## **NORTHERN CALIFORNIA RURAL DEPLOYMENT**





DigitalPath, an ISP operating out of Chico, CA for 20+ years, is now quickly growing its subscriber base on a Tarana G1 next-generation fixed wireless access (ngFWA) network in two rural counties in northern California. The network deployment was funded in large part by a \$415,438 grant from the California Advanced Services Fund (CASF).

The CASF grant objective was to provide competitive broadband services to 277 unserved rural households in the counties. By deploying Tarana's G1 platform, Digital Path was able to exceed the service requirements for these 277 households while also providing — with the same infrastructure — more affordable high-speed service availability to an additional 6,900 rural households within these granttargeted and surrounding neighborhoods. DigitalPath's deployment of G1 base nodes was completed in six months, at a small fraction of the time and cost of installing a fiber-based network, and its subscriber count is growing steadily (see below and overleaf for details).



Tarana G1 Base Nodes (BNs) on Vertical Asset



G1 Remote Node (RN) on subscriber's home

## **Key DigitalPath Network Stats**

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Infrastructure deployment		12 BNs on 4 towers, in 5 GHz
Average BN sector height on towers		150 ft.
Average RN subscriber unit height at homes		23 ft.
BN sector max range		18 mi.
Coverage area (at 18 mi. range)		3,054 sq. mi.
Households (HH) passed	grant addresses rural total est. total with towns in range	277 7,177 88,600
Typical speeds (Mbps)	in grant area average for all HH	489 DL / 100 UL 297 DL / 68 UL
Take rate for ≥100 Mbps plans	grant addresses all HH	66% 57%
ARPU	grant addresses all HH	\$83.32 \$90.32
Project costs to date	total without subscriber RNs	\$560.7k \$473.8k
Cost per HH passed	rural only rural + towns in range	\$66 \$5.34
\$/HH passed for 45 CASF fiber projects (2019+'20 sample)		\$17,972 (on average)





