

Connecting Every Nevada Child

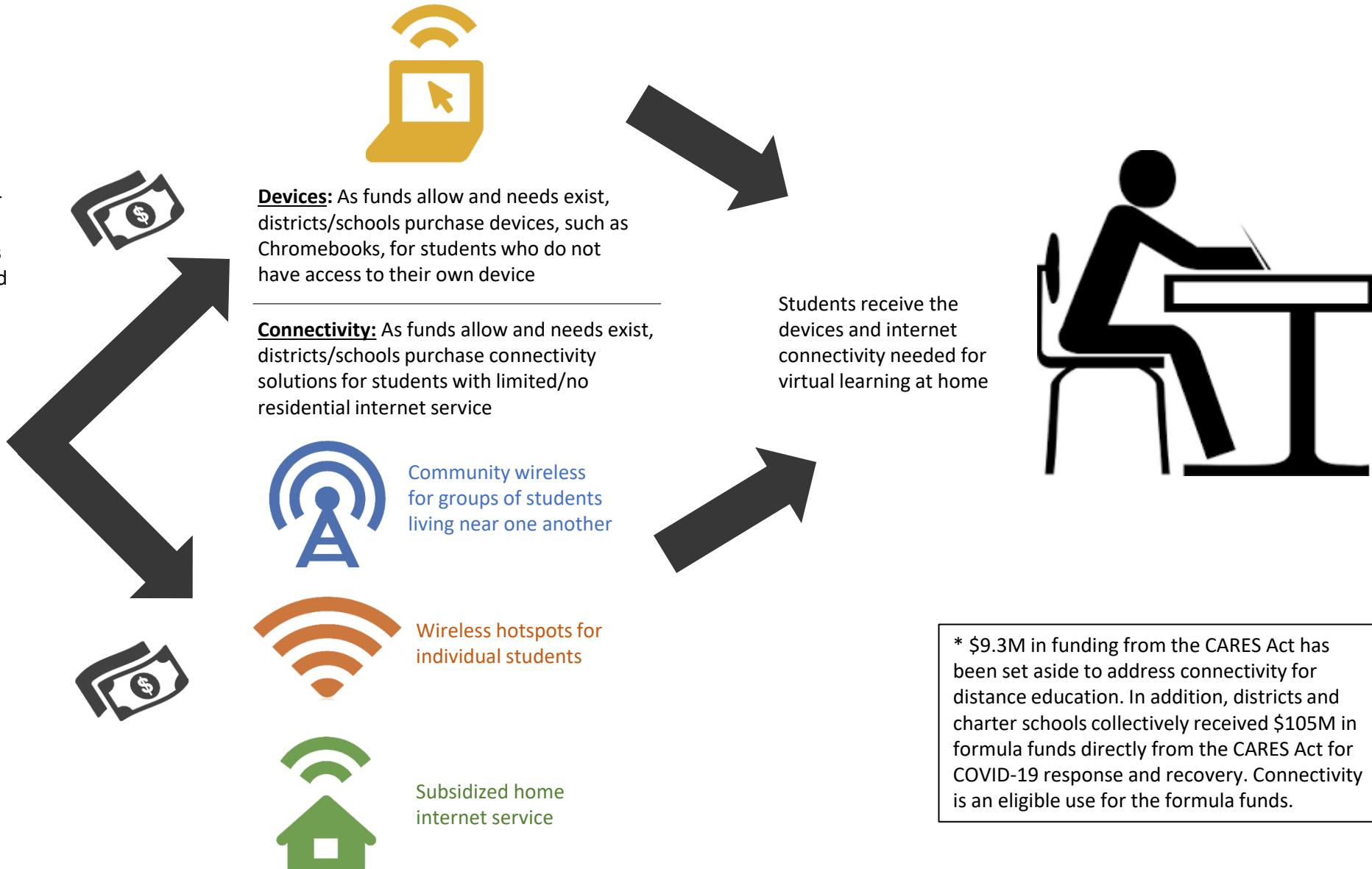
Presentation to the State Board of Education
July 23, 2020

Brian Mitchell, Director



Nevada Governor's
Office of Science,
Innovation and
Technology

ENSURING CONNECTIVITY FOR EVERY STUDENT IN NEVADA



* \$9.3M in funding from the CARES Act has been set aside to address connectivity for distance education. In addition, districts and charter schools collectively received \$105M in formula funds directly from the CARES Act for COVID-19 response and recovery. Connectivity is an eligible use for the formula funds.

