

City of San Antonio

Fiber Deployment Update

Innovation & Technology Committee

May 25, 2021

Presented by:

Razi Hosseini, P.E., R.P.L.S., Director/City Engineer

Marcus Hammer, M.P.A., Capital Programs Manager



Background

2014

- Google announced San Antonio as potential fiber city

2015

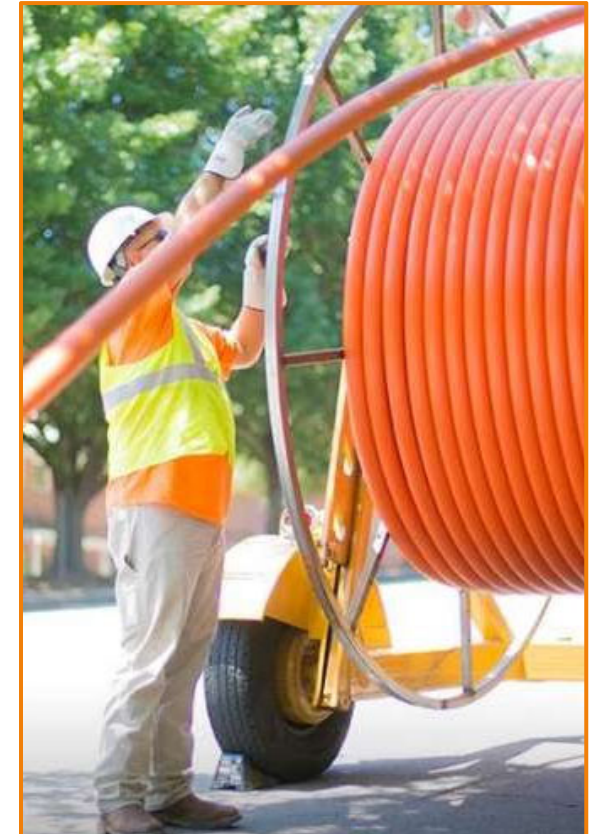
- Google and AT&T announced San Antonio will receive gigabit fiber service
- AT&T begins expanding their fiber network

2016

- Google starts constructing their fiber network build out
- Additional companies begin fiber deployment
- City creates a Fiber Deployment Team – 14 positions
- City Council approves Micro Trenching

17 - 21

- Construction activities continue from existing and new fiber companies



Fiber Permits

Fiber Company	FY 16 Actuals	FY 17 Actuals	FY 18 Actuals	FY 19 Actuals	FY 20 Actuals	FY 21 to Date	Permit Totals	Deployment Duration
AT&T Fiber	225	280	236	3	0	6	750	Complete w/ original plan
Conterra	87	40	2	2	4	0	135	Complete w/ original plan
Crown Castle	0	0	0	11	4	1	16	Complete w/ original plan
Fiberlight	0	0	6	6	14	0	26	Complete w/ original plan
Google Fiber	12	20	52	48	133	23	288	Unknown
Level3	0	0	0	23	29	3	55	Complete w/ original plan
MCI-Verizon	0	0	98	52	89	76	315	Unknown
UPN	0	0	0	33	131	28	192	Complete w/ original plan
Windstream	0	0	4	0	0	0	4	Complete w/ original plan
Zayo	204	125	153	113	63	63	721	Complete w/ original plan
Permit Totals	528	465	551	291	467	200	2,502	

