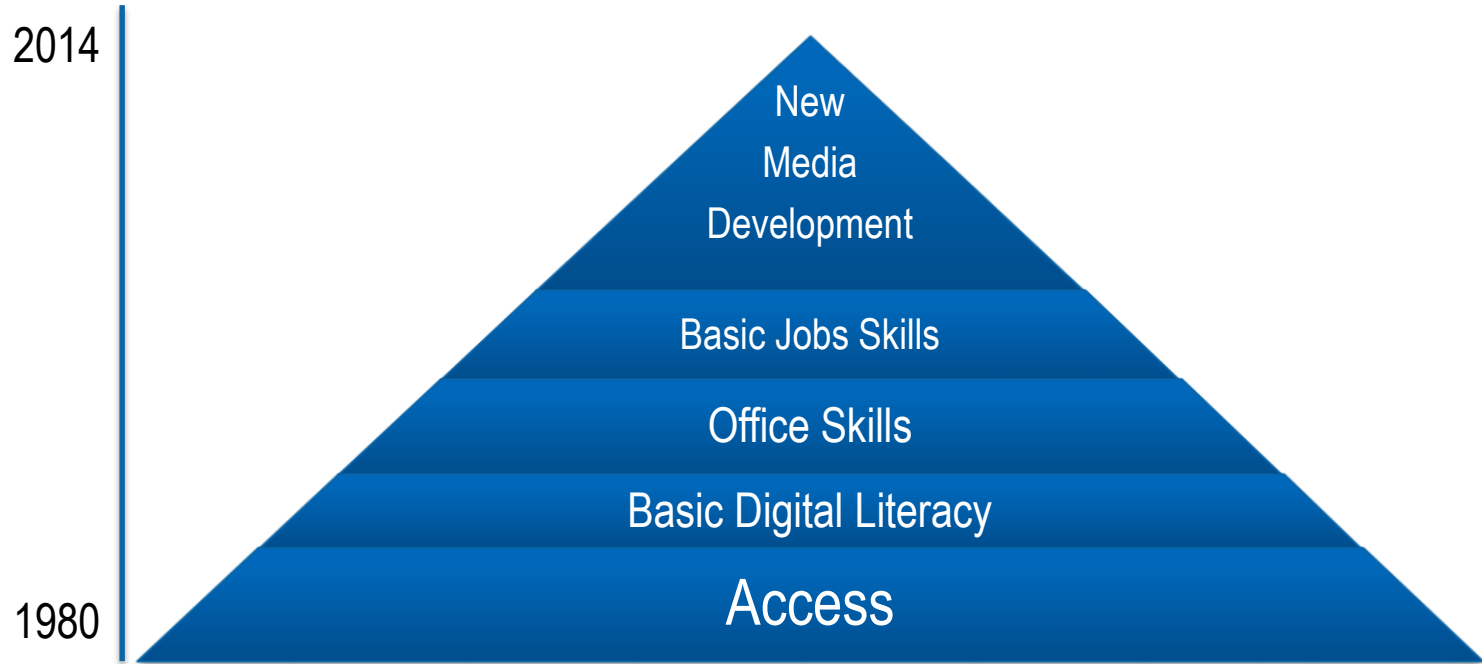


2000-2014: Frequent Change and Shifts in Leadership



- Free-Nets decrease, municipal wifi increases (and decreases again), next gen of community networks
- Non-profits and libraries organize and share resources
- Funding available, decreases, massive injection through ARRA
- State policy successes/organizing inform federal policy,
- State policy efforts increase even when federal funding decreases...from 2004-2009; what will happen after 2015?

Building Blocks of Access and Training: All continue to be important



Infrastructure Options for Communities: Increase with Technology Advancements

Today's community broadband movement: Fiber, Wireless, Middle Mile, Last Mile, Local and Regional

1980s-1990s
Dial-up Access
and Free-Nets

1980s to Today
Creation and
Expansion of
Local and
State Networks

Early to Late
2000s
Muni Wi-Fi

1990s-2000s
Wired
Infrastructure
and
Community
Networks

What does the next phase of the continuum look like?



Access:

- Home Deployment
- Institutional Deployment
- Wireless
- Mobile



Adoption:

- PCCs/CTCs
- Maker Spaces
- Fab Labs
- Devices
- Mobile Apps



Training:

- Digital Literacy
- Coding
- Robotics
- Online Media



Issues:

- Speed, Quality, Price
- Content: Availability, Diversity
- Open data/Open Gov → Civic Technology
- Privacy



Local, State, Federal Policy / Funding + Philanthropic Funding

This is all
ALONGSIDE
continued
private-sector
investment,
advances

Look at the past as you consider the future



Access: Community access came first, then the demand for broadband in every home

Training: Community access came first – and stayed – recently, rise of the MOOC and similar.

What's the right model? What's next?

Infrastructure: Access to a network (Free-Nets), Municipal-supported network, wi-fi, community networks (fiber, wifi, mesh)

Are these the right models? What's Next?

What You Can Do



Big Picture

- Examples: P2W (access + training), Penrose Library (public access) , E-NC (policy and organizing), Cleveland Free-Net (access), Santa Monica (open gov)
- They thought ahead. What's ahead for you?



Connect w Newer Organizations Working in Similar Spaces (Education goes both ways)

- Civic Tech
- Open Data
- Maker Spaces
- Fab Labs
- Incubators



Communicate about the need for technology access adoption in language that resonates in today's discussions.



What Will You Do?



DISCUSSION





NTIA Broadband Resources

“Broadband has become a cornerstone of economic growth, providing Americans the tools they need to participate in the rapidly growing digital economy.” Lawrence E. Strickling, Assistant Secretary of Commerce for Communications and Information and NTIA Administrator

Resource	Website
BroadbandUSA	http://www2.ntia.doc.gov/
State Broadband Initiative	http://www2.ntia.doc.gov/SBDD
National Broadband Map	http://www.broadbandmap.gov
NTIA Broadband Adoption Toolkit	http://www2.ntia.doc.gov/files/toolkit_042913.pdf
BTOP Economic & Social Impact Study	http://www2.ntia.doc.gov/btop-reports#evaluation
NTIA Public-Private Partnership Guide	http://www2.ntia.doc.gov/files/ntia_ppp_010515.pdf

