National Telecommunications and Information Administration

United States Department of Commerce

CONNECT SOUTH DAKOTA

SOUTH DAKOTA DEPT. OF **LABOR & REGULATION**

CONNECT SOUTH DAKOTA

BROADBAND SUMMIT 2024

EVENT SCHEDULE

WEDNESDAY, APRIL 10

Sioux Falls Convention Center · Meeting Rooms 8-10

INTRODUCTIONS

- ## SOUTH DAKOTA CONNECTSD TEAM
    - Mike Waldner, Broadband Program Manager
    - Haleigh Overseth, BEAD Coordinator
    - Sage Swenson, Broadband Program Intern **Extraordinaire**

- ## DEPARTMENT OF LABOR AND REGULATIONS (DLR) TEAM
    - Bill Wendling, Digital Opportunity Coordinator
    - Kendra Ringstmeyer, Director of Workforce Training

- ## NTIA STAFF
    - Kim Owen, Federal Program Officer (SD, ND)
    - Robyn Madison, Regional Director, Northern Plains (CO, WY, MT, ND, SD, NE, KS, IA)

CONNECT
SOUTH DAKOTA

Technical Information about the World Wide Web server

Information Services

Network Services G

General info

Manufacturer:	Gateway 2000
Case type:	Tower
Microprocessor:	Intel 66MHz Pentium
Bus:	ISA

Memory

Amount:	64 ~~32~~ megabytes
Speed:	60 nanoseconds
Number of SIMM	

http://sunsite.unc.edu/cisco/tracy-article.html

Waldner, Mike

From: Waldner, Mike
To: Ramlo, Kirk; Edman, Jim; Linstrom, Steve
Subject: Why Internet? Why the Web??
Date: Thursday, September 29, 1994 11:50AM

I think we need to get a few things across to anyone wondering about the web. Here is some of the main highlights!

These are not only for Bureau of Finance but for anyone!

I really have never seen a service that covers so much - both for getting information and for sending or making information available.

An inexpensive, fast, efficient way to:

1) Send/receive Information (via MS Mail) - communicate with other peers world wide without having to spend $$ on phone calls, or on postage, or to send a disk with the files on it, etc.

2) Make up-to-date, real-time agency information available to the citizens of South Dakota. Things like public reports, agency mission statement, contact information, consumer reports, handbooks, state laws that pertain to the specific agency, employment opportunities with the State, (etc......) Potentially - all the laws - perhaps easy access and look up an legislation during session??

3) Good way to present information about South Dakota - for Dept. of Tourism - We can perhaps get more tourist to visit our Great state - thus bringing in more and more $$$ to the state?

4) Great way to attract potential big businesses to the state - (example: prove to them that while they are here in South Dakota - Because of our digital connectivity they are able to stay in touch and compete world wide.) If we do not have Internet or Digital super highway access big companies will not look at our state to house their offices.

5) Good way to share information within your agency or within state gov. - policy books, Insurance questions, much of BOP's handbooks, retirement books/information, etc.

6) On-line state directory is a potential.

7) Gather information (world wide) as it relates to each specific agency. (Federal Dept. of health, Whitehouse papers, access to Lib. of congress, members of congress, EPA, Dep. Education,)

8) Well over twenty million people, primarily professionals and scholars are now in some sort of regular contact with one another over the Internet. They are sharing information like crazy and everyone involved is benefitting. If you join, you will make that cooperative process just that much more powerful. People on the Internet have learned that you can find out what the latest problems and solutions are that your profession is dealing with.

9) It really is inexpensive: Compared to the rates of other services (US postoffice, Fed X, UPS, etc). An

S.D. Web directory structure (as of 7/22/94)

/usr/local/etc/httpd/htdocs/state (overview)

CONNECT SOUTH DAKOTA

THIS IS OUR WHY... IT IS PERSONAL

CONNECT SOUTH DAKOTA

ConnectSD Broadband Program
100% Connected
Quick Funding Overview

SOUTH DAKOTA
GOVERNOR'S OFFICE OF ECONOMIC DEVELOPMENT

I'm a single parent moved back to SD to help with my aging parent. My daughter has school assignments, and I can't even send the teacher a reply email.

My grandkids don't want to visit me because I don't have Internet
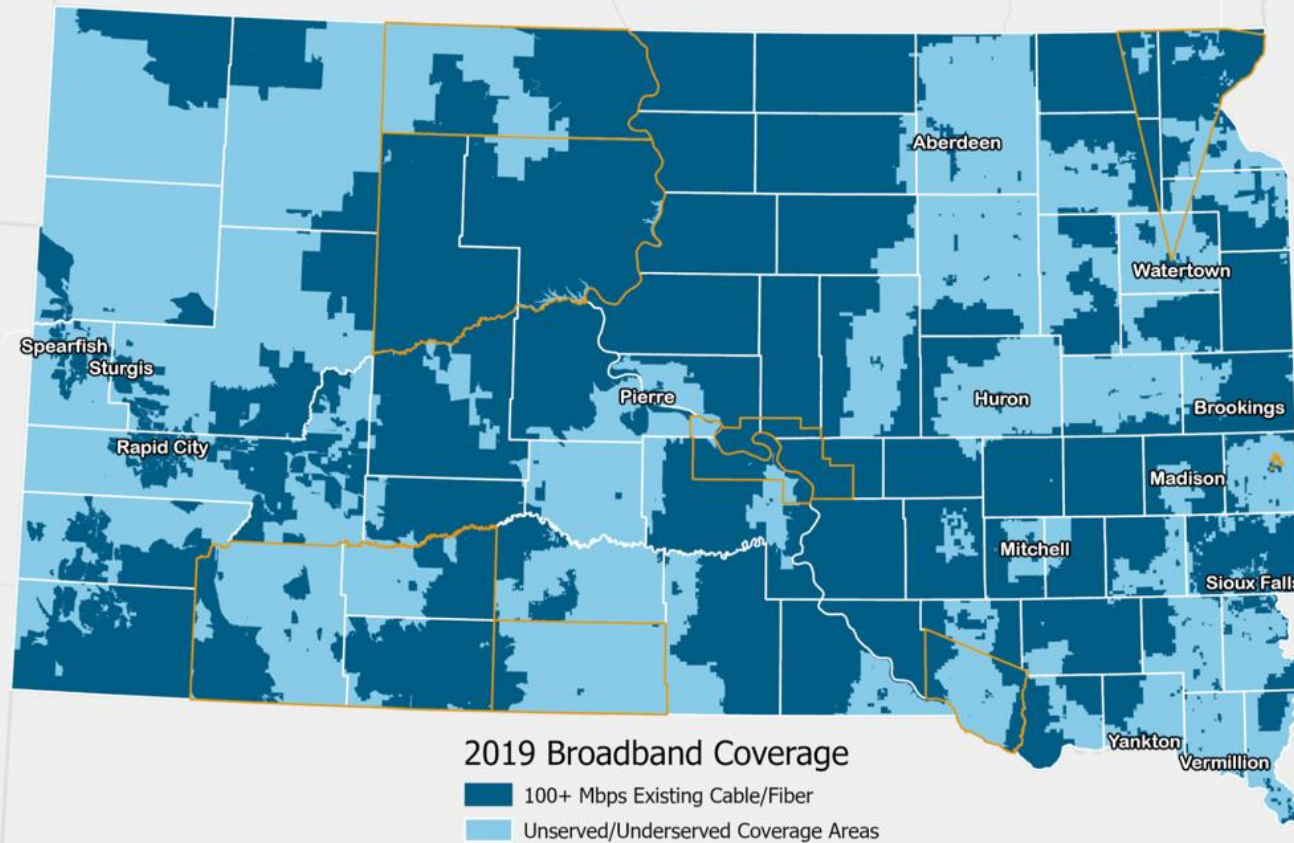
"I currently work from home with an employer-paid internet that I use for my work. I have the fastest service available. A residential service is 3mb. A business service is 15mb.

Because it's a microwave signal, I'm down about 20 % of the time. I cannot stream movies, cannot video conference on my computer."
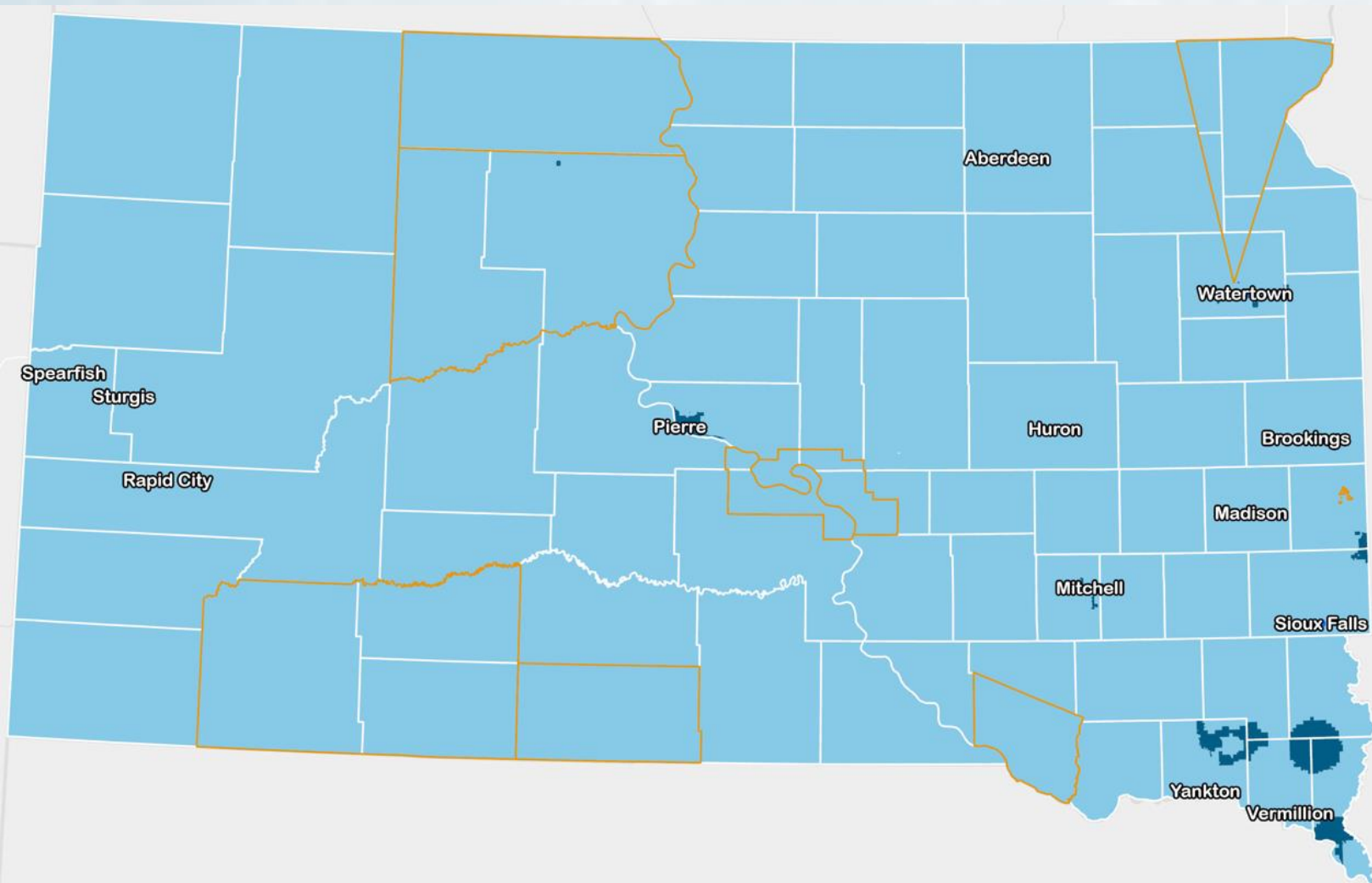
2019 Broadband Coverage

