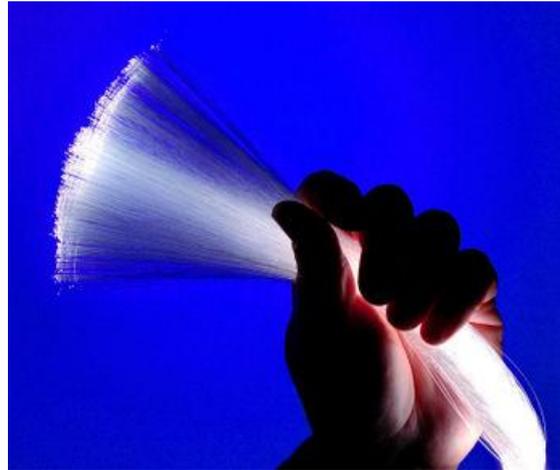


NEW MEXICO BROADBAND PROGRAM

State Broadband Initiative

Interim Jobs Council

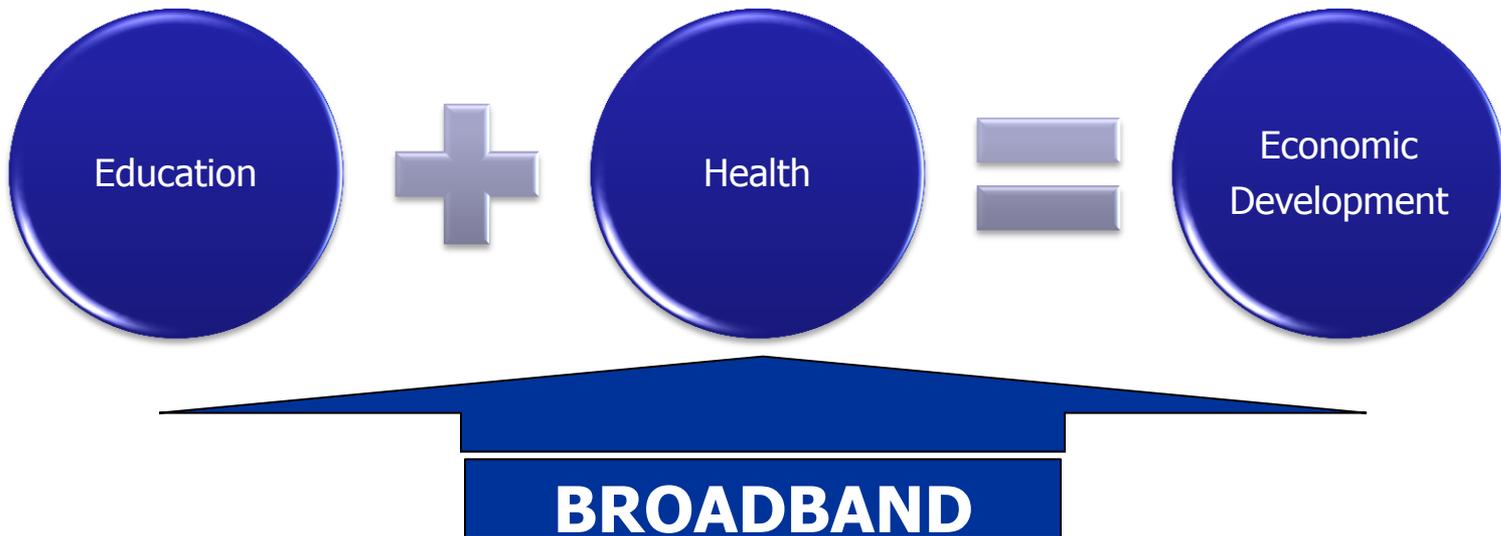
September 2015



The Internet Highway

NMBBP: Essential Utility

- Broadband – Essential Utility
 - Education, Healthcare, Jobs, Social Services, Auto Registration, Purchases, Education, Food Stamps, Healthcare, Scheduling, Motor Vehicle, Medicare, Taxes, Payments, Research, Weather, Investments, Retirement, Financials, Advocacy, Donations, Registration, Marketing, Business, Emergency Services, Family and more.



