

Project 12 | Kern 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 Kern Project and other geospatially registered data sets which influenced them.



Project 12 | Kern Summary

The eastern Kern region comprises one of the least-served parts of California; a rural, low-income area with a large percentage of households lacking any Internet connectivity. Its cell service is poor, adversely impacting remote learning, area hospitals, clinics, and emergency services.

GoldenStateNet's proposed solution for the area calls for a new buildout along with existing open access fiber broadband on Highway 178 that combines solutions including a section that will be secured with a long-term Indefeasible Right of Use (IRU) dark fiber lease. The proposed 92-mile route between Bakersfield and Inyokern completes an east/west connection between two existing north/south open access fiber paths, adding a layer of resiliency to the area network.

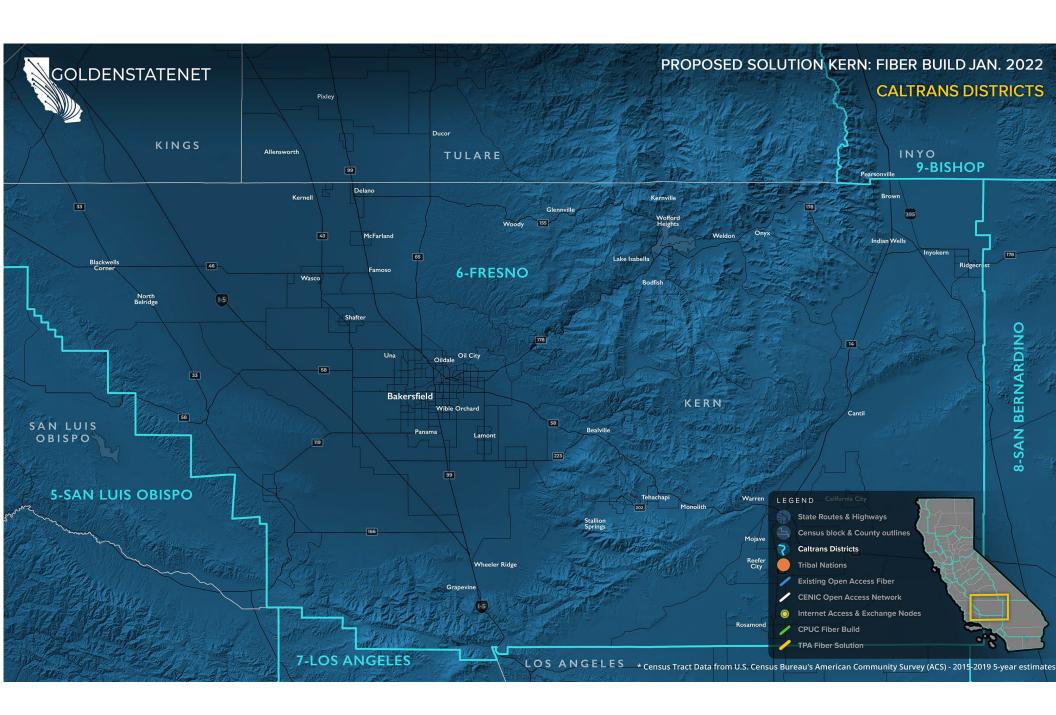
Project 12 | Kern Highlights

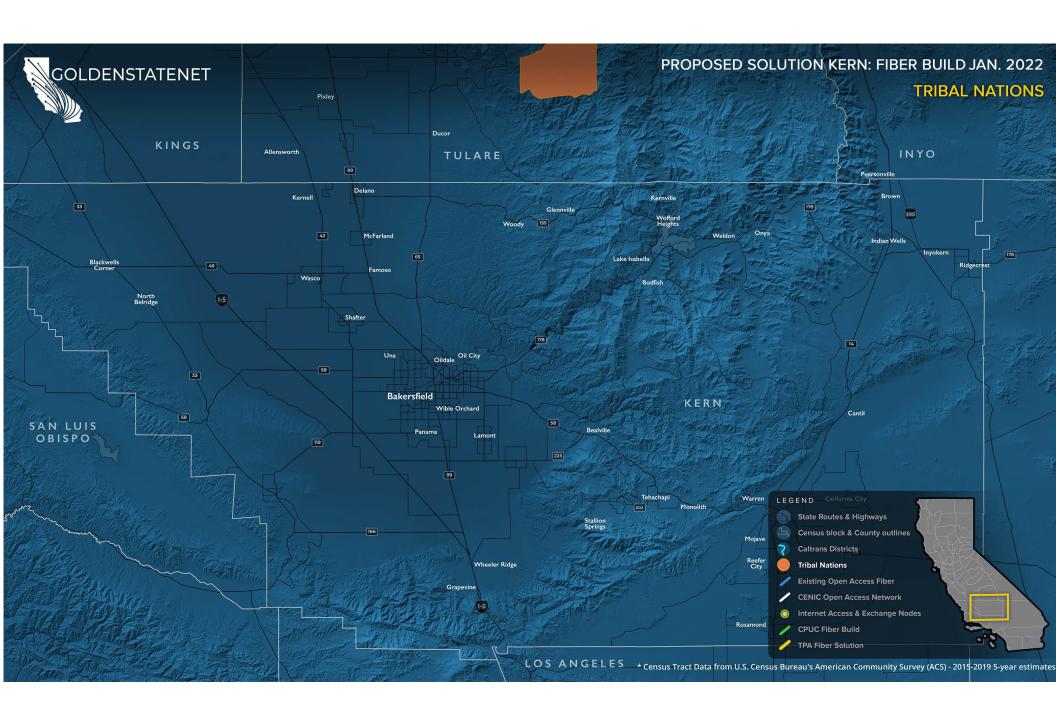
Type of Solution:	New Construction Fiber Build Indefeasible Right of Use (IRU) dark fiber lease
Highways/Routes:	178
Approximate Fiber Miles:	92
Quantity of Fibers:	288
Approximate Start Date:	2022
Regional Broadband Consortium:	Western Kern - San Joaquin Regional BroadbandConsortium
Regional Transportation Planning Agency (RTPA) & Metropolitan Planning Organization (MPO):	Kern Council of Governments