- 100+ Mbps Existing Cable/Fiber
- Unserved/Underserved Coverage Areas

WHERE WE STARTED IN 2019

➢ Cable/Fiber connected areas capable of minimum 100Mbps download

2019

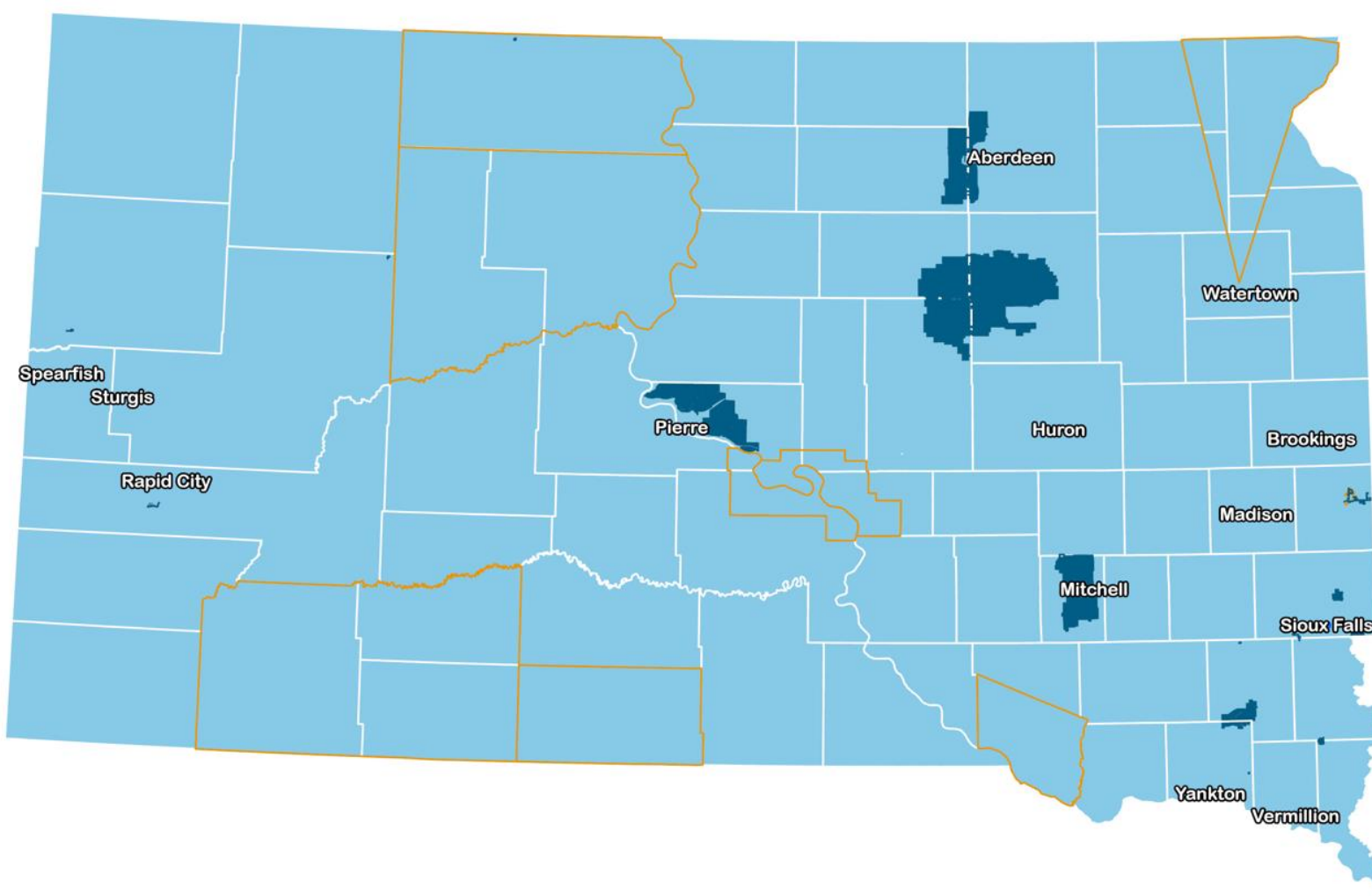- Awarded $5M
- 8 projects - 8 applicants
  - All spent in CY 2019
  - Projects complete

- Funding Source:
  - $5M General Funds (No Bill)
  - Appropriated by Legislature to launch ConnectSD program
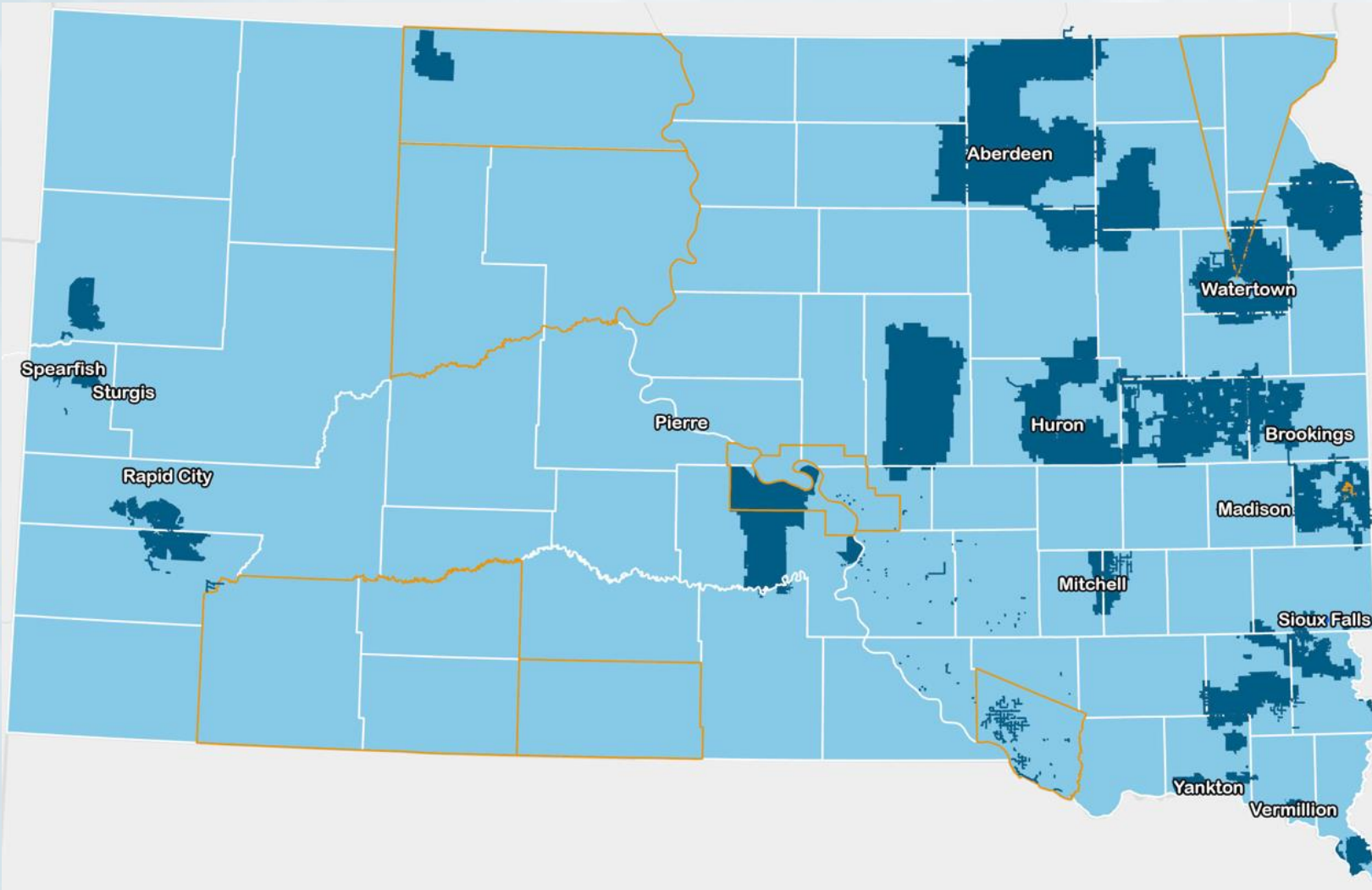
➡ **4,979 LOCATIONS CONNECTED**

3,700 LOCATIONS CONNECTED

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ConnectSD Broadband Program
100% Connected
Quick Funding Overview