Connectivity Option #1



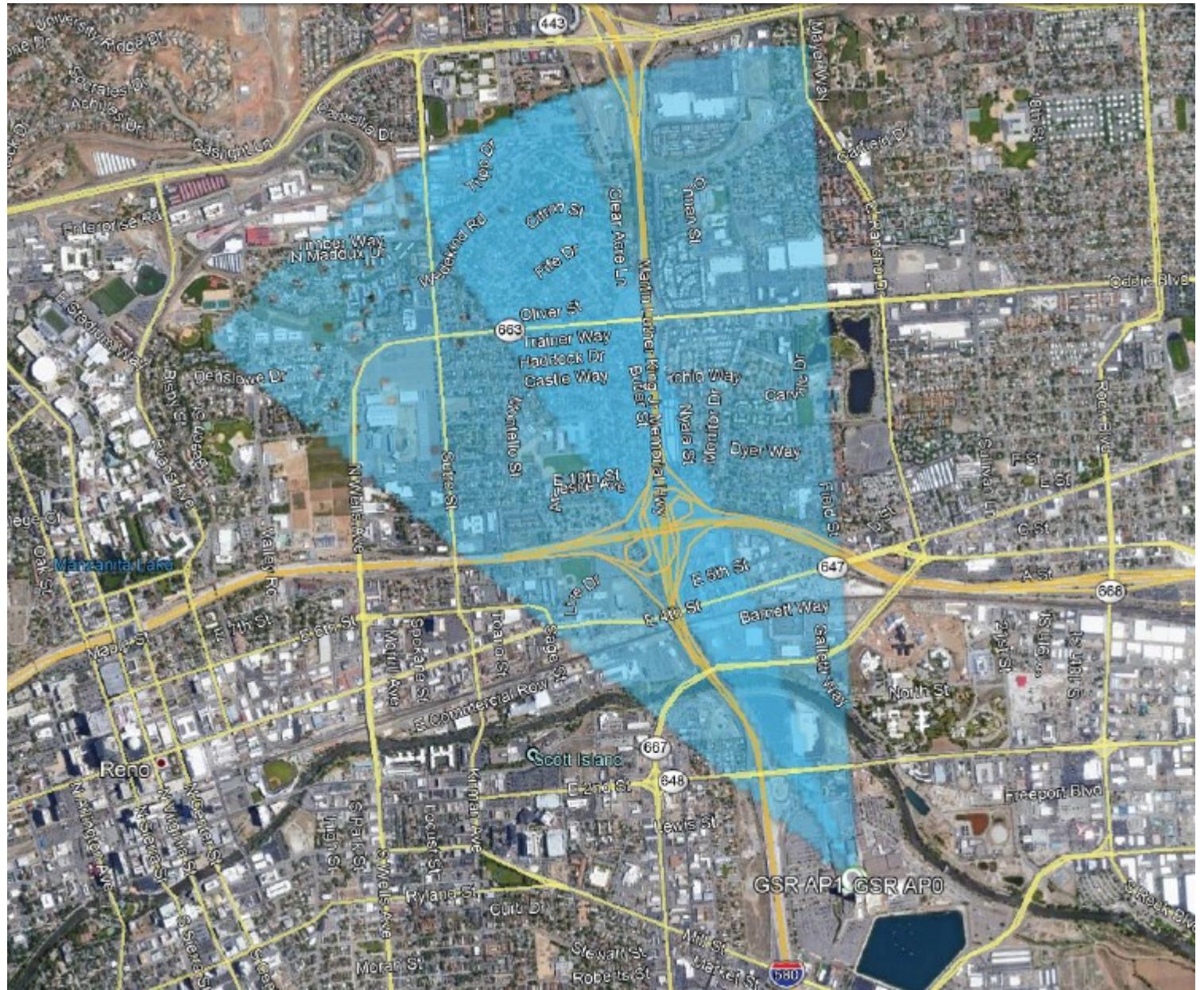
Community wireless for
groups of students living
near one another

cox

kajeet®



Nevada Governor's
Office of Science,
Innovation and
Technology



Connectivity Option #2



Wireless hotspots for
individual students



kajeet®

T Mobile™



AT&T

verizon✓

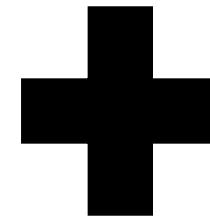


U.S. Cellular

Connectivity Option #3



Subsidized home
internet service



OSIT Support for Districts



Personalized Technical Assistance to Districts:

- Needs assessment
- Network engineering
- Technical specification development
- Procurement & Requests for Proposals
- Application technical review
- Student and family outreach

To Date: OSIT Has Completed One-on-One Meetings with 15 of 17 School Districts to Develop Connectivity Plan

Connectivity Gap*

*Residential high-speed
internet subscription

District	Households in Need of a Connectivity Solution
Carson	500
Churchill	100
Clark	20,000
Douglas	103
Elko	300
Esmeralda	10
Eureka	0
Humboldt	680
Lander	100
Lincoln	10
Lyon	2,000
Mineral	350
Nye	150
Pershing	0
Storey	15
Washoe	6,000
White Pine	125
Total	30,443



Nevada Governor's
Office of Science,
Innovation and
Technology

Device Gap*

*i.e. a Chromebook,
laptop, tablet, etc.

District	Students Without Their Own Device
Carson	0
Churchill	440
Clark	0
Douglas	0
Elko	1000
Esmeralda	80
Eureka	100
Humboldt	250
Lander	200
Lincoln	0
Lyon	4000
Mineral	220
Nye	0
Pershing	70
Storey	120
Washoe	7,000
White Pine	250
Total	13,730



Nevada Governor's
Office of Science,
Innovation and
Technology

Nevada COVID-19 Task Force Update



**RESPONSE
RELIEF
RECOVERY**



Nevada Governor's
Office of Science,
Innovation and
Technology



FCC Waiver Request

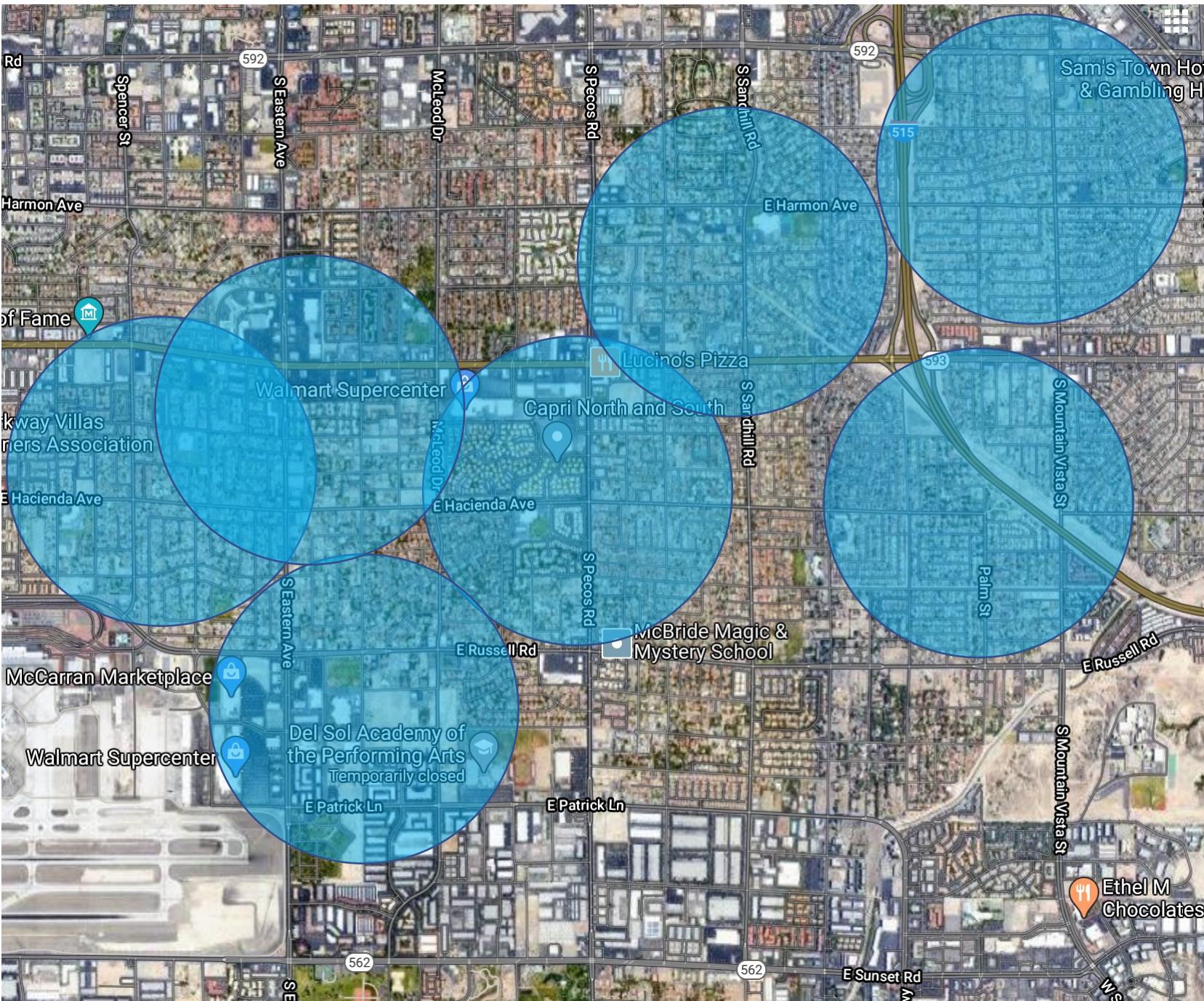
Current School District Connectivity (Buildings)

