

## At every stage of the deployment process our experts can help you keep your project on schedule and on budget

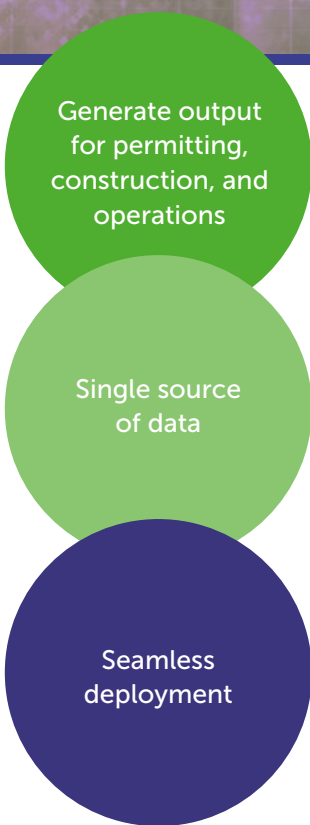
Organizations of every size are challenged to reduce network planning and design times while reducing engineering costs. Yet engineering staff face common challenges in doing so due to:

- > Increasing size and complexity of fiber networks
- > Aggressive timeframes to get to construction
- > Extensive amount of time consumed for planning and design phases
- > Variable design decisions across an enterprise
- > Inconsistent and complex permitting requirements
- > Last minute design changes that have rippling effects
- > Inefficient process for making field updates to design documents

3-GIS | Augmented Design Services (ADS) brings a team of fiber network engineers, OSP engineers, project managers, GIS and database experts, and world class software developers to solve our customers' business needs for expertise, speed, and efficiency to deliver and win new projects. Using all the benefits of 3-GIS network solutions to plan and budget the next project; then to create and manage the design through the network construction, 3-GIS Design Engineering can assist you every step of the way.

## Automated Design

No one knows 3-GIS software better than we do and you can use our subject matter expertise to your benefit. Our team can save you time by helping you design your next fiber network. You provide the set of parameters your network must meet and our design team will work with you to take it from an idea to a constructible design using half the resources of traditional engineering methods. The 3-GIS | ADS team will create a network design, using an architecture engine to optimally place route and network features. We have evaluated multiple fiber network architectures for each area to facilitate selection of a cost effective and performant network. Our team uses all the tools within the 3-GIS suite to validate the network design, evaluate signal loss for each path, and ensure design parameters are met throughout the design - not just in select places. By using our design services your organization will reduce time to construction by producing a network that is ready to permit and build faster.



Generate output for permitting, construction, and operations

Single source of data

Seamless deployment



## Project Management

Getting the project off to the right start is the first step to getting the project through the permitting process as fast as possible. While working closely with our customers and permitting authorities, our project managers help you deliver documentation that conforms to the standards the project needs, while managing the design and construction processes to be more accurate.

## Data Conversion

Get your existing data ready to extend your network. Our data conversion team can move all your existing network data into a single 3-GIS database. We can convert data from a variety of formats including; CAD, software from other engineering and GIS systems, and paper copies. Our services makes it easy for you to gain the full functionality and power of 3-GIS Web, plus the convenience of having all design, construction, and operational network data in a single GIS database.

## About us

Since 2006, 3-GIS has been helping the telecom industry achieve better results. 3-GIS is designed to meet the challenges of building and managing increasingly complex fiber networks. The company is pioneering a geo-database approach based on modeling the light path and machine prescription. Web-based services boost the market opportunities of fiber assets for our service providers, network providers, and engineering firm customers.

The company is headquartered in Decatur, Alabama, USA with a sales and support office in Bern, Switzerland. 3-GIS offers development, product, and network design services. The company employees professionals in the fields of network engineering, computer science, and geographic information systems serving deployments in 16 countries. Our staff challenges the status quo every day, improving the economic visibility and reliability of fiber networks. Our system supports a more connected, informed, and lighted world.

## We have the services that will get your organization utilizing the power and benefits of 3-GIS quickly.

For a more in-depth look at how we can help get started contact us:

### Automated design benefits

- > Up to 60% faster than traditional methods
- > Reduced engineering costs
- > Customer provided parameters
- > Quality assurance standardization
- > Defensible lowest cost routes
- > Evaluate multiple design options
- > Ubiquitous access across the globe

### Project Management

- > Pre-planning for best fit solution
- > Project plan and effective communication
- > QC and acceptance process

### Data model conversion benefits

- > Condense data into 3-GIS data model
- > Accounting of all data
- > Single source for system data