SOUTH DAKOTA
GOVERNOR'S OFFICE OF
ECONOMIC DEVELOPMENT

2020

➢ Awarded $5M, 1,736 locations
  ➢ 4 projects - 4 applicants
  ➢ All spent in CY 2020
  ➢ Projects complete
➢ Funding Source:
  ➢ $5M General Funds
  ➢ Appropriated by legislature through Legislative Session 2020 HB 1189

➢ Awarded $6.6M, 1,964 locations
  ➢ 9 projects - 9 applicants
  ➢ All spent in CY 2020
  ➢ Projects complete
➢ Funding Source:
  ➢ Governor allocated $6.6M in Federal CARES Act funds

13,191 LOCATIONS CONNECTED

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Quick Funding Overview

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GOVERNOR'S OFFICE OF ECONOMIC DEVELOPMENT

2021

➢ Received $75M General Funds
➢ Appropriated by Legislature through Legislative Session 2021 - SB 34
  ▪ $200,000 set aside for administrative costs

➢ Awarded $31.6M (March 2021)
  ➢ 25 projects, 15 applicants, 7,047 locations
➢ Funding Source: CARES ACT Funds
  ➢ All spent - Projects complete

➢ Awarded $27.5M (June 2021)
  ➢ 21 projects, 13 applicants, 6,144 locations
➢ Funding Source: General funds from 2021 SB 34
  ➢ June 2022 sent amendments to awardees to optionally pay via SB 55(SLFRF/ARPA) funds
    ➢ Amended 11 projects - 5 awardees
    ➢ $10M ($9.7 actual) supplanted/switched from General Funds to SLFR/ARPA Federal Funds
   ➢ $18M of these June 21' awards remain being paid using the General Funds

2022

➢ Received $50M in State Local Fiscal Recovery Funds (SLFRF/ARPA Federal Funds)
  ➢ Appropriated by Legislature through Legislative Session 2022 - SB 55

➢ Awarded $25.1M (March 22' awards)
  ➢ 16 projects, 10 applicants, 4,467 locations
➢ Funding Source:
  ➢ 2022: SB55 SLFRF/ARPA funds

➢ Awarded $12.8M (July 22' awards)
  ➢ 6 projects, 5 applicants, 1,209 locations
➢ Funding Source:
 ➢ 2022: SB55 SLFRF/ARPA funds

2022: All Awardees
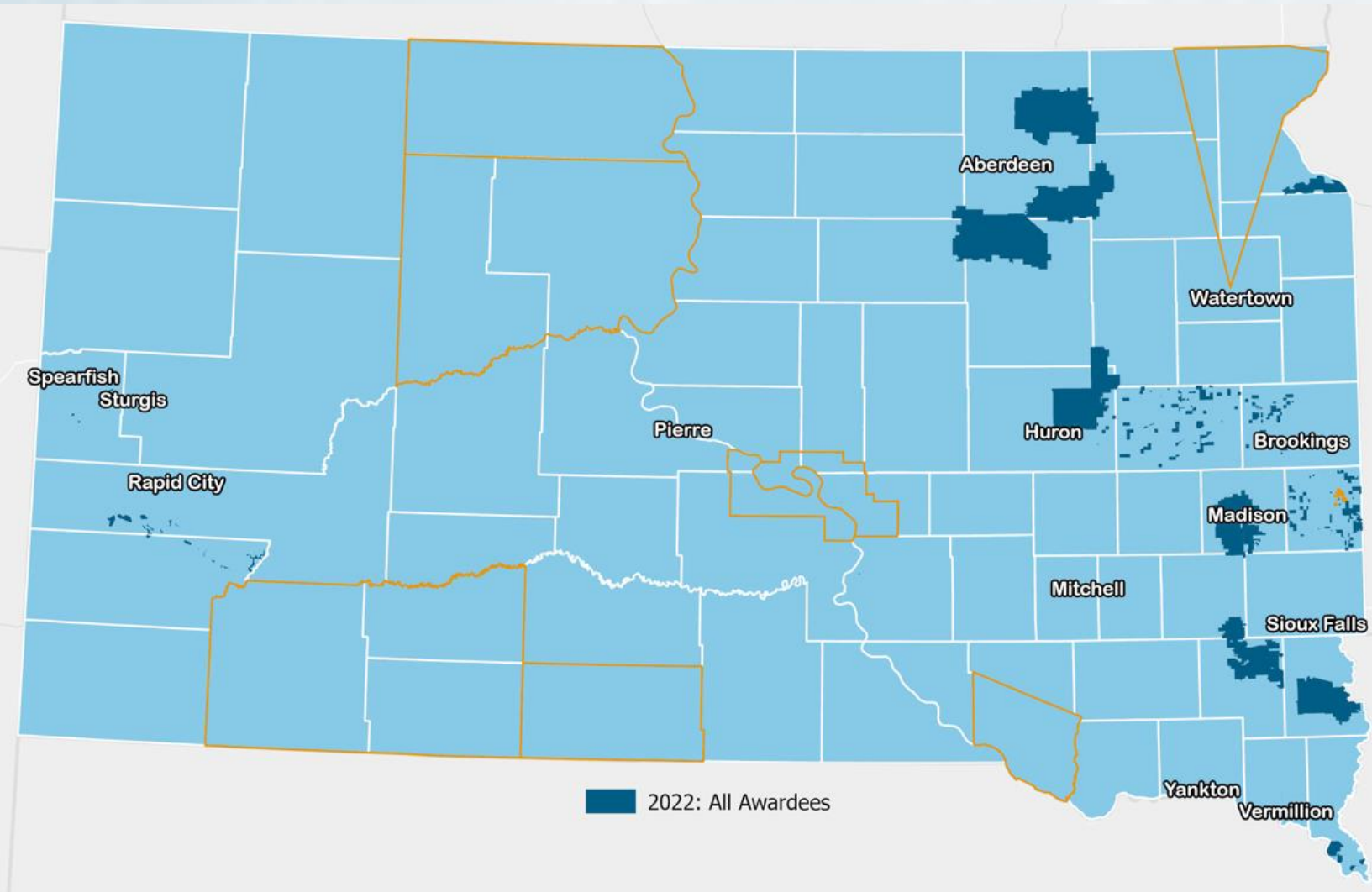
5,676 LOCATIONS CONNECTED

TRIBAL AWARDS IN 2022

Date	Tribal Area	Project	Federal Program	Grant Amount	# Location	Cost per location	Speeds	Technology
05/04/2022	Cheyenne River (CRSTTA)	Use & Adoption	NTIA Tribal Broadband Connectivity Program	$ 2,367,685.00				
05/04/2022	Flandreau Santee Sioux Tribe	Use & Adoption	NTIA Tribal Broadband Connectivity Program	$ 2,477,508.60				
05/04/2022	Sisseton Wahpeton Oyate of t	Use & Adoption	NTIA Tribal Broadband Connectivity Program	$ 1,847,628.00				
08/23/2022	Oglala Sioux Tribe	Deployment	NTIA Tribal Broadband Connectivity Program	$ 19,620,766.00	1,821	$10,774.72	50Mbsp/10Mpbs	Fixed Wireless Fiber & Microwave backhaul
08/23/2022	Rosebud Sioux Tribe	Deployment	NTIA Tribal Broadband Connectivity Program	$ 48,352,973.57	1,526	$31,686.09	602 Mbps/102 Mbps	Fixed Wireless Fiber to Towers & Tribal Gov
10/06/2022	Standing Rock Telecom *Not sure how much in SD	Deployment	NTIA Tribal Broadband Connectivity Program	$ 8,637,951.60	1,000	$ 8,637.95	50 Mbps/10 Mbps	Fixed Wireless
10/27/2022	Cheyenne River (CRSTTA)	Deployment	USDA ReConnect - 3rd Round	$ 16,957,883.00	280	$60,563.87	1Gig/1Gig	Fiber to premises
11/17/2022	Lower Brule Sioux Tribe	Deployment	NTIA Tribal Broadband Connectivity Program	$ 2,675,390.85	485	$ 5,516.27	400Mbps/100Mbps	Wireless LTE
		Total		$ 102,937,786.62	5,112	$20,136.50		
			USDA Deployment Awards	$ 16,957,883.00				
			NTIA Deployment Awards	$ 79,287,082.02				
			Total:	$ 96,244,965.02				
			NTIA Adoption and Usage (Digital Equity)	$ 6,692,821.60				

2023

➢ Awarded $29M (May 23' awards)
➢ Awarded $32.5M (Dec 23' awards)
  ➢ 15 projects, 10 applicants
  ➢ 1,731 Miles of Fiber
  ➢ 1,530 sq. miles of coverage

