



GOLDENSTATENET

Project 15 | Los Angeles Overview Packet  
January 31, 2022

*This map identifies the initial 18 broadband project areas and the network solutions proposed by the Third Party Administrator (TPA), GoldenStateNet, which build upon the California Public Utilities Commission (CPUC) recommended routes. Highlighted in this packet are the solutions identified for the Los Angeles/South Los Angeles Project and other geospatially registered data sets which influenced them.*



## Project 15 | Los Angeles/South Los Angeles Summary

Similar to Orange County (see Project Report #16), the lack of access to high-speed broadband in underserved Los Angeles and South Los Angeles neighborhoods is not from a lack of fiber broadband resources, but a consequence of socioeconomic forces affecting affordability and adoption. Though the city is well wired and served by many existing middle-mile and last-mile providers, broad tracts of South Central Los Angeles remain without affordable Internet service for most households.

The California Public Utilities Commission (CPUC) recommends three routes stretching from a downtown Internet Exchange Point, one route will reach as far south as Long Beach. This additional infrastructure is meant to establish greater cost-effective access for last-mile providers willing to bring area customers more affordable high-speed broadband service plans to this area.

GoldenStateNet is investigating the purchase of Indefeasible Right of Use (IRU) dark fiber leases on existing fiber optic cable routes to create its proposed middle-mile network. While it has no further additions to the CPUC's plan at this time, GoldenStateNet will continue to work with community organizations to fully outline the region's needs.

There remain significant barriers to service adoption in South Central LA. These include distrust of large companies as well as (among other factors) a lack of access to financial assets such as credit cards. All have combined to form what amounts to an Internet service "desert" in low-income city neighborhoods.

Like Orange County (see Project #16), because the challenge is not technical in nature, GoldenStateNet recommends that last-mile providers, metropolitan planning organizations, local government entities, and other stakeholders work together to stimulate adoption. One step is for these groups to collaborate with GoldenStateNet to secure existing open access fiber network assets with a dark fiber IRU for connection to the statewide network. Other solutions to resolving the socioeconomic barriers in poor urban neighborhoods must be explored.

It should be noted that some last-mile providers have designed successful programs for other low-income urban areas that build client trust by careful explanation of services, and a constellation of low-cost plans adaptable for most households. Given appropriate middle-mile support, these companies have expressed a desire to serve South Central LA. There is also interest among local government entities in developing additional last-mile solutions.

