



Techwave established in 2004, is a global end-to-end IT services & solutions company, which develops long-term relationship with clients by leveraging unique delivery models and expert frameworks.

Smart Fibre Planning to Overcome Deployment and Support Wireless Integration

Summary

Our client is one of the leading telecom providers in the USA, serving over 500,000 customers. They faced critical hurdles in expanding their wireless network to meet the demands of high-speed internet connectivity and 5G readiness. Complex permitting and limited visibility into their utility projects reflected delayed progress. Techwave tackled these issues with a strategic wireless planning and resulted in enhanced coverage and a future-proof network for next-gen wireless technologies.

Business Challenges

- Site validation through geolocation (Google APIs)
- Securing wireless regulation approvals that would support site connectivity
- Laying groundwork for scalable 5G and small-cell network integration

Industry:
Telecommunications

Company size:
\$287.4 Million

Region:
USA

Key Objectives:
5G Integration, Business
Fiber Internet, HOA
Permits

Techwave's Strategy & Solutions



Field Data Collection

- Captured accurate spatial data via Katapult and KMZ mapping tools.



HOA & Permit Management

- Streamlined communication with HOA boards.
- Developed a fast-track process for securing permits aligned with municipal guidelines for wireless and fiber expansion.



Wireless-Ready Transition Strategy

- Shifted from centralized architecture to a distribution-split typology.
- Ensured the infrastructure could support small cell connectivity and edge computing zones vital for 5G.

Business Impact

Designed 8 wireless-ready markets



Secured 1,000+ permits

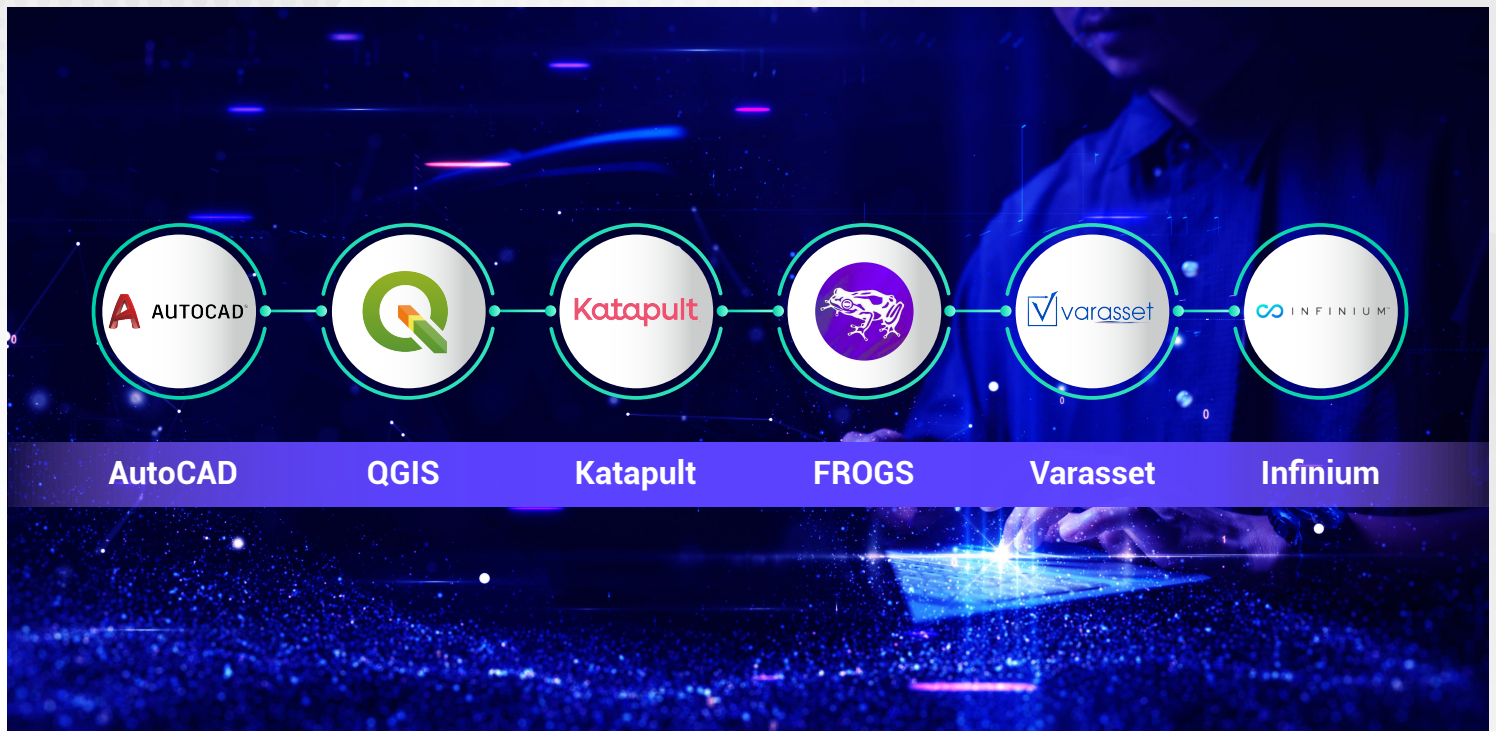


Laid fiber backbone for 5G integration



Enabled high-speed internet, phone, and future wireless services for residential and business users

Featured Technologies



About Techwave

Headquartered in Houston, TX, Techwave provides Global Technology and Engineering Services and Solutions. A certified SAP Gold Partner, Techwave has driven digital transformation for 600+ clients worldwide since its inception in 2004. Techwave provides end-to-end SAP services encompassing GROW with SAP, RISE with SAP, SAP AMS, Data Migration, BTP, Analytics, and more. For more information, [visit: www.techwave.net](http://www.techwave.net)



📍 13501 Katy Fwy Suite 3305,
Houston, TX 77079, USA.
Ph: +1 281 829 4831
info@techwave.net

