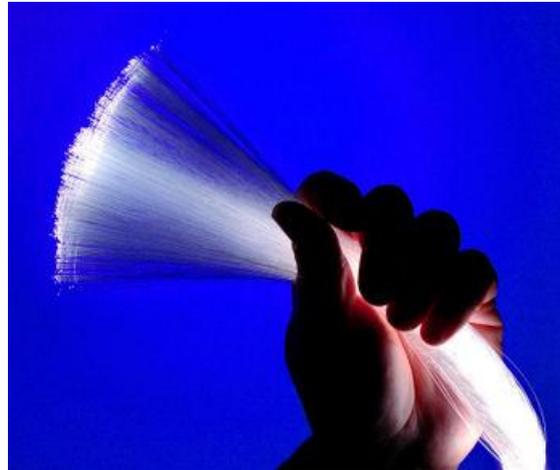


# NEW MEXICO BROADBAND OVERVIEW

**Science, Technology & Telecommunications Committee**  
**18 November 2013**



# PROGRAM: Funds

- NTIA Funds

- Total Federal Award: \$4.8M (Jan 2010)
  - State Match: \$1.2M (20%)



- Grant Components

- Mapping: \$3.1M (Five Years)
- Planning: \$500K (Five Years)
- Capacity Building \$600K (Four Years)
- Technical Assistance \$560K (Four Years)

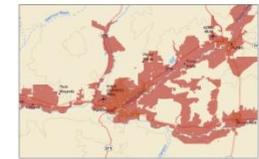


**BROADBANDUSA**  
CONNECTING AMERICA'S COMMUNITIES



# MAPPING: NM BB MAP

- 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



New Mexico Broadband Map - V 4.0  
Department of Information Technology (DoIT)  
Data update: 1 October 2012

Layers

Layer Visibility

- Broadband Coverage
  - DSL
  - Cable
  - Fiber
  - Copper Wire
  - Fixed Wireless
  - Mobile Wireless
  - Satellite

Legend

New Mexico

- DSL
- Cable
- Fiber
- Copper Wire
- Fixed Wireless
- Mobile Wireless

Find Address

Locations found: 1

Mora, NM  
Score: 100

Mora, NM  
Score: 100  
Zoom to

Identify

Technology of Transmission: DSL

Use the Identify tool to see the list of available Broadband Internet Service Providers

Clear



# CAPACITY BUILDING: Framework

## ■ Coordination

### ■ Broadband Executive Committee

- BEC Members: [http://www.doit.state.nm.us/broadband/exec\\_committee.shtml](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](http://www.doit.state.nm.us/broadband/bb_workgroup.shtml)

### ■ Health, Education, Economic Development

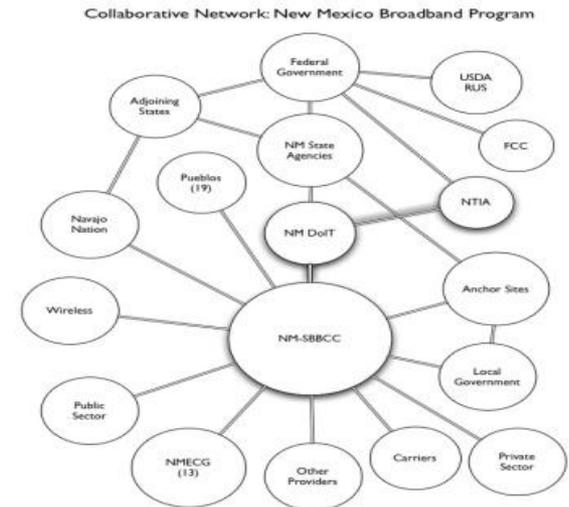
- Governance, Digital Literacy, Tribal

### ■ PSFA IT Advisory Group

### ■ NM TeleHealth Alliance

### ■ NM Technet

### ■ EEIC of New Mexico



# CAPACITY BUILDING: Agencies

**STATE/LOCAL AGENCIES**  
DoIT IT Working Group



**NM Broadband Program**

**NM Broadband State Agencies Task Force**

# TECHNICAL ASSISTANCE

- New Mexico Broadband Videos
  - Overview, Education, and Health
- Public Internet Training & Access (PITA)
  - Statewide Inventory (275+)
  - Institutions, Content, Resources
- Train the Trainer Program
  - Locally Branded Content
  - Targeting Professional Sectors
  - Basic and Business Instruction
- Native Lands Broadband Pilot
  - Telecom Infrastructure Mapping