## Project 15 | Los Angeles/South Los Angeles Highlights

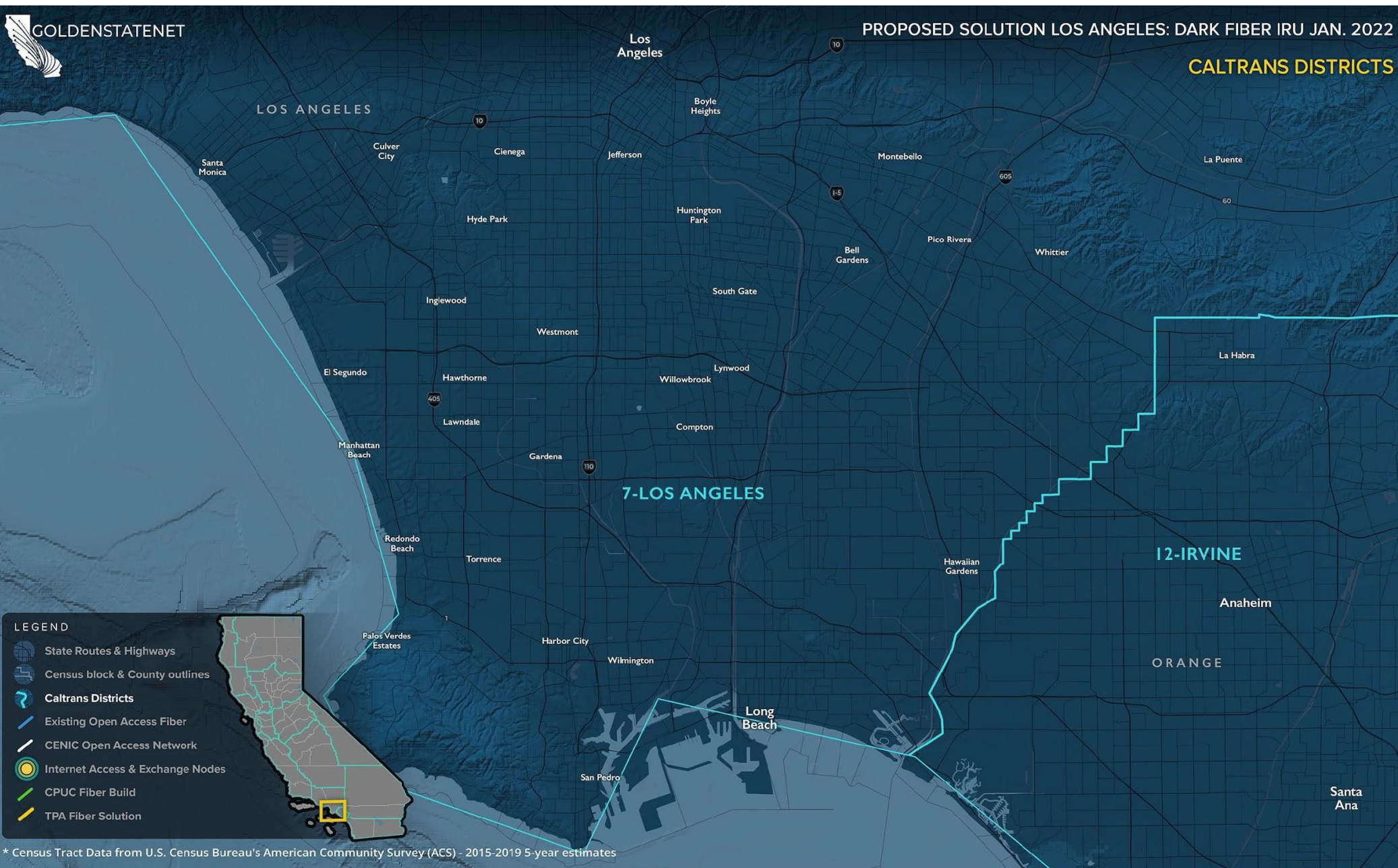
<b>Type of Solution:</b>	Indefeasible Right of Use (IRU) dark fiber lease
<b>Highways/Routes:</b>	HWY 91, 105, 710, 110
<b>Start and End Points or Cities connected:</b>	Los Angeles, Lynwood, Inglewood, Willowbrook, Palmdale
<b>Approximate Fiber Miles:</b>	120
<b>Quantity of Fibers:</b>	4
<b>Approximate Start Date:</b>	2022
<b>Regional Broadband Consortium:</b>	Los Angeles Digital Equity Project
<b>Regional Transportation Planning Agency (RTPA) &amp; Metropolitan Planning Organizations (MPO):</b>	Los Angeles County Metropolitan Transportation Agency, Southern California Association of Governments



## GoldenStateNet Maps

The appended maps share detailed visualizations of the GoldenStateNet (TPA) recommended middle-mile network solutions. The maps illustrate the complex geographical, topological, technological, and socioeconomic landscape of California.

In combination with available network assets and regional partnerships, the map data has helped to directly inform GoldenStateNet's well-considered proposals.



\* Census Tract Data from U.S. Census Bureau's American Community Survey (ACS) - 2015-2019 5-year estimates