NMBBP: Broadband Defined

■ Basic

- Size of the pipe (bandwidth) dictates performance (speed)
 - Analogy to transportation: Interstate, Highway, Collector

■ Speed

- Download/Upload speed - megab**its** per second (mbps)
- FCC Broadband defined – 4/1 to 10/1 and now 25/3 mbps

Glossary of Terms

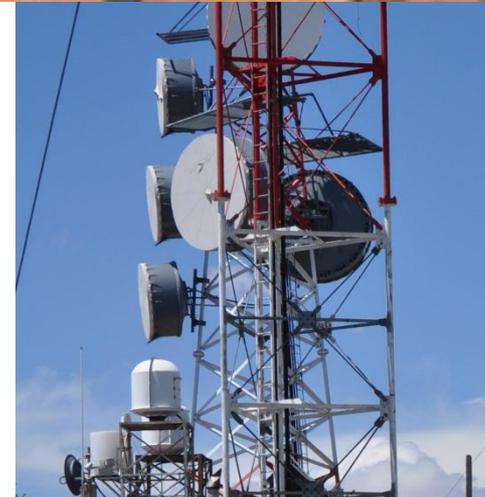
- **Bandwidth:** the rate at which data can be transmitted between your computer and the testing servers.
- **Kbps or KB/sec:** kilobits per second - a measure of Bandwidth. File sizes are normally indicated in terms of "bytes"; one byte is equal to 8 bits. In other words, 1000 kilobits per second is equal to 125 kilobytes per second.
- **Mbps or MB/sec:** Megabits per second - another measure of Bandwidth. One Megabit is equal to 1024 kilobits.
- **Packet:** a unit of data capable of being routed through a computer network.
- **Latency:** the time it takes for a single packet of data to be sent from your computer to the testing server and back (the "round trip" time). This is measured in milliseconds, or thousandths of a second.

Broadband Speed Chart

Download Speed	Activity
768 Kbps - 1.5 Mbps	Basic Email, Voice over Internet (VoIP), Web Browsing, Streaming Music, Video Streaming
1.5 Mbps - 3 Mbps	Telecommuting, Video Conferencing, Standard Definition Video streaming
3 Mbps - 6 Mbps	Enhanced-definition and High-definition Video streaming, File Sharing (medium/large)
6 Mbps - 10 Mbps	Video On-Demand, Gaming
10 Mbps - 25 Mbps	Telemedicine, Remote Education
25 Mbps - 100 Mbps	Educational Services, HD Surveillance
Greater than 100 Mbps	Educational Services, Research Applications, Remote Supercomputing

NMBBP: Technology Types

- Technology Types to Deliver Broadband
 - Digital Subscriber Line (DSL)
 - Copper Wireline (T1)
 - Satellite
 - Mobile Wireless
 - Fixed Wireless
 - Cable
 - Fiber



NM BROADBAND PROGRAM

- NTIA Funds – Completed January 2015
 - Total Federal Award: \$4.8M (Jan 2010)
 - State Match: \$1.2M (20%)



- Grant Components

- Mapping
- Planning
- Capacity Building
- Technical Assistance



NEW MEXICO
DEPARTMENT OF
INFORMATION TECHNOLOGY



- Contracted Services

- Twelve Contractors (One Out of State)
- No Government Growth
- Leverage Funds for NM



