CONNECTED CITIES TOUR 2023

COLORADO SPRINGS
OLYMPIC CITY USA

OCTOBER 18
9AM – 2PM
111 W Cimarron St.
Colorado Springs, CO

Connected Cities

Getting to Smart – Colorado Springs

Colorado Springs has developed an innovative program branded, SmartCOS that addresses how technology can be applied to improve city services, quality of life, equity, sustainability, and transportation through applying "smart' infrastructure. The team has found that an open collaborative ecosystem is required to meet their goals.

This event will focus on the role technology, data and networks play in enabling innovation. Broadband, Fiber Optics, IoT, 5G, Wi Fi and Private Networks will be our focus from a technology perspective.

Featured Speakers

RYAN TRUJILLO
Deputy Chief of Staff
Colorado Springs

CARLOS TAMAYO
Innovation Manager
Colorado Springs

TYLER SVITAK
Executive Director
Colorado Smart City Alliance

www.DenseNetworks.com

CONNECTED CITIES TOUR 2023

"Getting to Smart"

FALL ZOOM SERIES

Dense NETWORKS The Social Think Tank™

Private Cellular Networks (CBRS)

OCTOBER 26 | 11AM – 12PM EST

Jamaal Smith
Vice President
Kajeet

Jim Jacobellis
SVP
Alef

Eric Toenjes
National Market Manager
Graybar

CONNECTED CITIES TOUR 2023

"Getting to Smart"

FALL ZOOM SERIES

Dense NETWORKS The Social Think Tank™

Fiber Optics Broadband

OCTOBER 27 | 11AM – 12PM EST

Kara Mullaley
Broadband Market Manager
Corning

Greg Spraetz
CRO
Network Connex

Scott Jackson
National Market Manager
Graybar

PRESENTING SPONSOR: GraybaR

DenseNetworks.com

Agenda

- 9:05 Welcome — Peter Murray, Executive Director, Dense Networks
- 9:15 Keynote — Ryan Trujillo, Deputy Chief of Staff, Colorado Springs
- 9:40 Colorado Innovation — Tyler Svitak, Executive Director, Colorado Smart Cities Alliance
- 10:00 Colorado Springs Innovation
  - Moderator, Carlos Tamayo, Innovation Manager, Colorado Springs

    -Sam Arnold, Analyst, Economic Development

    -Tyra Sandy, Senior Engineer, Public Work
    -James DeVoy, Operations Manager, IT
- 10:50 Break
- 11:05 Broadband Funding — Trina Kwon, Attorney, Morgan Lewis
- 11:25 Network Innovations — Peter Murray, Moderator
- Fiber Optic Networks
- -Deb Walker, Director, Ting
- -Greg Spraetz, CRO, Network Connex
- -Tim Scott, Broadband Consultant, Colorado
- 12:05 Wireless Networks

