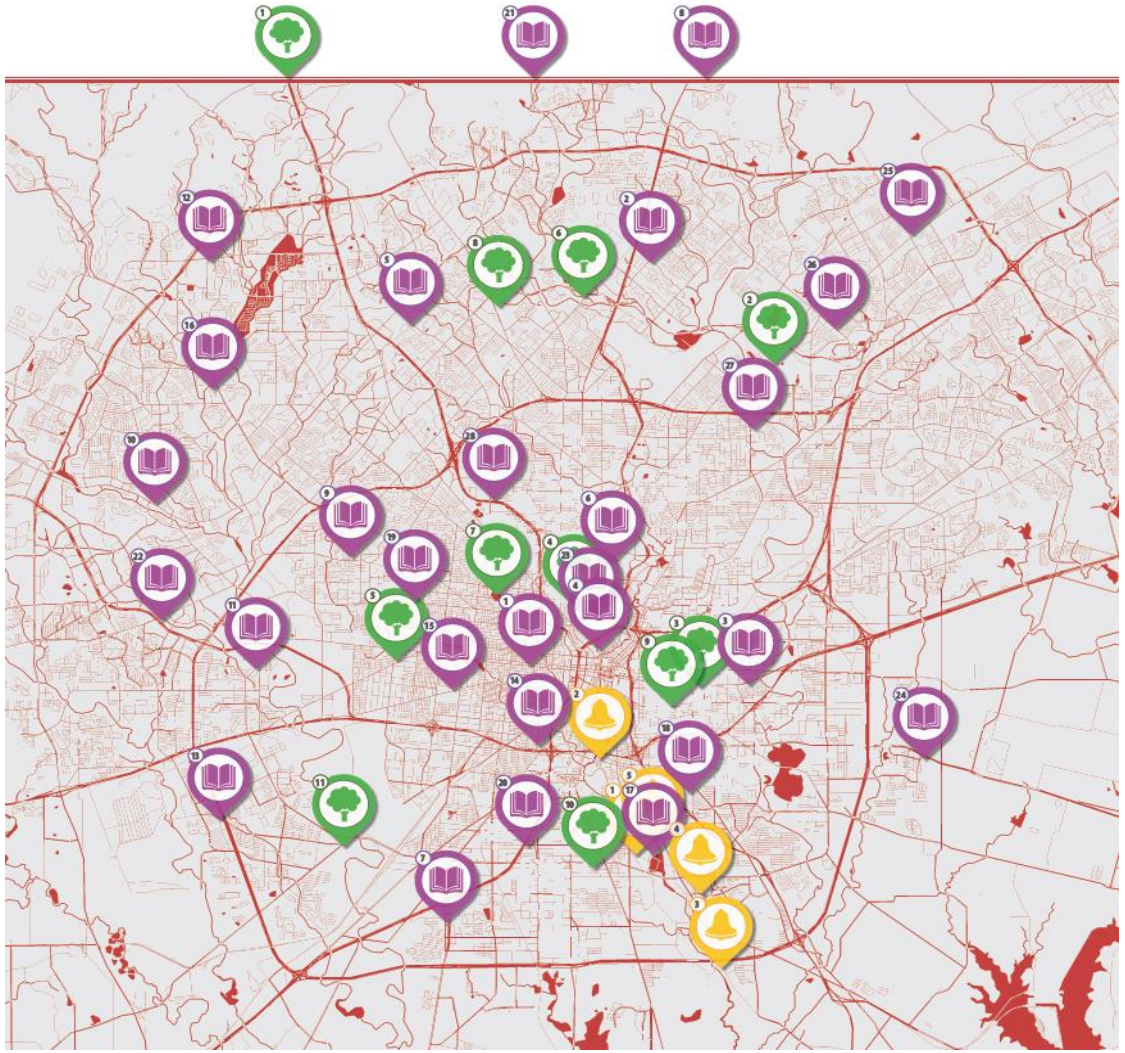
City of San Antonio
Digital Inclusion

Brian Dillard, Chief Innovation Officer

Digital Inclusion Efforts

- SAFreeWiFi Expansion
  - 29 SA Public Library Locations/Parking Lots
- Hot Spot Distribution
  - NEISD, Edgewood ISD, PreK4SA, COSA Parks & Rec
- Digital Inclusion Funding Support
  - SAISD, SouthSan ISD, NISD, Harlandale ISD, SWISD, Judson ISD
- Virtual Learning Hubs
  - Community Centers