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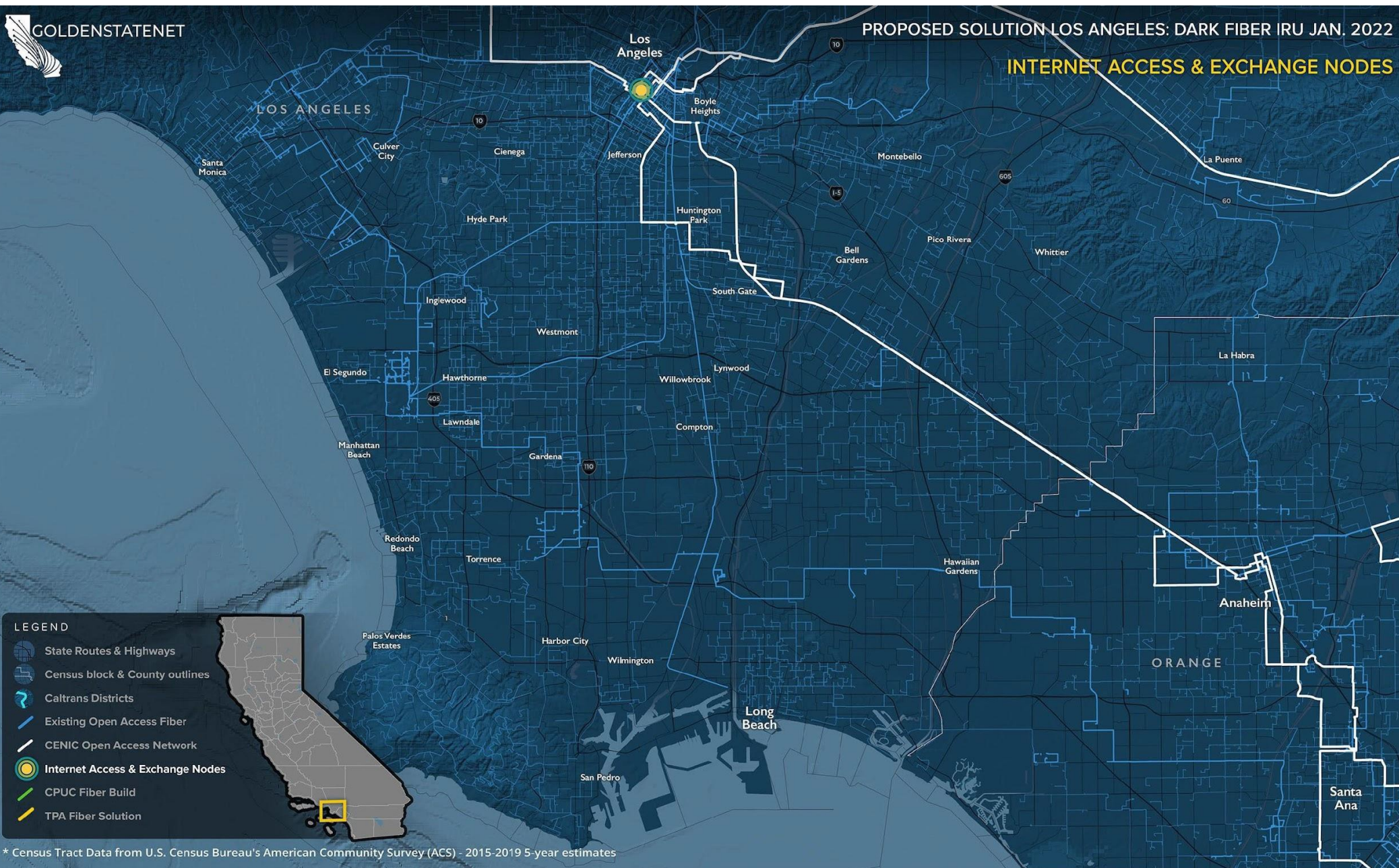
PROPOSED SOLUTION LOS ANGELES: DARK FIBER IRU JAN. 2022

