



PLAN, ENGINEER, CONSTRUCT, AND MAINTAIN

**NETWORKS BETTER
AND FASTER WITH**

**OPENCOMMS™
DESIGNER
CONNECT EDITION**

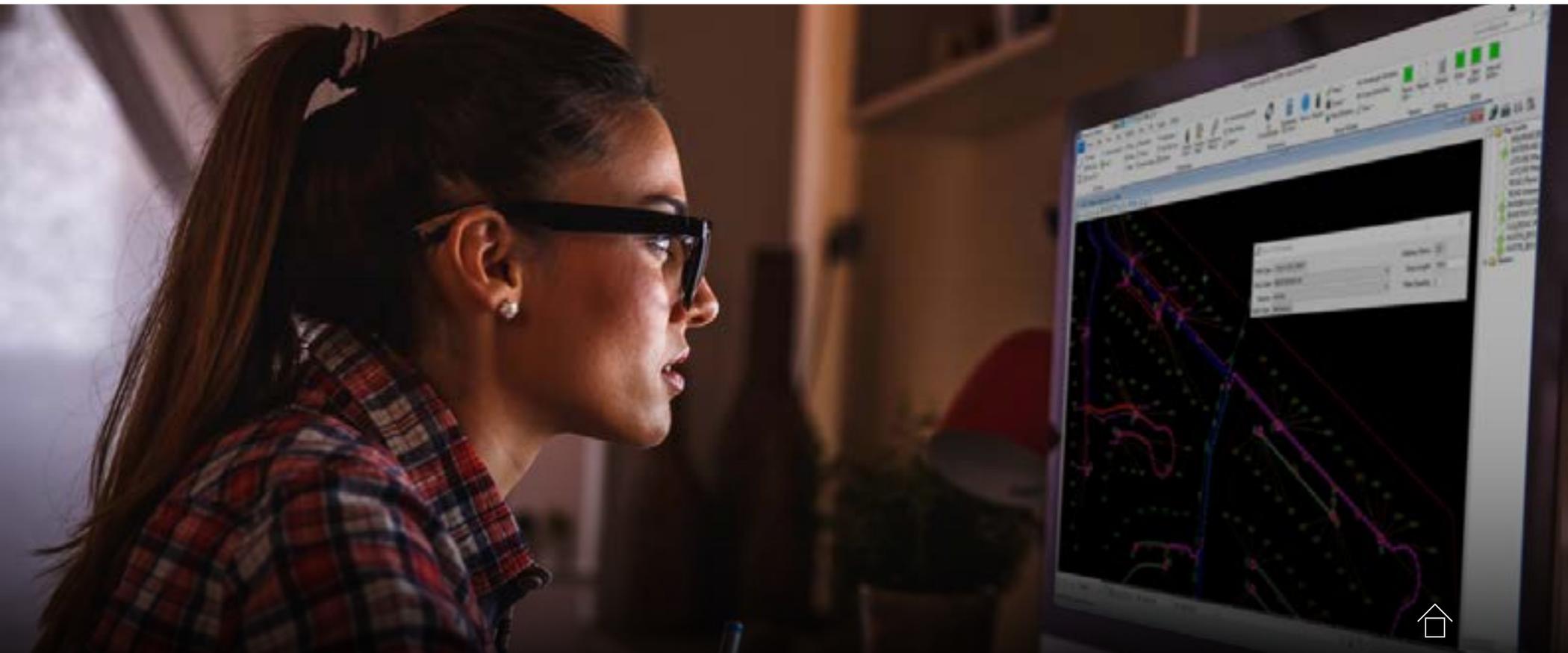
Bentley®

NETWORK CHALLENGES

Cable network operators and engineering firms supporting the networks require solutions to help **save time** during design and verification, **avoid disruptions**, and **enable access** and **open sharing** for **better collaboration**.

Bentley's OpenComms Designer is an end-to-end solution that covers all aspects of design and information, network, and work management.