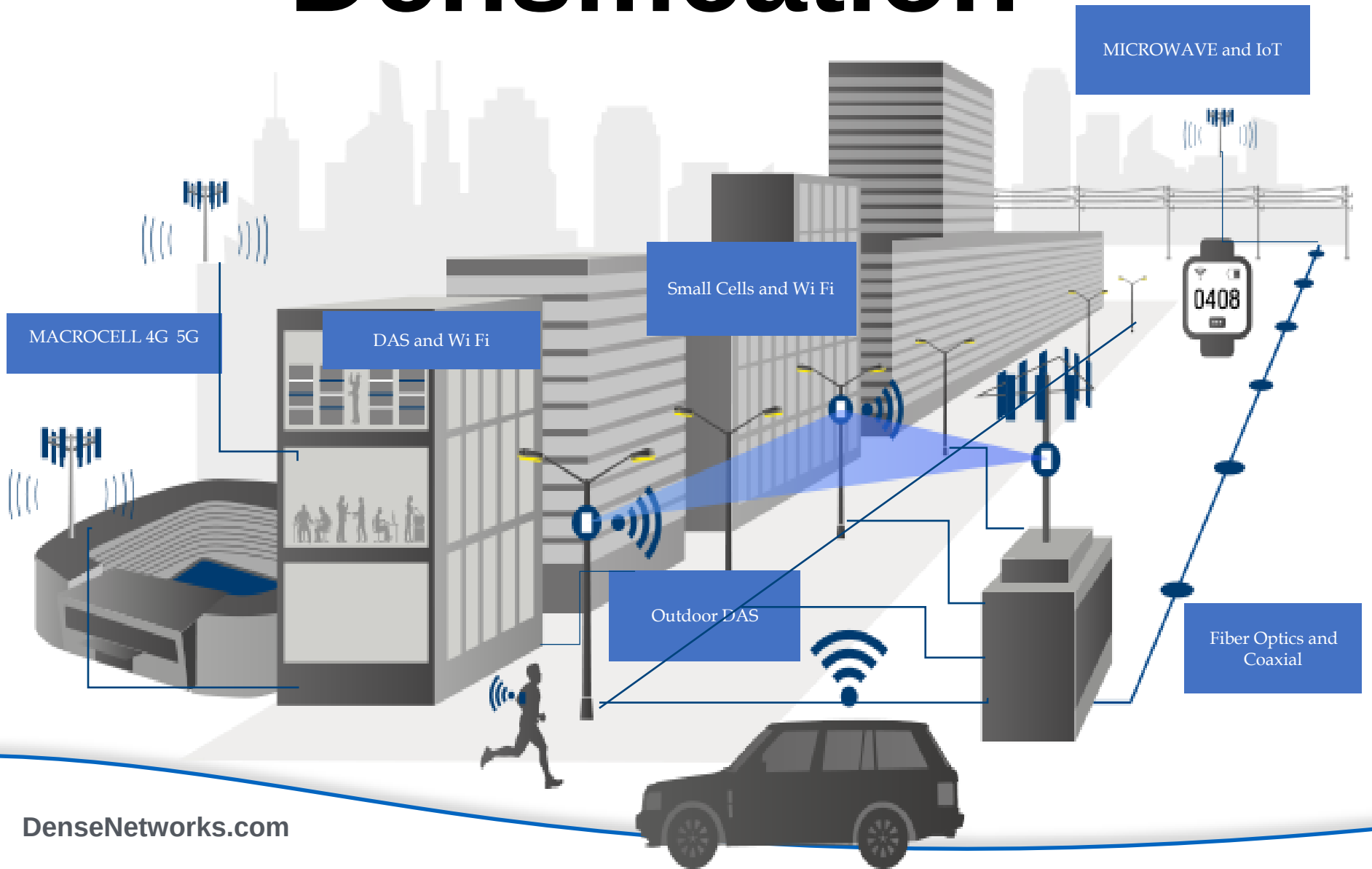
  -Tony Eigen, VP, BaiCells

  -Eric Toenjes, National Market Manager, Graybar

  -Rory McCabe, Sr. Manager, Dejero
- 12:40 Lunch
- 2:00 Adjourn

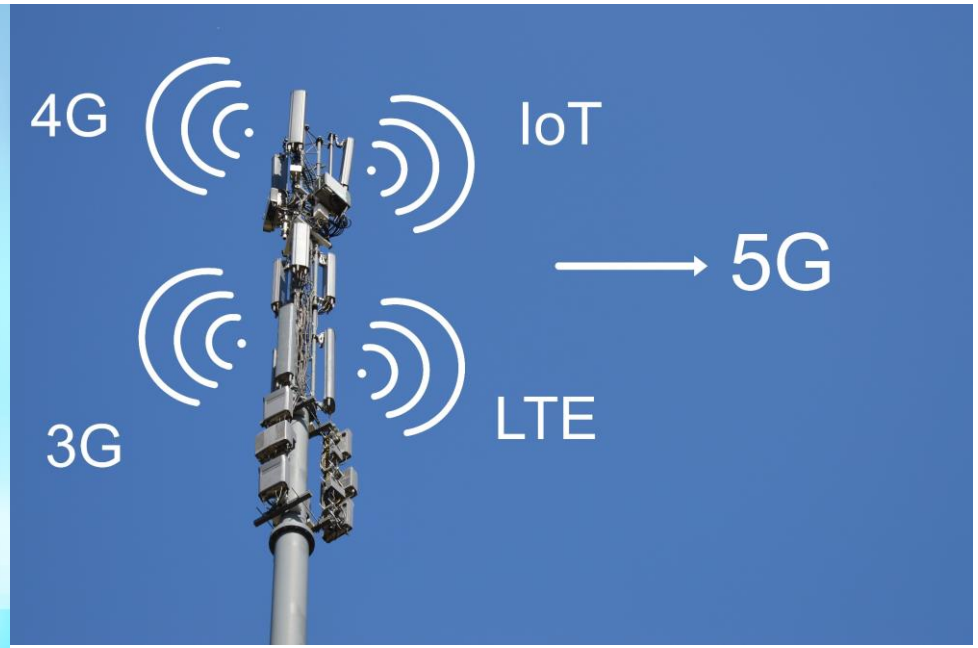

Connected City
Smart City

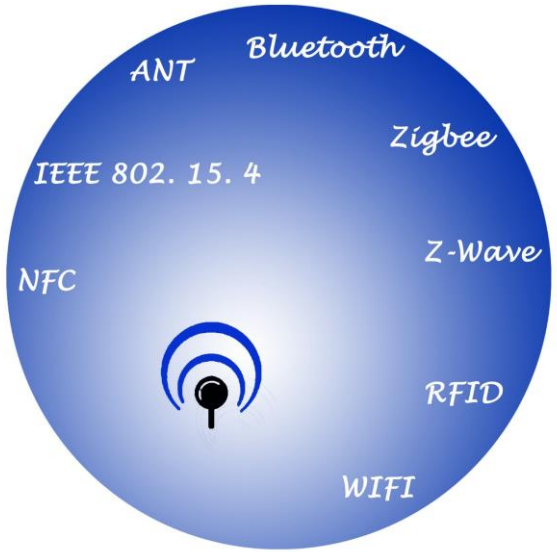
Densification



How Many Networks?

Capacity, Coverage, Compliance

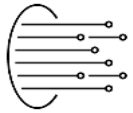




Digital Infrastructure

Scalable/Interconnected

Fiber	IoT	Cell-Macro, Small & DAS	Wi Fi	Private LTE & 5G	Smart Poles	Devices



NB-IoT

LoRa®

LTE

Lighting +

Cameras

Kiosks

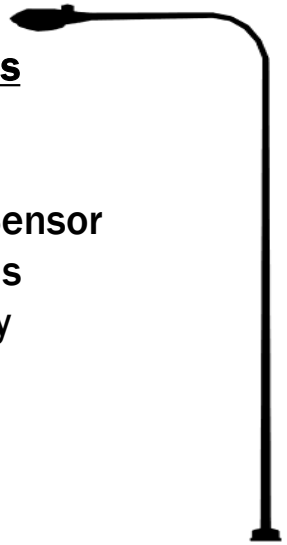
Computers/Tablets

Sensors

San Jose Broadband Strategy

STREETLIGHT

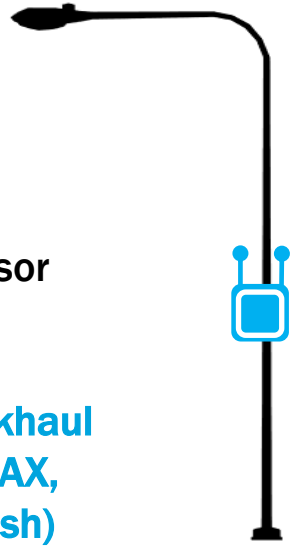
Light/Safety



Properties
- Height
- Power
- Light Sensor
- Lumens
- Density

SMALL CELLs

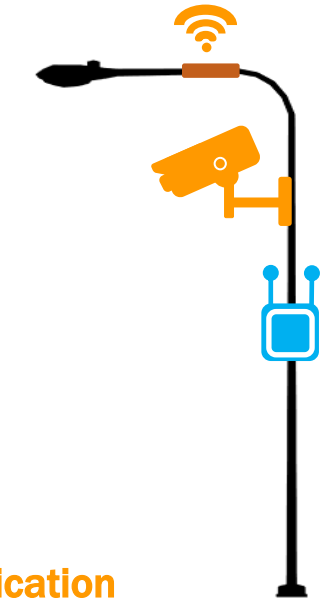
Broadband Digital Infrastructure



Properties
- Height
- Power
- Light Sensor
- Lumens
- Density
- Data Backhaul (Fiber, COAX, Radio mesh)

INTERNET OF THINGS

Smart Cities



Properties
- Height
- Power
- Light Sensor
- Lumens
- Density
- Data Backhaul
- Sensors
- Cameras
- 2-way Communication
- Banner Advertising

Maturity:	**Mature**	**Emerging**	**Extremely Immature**
Possible Action:	**Proceed w/ LED Light Replacement Only**	**Re-examine in Broadband Strategy**	**Seek to Understand with Knight IoT Grant**

SmartBlockPHL: Midtown Village

A collaborative effort among Comcast, US Ignite, and Philadelphia to deploy a multi-pronged solution designed to meet the needs of several stakeholders. The demonstration project entails retrofitting luminaires and sensors onto pre-existing streetlight poles. This project will deliver new insights to Philadelphia, its residents, and its partners in the business and the community.

Fast Facts:

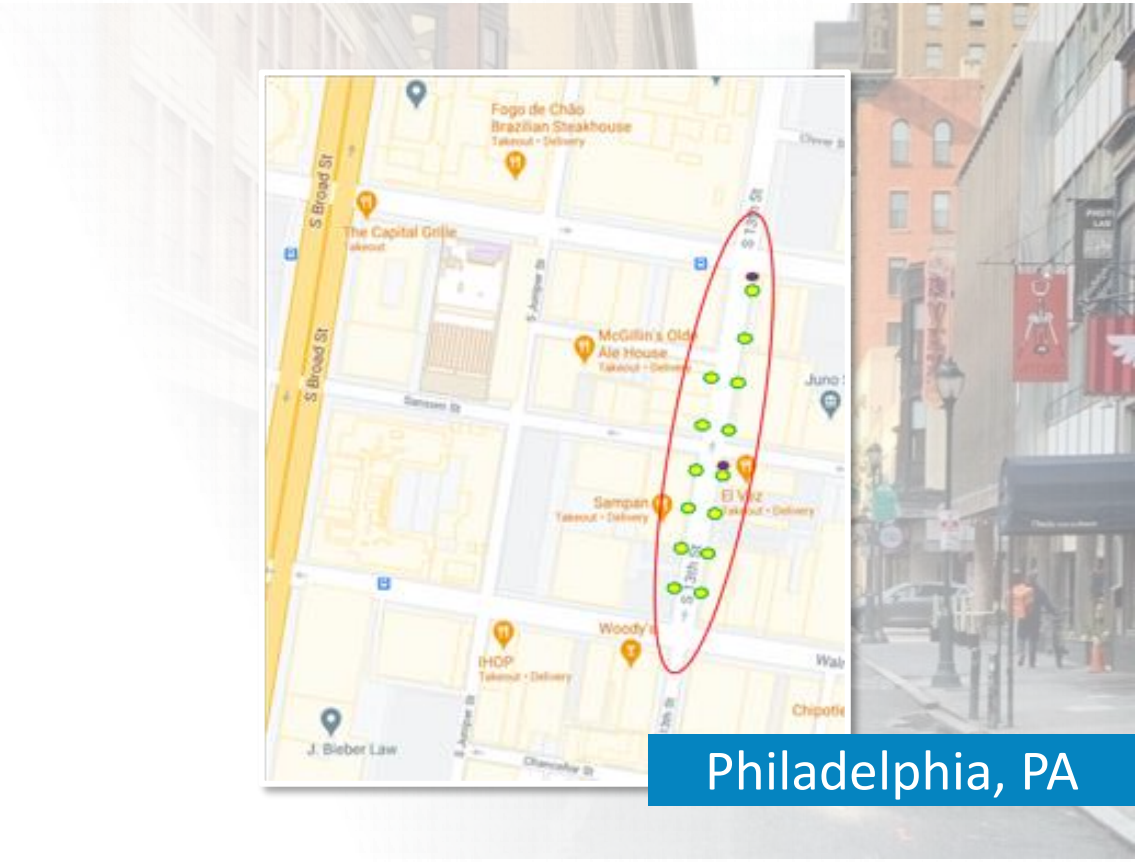
- 14 Smart Streetlights (Colonial Design) with sensors
- City owned and managed solution
- Collects meta-data about traffic, street activity and the environment
- No PPI is collected or stored
- PHL will not use data to enforce laws or issue tickets
- Uses the latest in EDGE processing
- Deliver new insights to Philadelphia, its residents, and its business partners

Use cases & Insights:

- Pedestrian occupancy
- Environment health
- Roadway Traffic
- Parking Utilization
- Managed WIFI

Technology:

- Comcast 1Gbps EDI Circuit
- Retrofit streetlights with Partner's smart solution
- Partner's lighting management and Smart City Platform

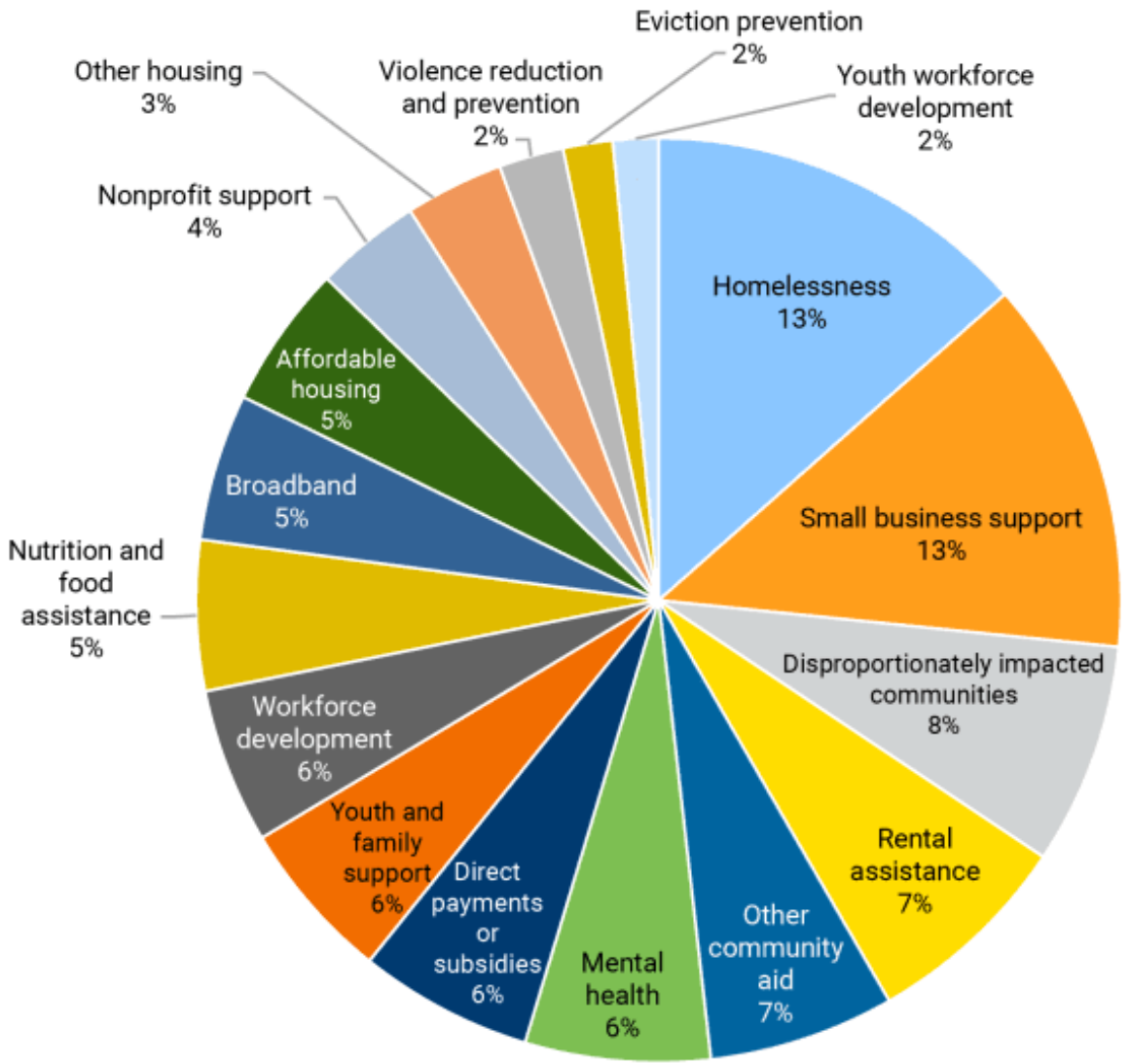



100
FW C 128
FEDERAL RESERVE NOTE
MF 5703513 1 B
F6
UNITED STATES FEDERAL RESERVE SYSTEM
Secretary of the Treasury.
Treasurer of the United States.
ONE HUNDRED
THIS NOTE IS
FOR ALL DEBTS, P
JULY 4, 1776.

ARPA funds

	Budgeted ($)	Economic disadvantage ($)	Percentage (%)	Total Projects
Madison, Wisc.	22,800,000	21,800,000	95.6	28
Riverside, Calif.	29,242,594	27,090,000	92.6	29
Columbus, Ohio	53,284,081	48,209,406	90.5	8
St. Louis, Mo.	123,195,020	109,650,470	89.0	70
Nassau County, N.Y.	185,350,000	163,750,000	88.3	18
San Jose, Calif.	70,562,771	61,900,771	87.7	25
Clackamas County, Ore.	28,191,637	22,684,455	80.5	11
Washoe County, Nev.	46,312,296	37,192,053	80.3	25
Minneapolis, Minn.	108,527,983	84,885,905	78.2	67
Dane County, Wisc.	94,375,082	71,662,768	75.9	16
San Joaquin County, Calif.	66,011,593	49,932,146	75.6	11
Los Angeles County, Calif.	704,851,000	521,501,000	74.0	61
Prince William County, Va.	31,200,000	22,500,000	72.1	7
Northampton County, Pa.	22,658,617	15,704,262	69.3	6
San Mateo County, Calif.	74,448,909	50,748,909	68.2	19
Nashville-Davidson, Tenn.	78,381,250	51,713,996	66.0	17
Maricopa County, Ariz.	414,987,433	273,141,352	65.8	55
Pierce County, Wash.	175,781,445	115,159,256	65.5	79
Alameda County, Calif.	142,500,000	91,500,000	64.2	15
Phoenix, Ariz.	133,365,662	85,565,662	64.2	36
St Paul, Minn.	33,630,184	21,031,000	62.5	19
Orange County, Fla.	135,830,857	82,362,846	60.6	38
Ingham County, Mich.	29,601,971	17,318,000	58.5	13
York County, Pa.	65,753,816	37,983,311	57.8	105
Mesa. Ariz.	27.800.000	16.000.000	57.6	4

