



# **City of Fresno, CA Broadband Strategic Plan**

**Findings and Recommendations**

**Presented By:**

**Preston Young, Project Manager  
Will Morat, Senior Broadband Consultant**

**November 17, 2022**

# Project Goals and Objectives

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- Improve connectivity across the City of Fresno
- Support and improve digital inclusion
- Improve municipal operations
- Attract high-tech businesses for economic development
- Attract and facilitate private investment

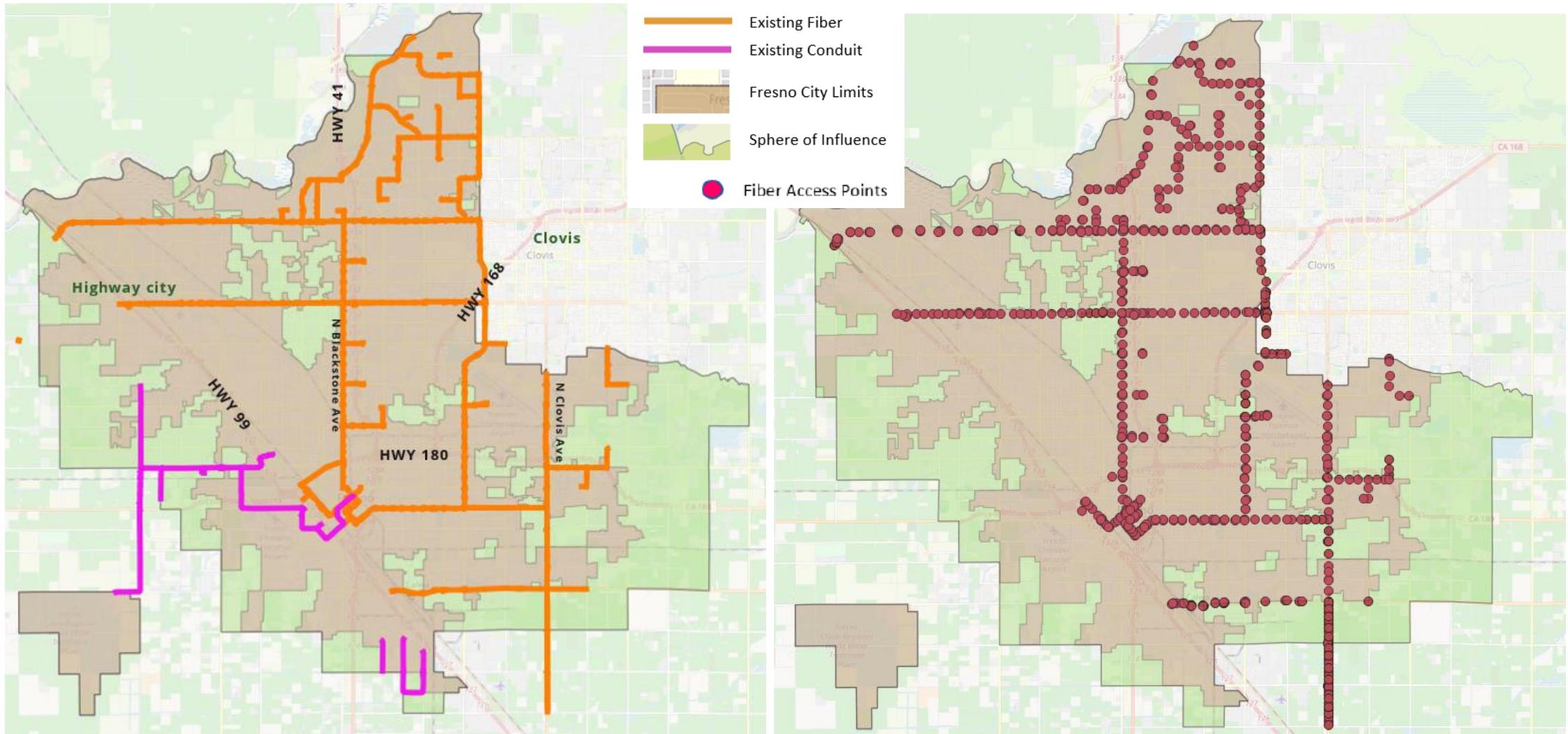