➢ Funding Source:
  ➢ 2022: SB 55, $50M SLFRF
    ➢ 2 projects, 1 applicant
    ➢ $3.2M
  ➢ 2021: SB 34, $75M General funds
    ➢ 13 projects, 9 applicants
    ➢ $58.3M
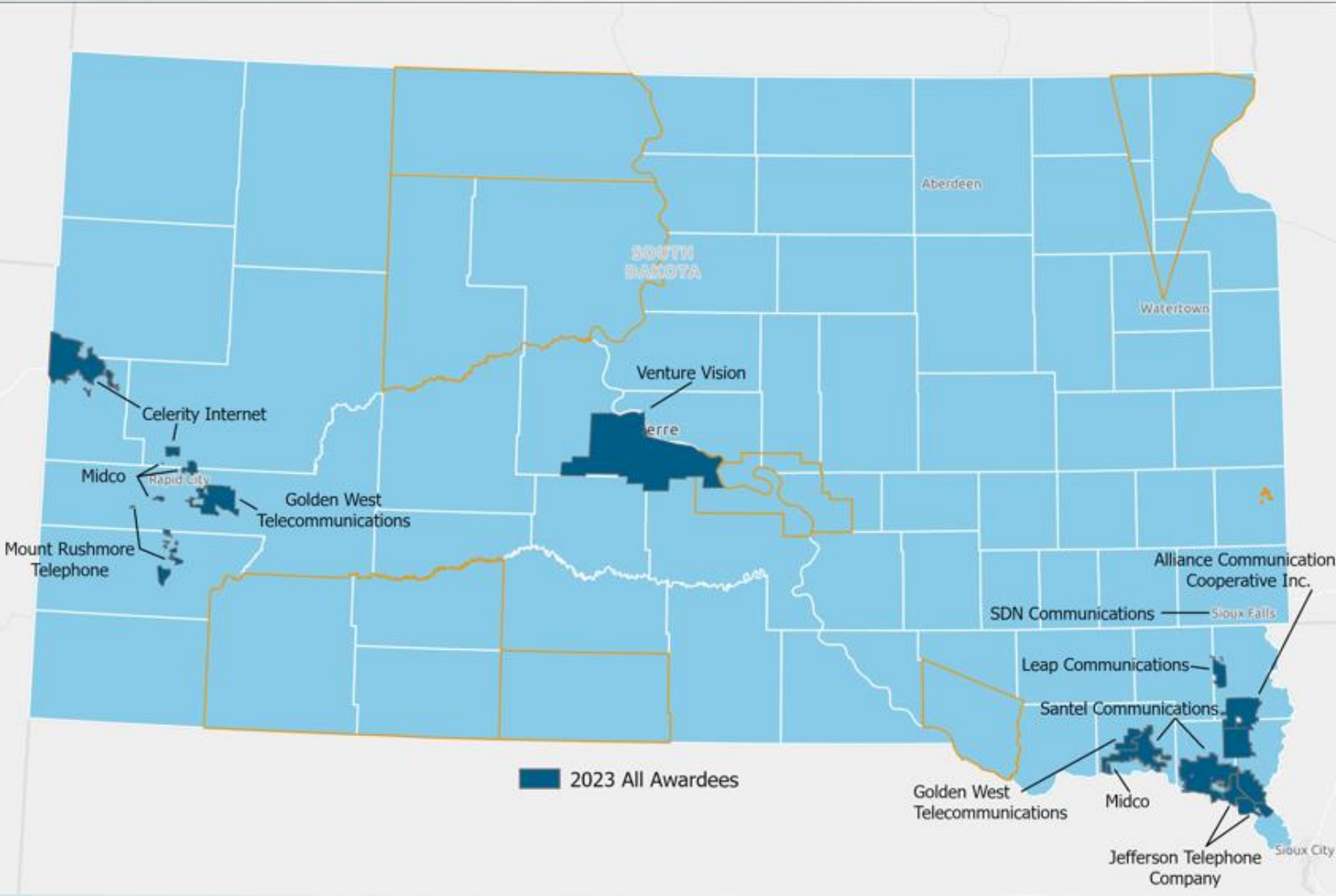
5,059 LOCATIONS CONNECTED

TRIBAL AWARDS IN 2024

ReConnect Program: Proposed and Approved Projects — USDA Rural Development

100% Grant Approved

Project Details

Applicant Name: Oglala Sioux Tribe
Program Type: ReConnect - FY2023
Funding Type: 100% Grant for Alaska Native Corporations, Tribal Governments, Colonias, Persistent Poverty Areas and Socially Vulnerable Communities
Grant Amount Requested: $34,999,264
Loan Amount Requested: $0
Other Funds: $0
Matching Funds: $0
Total Project Cost: $34,999,264
Completion Status: Under Review
Households w/out Sufficient Access to Broadband: 816
Households: 816
Population: 3,322
Square Miles: 533.19
Congressional Districts: SD-00

Zoom to

Square Miles: 533.19
Congressional Districts: SD-00

Description of Project: The Oglala Sioux Tribe (OST), a federally recognized Indian Tribe located on the Pine Ridge Indian Reservation in South Dakota, proposes to build an FTTH network to provide 100 Mbps symmetrical broadband service to 846 households, 13 businesses, and 9 institutions, 100% of which lack sufficient access to broadband. The project consists of the construction of middle-mile, distribution and drop fiber for a total of 338 route miles, and the deployment of the associated equipment and systems.

Zoom to

CONNECTSD FUNDING ON TRIBAL LANDS

➢ ConnectSD has funded 11 projects on 7 of our 9 tribal lands
  ➢ *Red circles indicate location of projects*
  ➢ *Nine (9) different companies awarded*

➢ Rosebud and Oglala are the only tribal lands without a project
  ➢ *Rosebud: ConnectSD never had any applications*
  ➢ *Oglala: The existing provider connected the locations with their own investment*

As of April 2024,

The ConnectSD program has leveraged ….
$ 85 million dollars of state general funds
$ 89 million dollars of federal funds
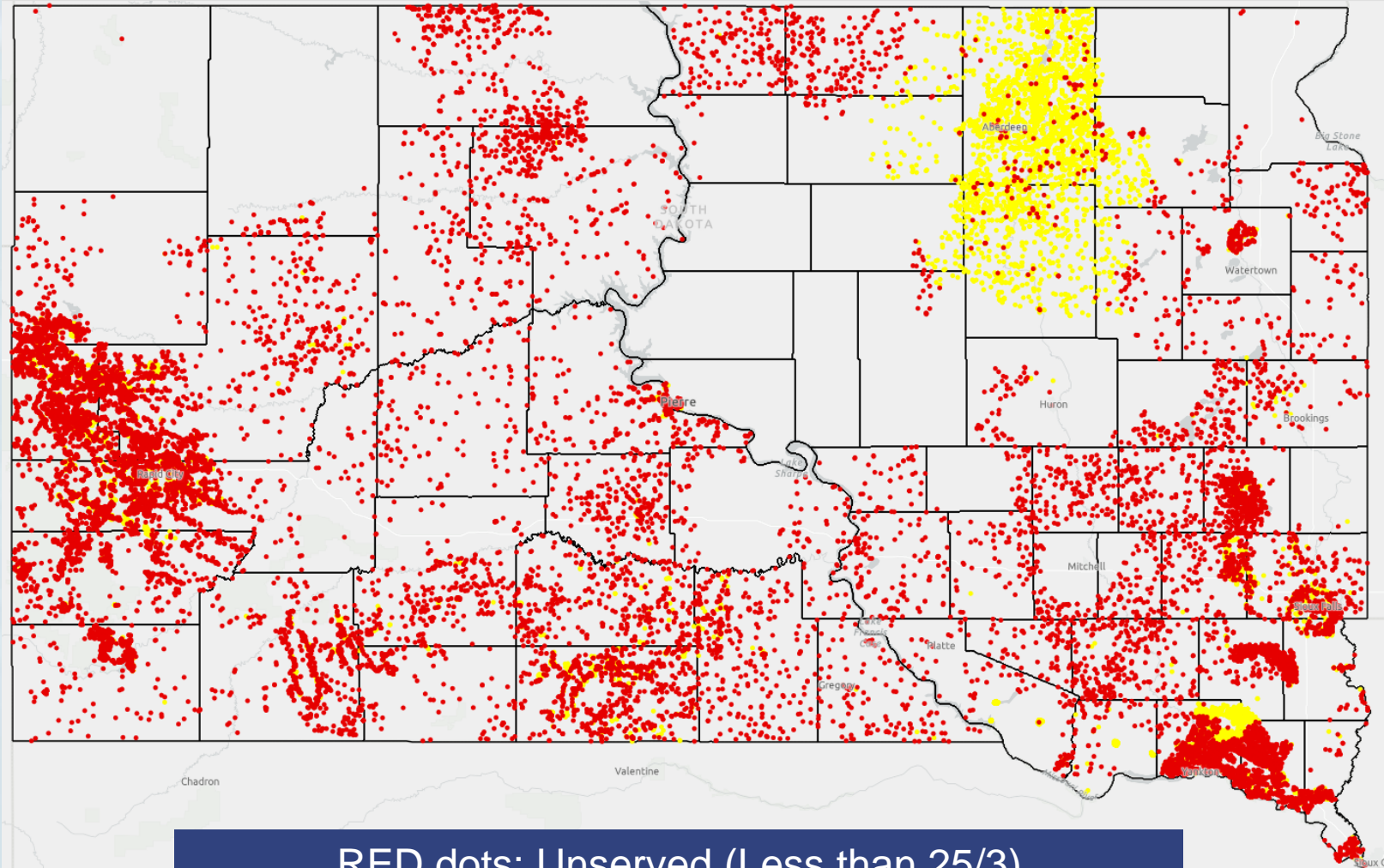$127 million dollars of private investment from the
        broadband providers

These investments total almost $301 million dollars in broadband expansion in our state since Governor Noem took office in 2019.

With these funds, we have awarded 106 grant awards or projects and have connected or are in the process of connecting over 31,250 locations that either did not have Internet or were underserved before starting this program.

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ConnectSD Broadband Program
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Quick Funding Overview

SOUTH DAKOTA
GOVERNOR'S OFFICE OF
ECONOMIC DEVELOPMENT

QUICK SUMMARY

BEAD Eligible locations per NTIA.