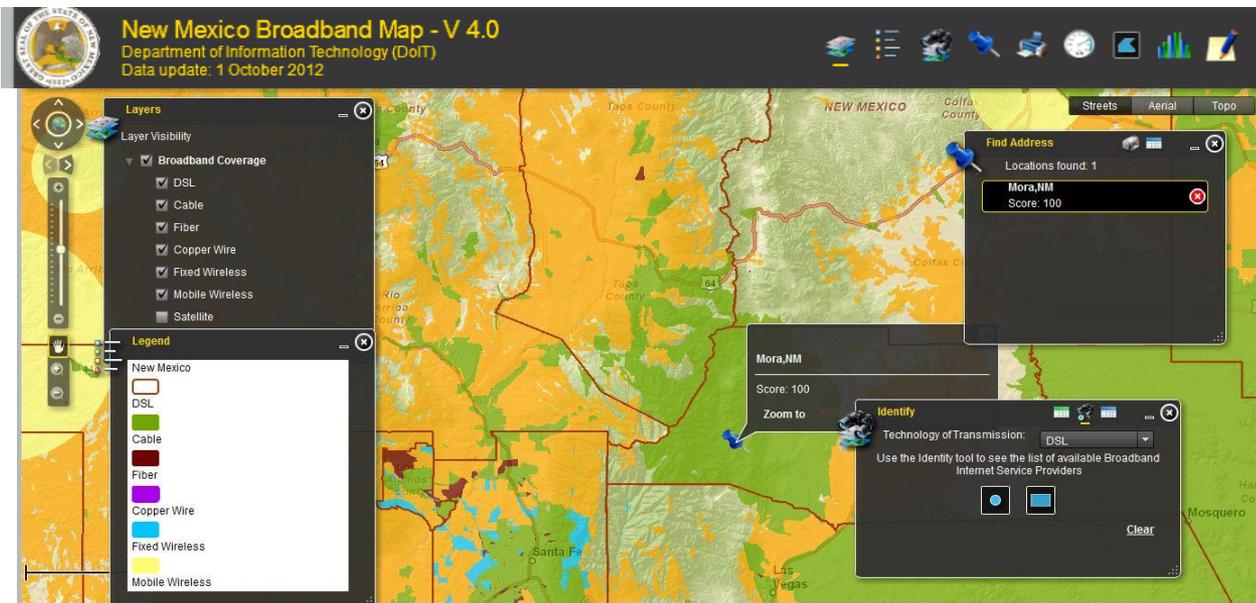
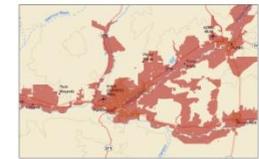
BROADBANDUSA
CONNECTING AMERICA'S COMMUNITIES

- Accomplishments Exceeded Detailed Project Plan



NMBBP: Mapping

- New Mexico Broadband Map (Availability)
 - Source – Internet Provider Data
 - Type of Technology
 - Provider Service Area and Contact
 - Search – Address, Community, Area, or Point
 - Speed Test



NMBBP: Capacity Building



■ Coordination

■ Broadband Executive Committee

- BEC Members: http://www.doit.state.nm.us/broadband/exec_committee.shtml

■ Broadband Working Group

- Working Group Info: http://www.doit.state.nm.us/broadband/bb_workgroup.shtml

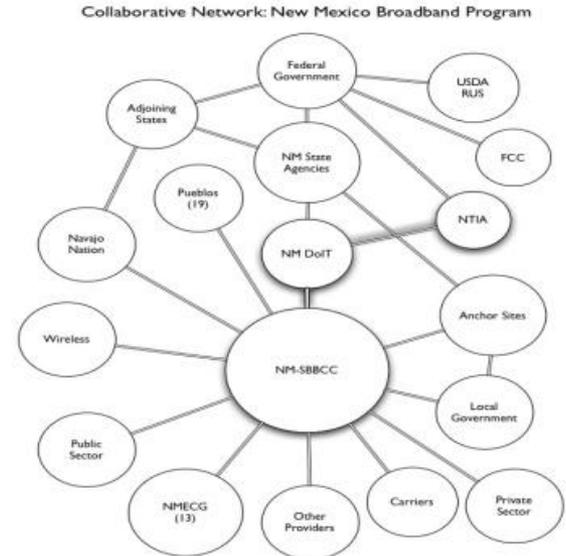
■ Health, Education, Economic Development