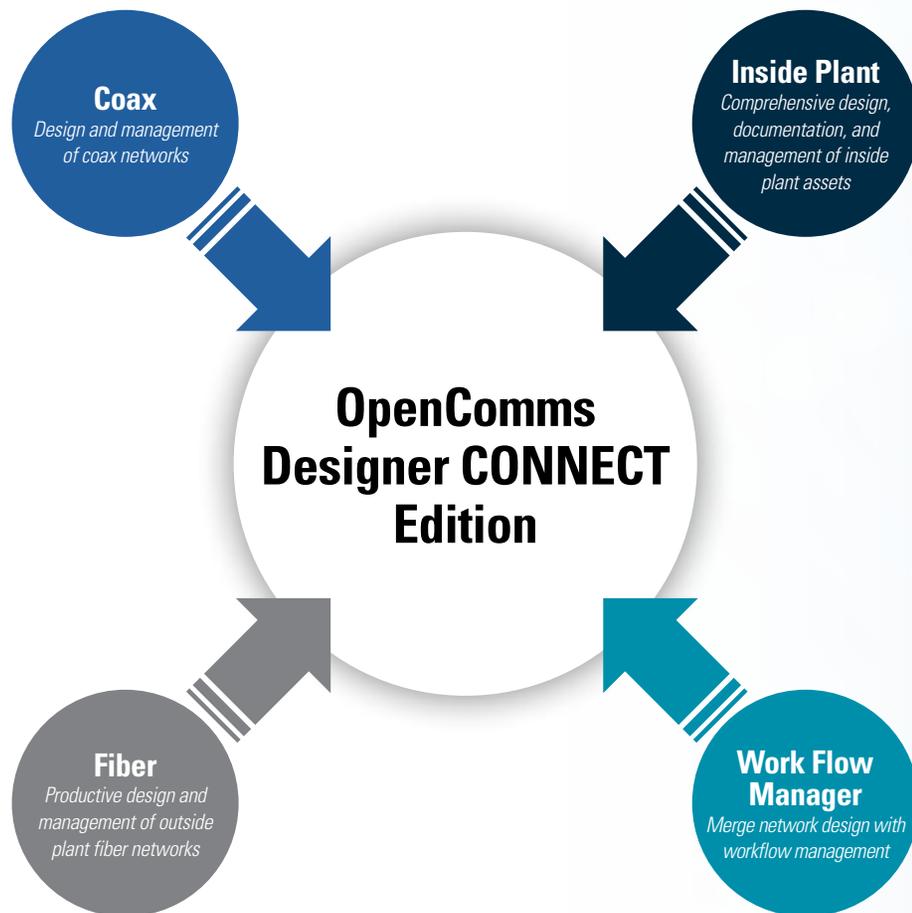
Leverage the seamless CAD and open GIS environment to optimize productivity and complete network designs faster.



FOUR GREAT PRODUCTS IN ONE SOLUTION

Design Hybrid Fiber Coaxial (HFC) Networks Faster!

Reduce costs and wasted time with an efficient and fully integrated solution for designing, documenting, and managing end-to-end HFC networks.



SAVE TIME, INCREASE PRODUCTIVITY, AND PRODUCE HIGHER-QUALITY DELIVERABLES WITH **OPENCOMMS DESIGNER** TO:



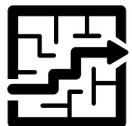
Work faster within a comprehensive integrated application.



Increase productivity across engineering, field operations, marketing, sales, and customer support.



Produce **higher-quality designs**.



Achieve faster subscriber activations, network upgrades, and repairs.





REAL-WORLD PROJECT SUMMARIES

Vodafone to Connect More Than 250,000 Customers in Five Years With a New Optical Fiber Project

Vodafone

Athens, Greece

As digital technology advances and the number of connected devices continues to skyrocket, cities need to invest in better data networks to keep up. In 2017, the Greek government and the European Union created a program that would eventually roll out a state-of-the-art fiber optic network to 4 million people in the greater Athens area. Vodafone implemented a process that would automate network planning, including detailed engineering and circuit provisioning.