- Digital Connectivity RFCSP – Telecoms/ISPs (Blackout Period)
- Connected Beyond the Classroom (CBTC)

SAFreeWi-Fi



Hotspot Distribution

- NEISD – 1,000
- Edgewood ISD - 500
- PreK4SA - 90
- Parks & Rec - 72

ISD Digital Inclusion Funding Support

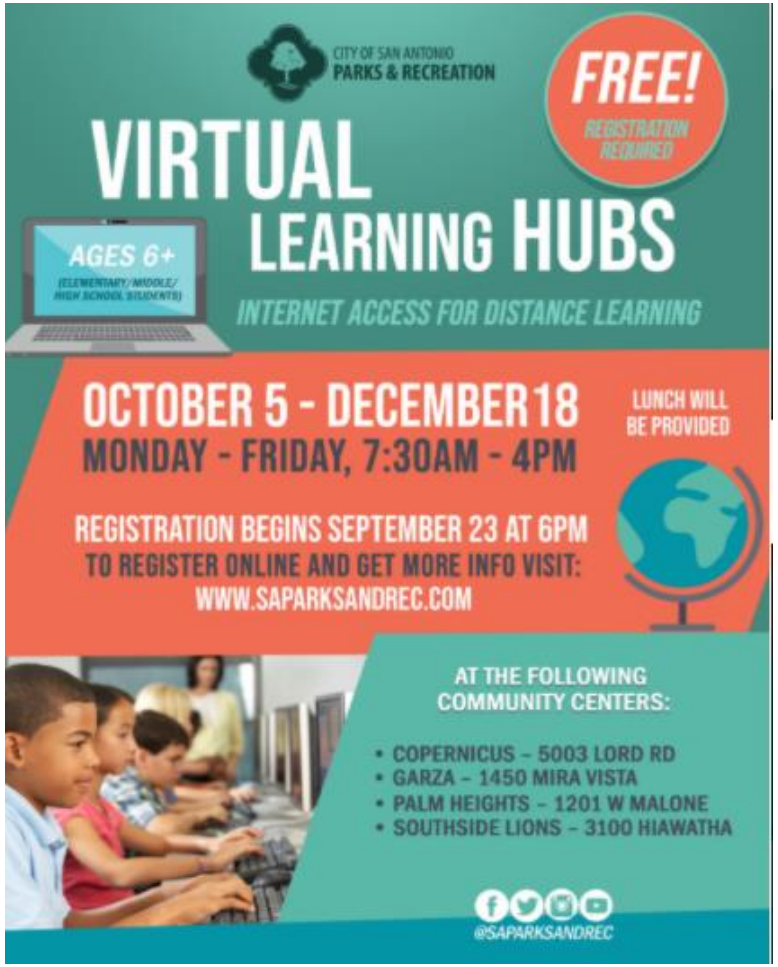
- San Antonio ISD
- South San Antonio ISD
- Northside ISD
- Harlandale ISD
- Southwest ISD
- Judson ISD

City of San Antonio
Recovery & Resiliency
Conquering Today's Challenges For A Stronger Tomorrow.

