Broadband for Libraries Update

Science, Technology and Telecommunications Committee

August 17, 2020

Broadband for Libraries
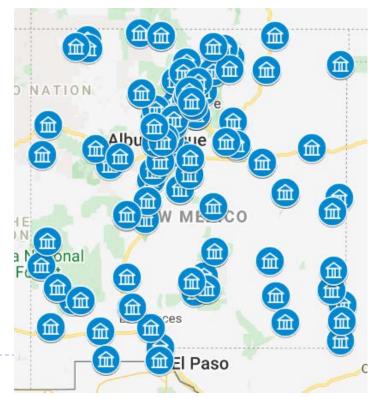# Purpose

- **Access:** Ensure every community with a library has one location with free access to high quality, dependable broadband

- **Affordability:** Ensure all public libraries have the support they need to leverage federal E-Rate funding of up to 95%

- **Efficiency:** Find central solutions to common problems so libraries can focus on serving New Mexicans

- **Rural Economic Development:** Drive down connection costs for businesses and residents so rural, suburban, and urban residents can live and work where they want to be

Broadband for Libraries Background

There are **98 Public and Tribal Libraries in NM**

▸ Prior to the program

  ▸ 60% did not have a connection faster than 30 Mbps

  ▸ 68% did not take advantage of E-Rate

  ▸ 53% did not have a fiber optic

▸ BB4L Program provides:

  ▸ Technical/IT Support

  ▸ E-rate consultant support

  ▸ Project management

  ▸ Procurement

  ▸ Matching Funds

Broadband for Libraries Background

The Library Broadband Infrastructure Fund (LBIF) was created by the 2018 Legislature and received funding in 2019 via Senate Bill 280 (Chapter 277):

"one million dollars ($1,000,000) for expenditure in fiscal years 2020 through 2023 to the library broadband infrastructure fund for expenditure by the department of information technology for library broadband expansion and improvement statewide, including assessments and contracts, contingent upon the execution of a memorandum of understanding for use of the funds with the cultural affairs department."

‣ Funding will be available through FY23.

Broadband for Libraries Update
Projects to-date

2019 Libraries

▸ Columbus Village

▸ Las Vegas

▸ Espanola

▸ Embudo

▸ Santa Clara Pueblo

▸ Reserve

▸ Glenwood

▸ Questa

▸ Magdalena

2020 Libraries

▸ Zia Enrichment

▸ Jemez Pueblo

▸ Silver City

▸ El Rito

▸ Abiquiu

▸ Jemez Springs

▸ Chama

▸ Hobbs

▸ Eunice

▸ Lovington

▸ Jal

▸ Mescalero

▸ Tularosa

▸ Jicarilla

▸ Socorro

▸ Las Cruces

▸ Cuba

▸ Las Cruces

Broadband for Libraries Update
Results To-Date

Results:

▸ All have upgraded internal network equipment, and fiber optic connections

▸ In the first round, average speeds increased over 3500% while internet bills decreased 90%; average cost per Mbps is $5.45

Minimum 100 MB Fiber:

▸ **Increased Capacity:** 100/100 fiber optic internet connection can support a minimum of 100 users or devices at once without showing any lag or slowdowns, over 30 simultaneous video calls at 1080p resolution (HD).

▸ **Scalability:** Fiber optic is virtually limitless; once installed it can be scaled up. It supports symmetrical two way communications, such as video conferencing.

Broadband for Libraries Update
Federal Funding Leveraged

FY20 Federal funding leveraged:

▸ In FY20 we spent $76,316 Library Broadband funds ($67,953 Category 2 match, $7,630 E-Rate consultant, $733 travel expenses)

▸ Libraries received $579,459 federal E-Rate funding (projected based on approvals)
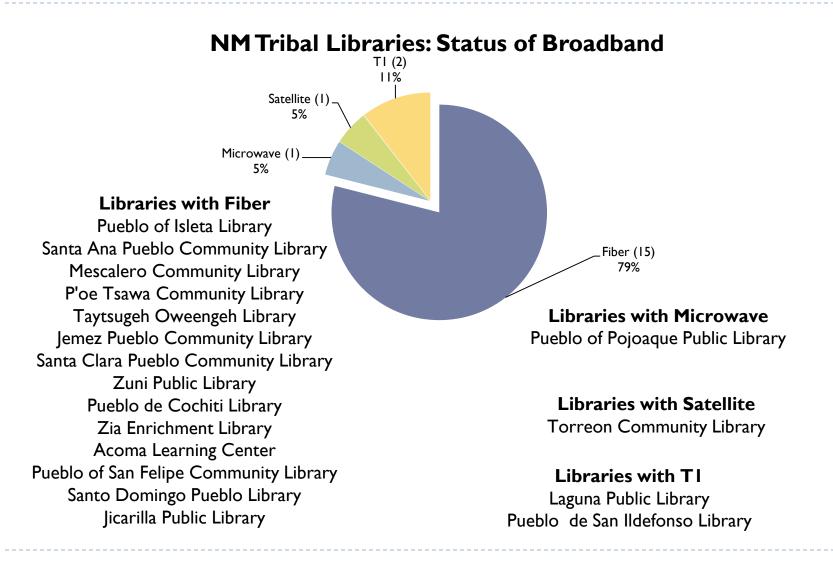
Where beneficial, libraries take part in a consortia procurement process with schools in a region:

West Central Consortium

- Glenwood
- Magdalena
- Reserve

- North Central Consortium
  - Jemez Springs
  - Eleanor Daggett, Chama
  - Cuba

Support for Tribal Broadband

Broadband for Libraries Update
Library Broadband in Context

NM Tribal Libraries: Status of Broadband

T1 (2)
11%

Satellite (1)
5%

Microwave (1)
5%

Fiber (15)
79%

Libraries with Fiber
Pueblo of Isleta Library
Santa Ana Pueblo Community Library
Mescalero Community Library
P'oe Tsawa Community Library
Taytsugeh Oweengeh Library
Jemez Pueblo Community Library
Santa Clara Pueblo Community Library
Zuni Public Library
Pueblo de Cochiti Library
Zia Enrichment Library
Acoma Learning Center
Pueblo of San Felipe Community Library
Santo Domingo Pueblo Library
Jicarilla Public Library

Libraries with Microwave
Pueblo of Pojoaque Public Library

Libraries with Satellite
Torreon Community Library

Libraries with T1
Laguna Public Library
Pueblo de San Ildefonso Library

Broadband for Libraries Update
Potential FY21 Projects

- Farmington
- Bloomfield
- Clayton
- Raton
- Springer
- Eagle Nest
- Angel Fire
- Tatum
- Corona
- Tucumcari
- Santa Rosa

- Anton Chico
- Cloudcroft
- Deming
- Bayard
- Lordsburg Hidalgo
- Zuni Tribal Library
- Laguna Tribal Library
- San Idelfonso Pueblo
- Sandia Pueblo
- Santa Fe
- Vista Grande

Questions?

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