The Project Team

OpenComms Designer provided the environment for an automated network design. When specifications are uploaded to the cloud, automated engineering tools create an intelligent connected network. Splicing, splitting, and naming conventions are all created automatically to ensure consistency.

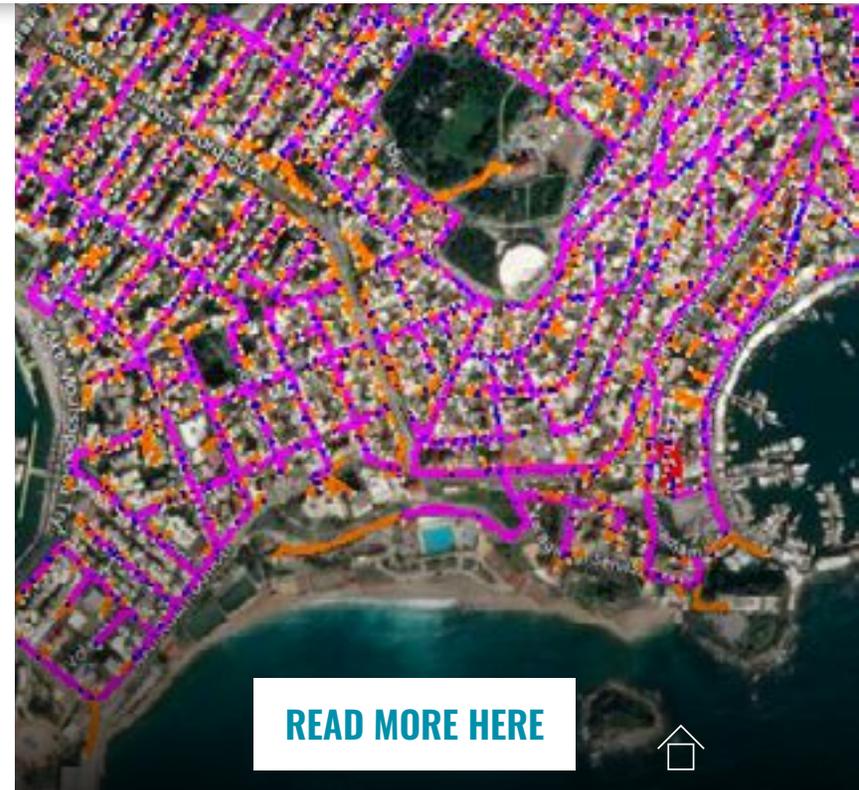
Overall, Vodafone:

- Increased productivity.
- Improved data quality.
- Reduced time to service for new customers by at least 50 percent.
- Will connect 250,000 customers within first five years.



With the challenges on our ever-growing optical fiber network, we needed to rapidly assess the qualitative aspects and simulation models of our current network. OpenComms Designer successfully delivers this and has become an even more valuable tool now that it supports seamless OSS/BSS flow from design through assign, simplifying the business process by providing accurate network information through a user-friendly interface.

—Konstantina Birmpa, FO design engineer, civil works & fiber optics, Vodafone, Greece





REAL-WORLD PROJECT SUMMARIES

iForte Digitalizes Data and Optimizes Lifecycle Workflows to help Streamline Processes and Yield a 203% ROI

iForte Solusi Infotek
Jakarta, Indonesia

iForte required a fiber management system to enable a connected data environment that would centralize data, streamline workflows, and enhance decision-making.

OpenComms created a connected data environment throughout all lifecycle stages to help optimize the existing network infrastructure and maximize potential sales targets.

The Project Team

The sales team can log in to view all networks, and in six minutes they can determine whether customer requirements can be met, saving 90 percent of time spent on previously manual tasks. Using Bentley's communication applications streamlined network maintenance, which enabled a visual system trace to the outage location, reduced mean time to repair by at least two hours, and increased service performance.