EXISTING OPEN ACCESS FIBER ROUTES & CENIC OPEN ACCESS NETWORK

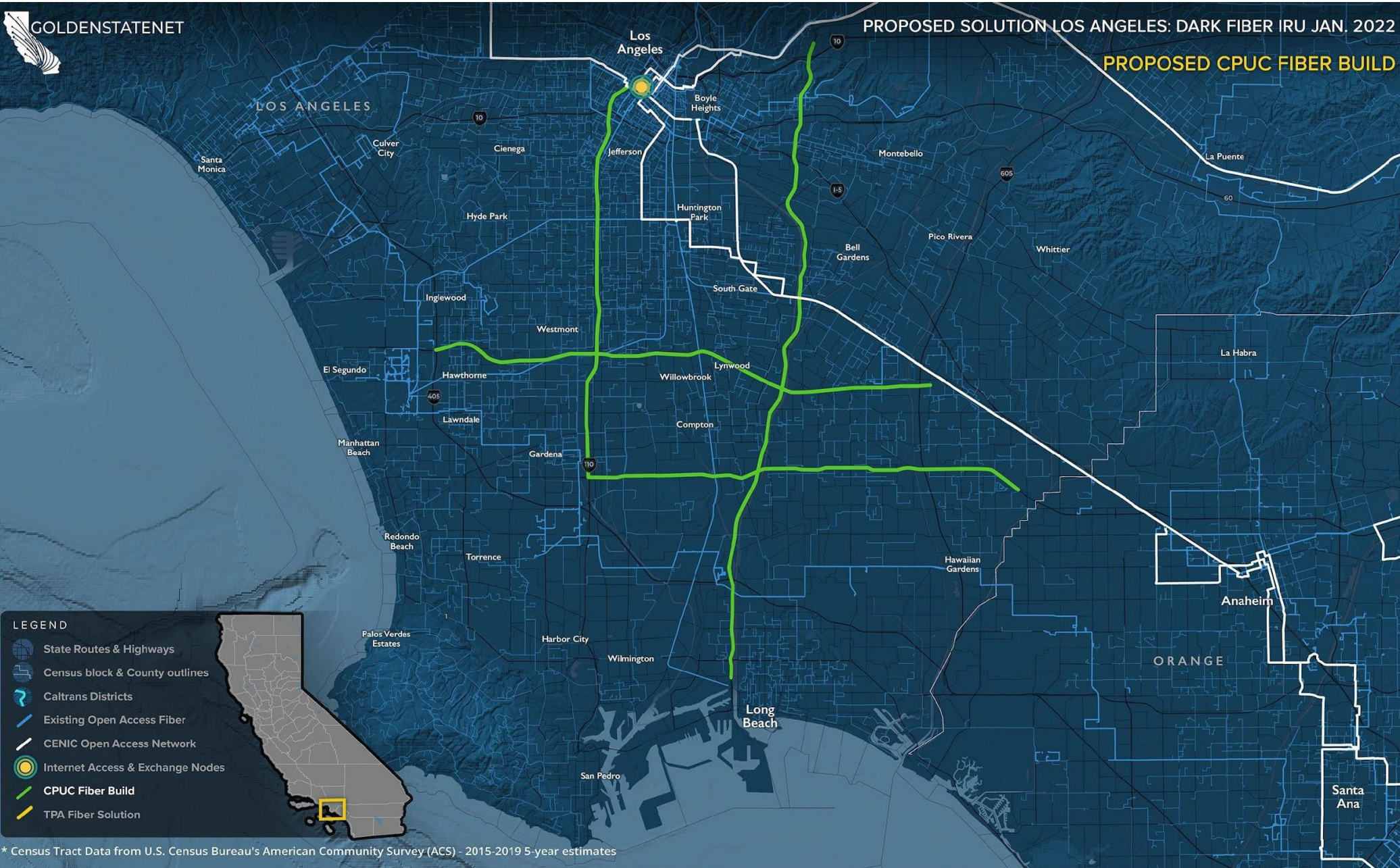


\* Census Tract Data from U.S. Census Bureau's American Community Survey (ACS) - 2015-2019 5-year estimates