■ Professional Groups

- NM TeleHealth Alliance
- PSFA IT Advisory Group
- Schools, Health, Library Broadband Coalition

■ Federal, State, and Local

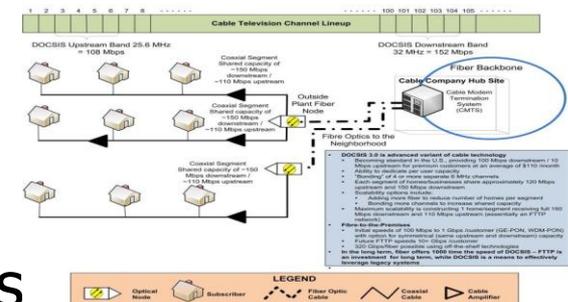
- NM Association of Counties
- NTIA State Broadband Leaders Network
- State Inter-Agency Agreements



NMBBP: Planning



- Statewide Strategic Plan
 - Action Document
 - Issues, Gaps, and Actions (Solutions)
 - Administrative Structure, Governance, Industry, and Funding
 - Major Sectors: Education, Health, Economic Development
- Broadband Education/Training Strategic Plan
 - Statewide Recommendations and Educational Portal
- Strategic Business Sector Plans
 - Business Sectors: **Health, Education, and Economic Development**
 - Regional Implementation Plans
 - Southwest New Mexico Council of Governments
 - Northeast Economic Development Organization
 - Northwest New Mexico Council of Governments
- Nearly Thirty (30) Reports and Fact Memos



NMBBP: Technical Assistance

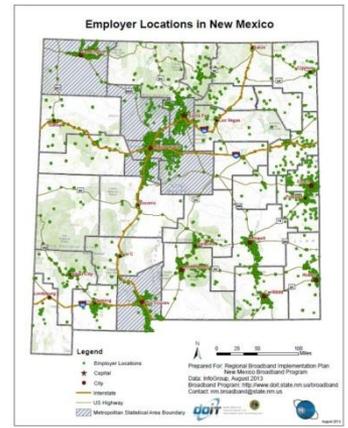
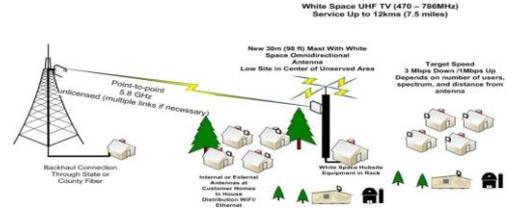
- Technical Assessment

- Associated General Contractors New Mexico: Career and Training Center
- Gallup Broadband Collaborative: Technical Design
- Electric Cooperative: Feasibility Study for FTTH Deployment



- Technical Support

- Town of Galisteo Broadband Enhancement Project
- TV White Space Pilot for Rural New Mexico
- International Company NM Call Center
- Co-location Analyses for Industry, Schools, and Libraries
- Radio Frequency Propagation/Performance Analyses of Public and Private Telecom Sites
- FCC CAF (Connect America Fund) Feasibility Analyses for Industry
- NM Community Broadband Master Plan Guide
- NM Broadband Guide for Electric Utilities
- Business Survival Rates
- CASA (Community Anchor Site Assessment)



- New Mexico Connect - Relevancy

- One Stop Broadband Education and Training Site
- Business on the Web Training
- How To: Business Cards, Marketing, etc.

NM Broadband Videos: <http://www.youtube.com/NMBroadband>
 Public Internet: <http://www.nmbbmapping.org/pita/>
 Digital Literacy: <http://nmconnect.org/>

THANK YOU



NEW MEXICO
DEPARTMENT OF
INFORMATION TECHNOLOGY



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Broadband Portal: <http://www.doit.state.nm.us/broadband/index.shtml>



**National Telecommunications
and Information Administration**