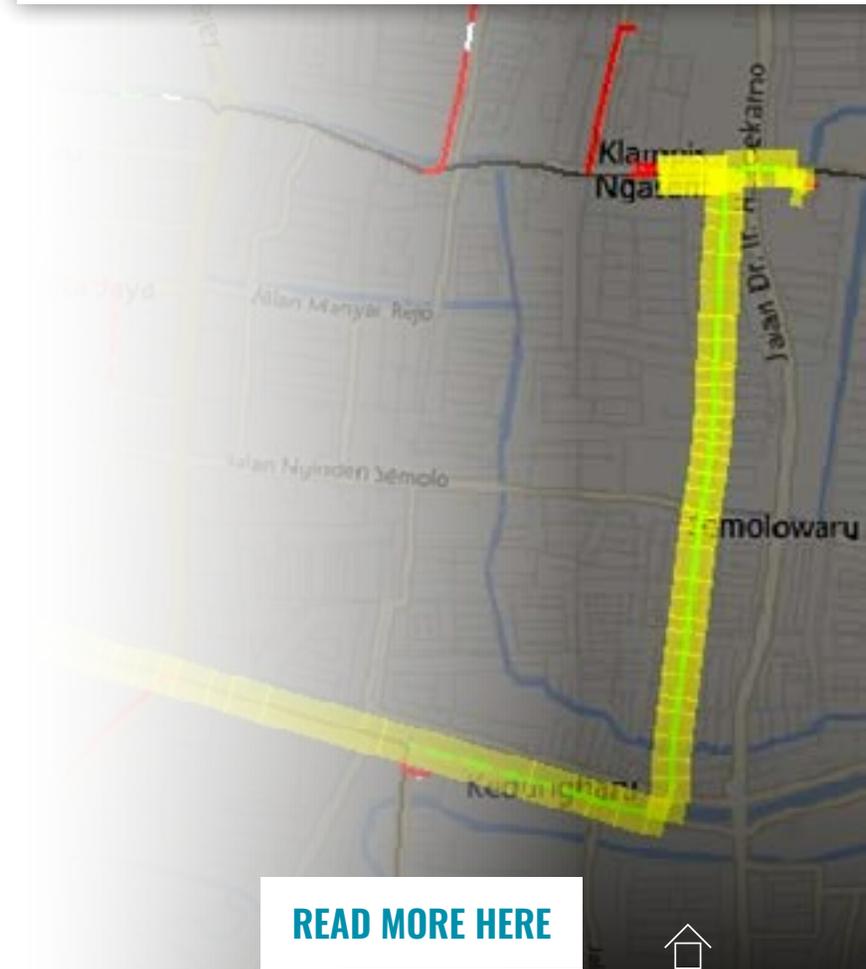
In total, iForte achieved:

- A 90 percent reduction in the time previously needed for sales activities than into less than 6 minutes.
- A 90 percent improvement in workflow efficiencies to improve customer delivery.
- A 203% yield in ROI.



Bentley OpenComms helps to synergize planning, operations and maintenance, and sales teams. This synergy helps the sales team to reduce more than 60 minutes of the sales activities into 6 minutes.

—Taufan Yudha, Fiber Optic Manager



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REAL-WORLD PROJECT SUMMARIES

IZZI Telecom Reduced Design Costs by 25 Percent

IZZI Telecom

Santiago de Querétaro, Querétaro, Mexico

To provide customers with premium quality services for at least the next 20 years, IZZI needed to implement a new network architecture that pushed fiber closer to customers and delivered the best service in central Mexico. In addition, the project team needed to design a network infrastructure capable of reaching the dense metro area population of more than 1 million people at competitive rates.

As part of a fiber-to-the-curb (FTTC) initiative to improve and expand triple play services provided by the IZZI brands, Cablevisión and Cablemás, IZZI undertook a USD 48.5 million reconstruction and expansion of the fiber optic network serving Santiago de Querétaro (Querétaro City), a dynamic metropolitan area in central Mexico.