AT&T Fiber

2,000+ miles of fiber install planned

3,200+ miles of fiber completed

100 additional miles anticipated for 2021

City-wide deployment



AT&T

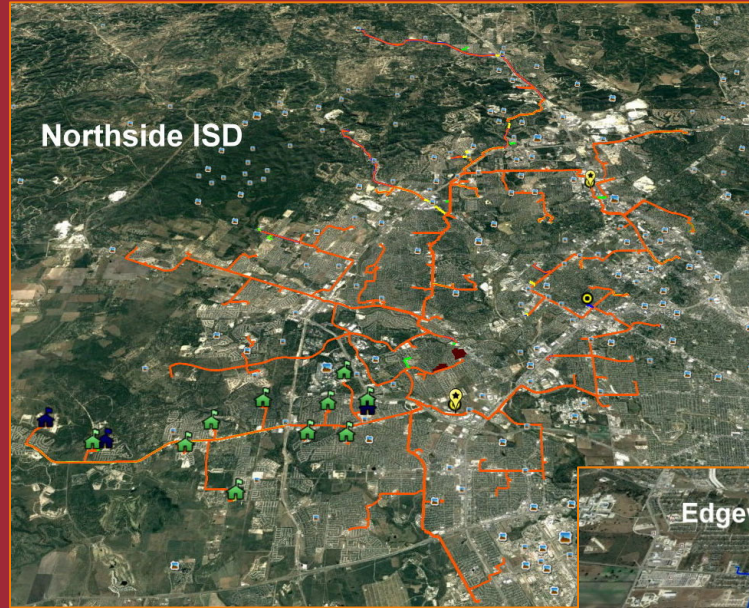


Conterra

140 miles of fiber install planned

140 miles of fiber completed

Primarily in CD 4, 5, 6, 7, & 8



Google Fiber

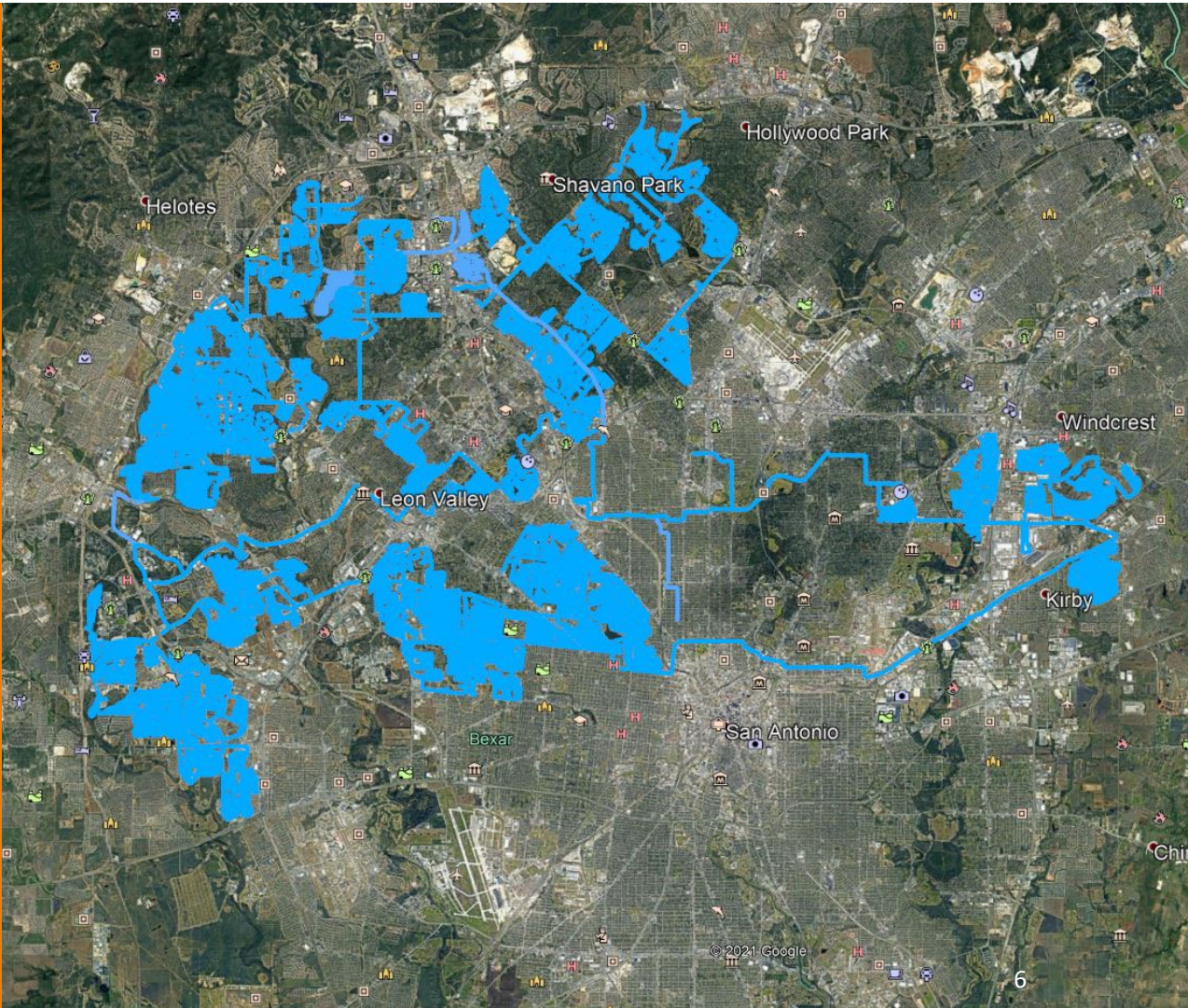
4,000 miles of fiber install planned

120 miles of fiber backbone completed