School District	WAN Ranges	Internet	WAN Status
Carson City	1GB-10GB	NSHE	Upgraded 2019; 1G WAN Circuits over Fiber for all schools but Carson City High School which has 10G over Fiber
Churchill	1GB	1GB	Upgraded 2018-Every School has a 1G WAN Circuit over Fiber
Clark- Urban	1GB+ (Dark Fiber)	120GB	Dark Fiber WAN for Schools within the City of Last Vegas
Clark - Rural East	1GB+ (Dark Fiber)	10GB	Fiber to the East - Moapa and Mesquite
Clark - Rural West	Fixed Wireless	10MB-300MB	Wireless to the West
Douglas	500MB	1GB	Upgraded in 2019 to 500Mbps fiber WAN
Elko - City Schools	1GB-10GB	NSHE	Upgraded in 2017 and 2018 to Fiber
Elko - Rural Schools	Fixed Wireless and Copper	70MB-250MB	Exploring long-term increased connectivity solutions to Owyhee, Jackpot, Wells, and West Wendover
Esmeralda	100MB	1GB	Upgraded 2019 to Fiber for Goldfield and wireless connections for Silver Peak and Dyer
Eureka	100MB	1GB	Upgraded Connection to NSHE PoP in 2018; Applied for Fiber to Crescent Valley in 2020
Humboldt	1GB	6GB	Dark Fiber to all Schools in Winnemucca; 20MB Fiber Connections upgraded in 2019 for Denio; Paradise Valley and Orvada
Humboldt	150MB	150MB	Upgrade Wireless Connection to McDermitt applied for in 2020

Current School District Connectivity – Cont'd

School District	WAN Ranges	Internet	WAN Status
Lander	100MB	100MB	Austin upgraded in 2019 to Fiber; District Owned Fiber to Schools in Battle Mountain that are North of I-80
Lincoln	50MB-250MB	NSHE	Upgraded connections in 2019 from Lincoln County Telephone
Lyon	10GB	10GB	Fiber WAN for all schools upgrades occurred 2017-2020; Core Fiber Ring encompassing Dayton, Fernley; Smith Valley and Yerrington with Schools connected with fiber laterals off the ring.
Mineral	1GB+	2GB	Fiber upgraded in 2019 for Schurz School and for Schools in Hawthorne
Nye- City Schools	1GB	NSHE	Upgrades from VEA for fiber schools in 2019
Nye- Rural Schools	Fixed Wireless	NSHE	Wireless Service to Round Mountain, Gabbs and Duckwater in 2020
Pershing	1GB	100MB	Lovelock Schools new fiber WAN in 2019; Imlay School upgraded connection in 2019
Storey	100MB	250MB	Existing contract expires in 2021
Washoe	1GB-10GB	NSHE	Existing contract expires in 2021
White Pine	1GB	NSHE	Fiber WAN to all schools including those in Ely, Baker, Lund and McGill should be completed in 2020-21

FCC Waiver Request



Nevada Governor's Office of Science,
Innovation and
Technology

Federal Update



Additional Federal Aid for Broadband [Proposed]

- House
Senate
- E-rate or Other Support for WiFi Hotspots, Connected Devices, and Other Equipment
- Support for Home Broadband Connections

A wide-angle photograph of a mountain range at sunset. The sky is filled with warm, orange and yellow hues from the setting sun on the left. Below the clouds, the mountain peaks are visible, some covered in snow. In the foreground, a slope is covered with snow and several evergreen trees. The overall atmosphere is serene and majestic.

Questions?

Brian L. Mitchell - Director

blmitchell@gov.nv.gov



Nevada Governor's
Office of Science,
Innovation and
Technology