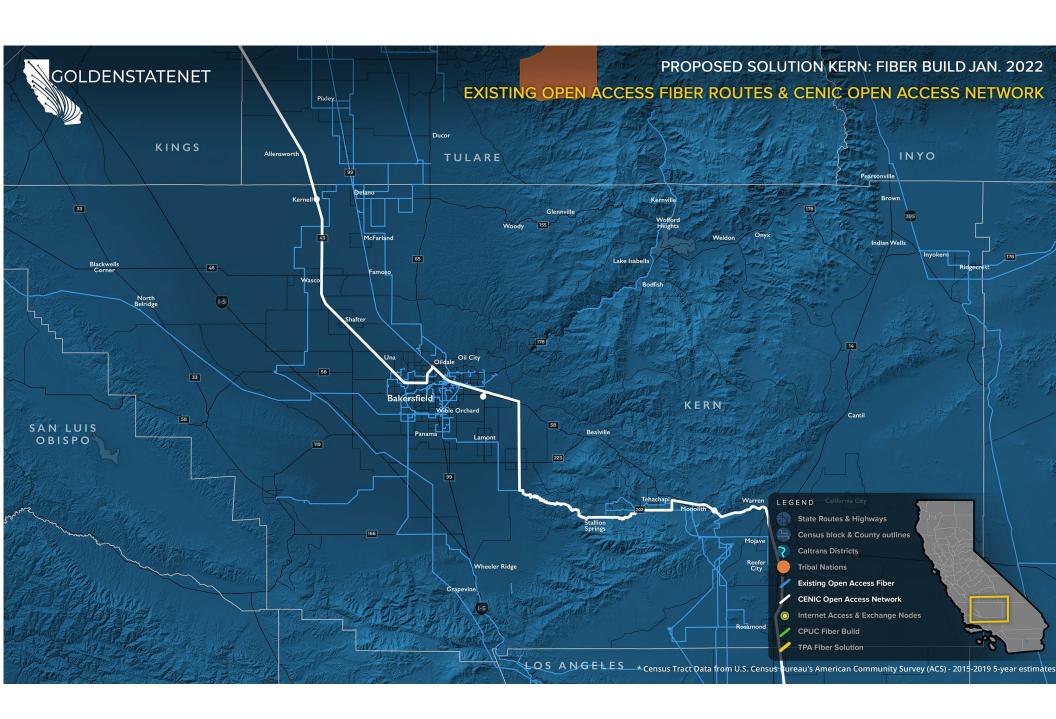
GoldenStateNet Maps

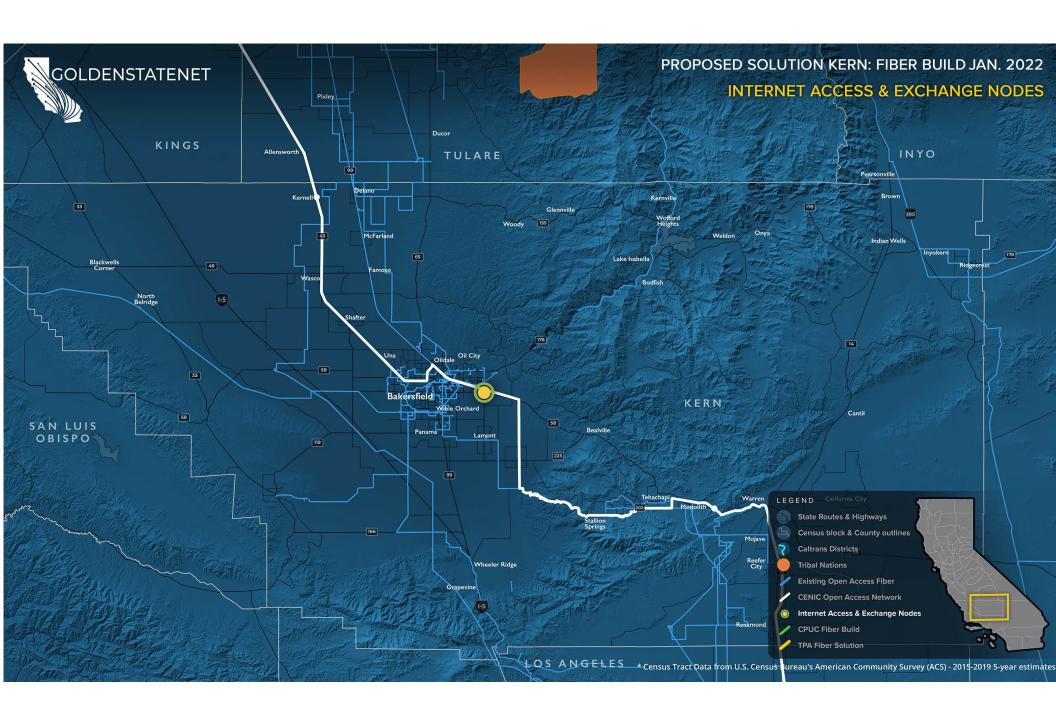
The appended maps share detailed visualizations of the GoldenStateNet (TPA) recommended middle-mile network solutions. The maps illustrate the complex geographical, topological, technological, and socioeconomic landscape of California.