# Key Findings

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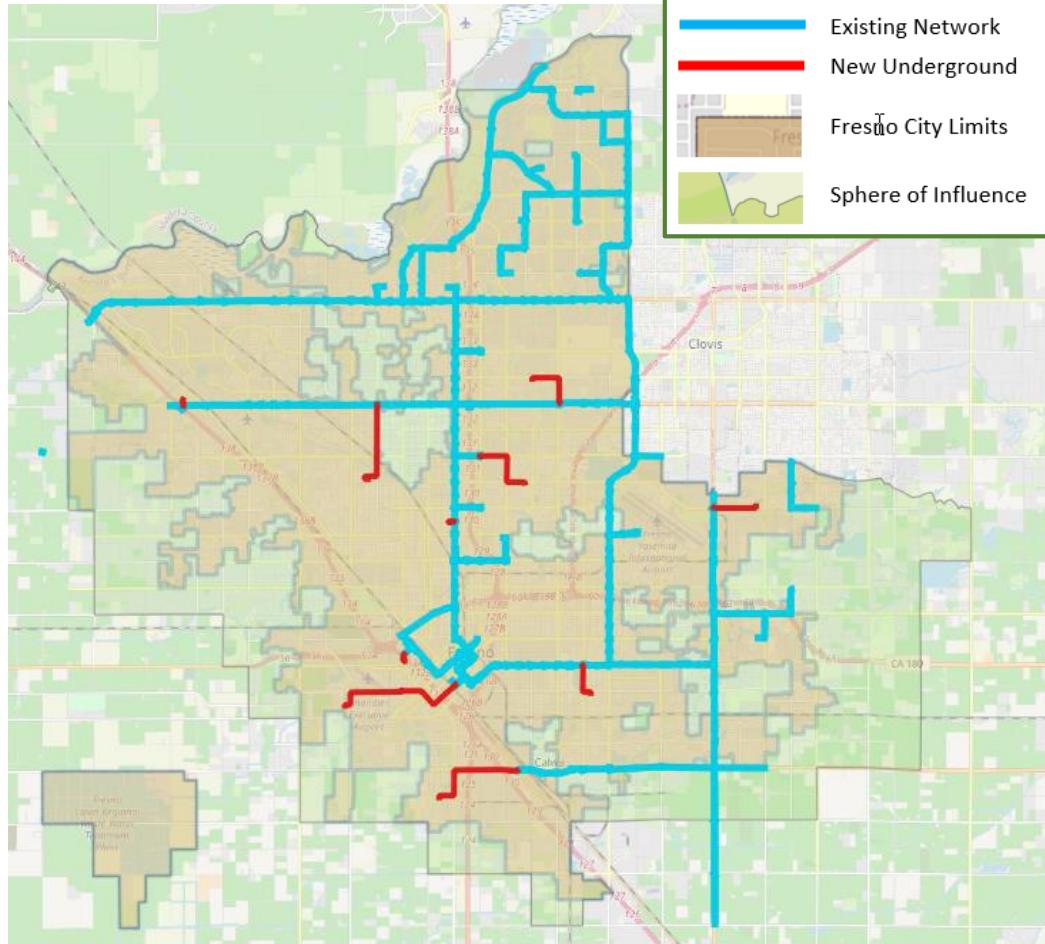
- ▶ The city of Fresno has nearly 120 miles of conduit and fiber as part of the city network
- ▶ Fresno has incumbent internet providers that support the majority of the city
- ▶ Digital equity is a large issue in Fresno:
  - ▶ Financial struggles
  - ▶ Language issues
  - ▶ Access to devices
  - ▶ Understanding on how to use
  - ▶ Affordability
  - ▶ Privacy
- ▶ Fresno qualifies for Local Agency Technology Assistance, LATA, Grant