The Project Team

OpenComms Designer applications reduced IZZI's overall design time and costs by up to 25 percent and enabled the team to complete the project ahead of schedule. IZZI saved significant time using OpenComms Designer applications to complete verified layouts in a rich GIS environment and then build a precise end-to-end network model.

Overall, IZZI:

- Reduced overall design time.
- Achieved cost savings of up to 25 percent.
- Increased productivity and efficiency with a common data environment.
- Enabled the team to complete the project ahead of schedule.
- Made design personnel 10 percent more productive when compared to the previous software.



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REAL-WORLD PROJECT SUMMARIES

80 Percent Reduction in Labor Saved Over USD 1M in Design, Drafting and Permitting Efforts

Precision Valley Communications
Washington, DC

Precision Valley Communications (PVC) was five months into a project to survey and redesign a hybrid fiber-coaxial (HFC) network for a major cable company in Washington, D.C.

Within that five months, they had only completed 21% of the 586 miles of survey completed, putting the USD 145 million project far behind schedule.

The Project Team

To meet highly demanding deadlines, PVC switched mid-project to OpenComms Designer. The application's MicroStation-based CAD environment, HFC-specific workflows, and optimized Oracle Spatial integration boosted productivity and reduced errors.

In total, PVC saved:

- Over 20 months in time – equivalent to 18 thousand resource hours.
- Over USD 1 million in design, drafting and permitting efforts.



Using the competing software product and four highly productive drafters, it took us five months to post 122 miles of as-built survey drawings. After switching to OpenComms solutions, those same resources completed approximately 400 miles in approximately seven weeks.

–Notarangelo, Director of Business Development at PVC



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REAL-WORLD PROJECT SUMMARIES

Enterprise GIS Solution Increases Revenue and Lowers Cost

Time Warner Cable
Centennial, Colorado

Time Warner Cable (TWC), the second-largest cable operator in the United States, needed to connect data from 80 separate locations and on 6 different platforms, all without standards, which led to inaccurate data. A solution would need to drive all asset information to a single, centralized asset repository.

The Project Team

By using OpenComms Designer to gain access to accurate information about existing network assets and enhanced engineering capabilities, TWC reduced the cost of project delivery for new network infrastructure projects. The new environment provides an accurate view of all network assets, allowing for faster outage pinpointing, faster plant location identification, and fewer truck rolls.

Overall, TWC:

- Realized a first-year ROI of 40 percent.
- Projected cumulative savings over three years of 121 percent.
- Expects to double ROI after five years.



OpenComms Designer is the cornerstone of Time Warner Cable's Geographic Information System. It has helped transform our business by saving time and resources while improving revenue and the service we deliver to our customers.

—Lucius Brooker, GIS, Time Warner Cable



BENTLEY'S OPENCOMMS DESIGNER

THE ALL-IN-ONE APPLICATION THAT HELPS YOU DESIGN
AND MANAGE ALL OF YOUR COMMUNICATIONS NETWORKS FASTER

OpenComms Designer is the complete solution for all aspects of a detailed network design, including fiber, coax, and HFC on a seamless CAD and GIS environment that accelerates network extensions, network upgrades, service activations, and fault restorations.

With OpenComms Designer, you have:

Unified Integration. Whether you're designing a new coax layout, or adding new routes to an existing fiber extension, you can move between each application quickly and easily across a common platform.

A Seamless CAD and GIS Environment. OpenComms Designer is the only hybrid fiber coaxial solution that includes the productivity of CAD and all the benefits of an open enterprise GIS, courtesy of Microstation® and OpenCities™ Map.

Speed and Security. Minimize time-consuming database transactions on all network properties and geometries by optimizing and managing processes.

Get started with OpenComms Designer today.

1-800-BENTLEY (1 800 236 8539)

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