TEA®
Texas Education Agency

Virtual Learning Hubs

- Copernicus – District 2
- Southside Lions – District 3
- Palm Heights – District 5
- Garza – District 7

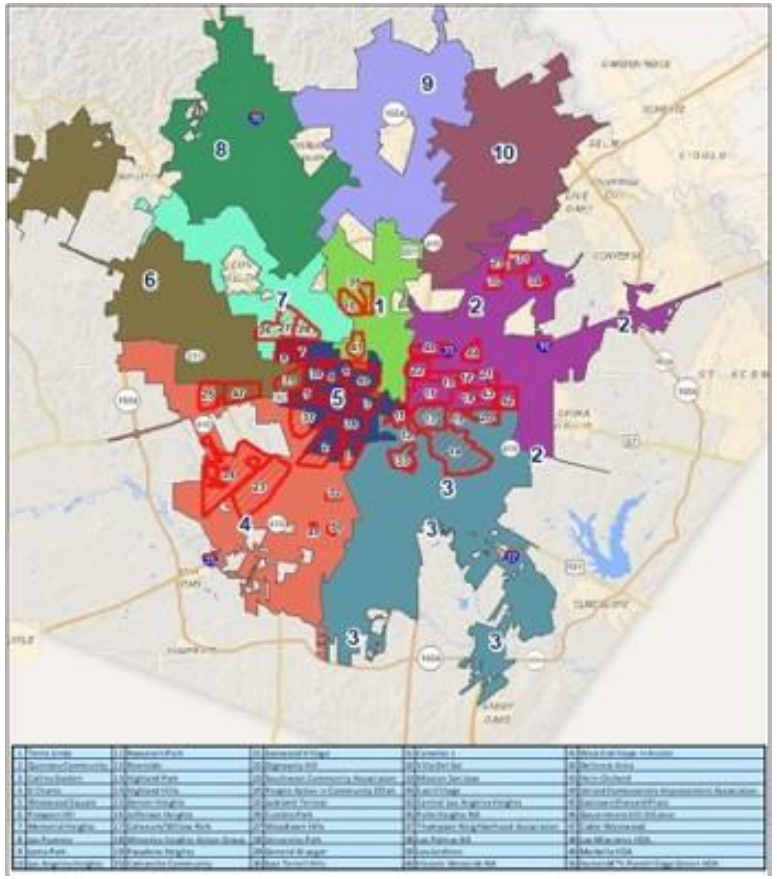


City of San Antonio
Connected Beyond the Classroom

John Rodriguez, Assistant IT Director

Connected Beyond the Classroom (CBTC)

- Provide in-home school system access for up to 20,000 students
- Top 50 Neighborhoods
- Eight ISDs
  - SAISD (24)
  - Edgewood (8)
  - Harlandale (2)
  - South San (3)
  - Southwest (4)
  - Judson (1)
  - North East (3)
  - Northside (5)



