

Las Virgenes-Malibu COG

Regional Smart Cities Fiber Network

October 11, 2022

Regional Smart Cities Fiber Network

- The vision starts with the COG cities getting more bandwidth for less—the more efficient use of resources to more effectively meet residents' needs.
- The Regional Smart Cities Fiber Network will improve regional public sector communications.
- Emergency services, public works, and transportation will be faster and more effective, making residents safer, healthier, and less stressed.
- Residents use the network to work from home, thereby reducing traffic congestion on our roads and freeways.
- The cities can get more internet bandwidth for a lower per megabit rate, and the cities can share systems and data to operate more cost-effectively. The network provides means for the cities to interconnect their sites, provide public access, and even give local institutions and non-profits more bandwidth for less.

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- The concept is to build-out fiber-optic connectivity—starting with the cities. By beginning with connecting the cities to each other and to the internet via fiber-optic cables, the region prioritizes its initial municipal needs with a longer-term vision to expanded smart city services.
- The infrastructure evolves into a publicly owned network to meet public purposes parallel with private services for businesses and residents.
- The network will give the cities much more internet bandwidth for much lower per megabit rate: 60 to 70 times more bandwidth at about half the average cost per city! The network also allows the cities to better share data and resources for essential services, such as public safety.
- Initially, the network is designed to connect one site in each city via a private provider, to be expandable to serve a range of community institutions, including all local government facilities, and to incorporate publicly owned infrastructure.

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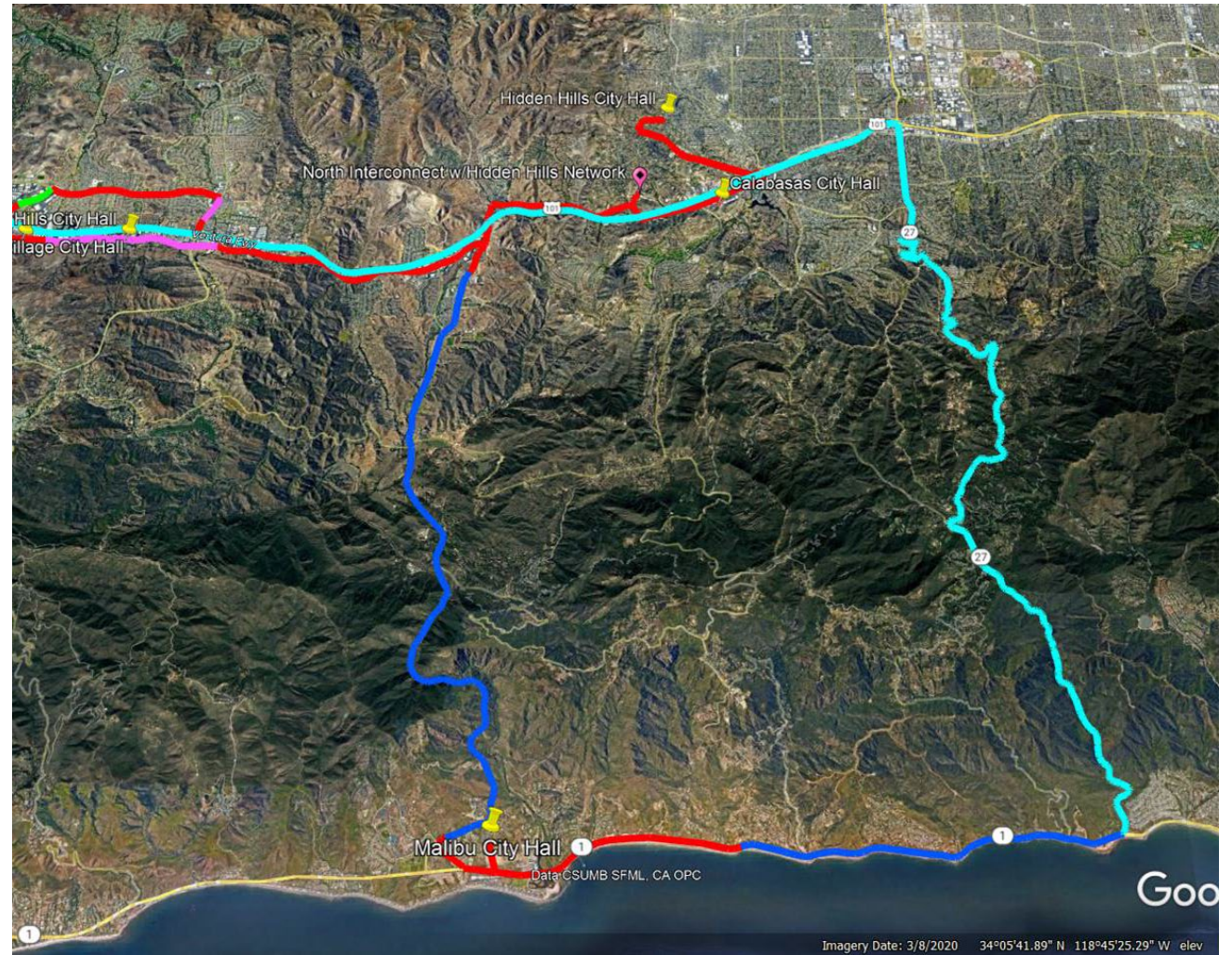
New Underground Fiber

State Middle Mile Fiber

Existing Fiber

Existing Conduit

New Overhead Fiber



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- Estimated Cost: \$16 million (if all five COG cities are included)
- Estimated Cost for Phase One: \$12 million (without Malibu)
- Funding Source: Measure M
 - The COG received just over \$13 million in Measure M funds each year. Those funds have traditionally been allocated by the Governing Board to the COG cities, based on population. The cities, in turn, develop their own project list that is submitted to the COG for approval. The Governing Board approves the COG project list and submits it to Metro for approval.
 - Funding would be allocated over two years, as the project is estimated to take two years to complete.

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Current Measure M Funding for the 9th Year

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FUNDING AND PHASING OPTIONS

- The Governing Board could approve Regional Smart Cities Fiber Network in one phase with funding from Measure M over two years.
- The Governing Board could approve the Regional Smart Cities Fiber Network in two phases with Malibu participating in phase two.
- The Governing Board could approve the Regional Smart Cities Fiber Network over two years, which would allow some or all of the COG cities to also program other priority projects in their city.