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

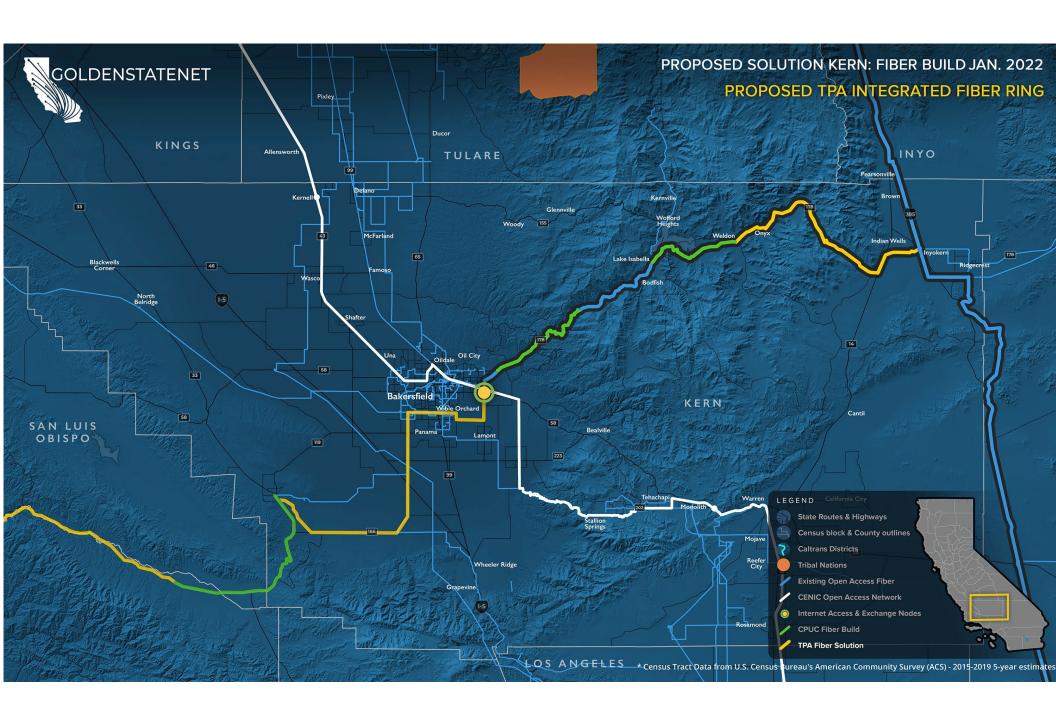




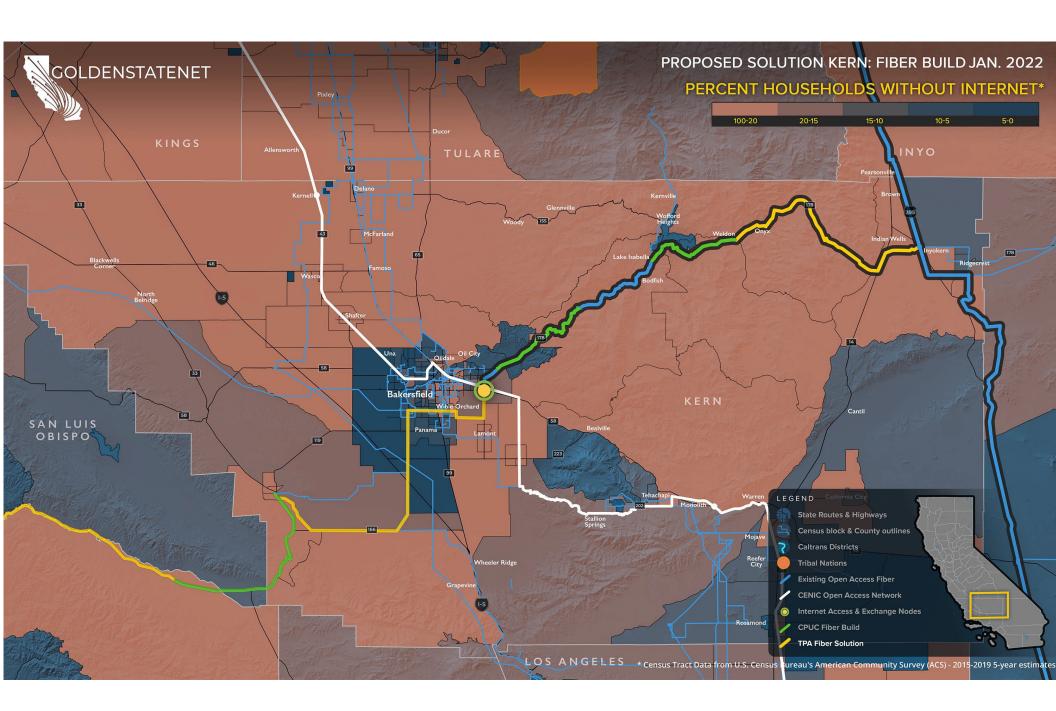


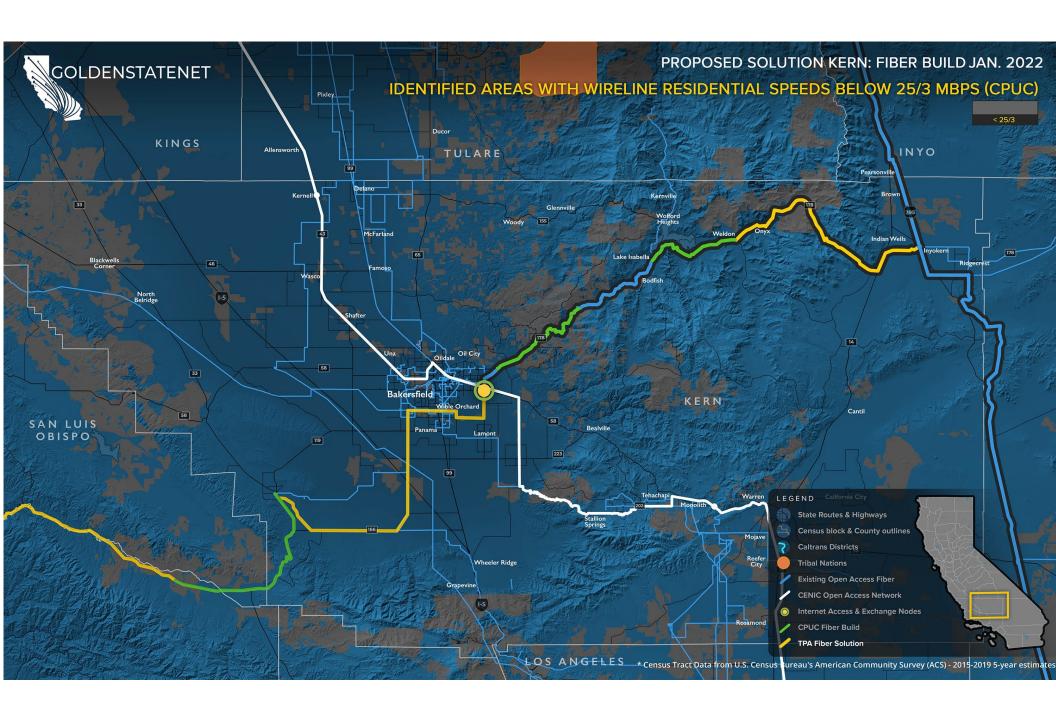


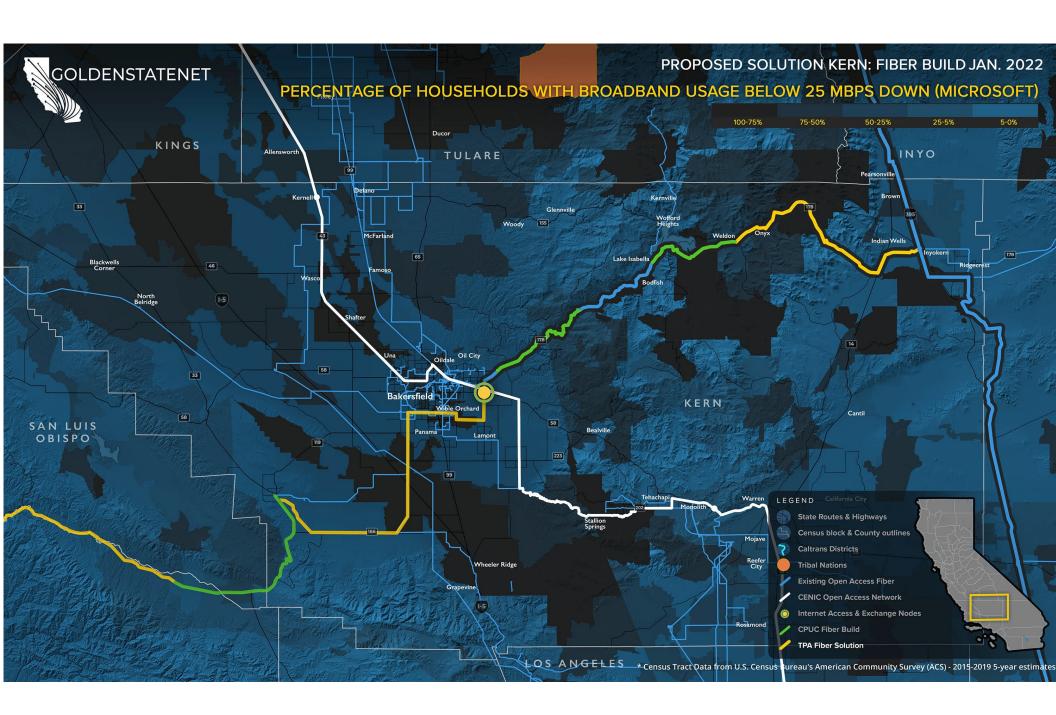












Data Sources*

- American Community Survey Internet Connectivity
- American Community Survey Poverty Status
- California 2020 Legislative District Boundaries
- California Broadband Availability Maps and GIS Data
 - o 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 Juridictions
- 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.