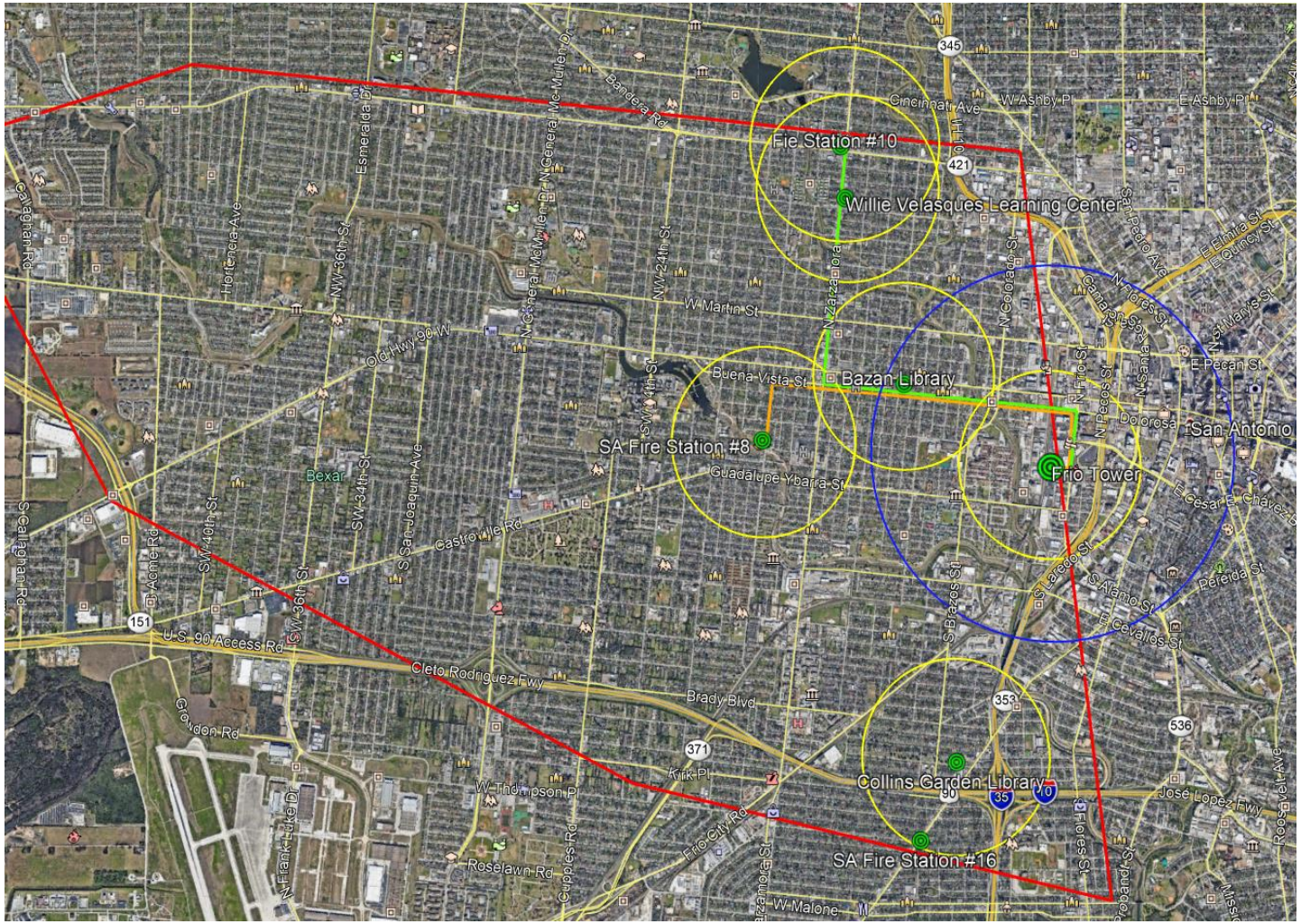
CBTC - Updated Timeline

- June 2020 - Business Case Built, 50 Priority Neighborhoods Identified
- July 2020 – Planning with Independent School Districts and Alamo Community College
- August - September 2020 – Vendor Bids and Contract Planning
- October -December 2020 – Pilot preparation, assessment, and implementation
- January - May 2021 – Expand to additional neighborhoods within Proof of Concept
- June - December 2021 – Continue expanding to remaining neighborhoods

