



Techwave

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.

Leading Digital Infrastructure Operator

About Client

The client is the top service provider in the world for engineering, asset management, fiber network designs, and 360-degree geospatial data utilizing any architecture selected by the client. They offer cutting-edge methods for gathering data and creating high-quality designs. Having a solid worldwide track record and many years of expertise in mobile mapping and data collection.

Executive Overview

The client uses innovative geospatial data and analytics technologies to digitalize and revolutionize the creation and administration of networks. Techwave was successful in following up on their constant suggestions and comments to aid with the streamlining of tasks that helped the customer acquire confidence in us. The client faced challenges in monitoring and managing job priority lists due to their volatile demands and limited timelines.

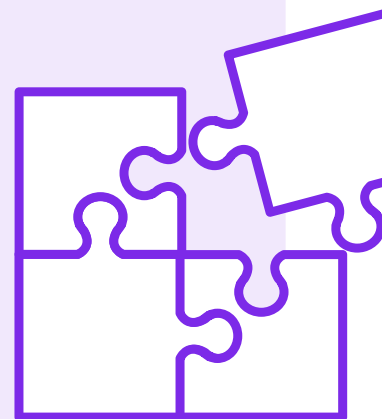
▶ **Address Validation (CSVs):** Techwave verified each address supplied within the border by matching photo points with mobile mapping data. This includes verifying each street name, home number, and other properties using information from Mobile Mapping. We examined the mailboxes and doorbells, as well as the remaining accessible indications in accordance with the rule base, to further verify the number of living units. The customer provided us with an online tool named ESRI for this operation.

- ▶ **Trenches:** Every address inside the specified boundary has its trenches captured. We update the trench cover type using the mobile mapping data based on the surface type. We utilized the online tool ESRI for this task to be carried out.
- ▶ **High-Level Design (HLD):** This included establishing a general strategy or framework for a telecom system, which involves specifying the architecture, locating the components, and figuring out how they interface and connect with one another. Each telecom system must start with a high-level design since it acts as a road map for the development process. It provides a high-level overview of the network in addition to a brief explanation of the cables, ducts, cabinets, and structure points in each intended network. As we deal with multiple contractors, each of whose specifications is unique, we must record each contractor's work instructions separately using the Geestruct program, an online tool that the customer has given. Optimized design is the key to cost reduction and simplifying the construction process.
- ▶ **Low-Level Design (LLD):** This involved the accurate depiction of High-Level Design in the online tool Geestruct, which was provided by the customer.
- ▶ **Permits:** Drawings used to get approval from local governments are known as permits. The high-level network design of the network will be taken into account when capturing all the existing utilities such as Comm ped, Telco ped, Transformer, Century link handhole, Blackflow Preventer, Traffic signal, Street Light, Electric ped, Electric Cabinet, Driveway points, Block wall, Storm Drain, Sewer, traffic conduit, etc. in the QGIS application.

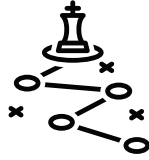
Client Challenges

The client was encountering the following challenges:

- The client faced challenges in optimizing high-level design solutions for engineering tasks.
- The client was in search of network designs that are both cost-effective and can be implemented quickly which is a hurdle for vast regions.



Techwave's Strategy & Solution



Our resources were substantially supported in overcoming several problems by our integrated strategy and cross-training in various scopes. We leveraged cross-training approach in handling vast amounts of workloads that benefitted in quick turnarounds. Due to continuous input and customer feedback, we were equipped to deal with uncertainties while sticking to strict deadlines.

Business Impact



Our team has established a clear process flow that allowed us to submit a large number of job submissions with the necessary authorizations while upholding strict quality standards and delivery deadline adherence. Our cross-training approach helped in enhancing efficiency and productivity by reducing downtime, optimizing well performance, and eventually helping in reducing costs.

Why choose Techwave?

Techwave recognizes clients' financial constraints in every way and believes in accountability. As reflected above, we enhance our services and keep one step ahead of the competition, we are always studying new technology. We understand that every project is unique, and we work closely with our clients to develop customized solutions that meet their specific needs.



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