Brookings Metro



Philadelphia

Office of Innovation & Technology

DEVICES	CONNECTIVITY	TRAINING & WORKFORCE	ECOSYSTEM
Philadelphians can access appropriate and affordable technology devices.	Philadelphians can access and afford the internet connectivity they need.	Philadelphians develop the digital skills necessary for work and life.	Philadelphia grows and sustains the capacity and infrastructure required to increase digital equity.

Phase 3
How can we address digital enablement?

Availability, Adoption, Affordability and Ability

How

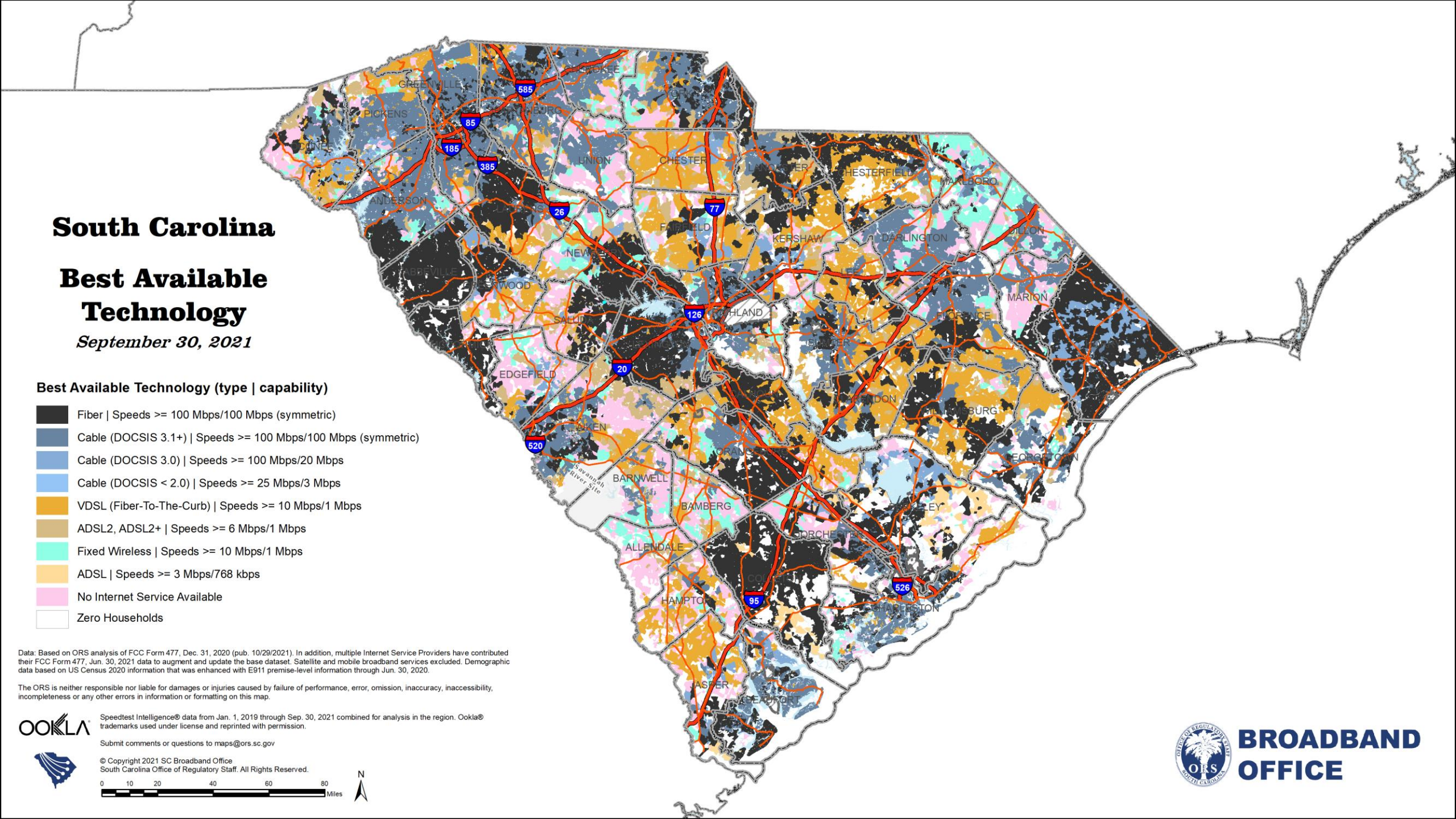
Broadband and Digital Equity Planning Matrix

Functional Locations	Devices	Networks	Programs	Funding
· Community Centers	· Computers	· Fiber Government	· Literacy	· State-BOP
· Hospitals and Clinics	· Tablets	· Fiber Service Provider	· Individual Devices	· Federal-State-CPF
· Libraries	· Smart Phone	· Cellular	· MDU Infrastructure	· Federal-State-BEAD
· Senior Centers	· Wi Fi	· Wi Fi	Workforce and Skills	· Federal-State-Digital Equity
· Parks	· Telehealth Booth	· Private	· Telehealth	· Federal Digital Equity
· MDU & Group Homes	· Digital Boards	· LAN	· Helpdesk	· E-Rate

South Carolina

Best Available Technology

September 30, 2021



Best Available Technology (type | capability)

- Fiber | Speeds >= 100 Mbps/100 Mbps (symmetric)
- Cable (DOCSIS 3.1+) | Speeds >= 100 Mbps/100 Mbps (symmetric)
- Cable (DOCSIS 3.0) | Speeds >= 100 Mbps/20 Mbps
- Cable (DOCSIS < 2.0) | Speeds >= 25 Mbps/3 Mbps
- VDSL (Fiber-To-The-Curb) | Speeds >= 10 Mbps/1 Mbps
- ADSL2, ADSL2+ | Speeds >= 6 Mbps/1 Mbps
- Fixed Wireless | Speeds >= 10 Mbps/1 Mbps
- ADSL | Speeds >= 3 Mbps/768 kbps
- No Internet Service Available
- Zero Households

Data: Based on ORS analysis of FCC Form 477, Dec. 31, 2020 (pub. 10/29/2021). In addition, multiple Internet Service Providers have contributed their FCC Form 477, Jun. 30, 2021 data to augment and update the base dataset. Satellite and mobile broadband services excluded. Demographic data based on US Census 2020 information that was enhanced with E911 premise-level information through Jun. 30, 2020.

The ORS is neither responsible nor liable for damages or injuries caused by failure of performance, error, omission, inaccuracy, inaccessibility, incompleteness or any other errors in information or formatting on this map.

OOKLA

Speedtest Intelligence® data from Jan. 1, 2019 through Sep. 30, 2021 combined for analysis in the region. Ookla® trademarks used under license and reprinted with permission.