CBTC - Phase 1

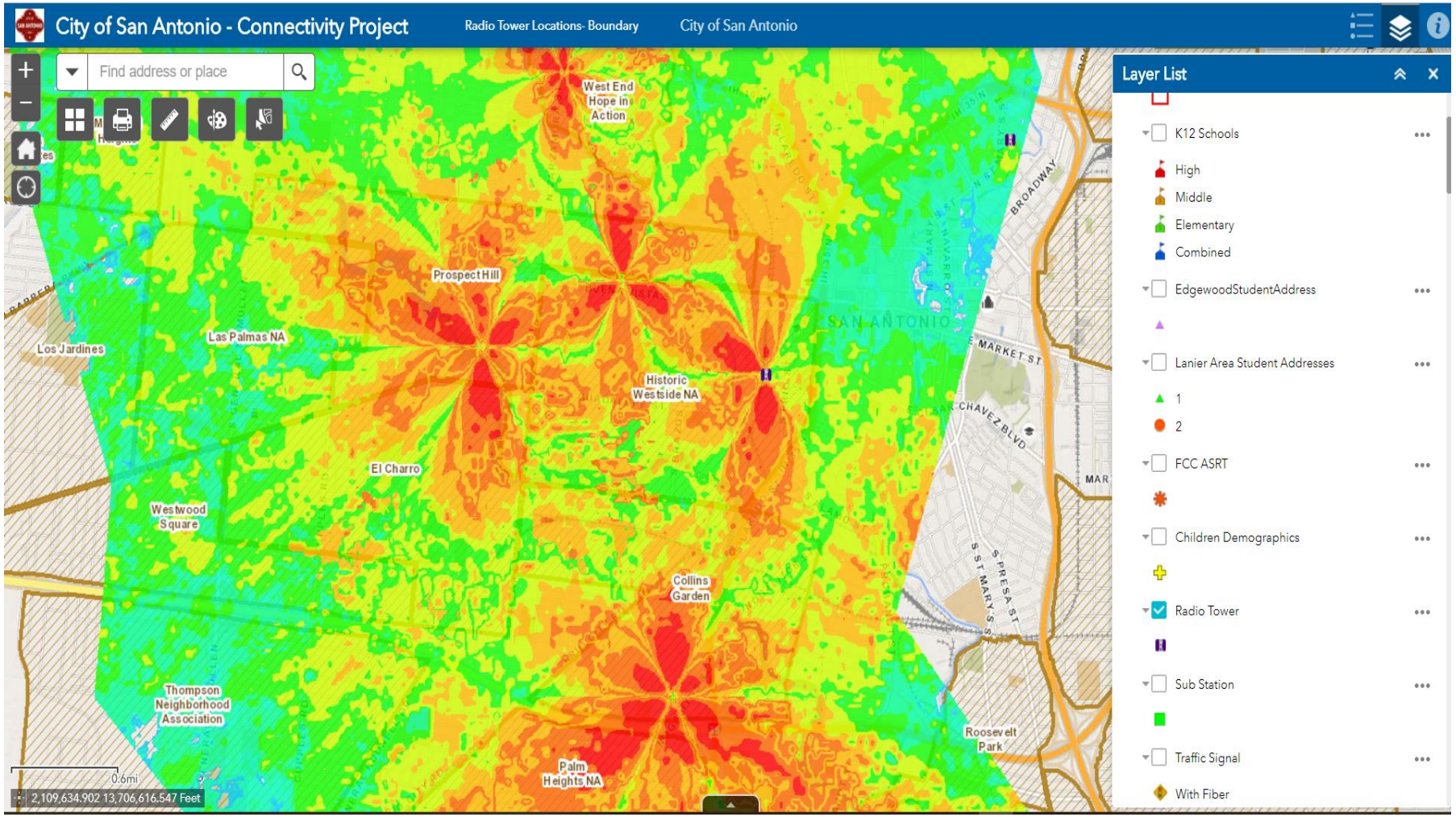
- Pilot (Oct – Dec 2020)

