



# PSCOOTF Status Update June 10, 2016

PSEA Presenters:

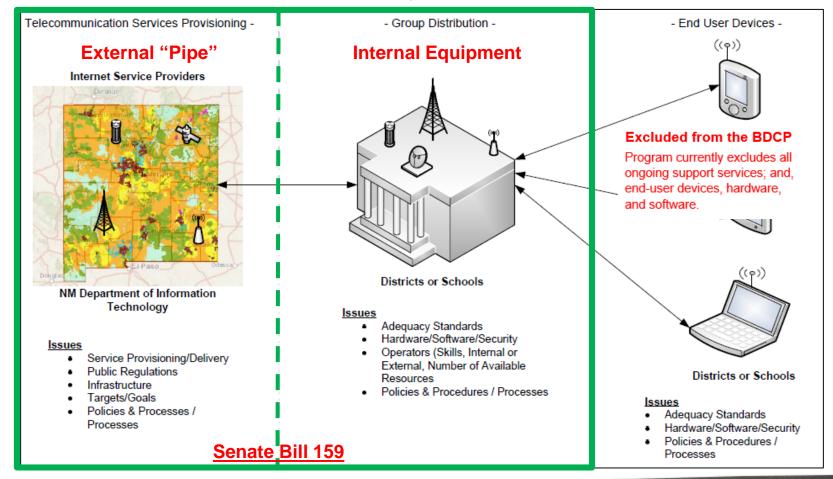
Ovidiu Viorica, Broadband Program Manager

Partnering with New Mexico's communities to provide quality, sustainable school facilities for our students and educators.



### **High-Level View**

As displayed below, broadband originates from Internet Service Providers (ISP), is distributed to districts/schools and then reaches students via end-user devices. The green area is covered by the BDCP.



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### FCC goals



The FCC has adopted goals for K-12 connectivity. In this report we used the goals as a benchmark for where students are today

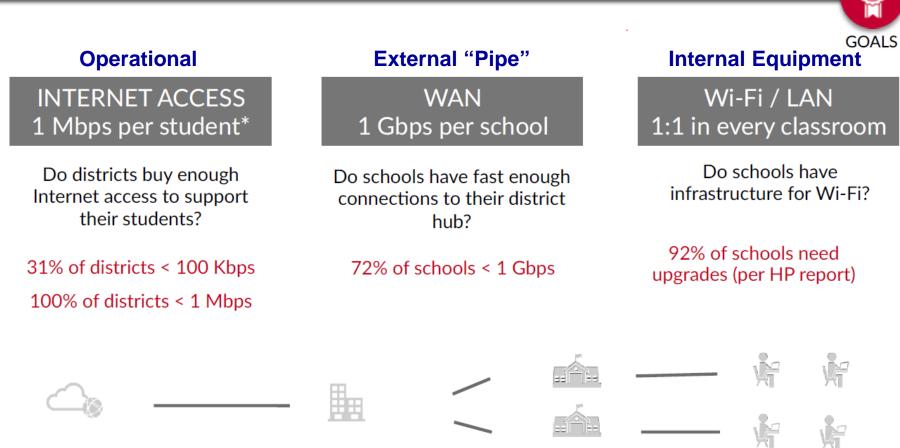
Purpose	2014	1	2018
Internet access	100 kbps per student/staff		1 Mbps per student/staff
District transport (WAN)	*1 Gbps per school		Scalable to 10 Gbps per school

More information: <u>https://www.fcc.gov/page/summary-e-rate-modernization-order</u> \*2014 WAN targets were recommended by SETDA, but the FCC did not adopt any short term WAN goals



Highlight Added by PSFA

### Strength of broadband infrastructure



Internet

District office

Schools



Sources: 2015 FCC Form 471 E-rate applications

Titles Added by PSFA



### Fall 2015 - Program activities

- 1. HP Assessment of 841 school locations
- 2. CTC review of the school broadband circuits in the state and Gap Analysis report
- 3. Total amount encumbered or expended: ~\$2.9M
- 4. Not to exceed awards: ~10.6M (Based on estimates, actual amounts are being finalized, dependent on E-rate funding)



# Spring 2016 - Program results

- 1. Fiber upgrades (PSFA):
  - Developed process and timelines for project development
  - RFP & E-rate assistance: 30% increase in E-rate funding requests this year
  - PSCOC Awards to 17 Districts and 5 Charters (~60 schools) see Progress table
- 2. Network equipment and WiFi upgrades (PSFA):
  - Master agreements
  - Online Portal for equipment purchase (PED)
  - Reported Discounts: 40-50% off list prices
  - Requests for BDCP funding: Around 100 schools (to date)