NM Broadband Videos: <http://www.youtube.com/NMBroadband>

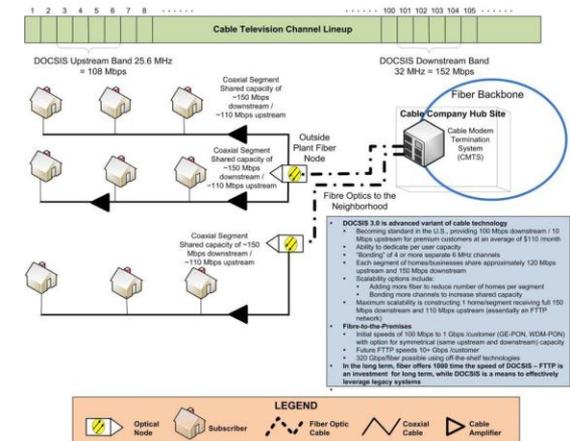
Public Internet: <http://www.nmbbmapping.org/pita/>

Digital Literacy: <http://www.doit.state.nm.us/broadband/training/resources.shtml>

# PLANNING: Strategic Plans



- Statewide Strategic Plan (2014)
  - Action Document
    - Issues, Gaps, and Actions (Solutions)
    - Administrative Structure, Governance, Industry, and Funding
    - Major Sectors: Education, Health, Economic Development
- Strategic Business Sector Plans (November 2013)
  - Business Sectors: **Health, Education, and Economic Development**
  - Development of a Working Group
  - Survey of Broadband Existing and Future Uses
  - Broadband Gap Analysis
  - Summary of Emerging Services
  - Barriers to Service Adoption
  - Broadband Applications
  - Funding Sources
  - Existing Initiatives
  - Recommendations



Health: <http://www.doit.state.nm.us/broadband/health.shtml>

Education: <http://www.doit.state.nm.us/broadband/education.shtml>

Economic Development: <http://www.doit.state.nm.us/broadband/economic.shtml>

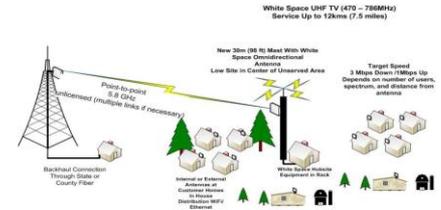
# PLANNING: Working Group

- New Mexico Broadband Working Group
  - Provide input into the “Sector Strategic Plans”
  - Coalition Building
  - Composition (~30)
    - Experts in Health, Education, and Economic
    - Telcom Industry
    - Federal Loan Programs
    - Tribal Entities
    - Non for Profit Organizations
    - Federal, State and Local Governments
    - Community Organizations
    - Technology Councils
    - Regional Governances



# PLANNING: Tools

- Community BB Master Plan Guidebook
  - Requirements (supply and demand analysis)
  - Collaborative structure
  - Technology models
  - Business cases
  - Funding strategies
  - Benefits
  - Risks
  - Community engagement
- Speed Test Performance
  - Test: <http://www.doit.state.nm.us/broadband/speedtest.shtml>