Submit comments or questions to maps@ors.sc.gov

0 10 20 40 60 80 Miles

N

BROADBAND OFFICE

Residential Broadband Technology

Best Available Technology Class

- Fiber | Speeds >= 100 Mbps/100 Mbps (symmetric)
- Cable (DOCSIS 3.1+) | Speeds >= 100 Mbps/100 Mbps (symmetric)
- Cable (DOCSIS 3.0) | Speeds >= 100 Mbps/20 Mbps
- Cable (DOCSIS < 2.0) | Speeds >= 25 Mbps/3 Mbps
- VDSL (Fiber-To-The-Curb) | Speeds >= 10 Mbps/1 Mbps
- ADSL2, ADSL2+ | Speeds >= 6 Mbps/1 Mbps
- Fixed Wireless | Speeds >= 10 Mbps/1 Mbps
- ADSL | Speeds >= 3 Mbps/768 kbps
- No Internet Service Available
- Zero Households

Fiber and Cable

Easily deliver reliable 25/3. These areas are not our problem.

Copper and Fixed Wireless

Copper technology (xDSL) cannot deliver reliable 25/3. End of useful life.

Fixed Wireless requires optimum conditions to exceed 25/3; however, it delivers *Speed to Access* meaning that high need areas have the potential to get coverage fast while physical connections to each house are built.

No Internet Options Exist

This has nothing to do with affordability

Customers in these areas cannot receive service at their physical address

COLORADO
Broadband Office
Governor's Office of Information Technology

90.2 %

Percent of Locations Served
With 100 ↓ Mbps / 20 ↑ Mbps Service
Current as of 12/31/2022

190,850

Total Locations Without
100 ↓ Mbps / 20 ↑ Mbps Service
Current as of 12/31/2022

39,682

Total Awarded Locations
from CBO programs
Current as of 04/26/2023

$99.2M

Total Awarded Amount
from CBO programs
Current as of 04/26/2023

180.1 Mbps

Ookla® Median Download Speed
Out of 457,641 speed tests taken
From 01/01/2023 to 05/31/2023

Based on analysis by Colorado Broadband Office of Ookla® Speedtest Intelligence® data for 2023 Year-To-Date. Ookla trademarks used under license and reprinted with permission.

20.0 Mbps

Ookla® Median Upload Speed
Out of 457,641 speed tests taken
From 01/01/2023 to 05/31/2023

Based on analysis by Colorado Broadband Office of Ookla® Speedtest Intelligence® data for 2023 Year-To-Date. Ookla trademarks used under license and reprinted with permission.

COLORADO
Broadband Office
Governor's Office of Information Technology

CBO Home | CBO Data Collection | More

Apply Filters

1 Select a Place Type

County | House District | Municipality | Region | School District | Senate District | State Boundary

2 Select a Place

Search...

- No Selection
- Adams County
- Alamosa County
- Arapahoe County
- Archuleta County
- Baca County
- Bent County
- Boulder County
- Broomfield County
- Chaffee County

Locations Served at 25/3 Mbps

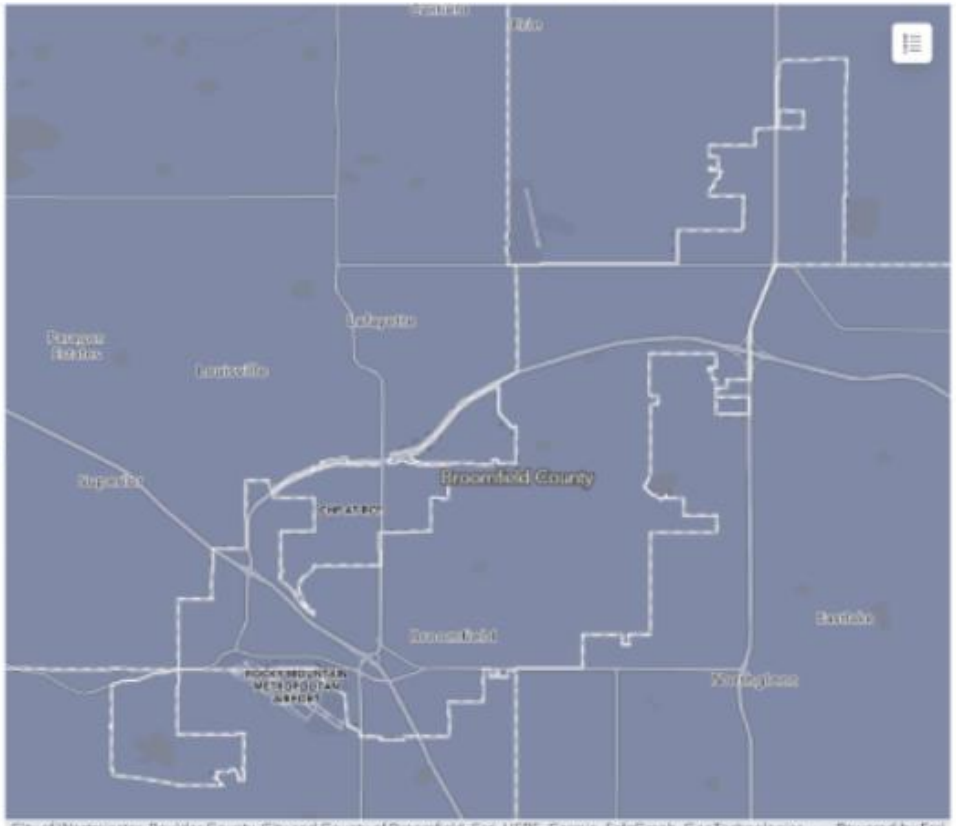
Broomfield County
99.8%

State Progress
96.2%

Median Ookla® Speedtest® Download Speeds (Mbps)

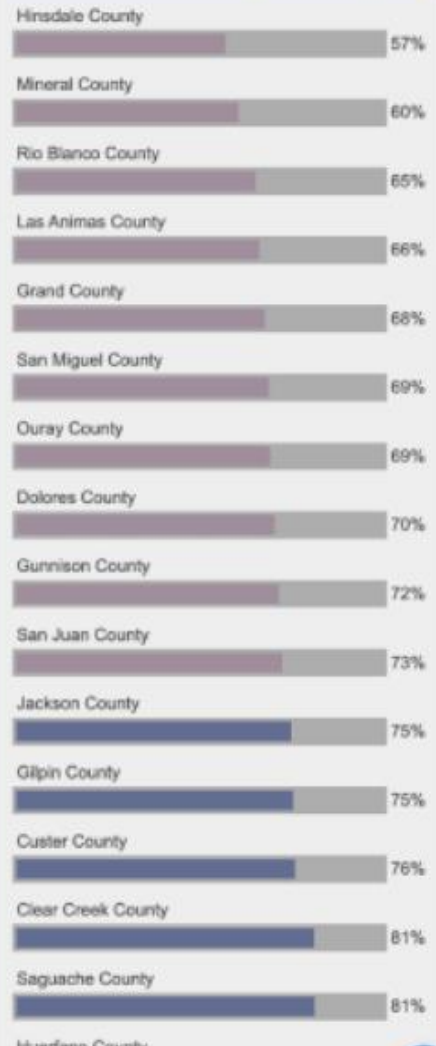
Median Ookla® Speedtest® Upload Speeds (Mbps)

Median Ookla® Speedtest® information is based on analysis by Colorado Broadband Office of Ookla Speedtest Intelligence data for Q1-Q3 2022. Ookla trademarks used under license and reprinted with permission.