1,553 miles of micro trench completed

43 additional miles anticipated for 2021

Primarily in CD 1, 2, 4, 6, 7, 8, & 9



Google Micro Trenching

Micro trenching



Fiber installation



Fiber installation



Google Micro Trenching Restoration

CLSM backfill



Final CLSM product



Sealant application



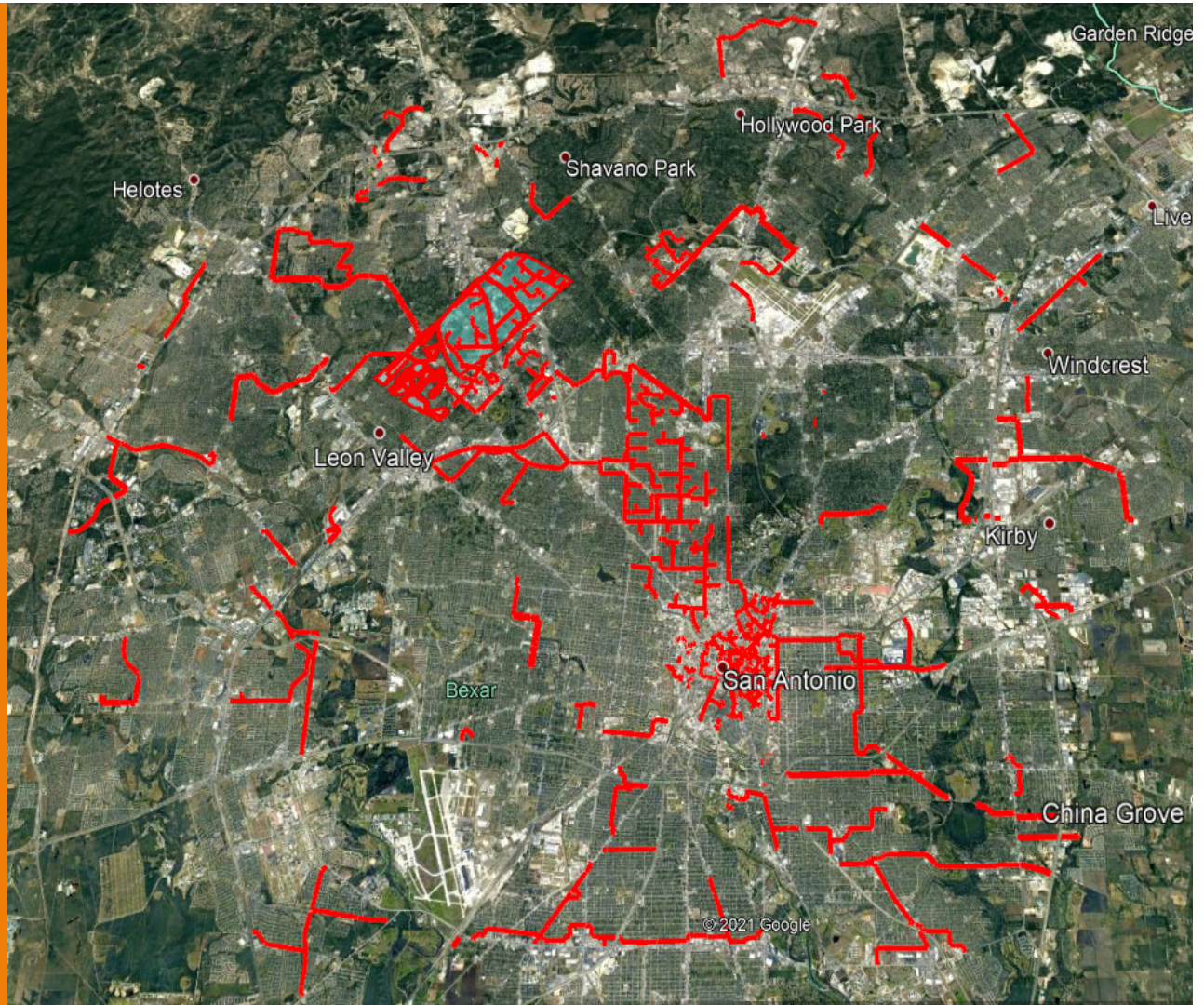
MCI Metro

700+ miles of fiber install planned

252 miles of fiber completed

85 additional miles anticipated for 2021