# Spring 2016 - Program results

- 3. Internet Affordability DoIT & PED
  - Procurement Aggregation Model
  - Timeline follows E-rate Funding cycle
- Ongoing sustainability of district equipment and Statewide Education Network – DoIT & PED
  - Consortium application
  - Procurement and contracting assistance



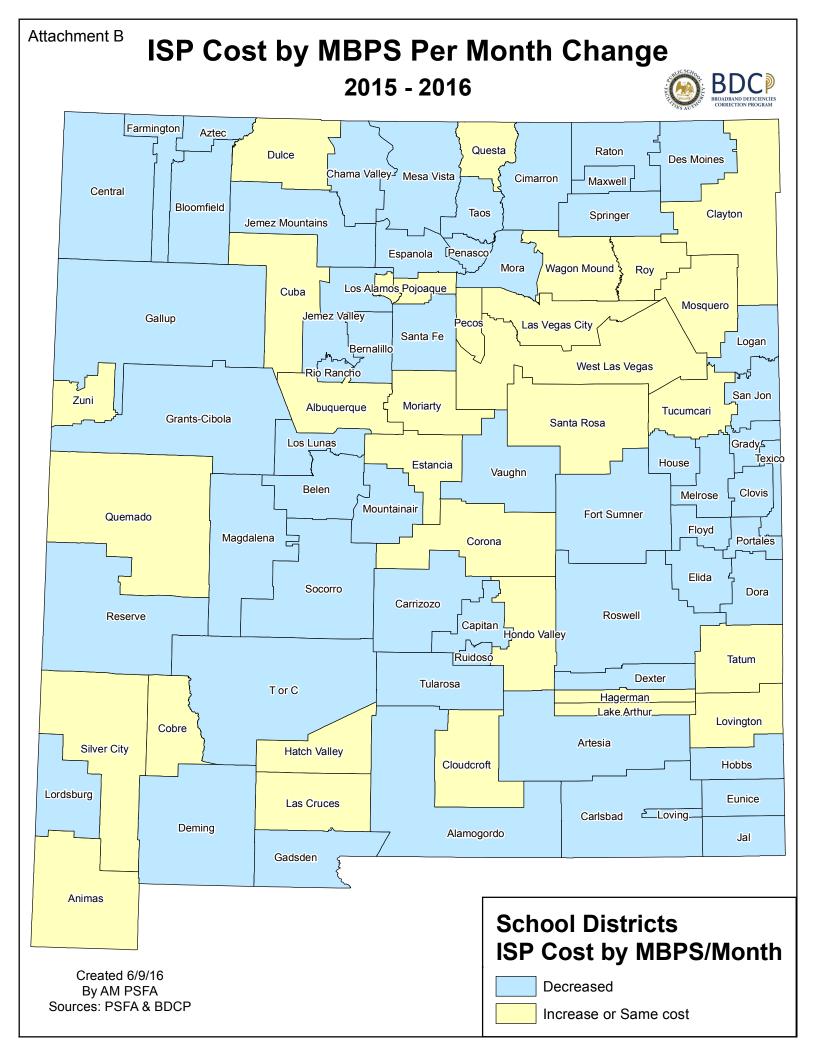
#### Attachment A

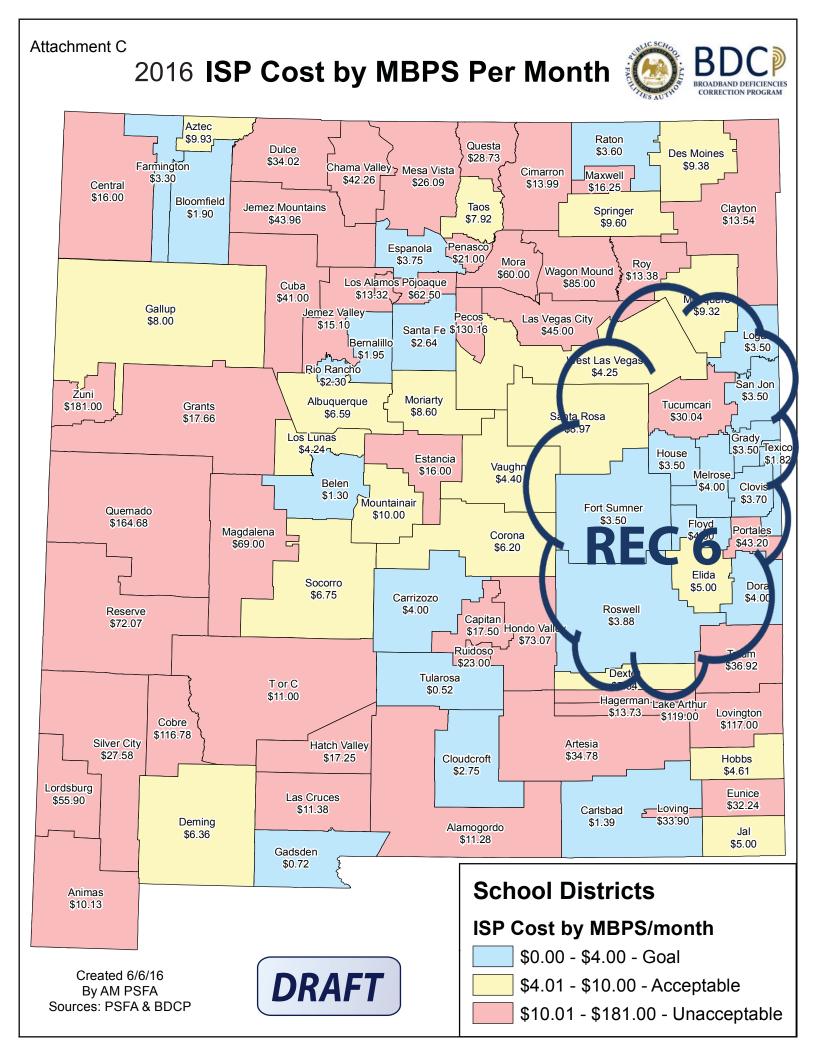


### Estimated Connection Speed/Cost Progress After Fiber Projects

	District	School	Award Languago	Bandwidth	Kilobit per Student		Cost per Mogabit	Notos
	District		Award Language	Increase	Before	After	Megabit Change	Notes
	Anthony Charter School	Anthony Charter School to Internet	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018 NM and FCC connectivity goals.		15k	1,481k	-82%	
		Connect to Bernalillo HS:	· · · · · · · · · · · · · · · · · · ·					
		Bernalillo ES		9,900%	20k	1,996k	-98%	
		Bernalillo MS	NM State match eligible for additional E-Rate Federal funding to	4,900%	37k	1,835k	-97%	
ŀ	Bernalillo	WD Carroll ES	upgrade infrastructure that allows the schools to reach the 2018	4,900%	34k	1,734k	-97%	
B		Placitas ES	NM and FCC connectivity goals.	4,900%	136k	6,803k	-97%	
		Santo Domingo ES/MS		16,567%	14k	2,392k	-97%	
		Algodones ES		22,122%	18k	4,000k	-91%	
_		Cochiti ES/MS		16,567%	20k	3,356k	-96%	
E		Connect Blanco ES to Admin Hub Admin Hub to Internet	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018 NM and FCC connectivity goals.	39,900% 1,400%	81k 65k	3,2362k 968k	-100% -90%	Blanco ES fiber will be District owned. No mont
ŀ		Connect to Kirtland Data Center:	Nivi and FCC connectivity goals.					fees.
		Mesa ES		19,900%	20k	1,996k	-100%	Migration from Wireless
		Nashitti ES	NM State match eligible for additional E-Rate Federal funding to	99,900%	37k	1,835k	-100%	connections to District
C	Central	Newcomb HS	upgrade infrastructure that allows the schools to reach the 2018	6,567%	34k	1,734k	-100%	owned fiber. No monthly
		Ojo Amarillo ES	NM and FCC connectivity goals.	9,900%	136k	6,803k	-100%	fees.
		Shiprock HS		6,567%	14k	2,392k	-100%	1003.
d	Cimarron	Connect Cimarron ES/MS and Cimarron HS to	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018		227k	505k	-82%	Shared campus
			NM and FCC connectivity goals.					
C	Clovis	Connect Barry ES to Gattis MS	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018 NM and FCC connectivity goals.		164k	16,367k	0%	Migration from Wifi connection to self- provisioned fiber.