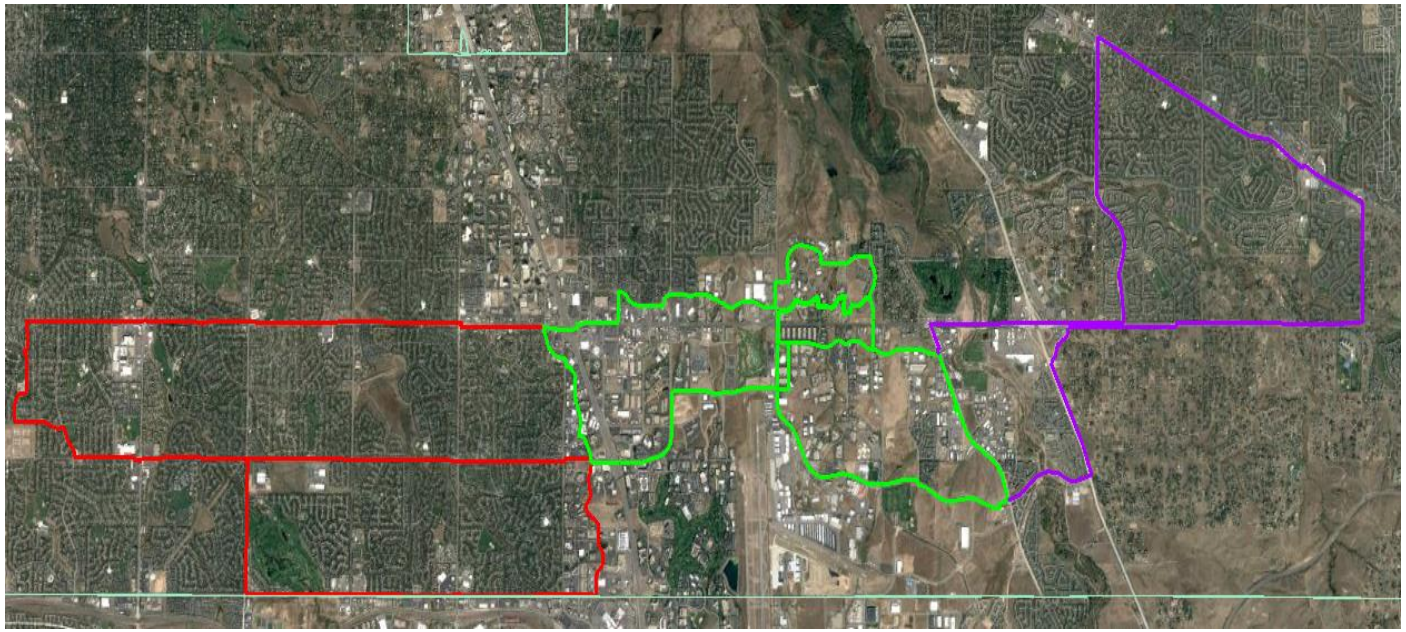


100/20 Mbps | 25/3 Mbps

All Places Summary 25/3 Mbps



Fiber Backbone-Open Access Model



CENTENNIAL FiberWorks

Fiber Backbone – Rings and Status

- Central Ring – Constructed
- East Ring – Under Construction
- West Ring – Constructed

Centennial

Broadband Solutions- Deployment Challenges

5G Solution + Fiber

- Critical to success
  - Zoning/Permitting
    - High volume of applications
  - Fiber availability
    - Supply chain challenges
    - Timely installation
  - Power availability
    - High volume of applications
    - Timely installations
  - Trained and trusted professional service providers to support
    - Design
    - A&E
    - Site Acquisition
    - Construction

Utility Lease Model

Colorado Springs Utilities
It's how we're all connected

Utilities of the Future:
- Over 2,000 miles of fiber buildout over the next 6 years
- Demand Side Management
- Distributed generation
- Advanced Metering Infrastructure

Fiber connectivity available to:
- Every address
- Every signalized intersection
- Every street light

Enabling infrastructure:
- High speed
- Low latency
- Highly secure
- Highly reliable

Office of Innovation

COLORADO SPRINGS
OLYMPIC CITY USA

Broadband Solutions- Whats being deployed now

5G Solution

- Wireless
  - Macro
  - Small Cell (indoor and outdoor)
- Mid-band 5G deployments
  - C-Band
  - 2.5GHz
  - CBRS- private network option
- Fixed Wireless
  - Home
  - Enterprise

Fiber Solution

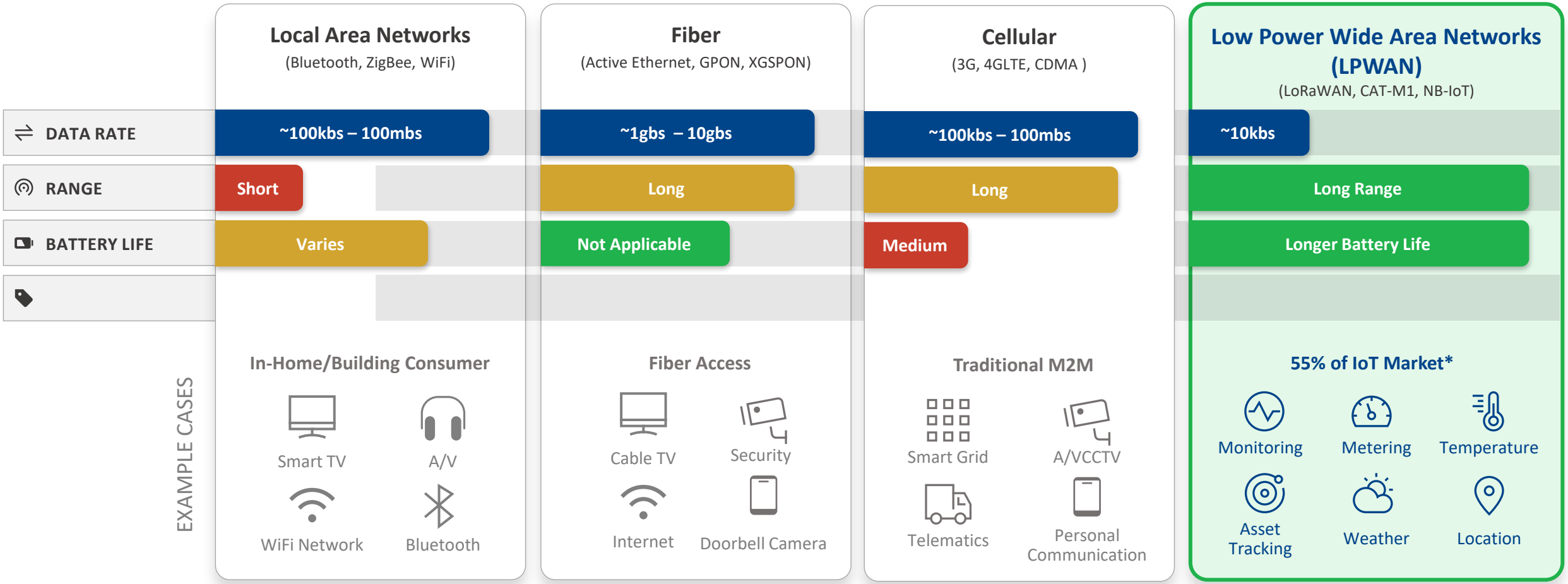
- Wired
  - Middle Mile
  - FTTX
  - Long Haul
  - Datacenters
- FTTX
  - Fiber to the home
  - Fiber to the premise/building
  - Fiber to the Tower/Small Cell