City-wide deployment



Unite Private Network

200 miles of fiber install planned

220 miles of fiber completed

13 additional miles anticipated for 2021

City-wide deployment



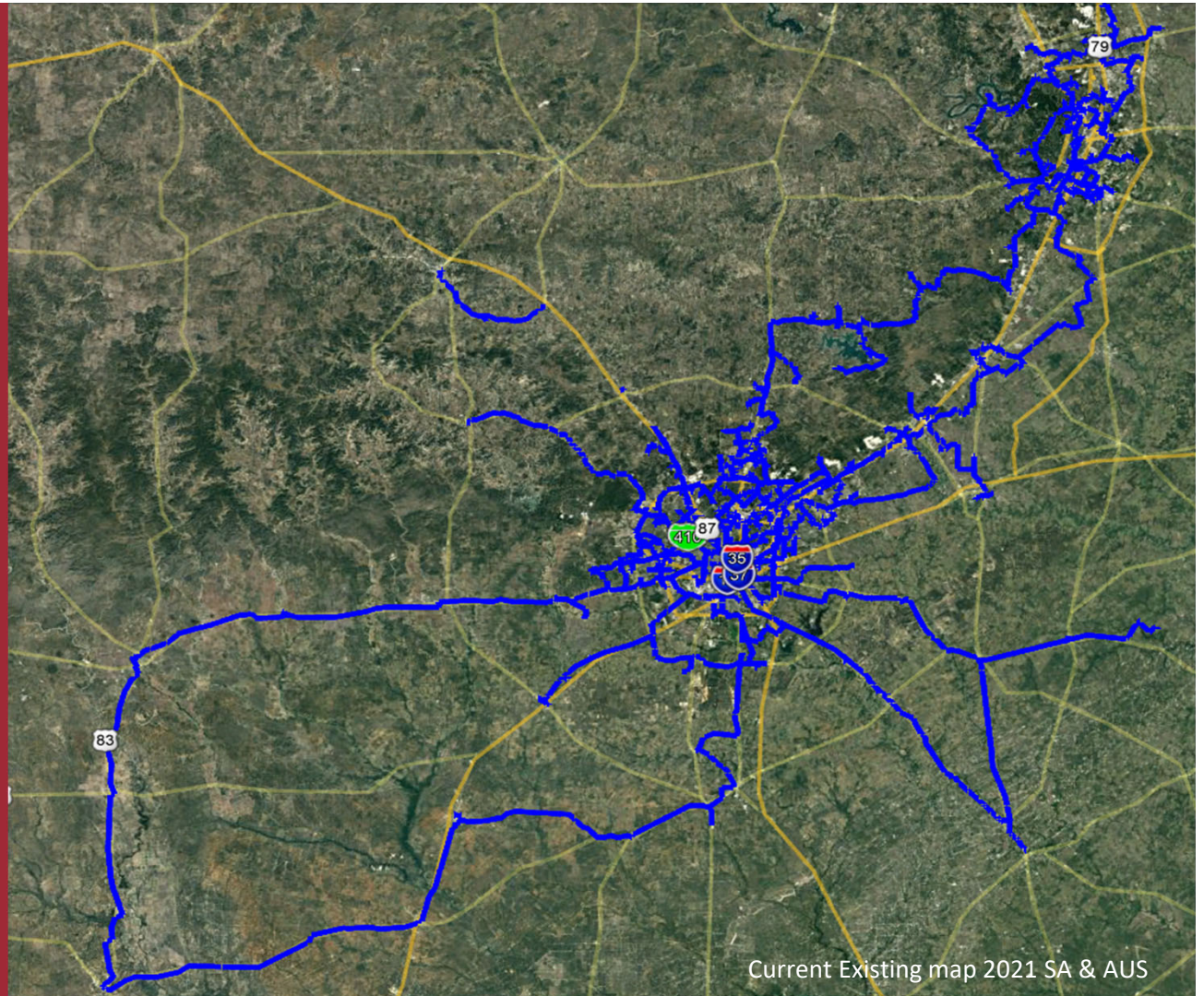
Zayo

776 miles of fiber install planned

1,500 miles completed regionally

50 additional miles anticipated for 2021

City-wide deployment

The Zayo logo is displayed in white lowercase letters on an orange square background.