CBTC - Phase 1



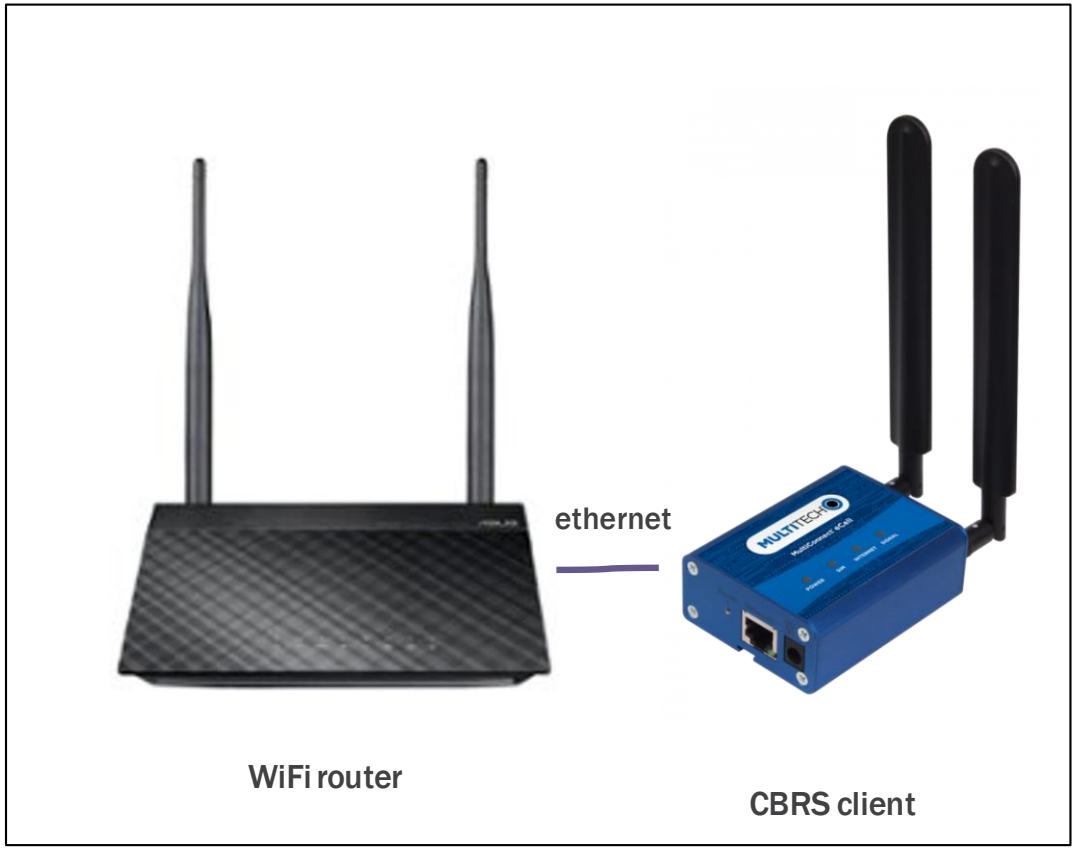
Fie Station #10
Willie Velasques Learning Center
Bazan Library
SA Fire Station #8
Frio Tower
San Antonio
Collins Garden Library
SA Fire Station #16
Cincinnati Ave
W Ashby Pl
E Ashby Pl
W Martin St
Buena Vista St
Guadalupe Ybarra St
Castroville Rd
Old Hwy 90 W
U.S. 90 Access Rd
Cleto Rodriguez Fwy
Brady Blvd
Kirk Pl
Frio City Rd
Roselawn Rd
W Malone
José Lopez Fwy
Pereida St
E Cevallos St
S Alamo St
S Laredo St
S Brazos St
Dolorosa
E Pecan St
Bexar
Esmeralda Dr
Hortencia Ave
NW 36th St
NW 24th St
SW 34th St
SW 40th St
S San Joaquin Ave
Callaghan Rd
S Callaghan Rd
Aoma Rd
Groudon Rd
Cupples Rd
Roosevelt Ave
Flores St
Probandt St
345
421
151
371
353
536
35
10

CBTC - Phase 1


City of San Antonio - Connectivity Project
Radio Tower Locations- Boundary
City of San Antonio
Find address or place
West End Hope in Action
Prospect Hill
Las Palmas NA
Los Jardines
Historic Westside NA
El Charro
Westwood Square
Collins Garden
Thompson Neighborhood Association
Palm Heights NA
Roosevelt Park
BROADWAY
MARKET ST
CESAR CHAVEZ BLVD
S ST MARYS ST
S PRESA ST
0.6mi
2,109,634.902 13,706,616.547 Feet
Layer List
K12 Schools
High
Middle
Elementary
Combined
EdgewoodStudentAddress
Lanier Area Student Addresses
1
2
FCC ASRT
Children Demographics
Radio Tower
Sub Station
Traffic Signal
With Fiber