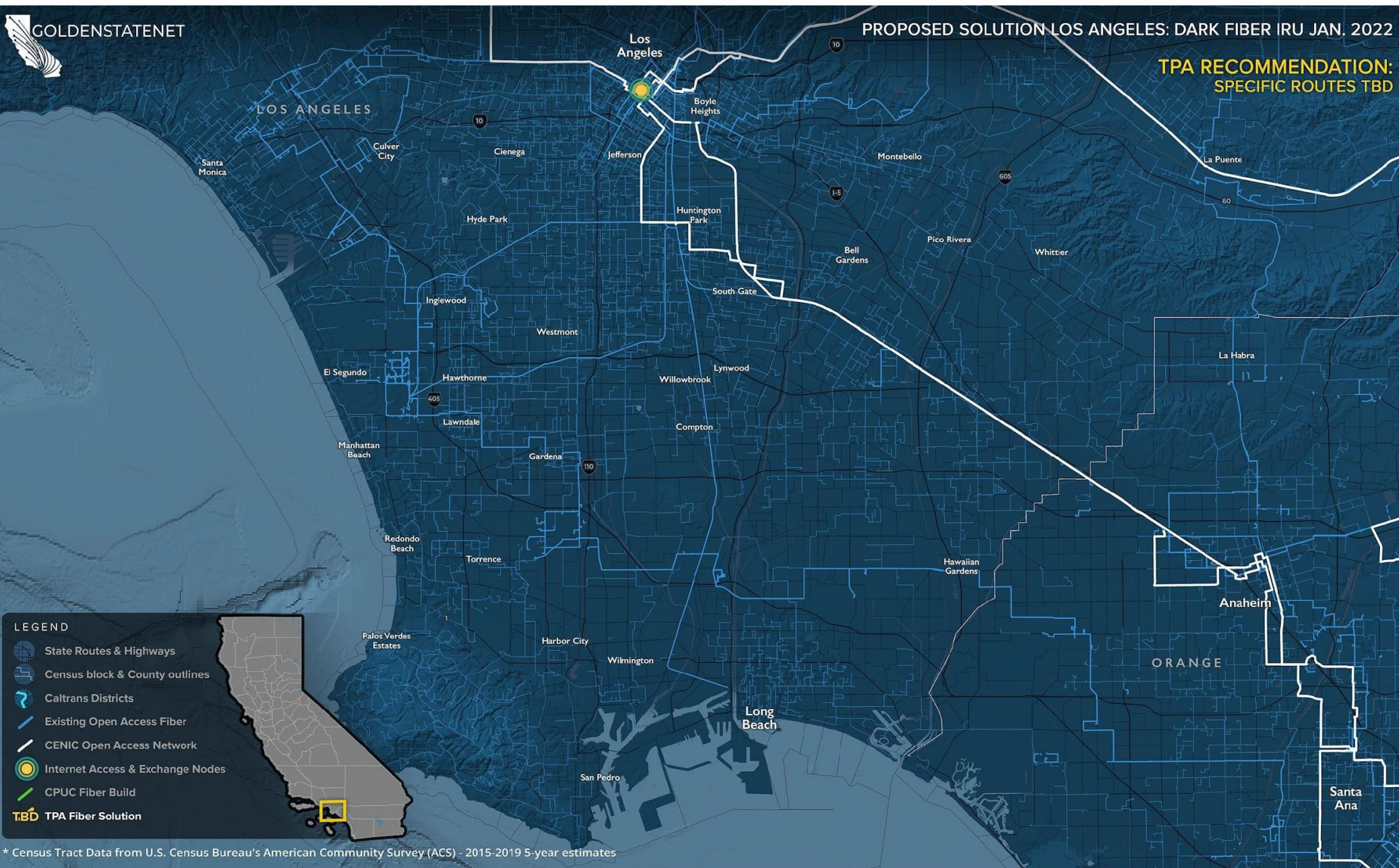






\* Census Tract Data from U.S. Census Bureau's American Community Survey (ACS) - 2015-2019 5-year estimates









- LEGEND**
- State Routes & Highways
  - Census block & County outlines
  - Caltrans Districts
  - Existing Open Access Fiber
  - CENIC Open Access Network
  - Internet Access & Exchange Nodes
  - CPUC Fiber Build
  - TBD TPA Fiber Solution

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IDENTIFIED AREAS WITH WIRELINE RESIDENTIAL SPEEDS BELOW 25/3 MBPS (CPUC)

< 25/3

- LEGEND
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PERCENTAGE OF HOUSEHOLDS WITH BROADBAND USAGE BELOW 25 MBPS DOWN (MICROSOFT)

100-75% 75-50% 50-25% 25-5% 5-0%

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  - Census block & County outlines
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  - Internet Access & Exchange Nodes
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## Data Sources\*

- American Community Survey - Internet Connectivity
- American Community Survey - Poverty Status
- California 2020 Legislative District Boundaries
- California Broadband Availability Maps and GIS Data
  - 20 Layers used from combined database
- California Census Blocks
- California Census Tracts
- California Counties
- California Fire Hazard Severity Zones
- California National Highway System
- California Major Lakes and Reservoirs
- California Parks Land
- California State Highway Network (SHN)
- California Tribal Lands
- CalTrans Jurisdictions
- CENIC Digital Fiber Segments
- CPUC Fixed Served Status
- Existing Open Access Networks - Under NDA
- FCC Fixed Consumer Deployment
- Microsoft Broadband Usage Percentages Dataset
- Ookla Test Data Results by Census Tract
- Technology Use Demographics (e.g. Internet use in home) by Census Tract

*\*All data was published between 2019 - 2021 and represents the most current data available. Not all layers are represented on the maps above. However, the data was utilized as a part of the development process.*





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