Current Existing map 2021 SA & AUS

Community Outreach Enhancements

Construction notifications

- 30 day notification to City Council and affected NA's prior to construction
- 7 days prior, electronic message boards on impacted collector or arterial streets
- 3 days prior, door hangers to impacted residents and businesses

Signage

- Construction signage to include Project Type, Utility and Contractor contact information

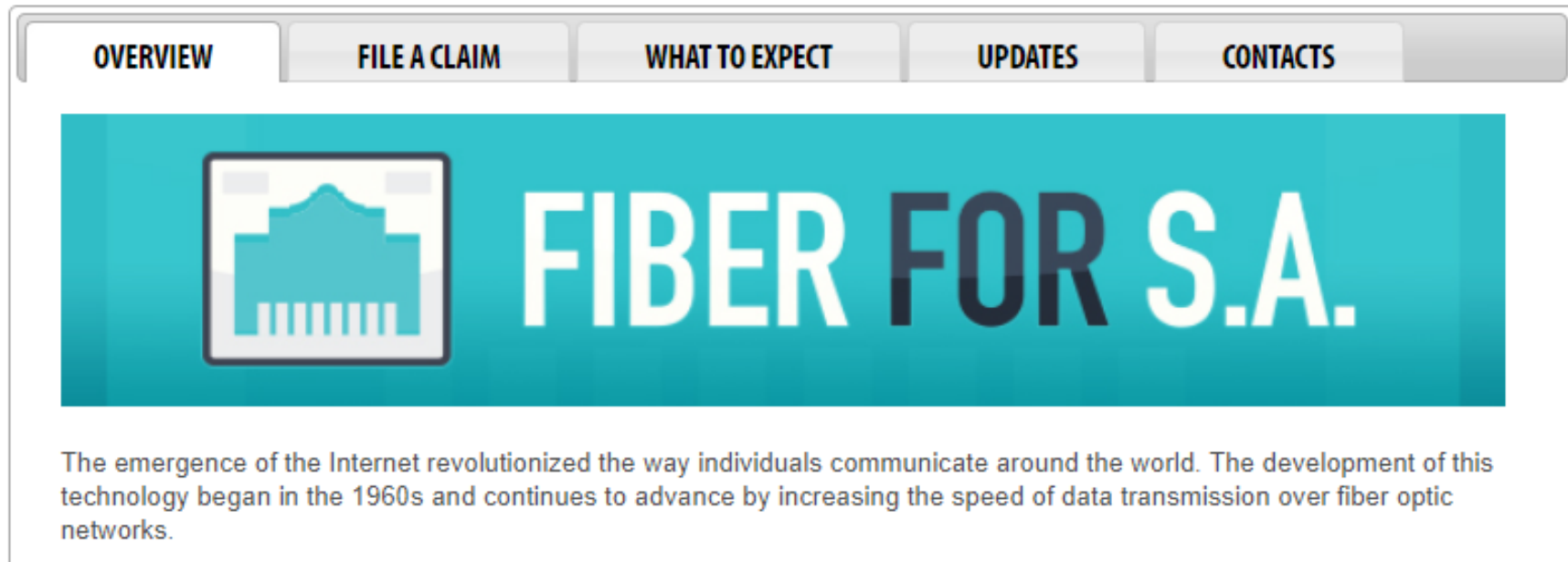
Identification

- Construction crew to wear Utility Owner identifier visible to the public, i.e., vests, hard hats, etc.

COSA Fiber Website

- <http://www.sanantonio.gov/TCI/Fiber-Deployment>

FIBER DEPLOYMENT IN THE CITY OF SAN ANTONIO



The screenshot shows a website interface with a navigation bar at the top containing five tabs: OVERVIEW, FILE A CLAIM, WHAT TO EXPECT, UPDATES, and CONTACTS. Below the navigation bar is a large teal banner with a white icon of a building with a fiber optic cable on the left and the text "FIBER FOR S.A." in large white and black letters on the right. Below the banner is a paragraph of text.