**doit** NEW MEXICO DEPARTMENT OF INFORMATION TECHNOLOGY

The New Mexico Broadband Program  
Community Broadband Master Plan Guidebook

Version 1.1, March 2013  
Version 1, December 2012

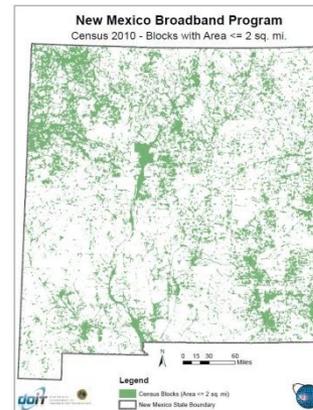
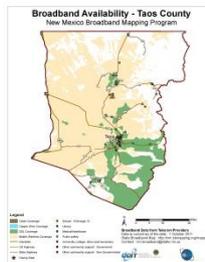
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Prepared for:  
The New Mexico Broadband Program  
NM Department of Information Technology  
<http://www.doit.state.nm.us/broadband/>

Prepared by:  
ctc technology & energy  
engineering & business consulting  
<http://CTCnet.us>

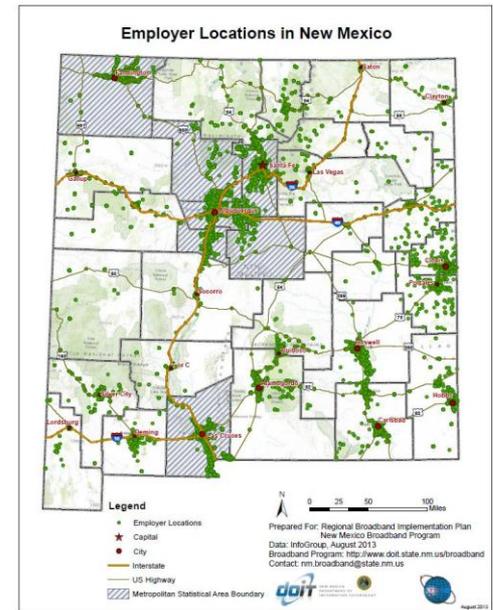
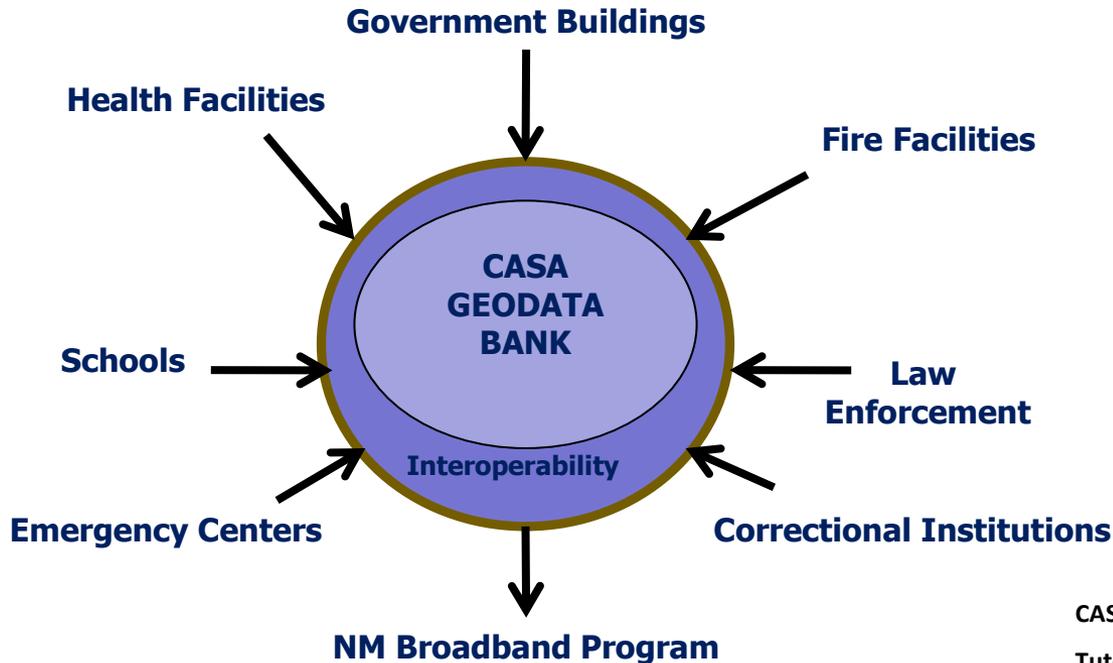
# PLANNING: Tools