# City Owned Infrastructure



# HLD and Cost Estimates

## 1. Connect city facilities

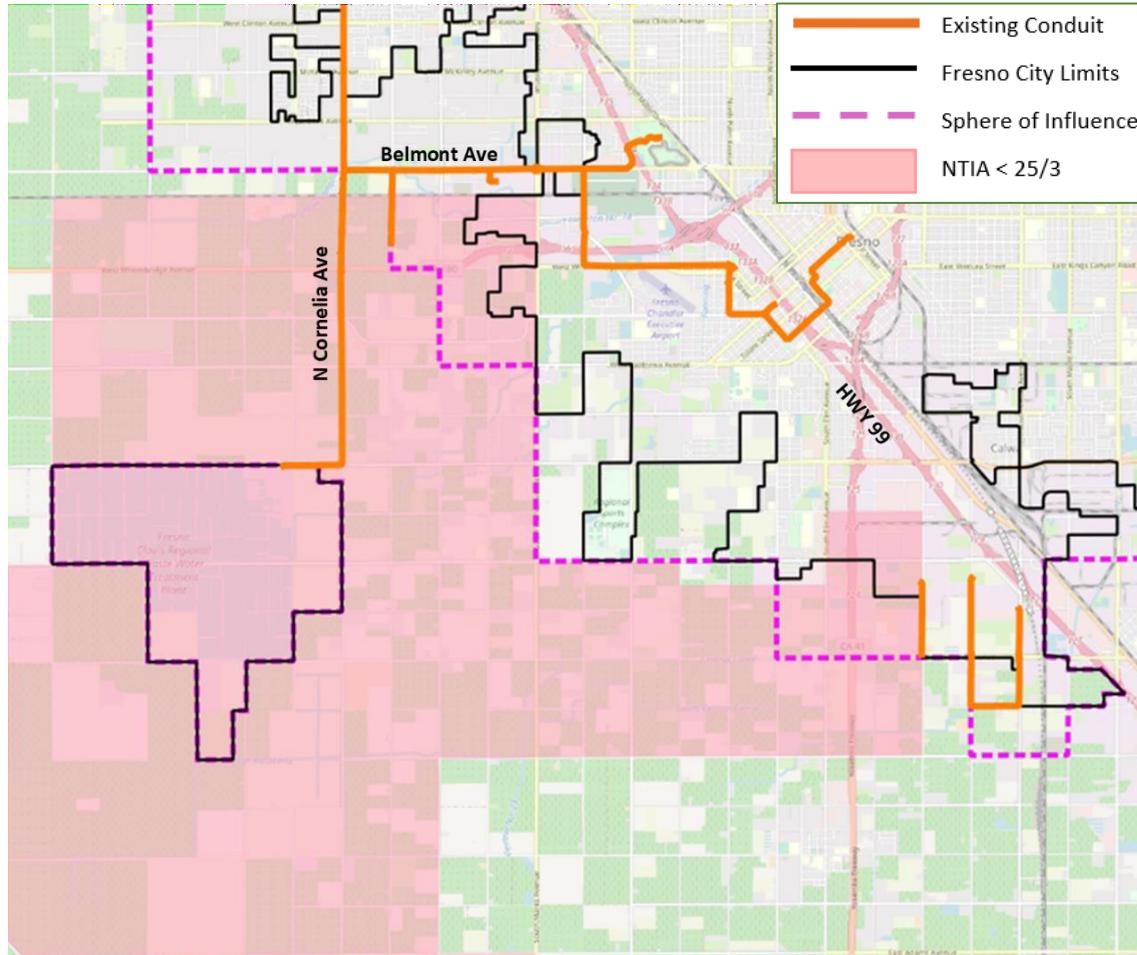


### Connect City Facilities Construction Cost

Construction Type	Footage	Per Ft \$	Total Estimated Cost
Existing Conduit	7,184.00	25	\$ 179,600.00
New Underground	50,460.00	90	\$ 4,541,400.00
<b>Total</b>	<b>57,644.00</b>	<b>90</b>	<b>\$ 4,721,000.00</b>

