



The Recovery Act highlighted broadband as a key factor for promoting economic growth



Recovery Act - Jumpstart the nation's economy, create or save millions of jobs, and make a down payment on addressing long-neglected challenges so that the country can thrive in the 21st century



BTOP - Harness the power of broadband technology to promote economic growth, create jobs, and lay the foundation for long-term prosperity for all Americans





BTOP's portfolio includes five grant types



Infrastructure

Construct broadband networks to connect unserved and underserved areas



Public Computer Centers

Provide access to broadband, computer equipment, computer training, job training, and educational resources



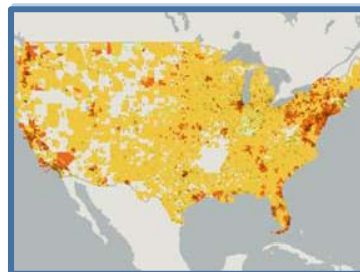
Public Safety

Deploy public safety broadband projects to support development of a nationwide, interoperable public safety wireless broadband network



Sustainable Broadband Adoption

Promote broadband adoption, especially among vulnerable population groups



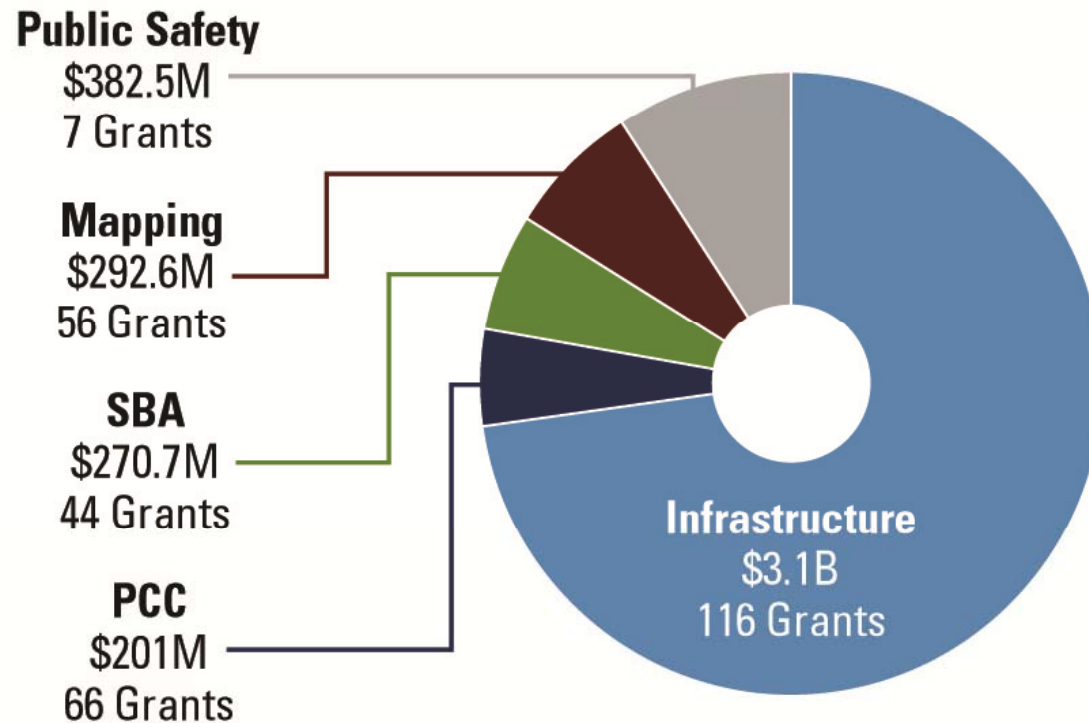
State Broadband Data and Development

Gather data for use in a publicly searchable, interactive national broadband map



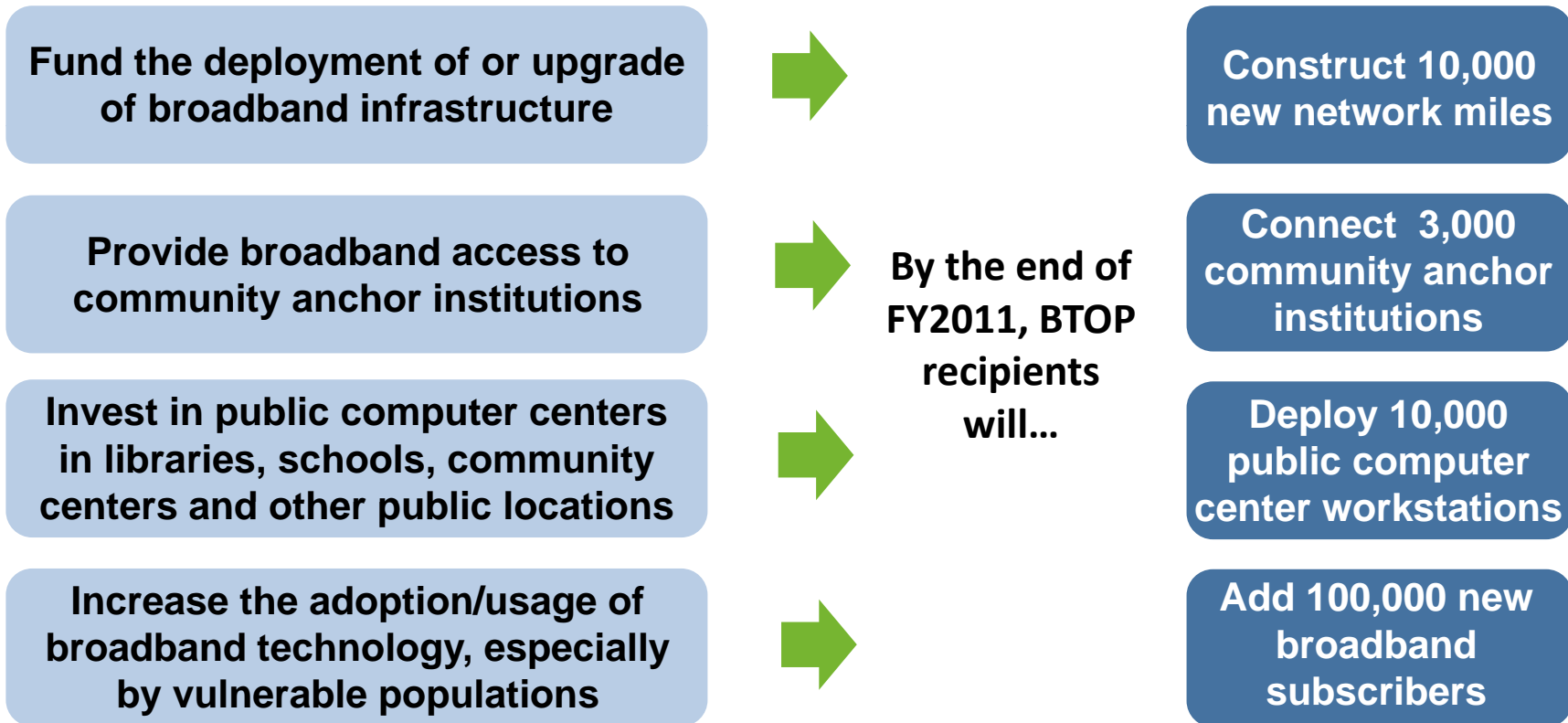


In total, \$4.2 B in funding was distributed to 289 recipients across the five grant types





Recipients are actively reaching major program objectives





BTOP projects can offer valuable assistance that augment non-profit IT educators' objectives

DIGITAL LITERACY.GOV



- Share digital literacy content and practices
- Start discussion threads to share ideas
- Recommend resources/websites
- Collect published reports and articles
- Rate and provide instant feedback on resources

NTIA.DOC.gov/broadbandusa



- Find local BTOP projects using the database
- Offer/request support that aligns to their project goals