- Broadband Map Gallery
  - Statewide, Regional, and County Maps
    - Native Lands
    - Telephone Exchange Boundaries
    - Census Blocks
    - Broadband Availability
    - Community Anchors
    - Statistics
    - Boundaries



# PLANNING: Tools

- NM Broadband Subscription and Use
  - Report: [http://www.doit.state.nm.us/broadband/reports/NMBBP\\_bb\\_use\\_0613.pdf](http://www.doit.state.nm.us/broadband/reports/NMBBP_bb_use_0613.pdf)
- Community Anchor Site Assessment (CASA)
  - Public and Private Facilities Requiring BB
  - First in New Mexico within one Database
  - Crowd Sourcing Update

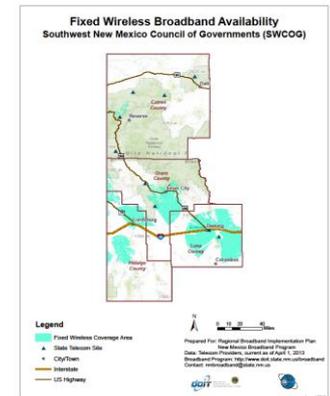
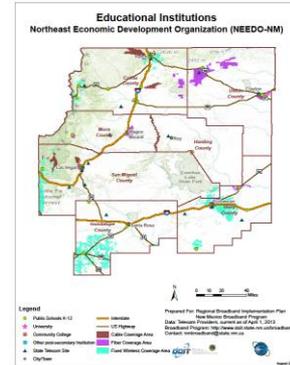


CASA Crowd Sourcing: <http://nmbbmapping.org/bbcrowd/>

Tutorial Video: <http://www.youtube.com/NMBroadband>

# ADOPTION: Regional

- Regional Broadband Implementation Plans (RBIP) Pilots
  - Two Regions Selected (NEEDO and SWNMCOG)
    - Criteria: champion, middle mile requirements, rural
    - Solution: infrastructure gaps, funding, RFI/RFP
  - Process
    - Identification of Pilot Regions
    - Develop a Planning Model
    - Create a Pilot Area Supply and Demand Assessments
    - Generate a Pilot Area Technology Plan
    - Compile a Strategic and Business Plan
    - Assist Development of RFI or RFP
    - Facilitate Partner Negotiations
    - Identify Funding Mechanisms
    - Prepare Implementation Plans and Specifications