# HLD and Cost Estimates

## 2. Supporting Underserved Areas

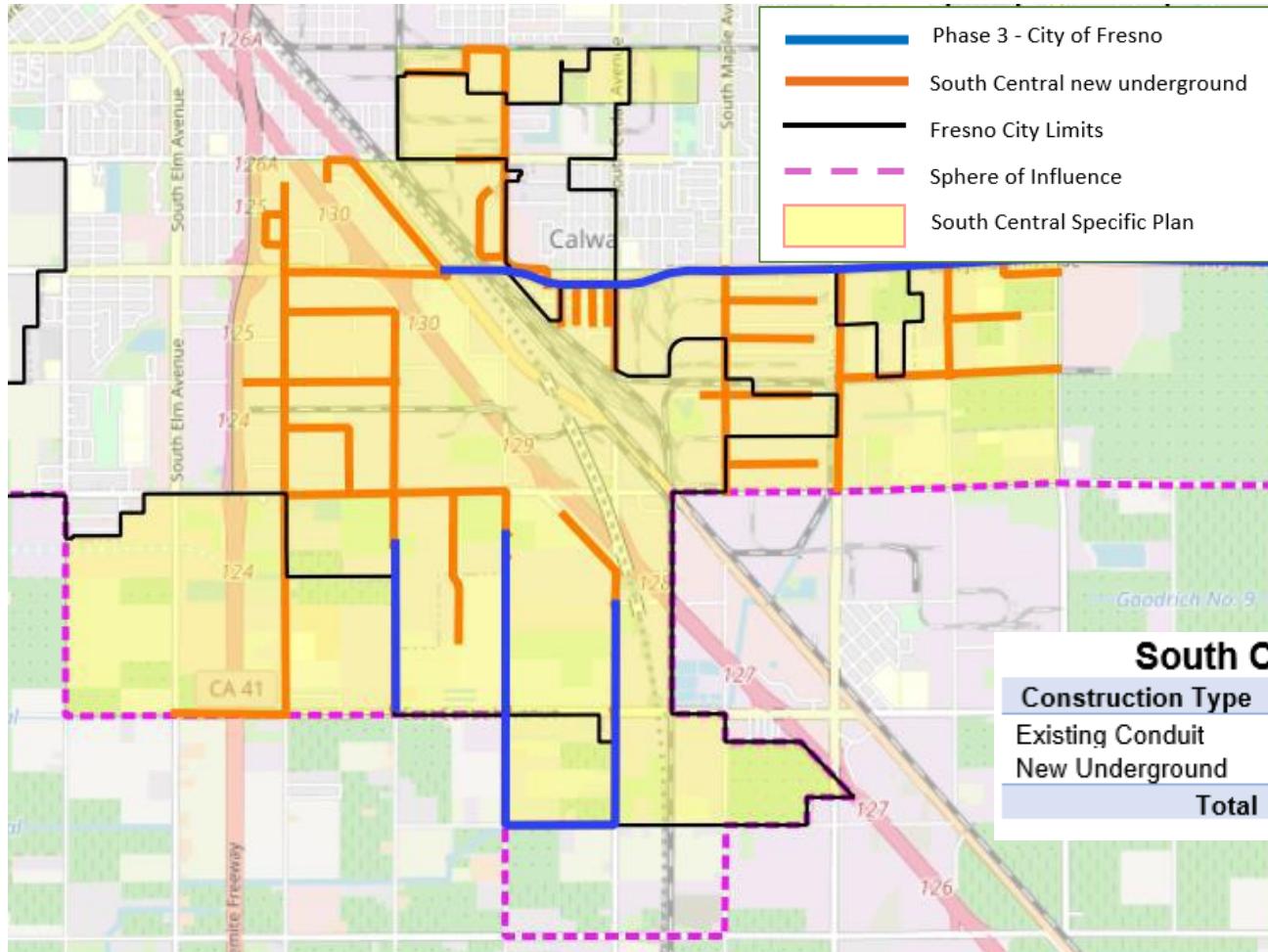


### Underserved Support Area Estimated Footage

Construction Type	Feet
Existing Conduit	104,524.00
<b>Total</b>	<b>104,524.00</b>