Motorola Home Equipment

- CPE (Customer Premise Equipment)
- LTE client that will connect to Nitro network wirelessly
- Off-the-Shelf Wi-Fi Router to connect student devices in the home
- Cat5 Ethernet Connection between Wi-Fi Router and LTE Client



Provided Student Equipment

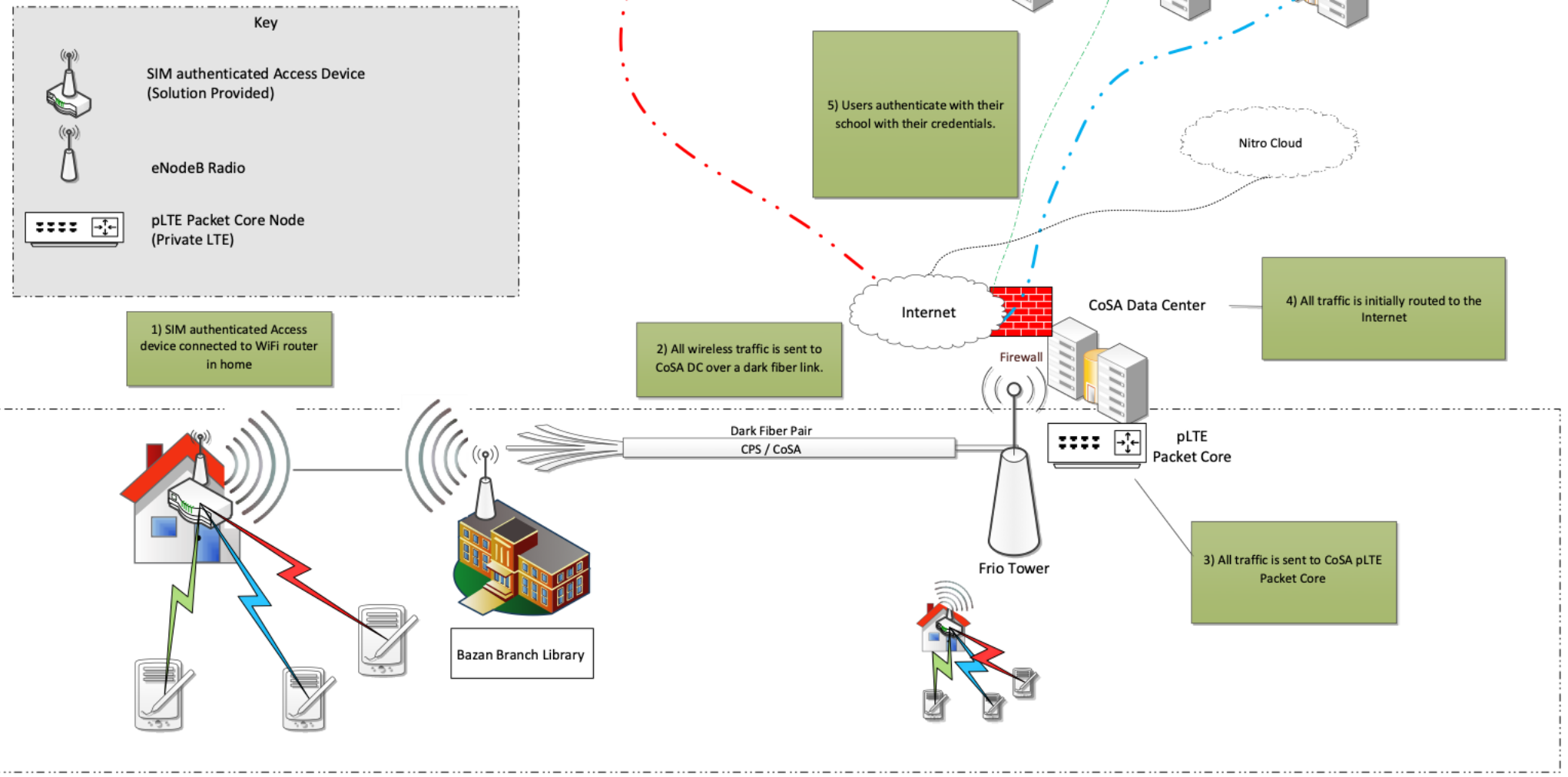
Key

Parent 2 (attends San Antonio College, login is @alamo.edu)