C	Cobre	Connect San Lorenzo ES to Cobre Admin	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018		73k	1,220k	-97%	
	Deming	Columbus Elem to Central Office	NM and FCC connectivity goals. NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018		72k	796k	-92%	
			NM and FCC connectivity goals.					
ſ	Farmington	Connect to Farmington HS:						
		Animas ES		900%	2,193k	21,930k	-100%	
		Apache ES		900%	1,923k	19,231k	-100%	
		Bluffview ES		900%	2,252k	22,523k	-100%	
		CATE		2,757%	1,862k	53,191k	-100%	Migration from Wireless
		Country Club ES	NM State match eligible for additional E-Rate Federal funding to	900%	1,832k	18,315k	-100%	-
F		Heights MS	upgrade infrastructure that allows the schools to reach the 2018	2,757%	504k	14,388k	-100%	connections to District
		Hermosa MS	NM and FCC connectivity goals.	2,757%	621k	17,730k	-100%	owned fiber. No monthl
		Juvenile Services Center		2,757%	12,963k	370,370k	-100%	fees.
		McCormick ES		2,757%	681k	19,455k	-100%	
		Mesa View MS		2,757	571k	16,313k	-100%	
		Piedra Vista HS		900%	705k	7,052k	-100%	
		Tibbetts MS		2,757%	603k	617,241k	-100%	
Γ		Connect to Gallup-McKinley School Office:						
		David Skeet ES	NM State match eligible for additional E-Rate Federal funding to	900%	417k	4,167k	-96%	
		Ramah ES	upgrade infrastructure that allows the schools to reach the 2018		417k 251k	4,167k 2,531k	-96% -96%	Tse Yi Gai HS did not
ľ	•	Ramah MS/HS	NM and FCC connectivity goals.	900% 900%	251k 422k	-	-96% -96%	receive any bids.
		Tse Yi Gai HS	Nivi and FCC connectivity goals.	900%	422K	4,219k	-90%	
1 Grar		Connect to Grants Data Center:					_	
		Internet		233%	83k	275k	-93%	
		Laguna-Acoms MS/HS	NM State match eligible for additional E-Rate Federal funding to	100%	154k	309k	-82%	
		Milan ES	upgrade infrastructure that allows the schools to reach the 2018	100%	134k	268k	-82%	
		San Rafael ES	NM and FCC connectivity goals.	100%	110k	220k	-82%	
		Seboyeta ES		100%	735k	1,474k	-82%	
		Bluewater ES		733% 100%	154k 421k	1,282k	-97%	
┢				100%	431k	862	-82%	* Spoodtosta massurad
2	Hondo	Hondo Schools to Internet	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018 NM and FCC connectivity goals.		152k*	606k	266%	* Speedtests measured speeds of 27k per studer through current wireless solution
: 	Jal	Jal Schools to Internet	NM State match eligible for additional E-Rate Federal funding to upgrade infrastructure that allows the schools to reach the 2018 NM and FCC connectivity goals.		28k	556k	-97%	