Fiber, Power & Poles are the Foundation for a Smart City

Alliance Membership – 165 Strong & Growing

4RF Limited
Accelleran
ADRF Technologies
Agri-Valley Communications, Inc
Airspan Networks
Airtower Networks
Allen Vanguard Wireless, LLC
Alpha Wireless
Amdocs Management Limited
American Tower Corporation
Amit Wireless Inc.
ANS Advanced Network Services, LLC
Anterix
Asiatelco Technologies, Inc
Askey Computer Corp.
Aspire Technology Partners
AT&T
ATDI
Athonet
Baicells Technologies Co., Ltd.
Ballast
Barich, Inc
Bearcom
BEC Technologies, Inc
Betacom
Black Box
Blinq Networks
BlueArcus Technologies
Boingo Wireless, Inc.
BTI Wireless
Cable Television Laboratories Inc
Cambium Networks
Capgemini America, Inc
Casa Systems
CellAntenna Corporation
Celona, Inc
Centerline Communications
Charter Communications
Ciena
Cirrus Core Networks, Inc
Cisco Systems
Codium Networks
Comba Telecom, Inc
Comcast Corporation
Commscope
Communication Technology Services, LLC
COMSovereign Holding Corp
Connected Devices, Inc
Connectivity Wireless Solutions
Contour Networks
Corning Optical Communications
Cox Communications
Cradlepoint
Crown Castle
CTIA
CTL
DEKRA Testing and Certification, S.A.U.
Dell Technologies
Dense Air Limited, LLC
Digi International
Digital Global Systems
Dish Network
Druid Software
EDX Wireless
Element Materials Technology Washington DC LLC
Encore Networks
Ericsson, Inc.
EUCAST Co., Inc
ExteNet Systems, Inc.
Facebook
Federated Wireless
Fibocom Wireless USA, Inc
Fibrolan
FreedomFi, Inc
Frequencz
Frontier Communications
Fujitsu Network Communications
Gadgetspace, LLC
GE MDS
Gemtek Technology Co., Ltd
GenXComm, Inc.
Geoverse
Giesecke+Devrient
Global Technology Associates, LLC (GTA)
Goodman Telecom
Google, LLC
Graybar
HALO DAS, LLC
HCL Technologies
Hewlett Packard Enterprises
Highway9 Networks, Inc
Huber + Suhner
Ibwave
Imagine Wireless
Impact Broadband Corporation
Inseego Corp
Insta Advance Oy
Intel Corporation
IOT4NET, Inc
JACS Solutions
JMA Wireless
JPU
Juniper Networks
Kajeet
Keysight Technologies, Inc
KLA Laboratories, Inc
Kleos UK Ltd
Kore Wireless
LandMark Dividend, LLC
Mavenir Systems, Inc
Midcontinent Communications
Miller Electric Company
Mobilitie, LLC
Monogoto, Ltd
Motorola Solutions
Multi-Tech Systems, Inc
Munisite Networks
Nesten, Inc
NextGen Global Resources, LLC
Nokia
NRTC
Nsight
OneLayer
Palo Alto Networks
Panasonic
Parsec Technologies, Inc
Pavlov Media, Inc
Pierson Wireless
Pyramid Network Services, LLC
QuadGen Wireless
Qualcomm
Quanta Cloud Technology
Quantum Wireless
Qucell
Qulsar
Radio Frequency Systems
Radisys Corporation
Radtonics, Inc
Rakuten USA, Inc
RANlytics
Ranplan Wireless, LLC
Redline Communications
RF Connect
Samsung Electronics America Inc.
SBA Communications
Securus Technologies
Seowonintech Co., Ltd
Sequans Communications
Sercomm USA, Inc
SGS North America, Inc
Shared Access
SNS Telecom & IT
Socionext America, Inc
Solid
Sony Group Corporation
Sporton International, Inc
Star Solutions International, Inc
Sterlite Technologies Limited
Super Micro Computer, Inc
SureSite Consulting Group, LLC
Syniverse Technologies, LLC
Tango Networks
Teal Communications
Tecore Government Services, LLC
Telecommunication Technology Labs, CAICT
Telit
Telka, LLC
Telrad Networks
Telsasoft
Terranet Communications, LLC
Tessco Technologies, Inc
Texas A & M University
The New York Library
The Quilt
T-Mobile USA
Transit Wireless
Trextel, LLC
TruConnect
U.S. Cellular
University of New Mexico
Valid8.com, Inc
Vedanta Telecom, LLC
Vergibility, LLC
Verizon Communications
Vertical Bridge Holdings LLC
View, Inc
VMware Inc
Wesco
Wilson Electronics
Winncom Technologies
Wispa (Wireless Internet Service Providers Association)
XCOM Labs, Inc
ZenFi Networks
Zyxel Communications Corporation

IoT Technology Landscape



* IoT Analytics, LPWAN Market Report 2019-2025, published January 2020

senet

OnGo Awards
April 2023

Award Winners

Excellence in an Enterprise OnGo Private Network Deployment:

- **Baicells Technologies (with Alef Edge, Cellocity, Druid, LittleBird, Winncom)**: Delivering Highly Desirable Tenant Amenities to the MDU Vertical

OnGo in State, Local, and Education (SLED):

- **Federated Wireless (with AWS):** Powering the 5G Innovation Campus of the Future at Cal Poly

Excellence in OnGo Technology Innovation:

- **JMA (with Boingo, Cisco, Dell, DISH, Google, Hughes, Intel):** Flight Line of the Future with OnGo and ORAN at Naval Air Station Whidbey Island

OnGo Neutral Host Architecture/Solution:

- **CTS (with Airspan, Druid):** Neutral Host trial with a leading healthcare provider showcases using OnGo Network to provide cost-effective coverage to the middleprise

Excellence in a WISP OnGo Deployment:

- **Ericsson (with Ohio TT, Winncom)**: Ohio TT Expanding Broadband to Rural Communities

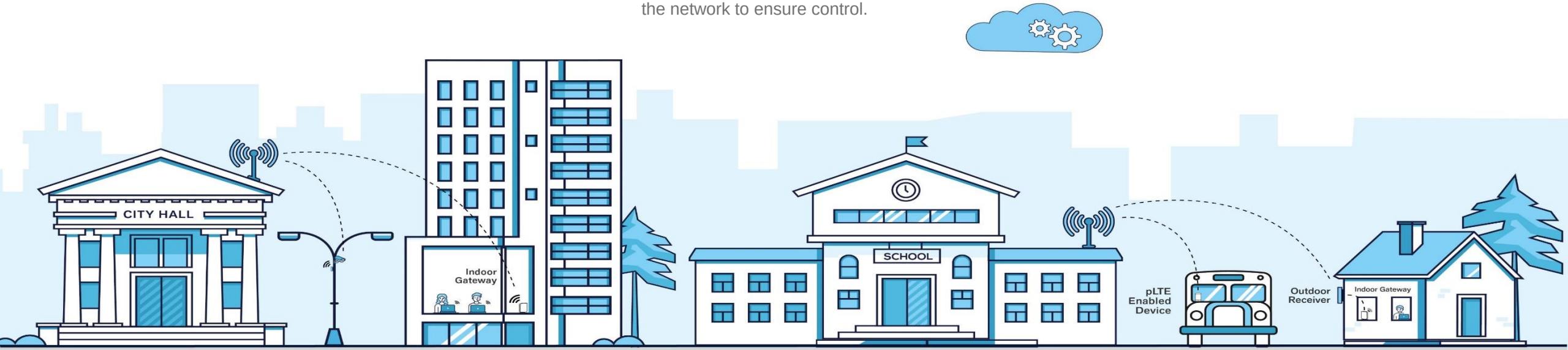
Judges' Choice Award:

- **BearCom (with Airspan, Athonet, & BEC):** PLTE for Rent to Musical Festivals

Bridge the Digital Divide & Extend the Smart City Foundation

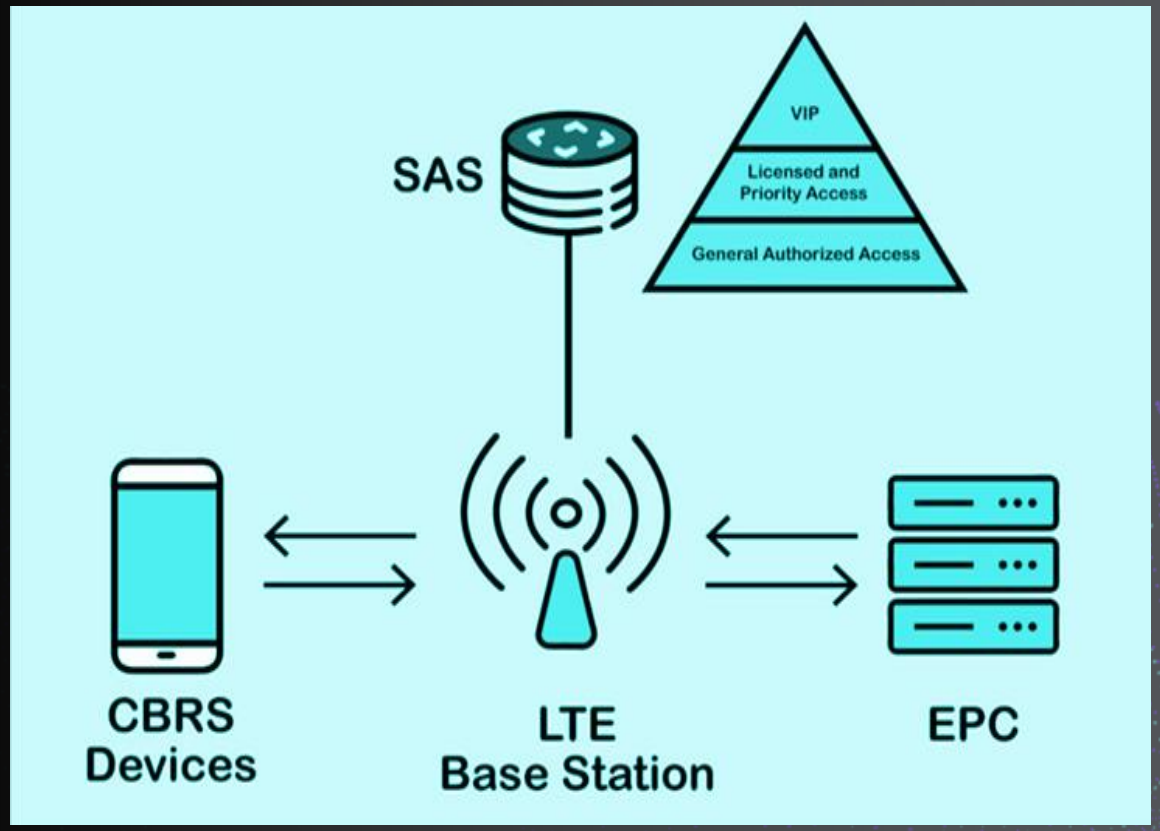
Build a private LTE/5G wireless network broadcast from city and school facilities

Secure Network
Monitors the wireless network, all connected gateways and private LTE enabled devices. Data stays local to the network to ensure control.



GraybaR

What is CBRS & How to Leverage for a Private Network?



- Allows Enterprise to use cellular technology (LTE or 5G) to enable a private network instead of connecting to AT&T/VZW/TMO
- Provides connectivity for enterprise applications using 150 MHz of spectrum in the 3.5GHz range
- SAS coordinates all frequencies to be used to ensure QOS
- SIM/eSIM at device level required for network access
- EPC can have local break out to LAN and provide devices with private IP addresses

CBRS versus Wi-Fi

	CBRS	Wi-Fi
Devices	Handles many	System performance unpredictable as devices added
Infererence	Greatly reduces	Prone to interference from signals in most unlicensed bands
Authentication & Encryption	End-to-end SIM based	Requires proprietary / conflicting coordination
Security	Channel monitoring and coordination of spectrum	Poorer security vs LTE/5G
Handover	Controlled between devices managed by standards	Proprietary best effort for roaming
Latency	Consistently Lower	Unpredictable
Radio	Works well in complex environments with many wireless clients/devices	Works well in simple environments with a moderate number of devices

Longmont, CO, USA

City of Longmont, Colorado

- Longmont is a growing community of 100K people ~ 10 miles Northeast of Boulder
- Began as a student broadband project to provide connectivity to 4,000 low-income student locations.
- The City of Longmont and their ISP (Nextlight) saw the possibilities of Private LTE and leveraging it for public security cameras.
- Network is currently at 37 base stations and will continue to expand.
- City planning to extend CBRS coverage across entire city in 2023

Closing the Digital Divide in Shreveport, LA with CBRS

Problem

- 40% of City residents lacked access to Wi-Fi at home
- Limited budget (American Rescue Funds)
- Tight timeline for deployment

Solution

- City contracted Spread Networks, who selected Pollen
- Pollen designed a RAN using CBRS radios on city buildings
- Spread Networks deployed the radios with Pollen support

Universal Digital Access

- Residents check out a CPE (Wi-Fi Hotspot) from the library
- City provides internet backhaul using existing network
- Pollen monitors and operates the Cellular network
- Spread Networks is working with city officials to expand into other underserved areas and improve coverage

Available from Graybar via Omnia Contract
Private Cellular Network Connectivity

Rapid Deployment, Single Site & Concept Testing Scenarios

- Large pelican case
  - Cellular Base Station with Antenna (CBRS/EBS)
  - SAS & Radio Cloud control
  - Switching and Routing Hardware
  - Cellular, Satellite or Wired backhaul to Alef core

- Kitted pre-provisioned with the following and Alef (e)SIMs.:
  - CBRS Mobile Point of Sale Devices
  - CBRS Tablet
  - CBRS Router for creating Wi-Fi Hotspot's
  - Up to 25 SIMS/ESIMs
  - Additional Devices Ala Carte including outdoor CBRS Camera with A.I. Functionality

ALEF

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ELIGIBLE AGENCIES
FEDERAL COOP PURCHASING

- **Over 98,000 eligible agencies can participate**
  - **Registration is FREE.**
  - **No obligation to use the contract vehicle.**

- **Eligible Agencies Include:**
  - State Agencies, Counties, Cities, Towns and Villages
  - Specials Districts: Water, MUD's, Transportation, Airports
  - Public and Private Higher Education
    - Colleges, Universities, Technical Schools
  - K-12 School Districts, Charter Schools & Other

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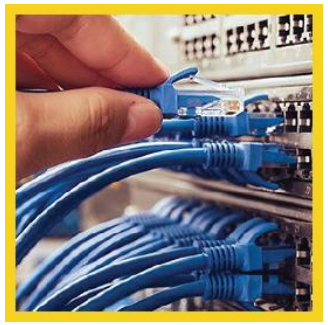
TYPES OF PRODUCTS

Electrical



DataComm

Lighting & Controls

Power Distribution

Industrial Control & Automation

Conduit, Raceway & Cable Support

Wire, Cable & Wiring Devices

Power Protection & Maintenance Supply

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