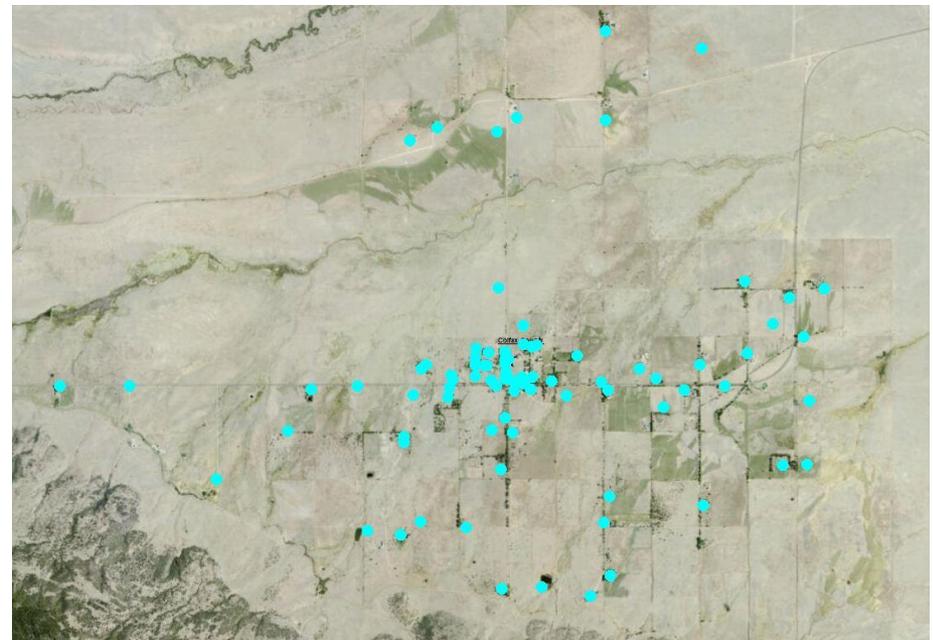
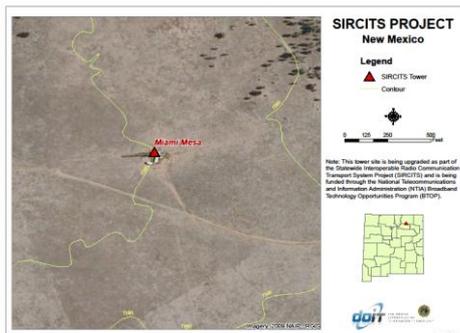
# ADOPTION: Example

- Rural Regional Collaborative Focus

- Development of a community team
- Assessment of existing infrastructure/services
- Engagement of telecom industry into solution
- Mending of technologies into a solution fabric

- Small Town, New Mexico

- Households: Approximately 65
- Institutions: Volunteer Fire and Community Center
- Technology Type: Satellite



# DRAFT RECS: Cross Cutting\*

## NM BROADBAND ASSESSMENT AND RECOMMENDATIONS:

### Healthcare, Education, and Economic Development

- **Buying Collaborative**
  - Pursue state purchasing cooperative
- **Smart Funding**
  - Improve the distribution of state and federal funds
- **Match Funding Sources**
  - Identify revenue sources for federal match
- **Centralized Network**
  - Aggregation of state managed networks
- **Rights of Way and Franchise Agreements**
  - Streamline the process and approval
- **Tribal Support**
  - Advance broadband connectivity and education
- **Broadband Entity**
  - Independent nonprofit to continue the Broadband Program



# DRAFT RECS: Education\*

- **Connectivity Management**
  - Establish a statewide managed educational network
- **Internal Connectivity Support**
  - Provide a technical support group for smaller school districts
- **E-Rate**
  - Modernize the management of the NM E-Rate Program
- **Technical Educators**
  - Provide professional development to teachers and staff
- **Online Learning**
  - Ensure equipment and training are available
- **Software and/or Application Standards**
  - Create online digital content and enhance STEM



# DRAFT RECS: Healthcare\*



- **Telehealth Coordination**
  - **Designate the NM Telehealth Alliance as coordinating entity**
- **Telehealth Data**
  - **Develop a central online data warehouse**
- **Telehealth Infrastructure Fund**
  - **Create a fund to cover costs of equipment and training**
- **Reimbursement Rates**
  - **Continue development of fair reimbursement rates**
- **Professional Development**
  - **Provide education and training to stay current**
- **Health Facility Infrastructure**
  - **Meet technical and infrastructure facility requirements**



# DRAFT RECS: Economic\*

- **Education and Outreach**

- Establish a broadband publicity effort

- **Strategic Planning**

- Five year plan with annual updates that include broadband

- **Partnerships**

- Create local project task forces to support long term planning



# THANK YOU



NEW MEXICO  
DEPARTMENT OF  
INFORMATION TECHNOLOGY



**Contact:**

Gar Clarke, NM Broadband Program Manager

Email: [george.clarke@state.nm.us](mailto:george.clarke@state.nm.us)

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



**National Telecommunications  
and Information Administration**