Note: The values listed are preliminary. Final circuit capacities and costs are subject to agreement negotiation and E-rate final approval.



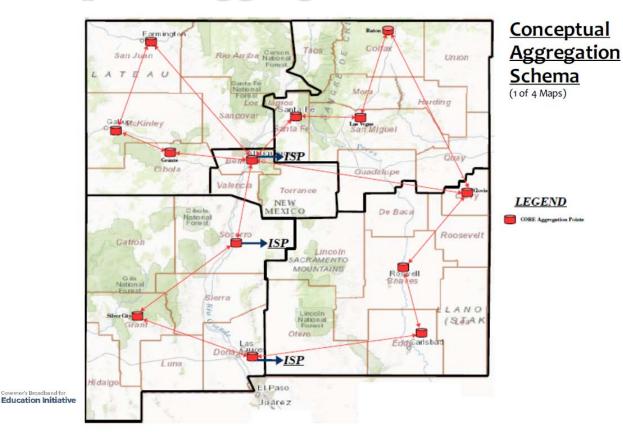


# Spring 2016 - Program results: Network Equipment for Distribution to Users (Cat2)

- 1. 100+ Vendor Master Agreements in the seven E-rate eligible categories
- 13 Districts (Belen, Bernalillo, Bloomfield, Deming, Farmington, Gallup McKinley, Grants-Cibola, Los Alamos, Mountainair, Penasco, Portales, Taos, West Las Vegas...)
- 3. 7 Charter Schools in Albuquerque, Aztec, Carlsbad, Deming, Espanola, Santa Fe and Taos
- 4. Additional funding requests pending



### Spring 2016 - Program results: DoIT Draft / Conceptual Aggregation Points





### Summer & Fall 2016 - Program goals

- 1. Fiber upgrades:
  - Refine program processes, including RFP templates
  - RFP & E-rate assistance to all schools interested
  - Fiber upgrades to remaining schools without scalable infrastructure
- 2. Network (WiFi) upgrades:
  - Increase program participation
  - Maximize cost savings through Master Agreements
  - Refine Online Portal for equipment purchases (PED)
  - Leverage remaining Cat2 E-rate budgets for NM schools
- 3. Internet Affordability & Sustainability DoIT & PED
  - July 2017 Statewide/Regional Aggregation
  - August 2018 Reach goal of 1 Mbps / student





# **Questions or Comments?**

### Public School Facilities Authority (PSFA)

**Ovidiu Viorica – Broadband Program Manager** 

visit: http://www.nmpsfa.org/it/bdcp.htm

or phone: 505-843-6272