South Dakota Broadband

RED dots: Unserved (Less than 25/3)
YELLOW dots: Underserved (Less than 100/20)

ConnectSD Broadband Program
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Quick Funding Overview

2024 PLANS

➢ Continue finding the unserved locations

➢ Monitor ConnectSD projects
  ➢ Close out of ConnectSD awards
    ➢ ~20 projects scheduled in 23'

➢ Continue "Internet for All" grant activities
  ➢ Find all locations left to connect
  ➢ Public Input/Challenge Process
  ➢ May have a grant round if all grant activities are approved by NTIA/NIST

➢ Per BEAD grant:
  ➢ We must account for all these

"Dots on the Map"

2024 Broadband Coverage

■ 100+ Mbps Cable/Fiber, and Federal, Tribal and State Awarded Area
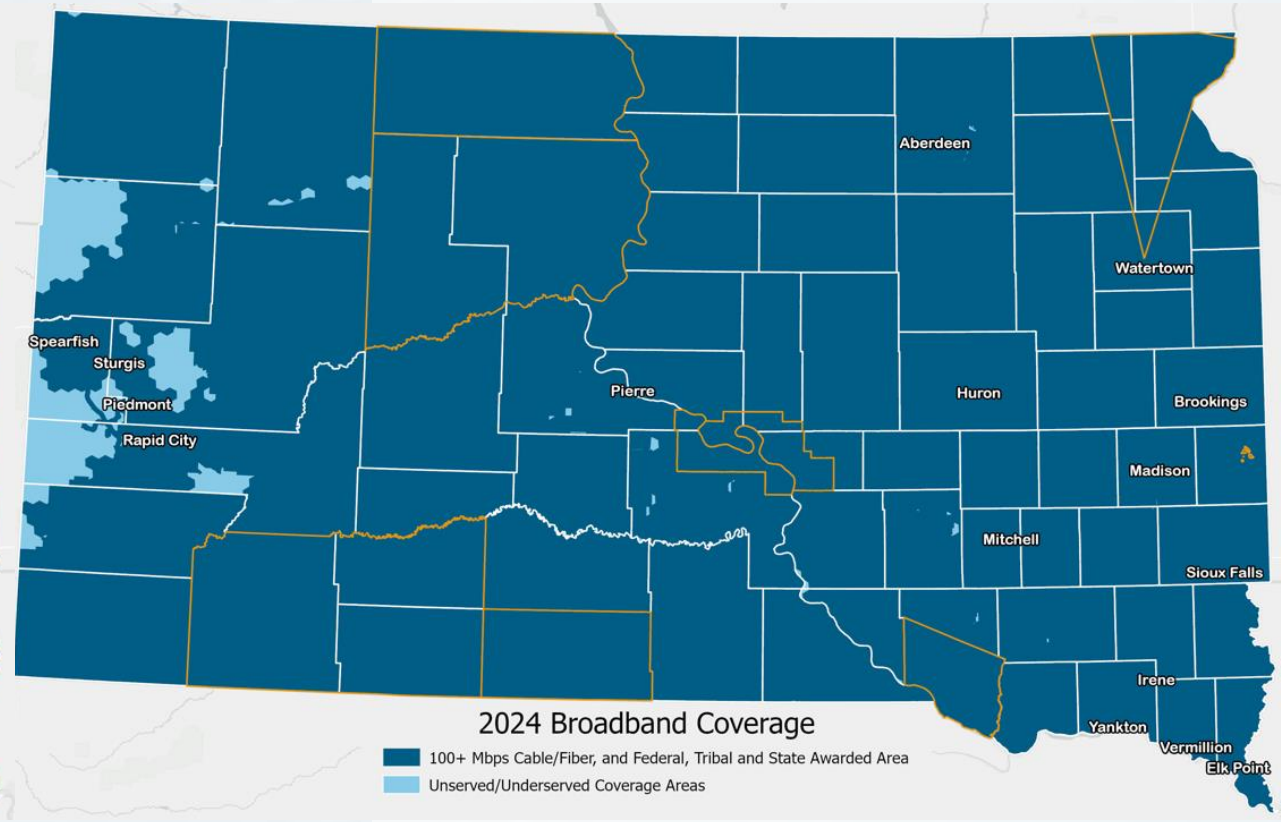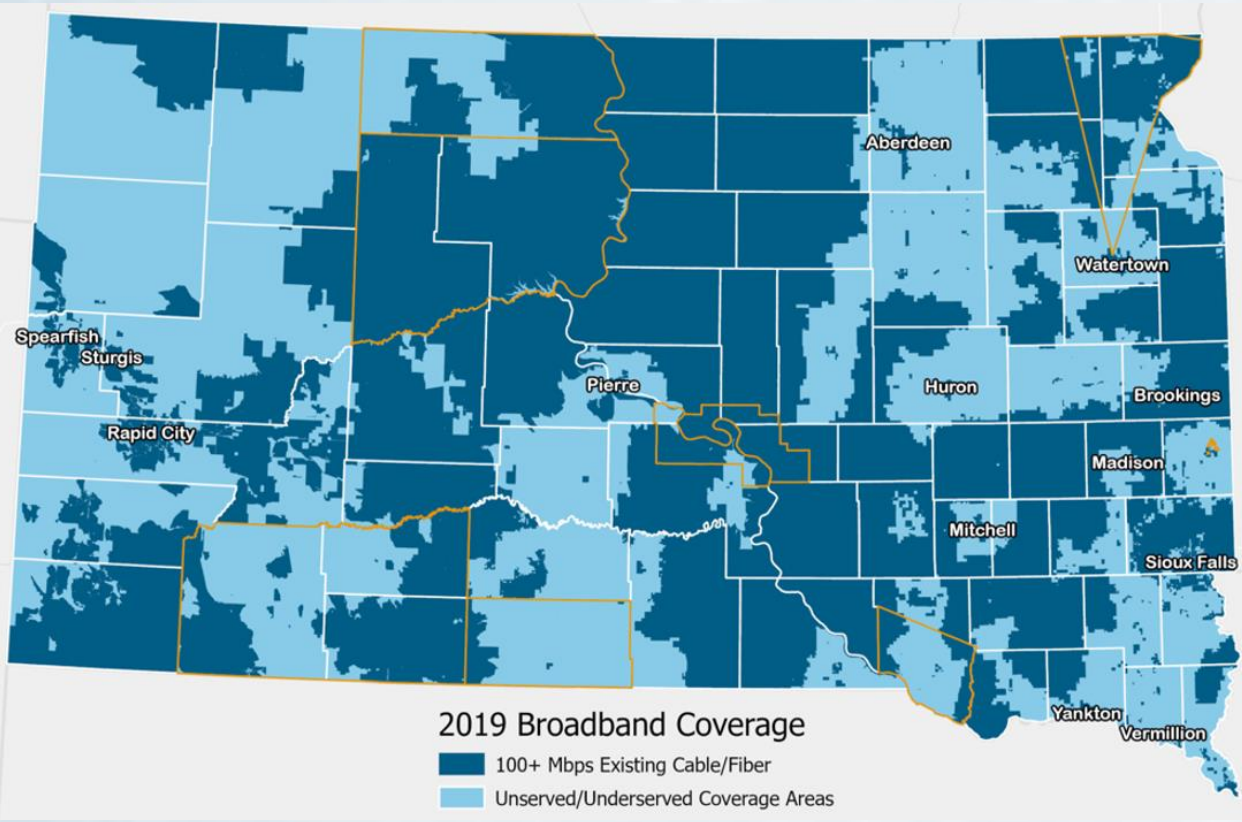■ Unserved/Underserved Coverage Areas
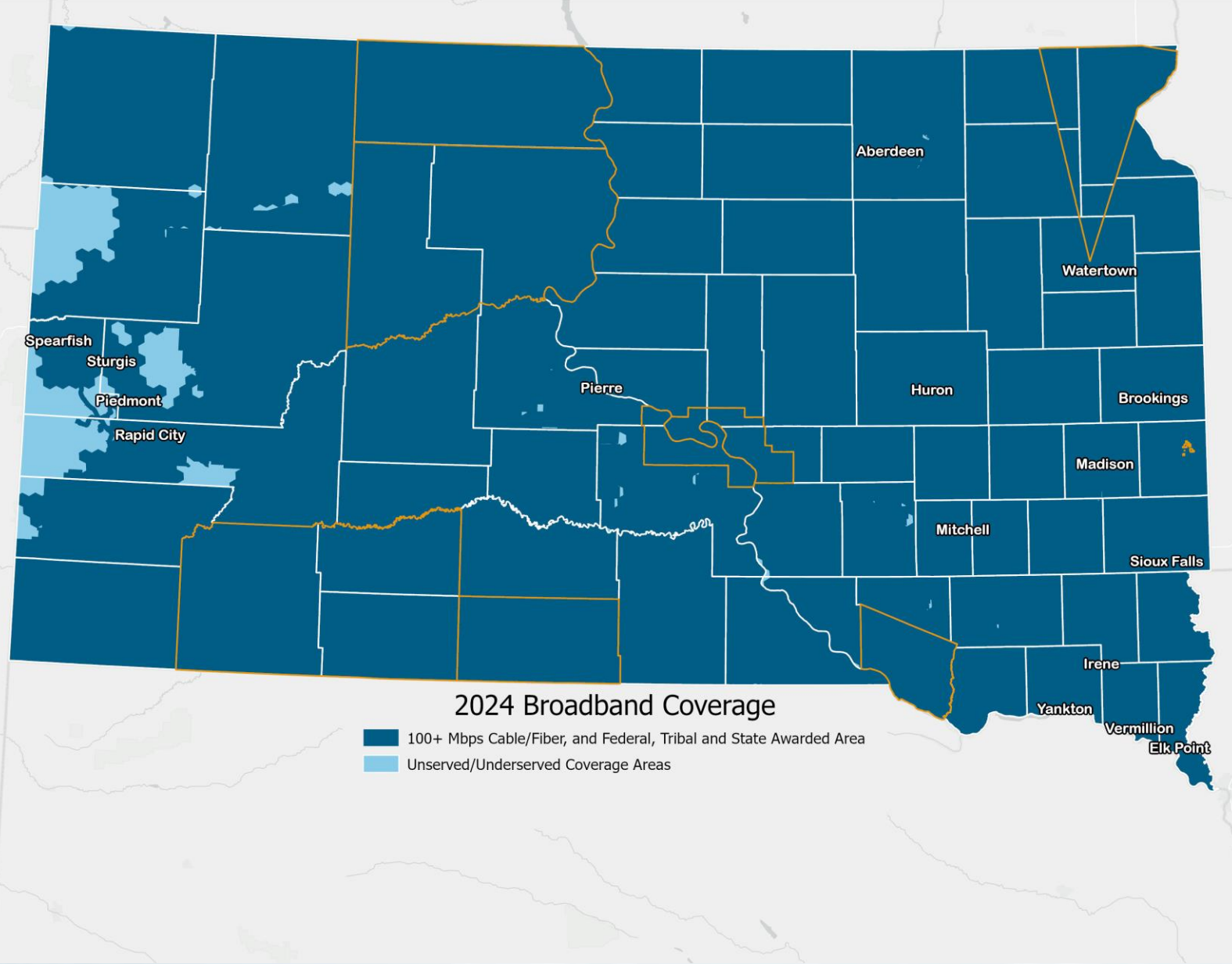
WHERE WE ARE IN APRIL 2024

➢ South Dakota Coverage in 2024
- Compare: "Where we started in 2019"

➢ Cable/Fiber connected areas capable of minimum 100Mbps download

➢ These areas now (or will) have the potential of Gigabit speeds and faster.

