

2016-17 Jemez-Zia Pueblo E-rate Consortium

Jemez Day School (BIE) • San Diego Riverside (NM Charter) • Walatowa High School (NM Charter)

Jemez Tribal Library • T'siya Day School Elementary School (BIE) • Zia Tribal Library



Broadband in Schools & Libraries

Schools: Conduit of teaching, learning, and school operations

- Internet content- teaching & learning,
 i.e. Kahn Academy, digital textbooks
- Communication between students and teachers, i.e. Google Classroom
- Mobile Devices- require high-speed Internet, i.e. iPads, Chromebooks, etc
- NASIS Parent Portal to check assignments and grades (BIE)
- Mandatory Online Testing, i.e. PARCC, MAPS
- Dual Credit/Distance Learning
- Video-Conferencing for native language classes
- Virtual Global field trips
- Administration: On-line HR, Phone, Accounting, Safety & Email systems

Libraries: Critical community infrastructure for computer services

- K-12: After school homework & live tutoring: cloud apps, Kahn Academy
- Adults: On-line classes for college degrees,
 GED, basic literacy, certificates.
- On-line applications, scholarships, FAFSA
- Video-Conferencing for language and/or culture teaching/learning
- Website Portals for on-line banking, bill pay
- Required On-line testing for NM Drivers
 License, Food Handlers, NM Game & Fish
- Social services for senior, disabled and veterans e.g. benefits
- Filing federal and state taxes
- Job searches, resumes, unemployment
- Public Internet access for personal devices, including parking lot Wi-Fi
- Center for connectivity during emergencies

Current Speeds



My iPhone

LTE: 5 – 12 Mbps DLS x2: 12 Mbps T1 x6: 9 Mbps

Jemez Day School Jemez Tribal Library Zia Tribal Library San Diego Riverside



Many BIE Schools
Many Tribes/
Libraries
T1 x 3: 4.5 Mbps

Walatowa High School



Many BIE Schools
Many Tribes/
Libraries
T1: 1.5 Mbps

T'siya Elementary School

Target
Speed:
100 Mbps

















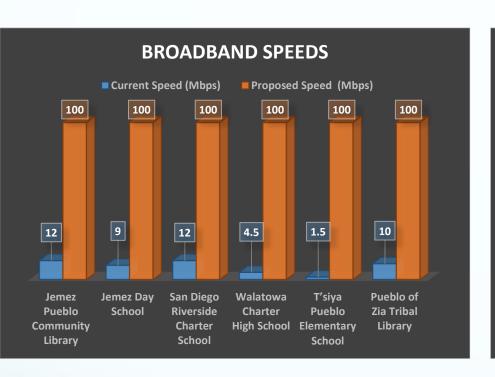


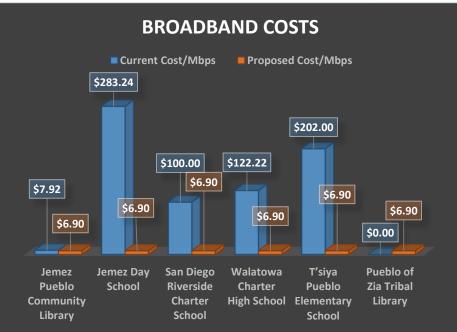


Fiber Route



Before / After





JEMEZ / ZIA CONSORTIUM MEMBERS	BEFORE					AFTER				
School/Library Name	Connection Type/Qty	Current Speed (Mbps)	Monthly Recurring Cost (MRC)	Current (Connection	Proposed Speed (Mbps)	Monthly Recurring Cost (MRC)	Proposed Cost/Mbps	Proposed Cost/Mbps w/E-Rate
Jemez Pueblo Community Library	1x DSL	12	\$95	\$7.92	N/A	Fiber	100	\$690	\$6.90	\$0.69
Jemez Day School	6x T1s	9	\$2,549	\$283.24	\$28.32	Fiber	100	\$690	\$6.90	\$0.69
San Diego Riverside Charter School	2x DSL	12	\$1,200	\$100.00	\$10.00	Fiber	100	\$690	\$6.90	\$0.69
Walatowa Charter High School	3x T1s	4.5	\$550	\$122.22	\$12.22	Fiber	100	\$690	\$6.90	\$0.69
T'siya Pueblo Elementary School	1x T1	1.5	\$303	\$202.00	\$20.20	Fiber	100	\$690	\$6.90	\$0.69
Pueblo of Zia Tribal Library	Ethernet	10	\$0	\$0.00	N/A	Fiber	100	\$690	\$6.90	\$0.69

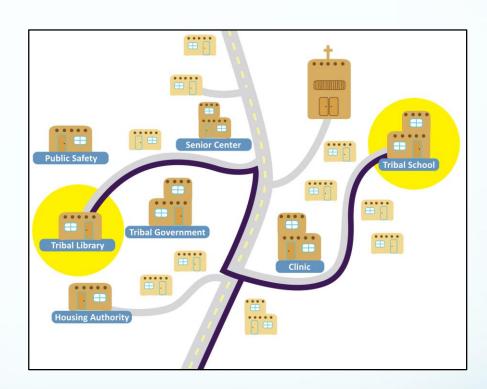
Funding Opportunity

FCC E-Rate Program

- Schools and Libraries
- 90% Discounts off Internet Bills
- New: Discounts on Fiber Construction
- Limited Time: Additional 5% Discount if match is from tribal, state, federal source
- New: Extra Capacity allowed

Opportunity

- Bring Broadband Internet to the schools and libraries
- Fiber Optic Benefits: Can be easily increased to meet future needs, symmetrical uploads and downloads



Fiber Optic Backbone to the schools and libraries

Chairman Ajit Pai's Visit Monday August 20th, 2018



Ajit Pai FCC Chairman

The Federal Communications Commission (FCC) regulates interstate and international communications by radio, television, wire, satellite, and cable in all 50 states, the District of Columbia and U.S. territories. An independent U.S. government agency overseen by Congress, the Commission is the federal agency responsible for implementing and enforcing America's communications law and regulations.



Michael O'Rielly
Commissioner



Brendan CarrCommissioner



Jessica Rosenworcel
Commissioner

Jemez Library - Welcome









Riverside Charter School







Walatowa High Charter School









Pueblo of Zia – Enrichment Library











Jemez-Zia-Santa Ana Consortium and Jemez Tribal Network



Overview of Fiber Route

Albuquerque (UNM) to Jemez



Jemez Fiber/Zia-Santa Ana Consortium

Broadband Project

Consortium Network:

(Santa Ana Pueblo, Zia Pueblo, & Jemez)

Cost: \$1,257,837.26

Kelly Cable: Strands Spliced to

support:

Private Network for Interconnect
 Between Jemez/Zia to Sheriff's Posse Rd.

• Sovereign Fibers to Jemez

Sovereign Fibers to Zia

Sovereign Fibers to Santa Ana

• Fibers for Cell Towers – Future Use

Jemez Network:

Cost: \$2,128,137.70

Kelly Cable: Strands Spliced for:

• Connection into Main Distribution Frame

Regenerate & Deploy Out

Current and Future Use