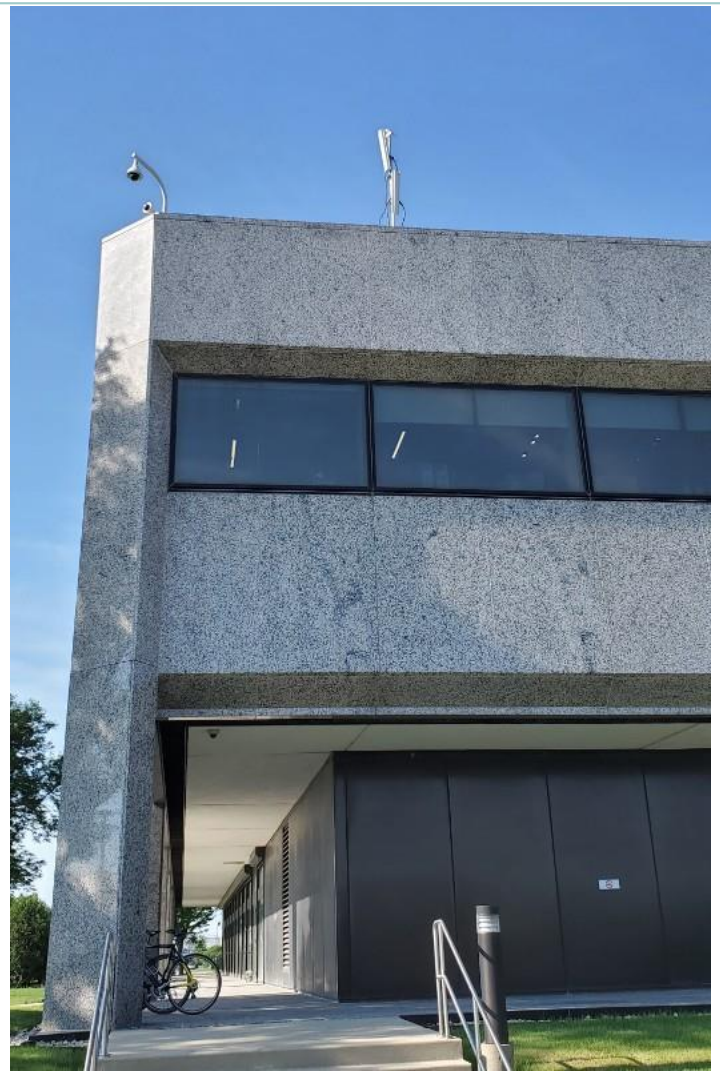
Child 1 (attends Lanier High, login is @saisd.edu)

Child 2 (attends Las Palmas Elementary, login is @eisd.edu)

SCENARIO : pLTE access to underserved communities, with SIM card authentication to validate access.
Traffic is routed to CoSA Tower for pLTE Packet Core
All traffice is routed out to the Internet for access to Internet based learning resources.



Example Site Install



Leveraging City Facilities

Leveraging City Facilities

CBTC – Phase 2

- Replication of Efforts Expansion of technology
  - Inclusion of remaining neighborhoods
  - Inclusion of remaining school districts
  - Full Deployment
    - Up to remaining 50 high priority neighborhoods

CBTC – Phase 2

- Identify/assess considerations when replicating across other school districts and neighborhoods:
  - E-rate regulations
  - Technology concerns
  - Asset limitations
  - Funding approaches
  - Sustainability measures
- Project Timeline (fiscal year): Q2 2021 – Q4 2021

Current Digital Inclusion Efforts

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