ConnectSD Broadband Program
Compare 2019 - 2024

2019 Broadband Coverage
- 100+ Mbps Existing Cable/Fiber
- Unserved/Underserved Coverage Areas

2024 Broadband Coverage
- 100+ Mbps Cable/Fiber, and Federal, Tribal and State Awarded Area
- Unserved/Underserved Coverage Areas

BEAD
&
DIGITAL OPPORTUNITY

PROGRAM OVERVIEW

BROADBAND EQUITY, ACCESS, AND DEPLOYMENT (BEAD) PROGRAM

The Broadband Equity, Access, and Deployment (BEAD) Program provides $42.45 billion from President Biden's Bipartisan Infrastructure Law to expand high-speed Internet access by funding planning, infrastructure deployment, and adoption programs across the country.

DIGITAL EQUITY ACT PROGRAMS

The Digital Equity Act provides $2.75 billion to establish **three grant programs** that promote digital equity and inclusion. They aim to ensure that all people and communities have the skills, technology, and capacity needed to reap the full benefits of our digital economy.

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South Dakota BEAD Program Framework

Vision:

Through strategic investments, South Dakota will connect every rural and urban resident, agricultural and commercial business, and community anchor institution to high-speed broadband internet across all locations in the State, allowing every South Dakota citizen to fulfill their economic and social pursuits.

Goals:

1. **Universal Access:** Provide every rural and urban resident, agricultural and commercial business, and community anchor institution with the means to access broadband by 2027.

2. **Economic Enhancement:** Support economic growth, job creation, and workforce development through expanded broadband access and adoption.

3. **Digital Citizenship:** Expand opportunity for South Dakotans to exercise competent civic engagement.

4. **Longevity:** Ensure broadband access continues beyond 2028.

Objectives:

1.1 Deployment: Deploy broadband infrastructure throughout all regions of the State with the potential of minimum download speeds of at least 250 Mbps and upload speeds of at least 20 Mbps, with 500 Mbps symmetrical and beyond by 2027.

1.2 Access: Ensure every South Dakota citizen has reliable access to high-speed internet through personal devices or public access points.

1.3 Affordability: Provide affordable access to broadband that every South Dakota citizen needs for work, school, healthcare, and other aspects of daily life.

1.4 Adoption: Engage community stakeholders to determine roadblocks to broadband adoption in their respective communities and ways the State can address gaps or support the communities in overcoming these issues.

1.5 Digital Equity: Increase awareness around existing programs that address digital equity and initiatives established through the Digital Equity Act.

2.1 Economic Development: Encourage South Dakotans to realize economic benefits of expanded broadband access through associated increase in productive and innovation in areas such as education, healthcare services, and workforce development, among others.

2.2 Job Creation: Stimulate local job creation both for construction and development activities associated with the laying of broadband infrastructure, as well as creation of new jobs that require improved digital literacy and internet access.

2.3 Workforce Development: Coordinate with the Department of Labor and Regulation (DLR) to establish a long-term partnership to ensure the workforce has the required digital literacy to progress in its choice of career trajectory.

3.1 Competent Use of Internet Education: Build competent and responsible users of the internet through early and ongoing education, training, and other resources.

3.2 Digital Government: Provide access to government services online to improve the quality of life of every citizen and enhance the government's efficiency of service delivery.

3.3 Public Safety: Ensure public safety services have sufficient tools, training, and broadband access to effectively coordinate with one another and protect the general public.
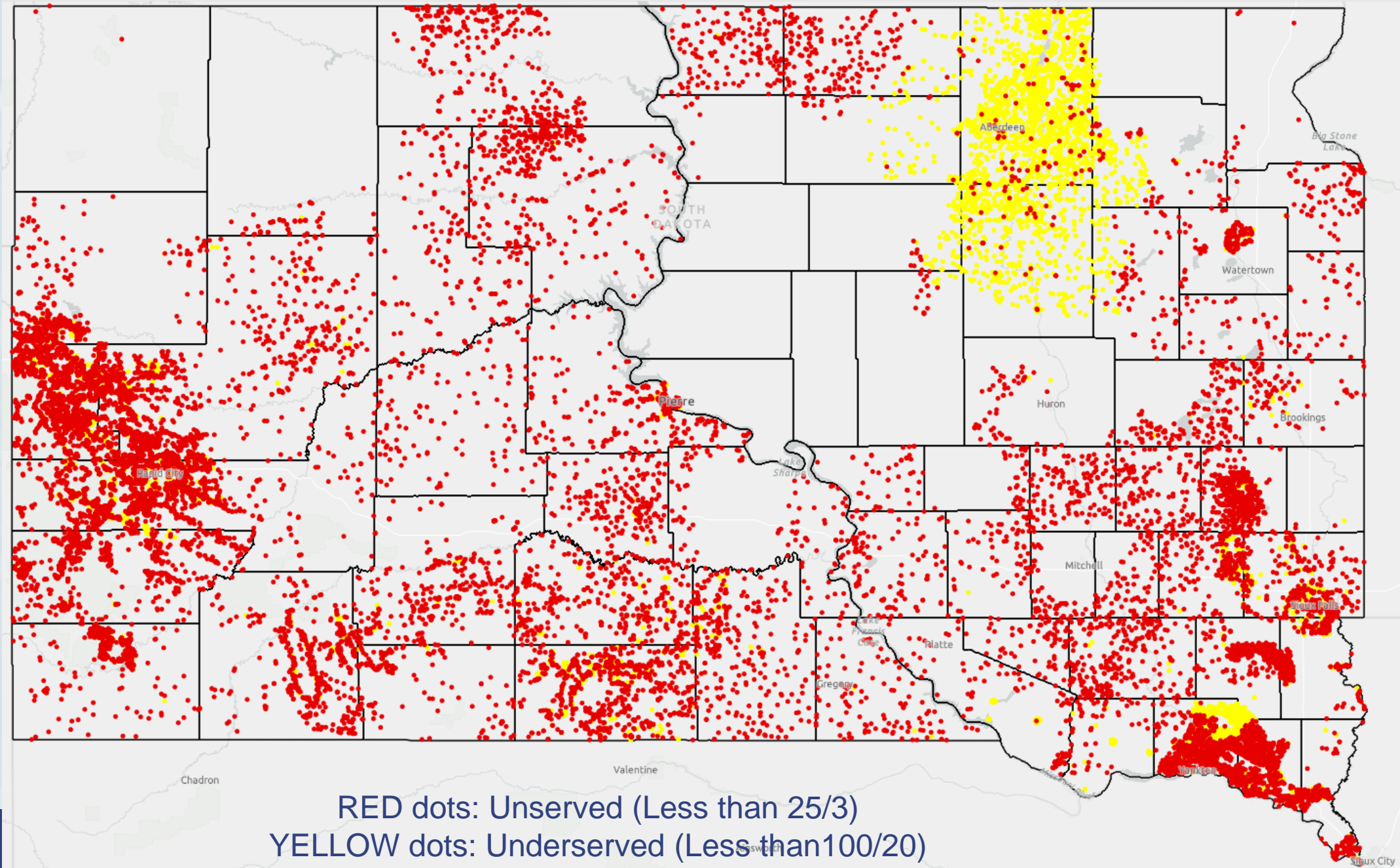
4.1 Broadband Deployment: Create a strategy to establish fiber as the State's preferred type of broadband.

4.2 Ongoing Digital Literacy: Create resources to provide continued support to businesses and households to use broadband beyond 2028.
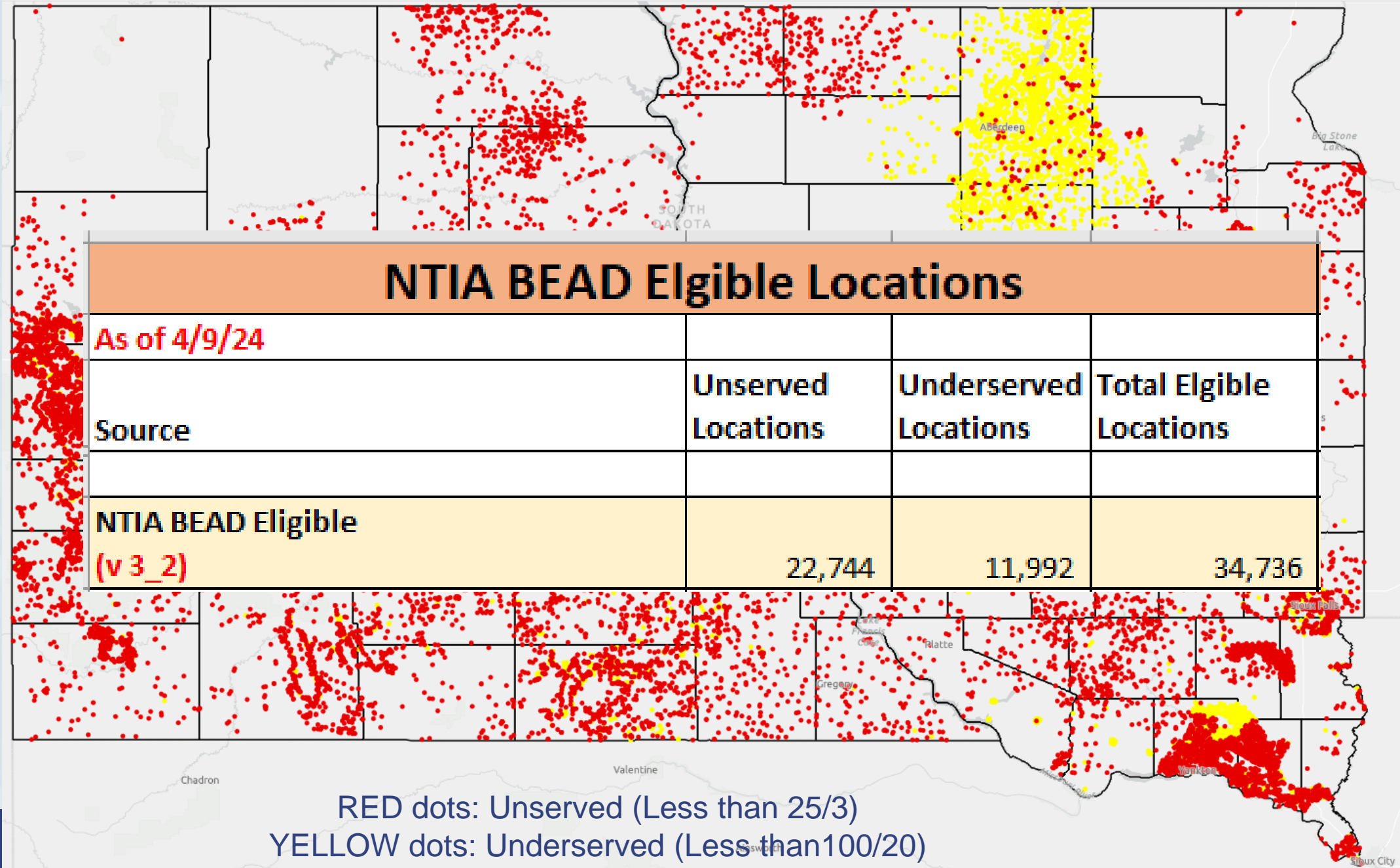
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BEAD ELIGIBLE LOCATIONS