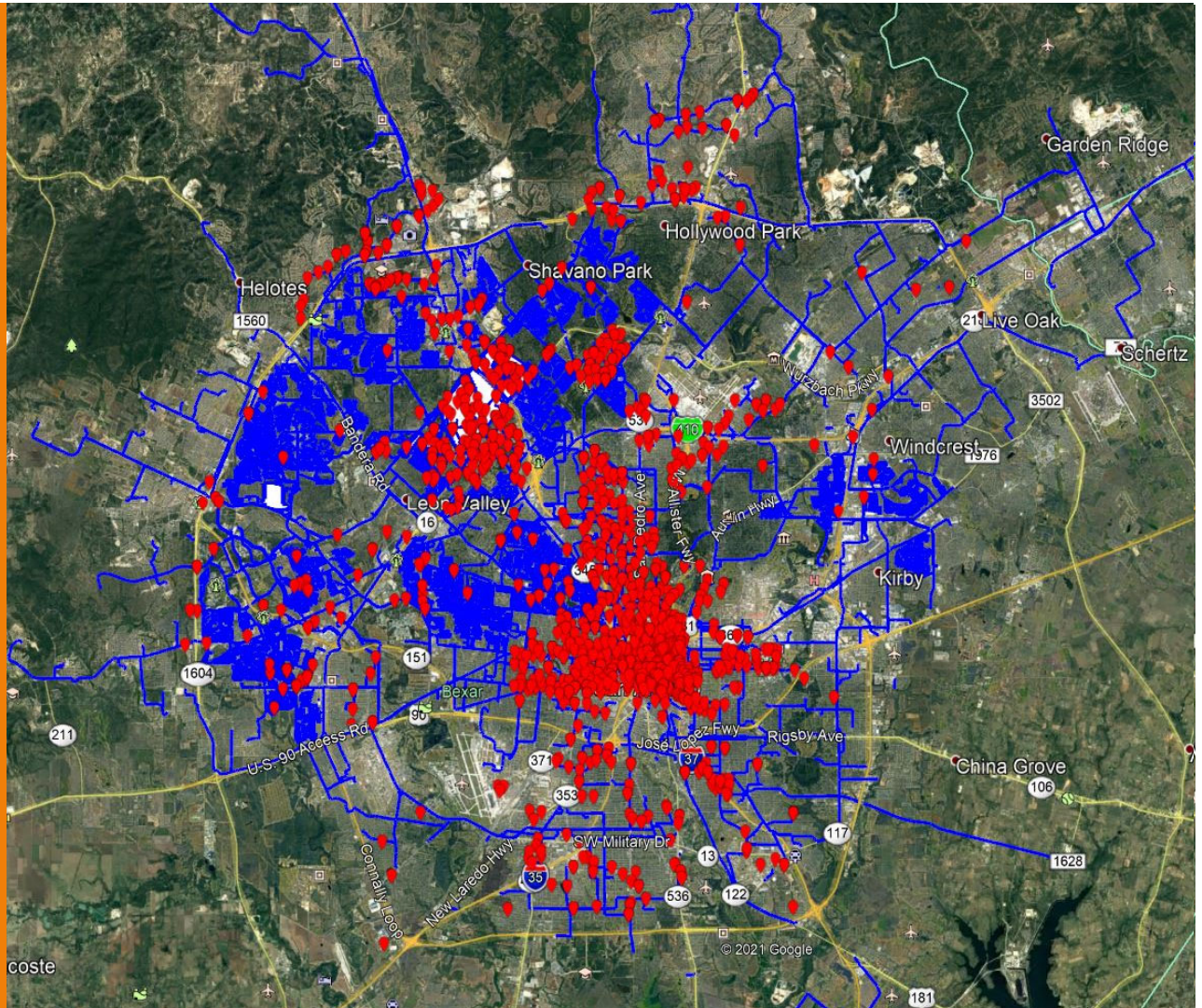
OVERVIEW FILE A CLAIM WHAT TO EXPECT UPDATES CONTACTS

FIBER FOR S.A.

The emergence of the Internet revolutionized the way individuals communicate around the world. The development of this technology began in the 1960s and continues to advance by increasing the speed of data transmission over fiber optic networks.

Accomplishments

- 2,500+ fiber permits approved
- 6,261 miles of fiber installed
- 1,193 small cell permits approved
- 827 small cell sites constructed



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