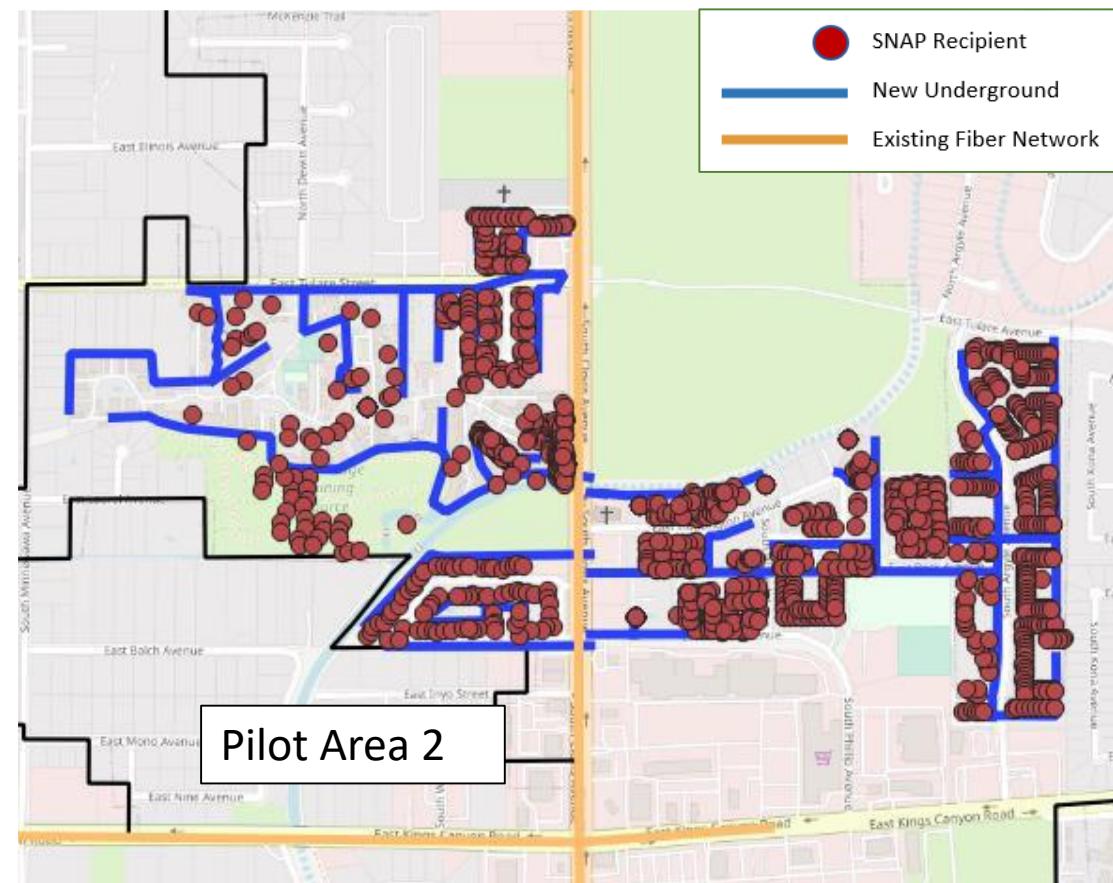
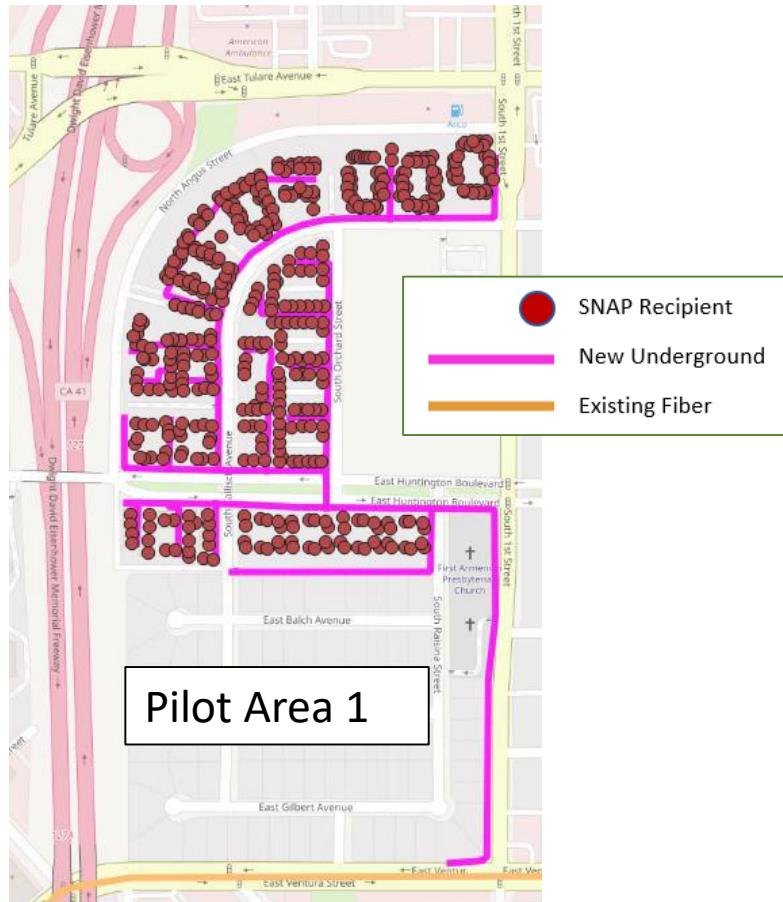
# HLD and Cost Estimates