- Use BTOP resources like the Stakeholder Outreach and Sustainability toolkit for your own projects





U.S.UCAN

United States Unified Community Anchor Network

Planned 100 Gigabit National Network (DRAFT)

operated by **INTERNET2**



NETWORK PARTNERS

ciena

CISCO

INDIANA UNIVERSITY

infinera

JUNIPER

Level(3)



Made Possible by the Broadband Technology Opportunities Program

Funded by the American Recovery and Reinvestment Act of 2009





Broadband is an important public good
Decentralized, bottom-up innovation
wired, wireless, build, lease,...
Move beyond R&E to CAIs to consumers
when unserved or underserved
when service is “too expensive”
New competition for carriers
Enforce net neutrality (with flexibility)
even on RENs
Not an experiment, must be sustainable
RENs must stretch business models





Federal Networking and Information Technology R&D Program



(with PCAST UPDATE)

Mark Luker, Assoc. Dir. NCO
March 18, 2011



Member Agencies

- DoC
 - NOAA
 - NIST
- DoD
 - DDRE
 - HPCMO
 - DARPA
 - Service Res Orgs
- DoE (SC & NNSA)
- DHS
- EPA
- HHS
 - AHRQ
 - NIH
 - ONC (new member)
- NARA
- NASA
- NSA
- NSF (CISE & OCI)

NITRD SSGs

(senior steering groups)

- Cybersecurity -> CSIA
- Health IT R&D -> HITRD
- Wireless Spectrum Efficiency -> WSRD
- Big Data (aka data-intensive sci) -> BD
- Energy and Transportation?

Wireless Spectrum R&D

June 28, 2010 [Presidential Memorandum: Unleashing the Wireless Broadband Revolution](#)

- NITRD NOT involved in reallocation of spectrum
- Instead focus on Section 3 on R&D:
 - Inventory of 600+ recently completed and/or ongoing wireless spectrum research and development projects in the 2006-2010 timeframe.
 - Gap analysis of that inventory.
 - Consult with academic and private sector researchers to confirm this analysis.
 - Recommendations for future research needs.