-

STARTING POINT

RED dots: Unserved (Less than 25/3)
YELLOW dots: Underserved (Less than100/20)

CONNECT SOUTH DAKOTA

BEAD ELIGIBLE LOCATIONS

-

STARTING POINT

NTIA BEAD Elgible Locations

As of 4/9/24			
Source	Unserved Locations	Underserved Locations	Total Elgible Locations
NTIA BEAD Eligible (v 3_2)	22,744	11,992	34,736

RED dots: Unserved (Less than 25/3)
YELLOW dots: Underserved (Less than100/20)

BEAD
ELIGIBLE
LOCATIONS

-

MAPPING

One rural rancher with multiple structures listed in the BDC/FCC fabric:

BEAD ELIGIBLE LOCATIONS

–

MAPPING

CONNECT
SOUTH DAKOTA

RR Bridge:

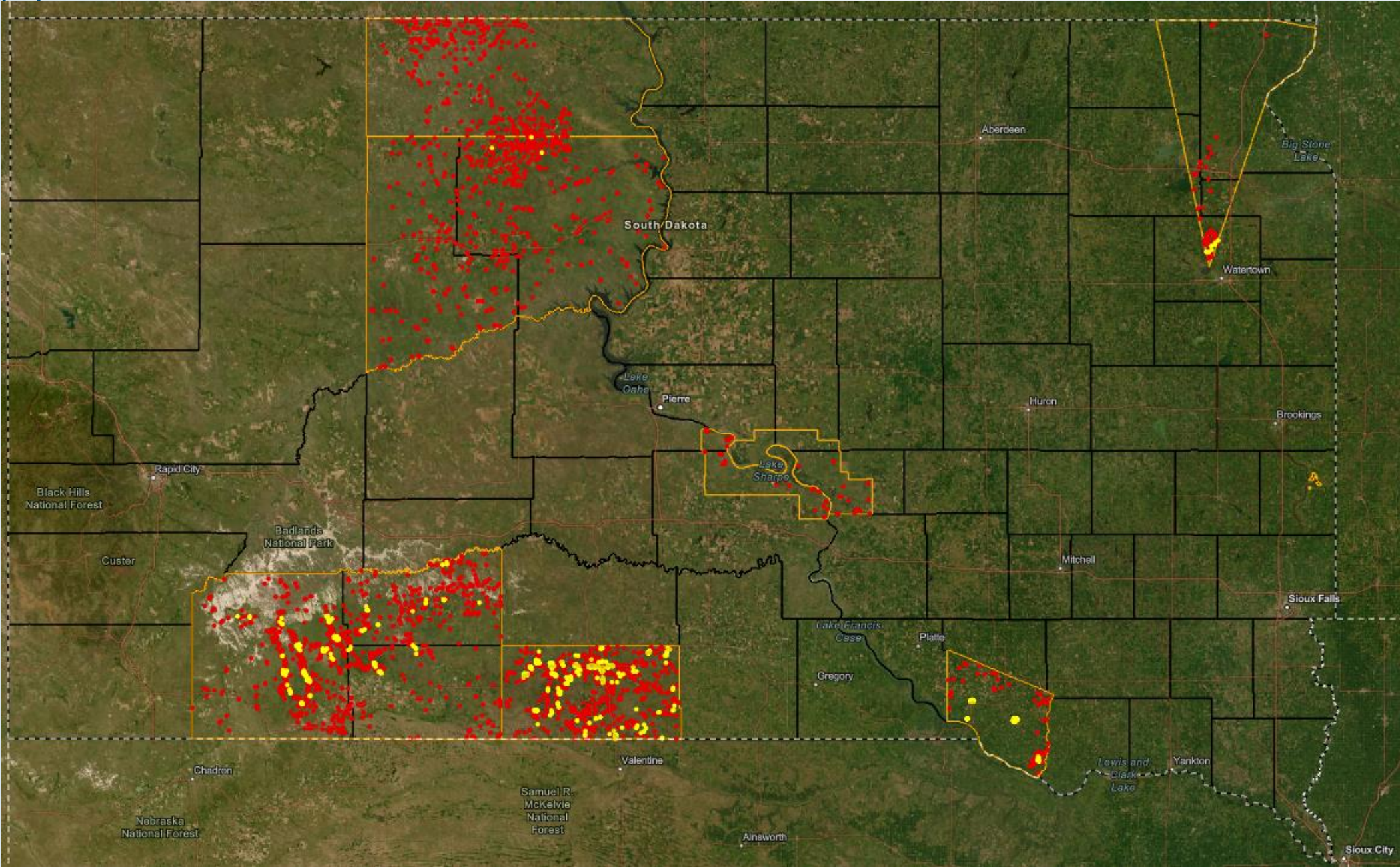BEAD ELIGIBLE LOCATIONS

–

MAPPING

CONNECT SOUTH DAKOTA

BEAD
ELIGIBLE
LOCATIONS

–

MAPPING

Broadband Funding Map

Broadband Funding Summaries

Federal Communications Commission

Connect America Fund Phase II

Enhanced Alternative Connect America Cost Model

Rural Digital Opportunity

NTIA

Broadband Infrastructure Program

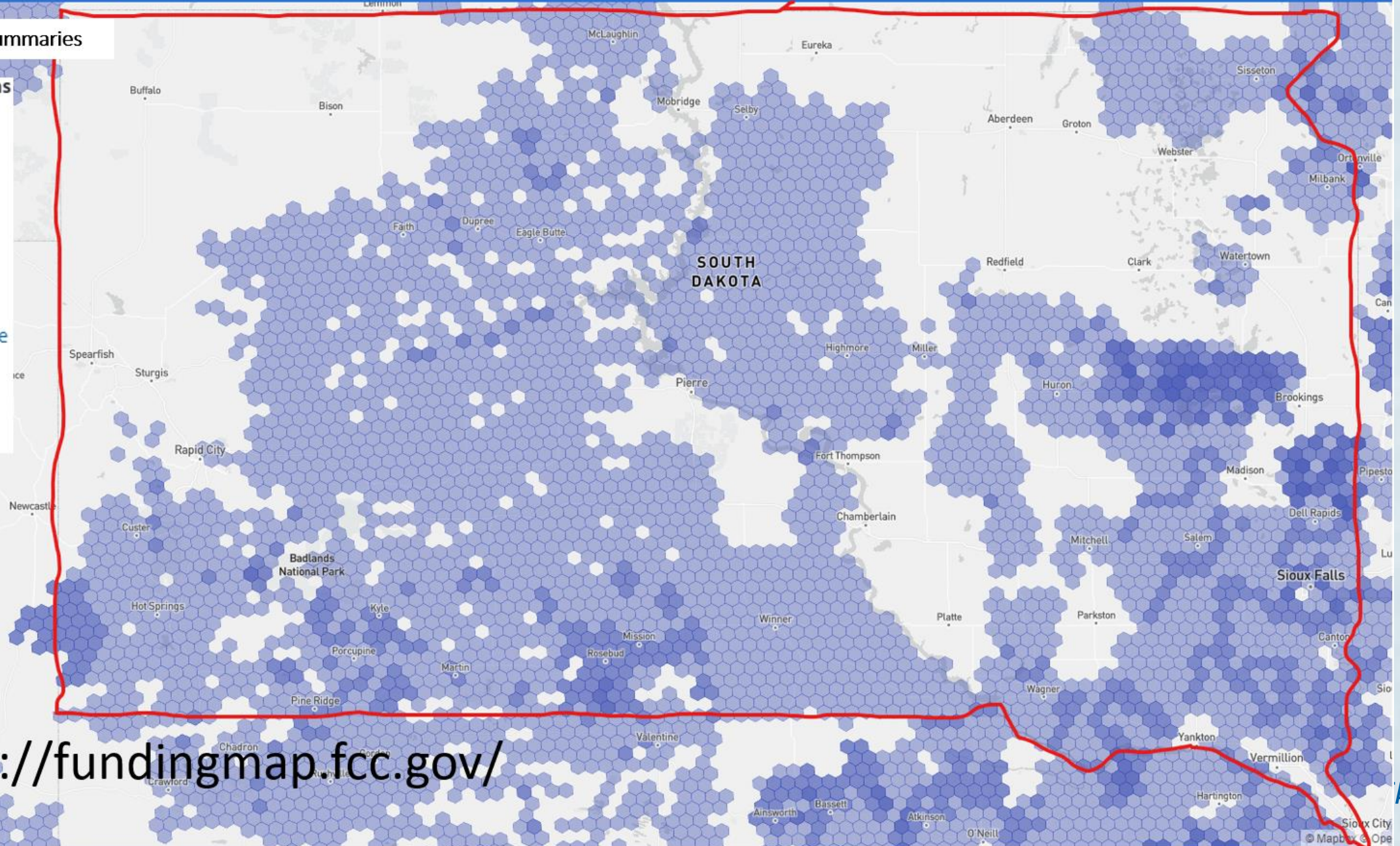Tribal Broadband Connectivity Program NOFO 1