## 3. South Central Fresno



# HLD and Cost Estimates

#### 4. Pilot Areas 1 and 2 – Economically Marginalized Areas



# Pilot Area Costing Estimation



Pilot 1 and 2 Estimated Footage and Cost				
Focus Area	Construction Type	Est. FT	Max of Price/Ft	Sum of Total
Pilot Area 1 - Path	New Underground	10,636	\$ 90.00	\$ 957,240.00
Pilot Area 1 - Path Total		10,636	\$ 90.00	\$ 957,240.00
Pilot Area 2 - Path	New Underground	20,171	\$ 90.00	\$ 1,815,390.00
	Aerial	5,018	\$ 30.00	\$ 150,540.00
Pilot Area 2 - Path Total		25,189	\$ 90.00	\$ 2,267,010.00
Total		267,219	\$ 90.00	\$ 3,224,250.00

## Project Summary

- This proposed LATA grant will allow the City of Fresno to conduct a design engineering study of five in-need areas in Fresno. This work will take seven months. The work will involve continued public outreach and engagement. The end result will be a shovel-ready project that will bring high-speed broadband to un/underserved residents in the city, with buy-in from Fresno citizens.
- Connecting Fresno: Technical Tasks for Last Mile Connectivity

## Grant Status

- August 2022 – Awarded
- \$ 496,874

# Recommendations (1-4)

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1. **City Broadband Oversight Committee.** Form or designate a committee tasked with broadband advancement and decision-making powers including roles and responsibilities.
2. **Apply & Secure Grant Funding For Phase 1, Pilot Area 1 & Pilot Area 2.** Research and apply for state and federal grants to aid in the planning, design, and construction of fiber assets, particularly grants that target underserved areas and development zones.
  - a) **Local Agency Technical Assistance (LATA)**
  - b) **SB 156 Last Mile Grant Funding**
3. **Connect 10 City Sites Not Currently Served.** The City identified 10 parks that currently have no broadband service; the High-Level Design in Section 6 proposes network expansion to connect these 10 sites into the City's fiber network.
4. **Establish a Data Center.** Offer the space at 1555 Van Ness Avenue, including through the Golden State Network/Middle-Mile Broadband Initiative, as a data center/colocation building for a Fresno connection point.

# Recommendations (5-7)

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5. **City Policies & Standards.** Create workflows and city policies that aid and encourage broadband infrastructure development through dig once policies, updated construction standards, developer agreements and requirements, joint builds on CIP projects, and any other policy needed to further broadband.
6. **Solicit and Nurture Partnerships.** Continue partnership discussions with incumbents and local ISPs, creating a positive environment for unhindered broadband expansion.
7. **Create a Formal Partnership with the County.** Explore formal partnership structures with Fresno County, who is simultaneously undertaking their own broadband strategic planning process, including possibly establishing a Joint Powers Authority (JPA) that can act as a single lead in grant applications and coordination efforts.

# Council Direction and Feedback

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- Approve and adopt Broadband Strategic Plan

# QUESTIONS ?