Rural Utilities Service

COMMUNITY CONNECT GRANT PROGRAM

RURAL ECONNECTIVITY PROGRAM

TELEPHONE LOAN PROGRAM

US Department of Treasury

Capital Projects Fund

- https://fundingmap.fcc.gov/

BEAD Eligible locations per NTIA

RED dots: Unserved (Less than 25/3)
YELLOW dots: Underserved (Less than100/20)

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ConnectSD Broadband Program
100% Connected

SOUTH DAKOTA
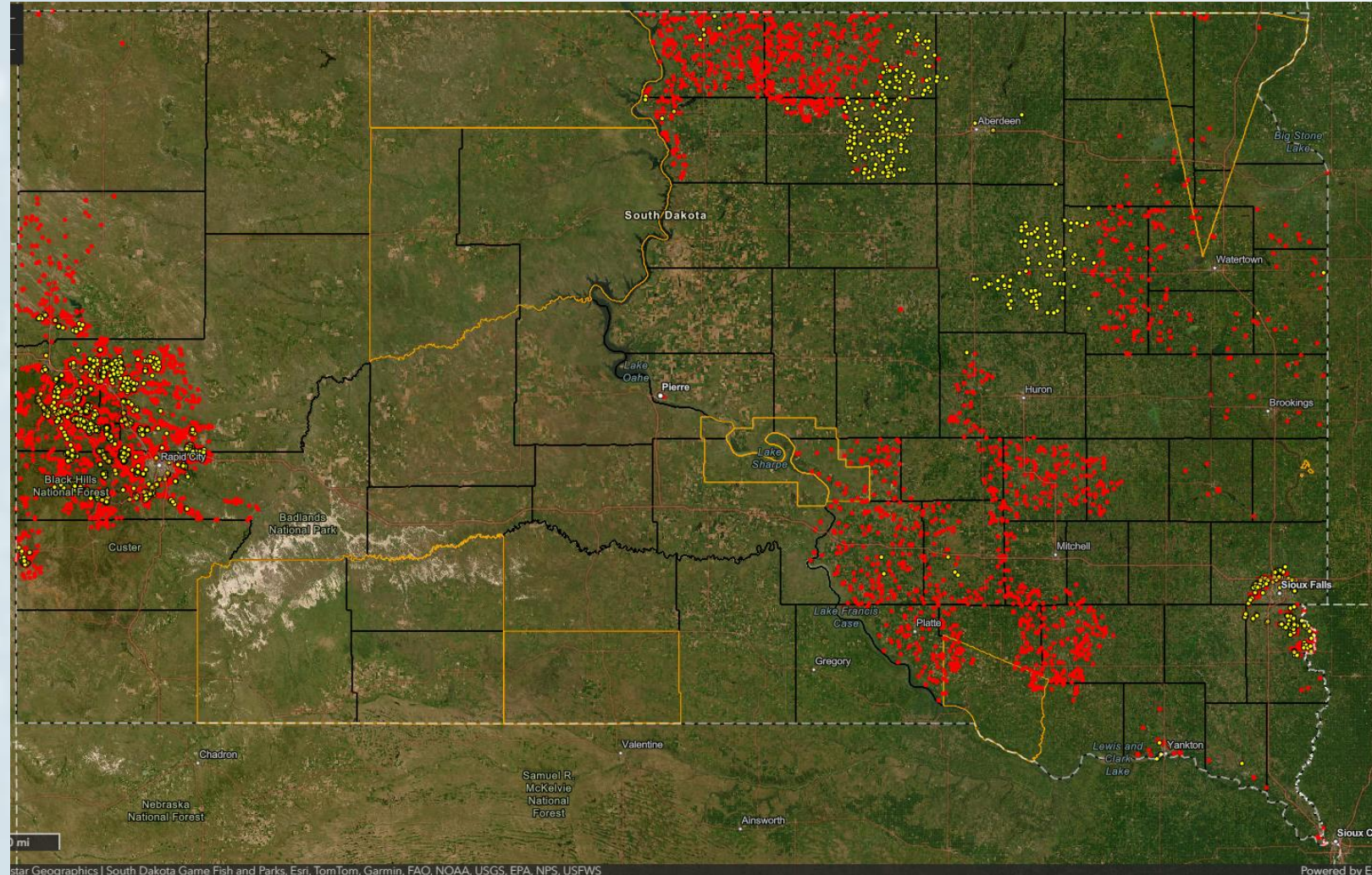GOVERNOR'S OFFICE OF ECONOMIC DEVELOPMENT

2024 BEAD PLANS

NOTE: Per BEAD NOFO grant we **can not overbuild** other federal programs.

This map is generated with all known state and federal awards removed:

- USDA Reconnect awards
- NTIA Tribal Broadband Connectivity
- ConnectSD awards
- FCC RDOF/E-ACAM

Much deduplication will have to happen location by location.

BEAD Eligible locations per NTIA

CONNECT SOUTH DAKOTA

ConnectSD Broadband Program
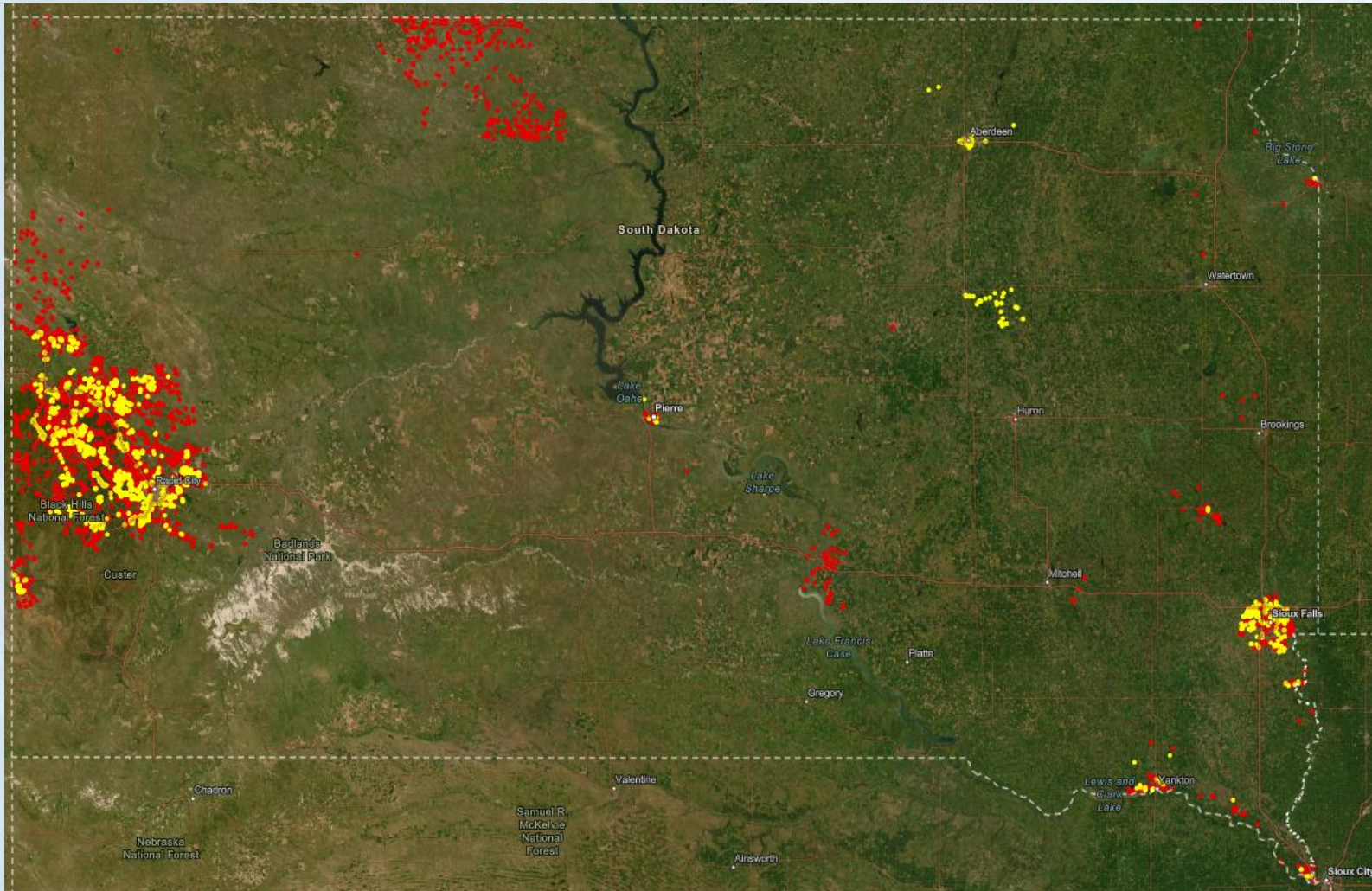*100% Connected*

SOUTH DAKOTA
GOVERNOR'S OFFICE OF ECONOMIC DEVELOPMENT

2024 BEAD PLANS

NOTE: Per BEAD NOFO grant we **can not overbuild** other federal programs.

This map is generated with all known state and federal awards removed:

- USDA Reconnect awards
- NTIA Tribal Broadband Connectivity
- ConnectSD awards
- FCC RDOF/E-ACAM
- 5 ILECs who have conveyed to us they will cover their area
  - Most "dots" are unserviceable
  - Working with FCC BDC map

RED dots: Unserved (Less than 25/3)
YELLOW dots: Underserved (Less than 100/20)

BROADBAND EQUITY, ACCESS, AND DEPLOYMENT (BEAD) PROGRAM

BEAD NOTES

➢ NTIA Grant
  ➢ We can/must only do the allowable activities

➢ The BEAD Application process will be difficult, very time consuming, and costly to applicants

➢ We will have a lot of compliance, reporting, and auditing along the way

➢ We will only have Deployment Funding in the BEAD program
  ➢ Too many costly locations left

➢ Digital Opportunity funding will be known later in 2024

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THANK YOU

MIKE.WALDNER@STATE.SD.US