

# Fiber to the Home (FTTH)

Empowering Telecom utilities with the complete solution for FTTH rollouts



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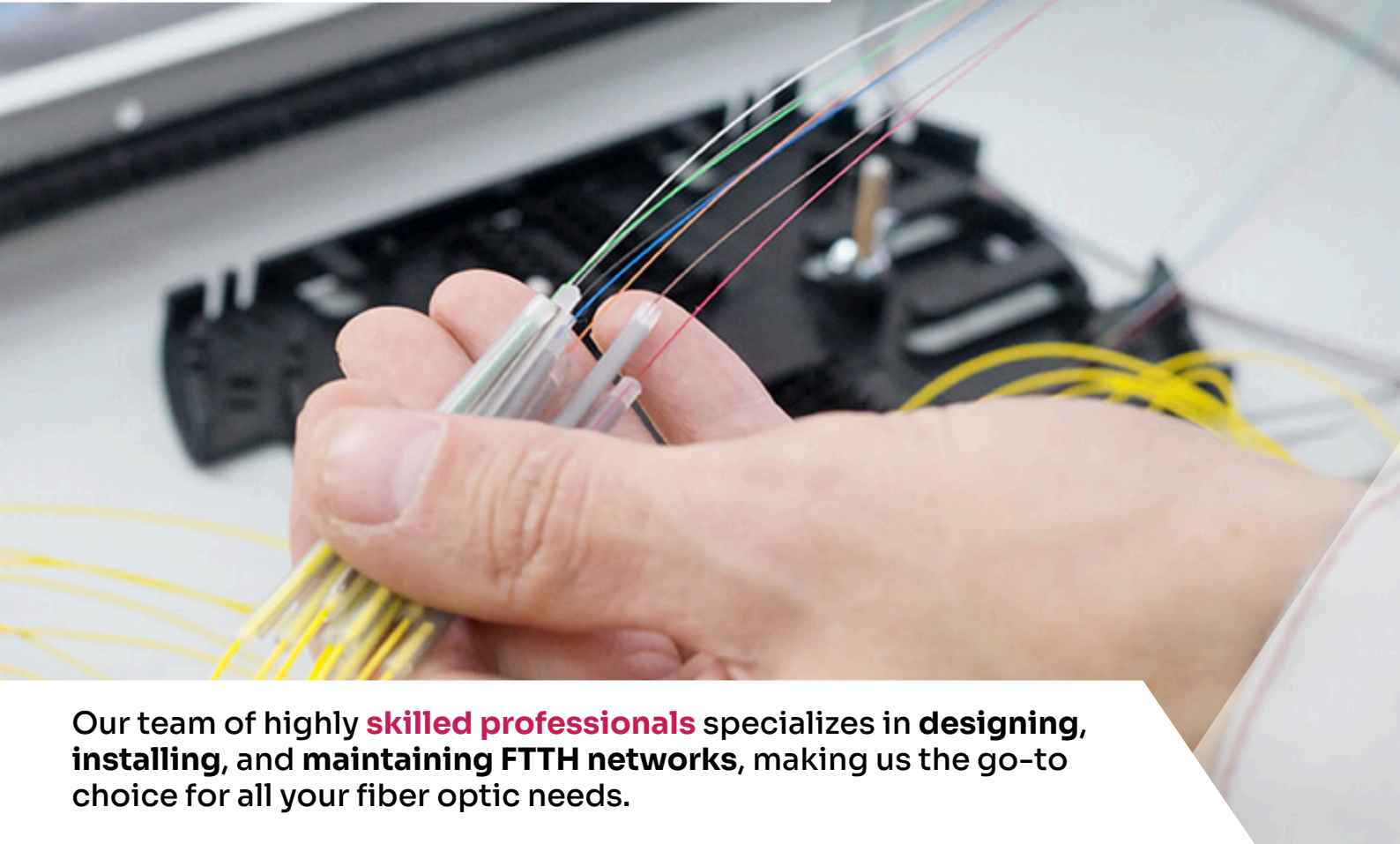
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# About Us

Leading communication & technology solutions provider



Our team of highly **skilled professionals** specializes in **designing, installing, and maintaining FTTH networks**, making us the go-to choice for all your fiber optic needs.

## About us

Tenovar is a leading Fiber-to-the-Home (FTTH) contractor with a mission to connect communities, businesses, and homes with high-speed, reliable fiber optic networks.

With over 20 years of experience in the industry, and a pool of over 100 engineers, technicians and skilled labours, we have successfully completed numerous FTTH projects, ensuring seamless connectivity for our clients.

## Mission

Empowering Telecom utilities with the complete solution for FTTH rollouts, Tenovar is your trusted partner for end-to-end implementation and contracting services.

From planning and design to installation and maintenance, we pave the way for seamless, high-speed connectivity. Our commitment to excellence and innovation ensures that you're always at the forefront of the digital revolution. Let's build the future of connectivity together.

# Services

## Building the Foundation of Connectivity



### FTTH Rollouts

In the modern digital age, seamless connectivity is the cornerstone of progress and communication. FTTH (Fiber to the House) rollouts together with the implementation and civil works serve as the bedrock on which this connectivity thrives, creating the physical infrastructure needed to support high-speed data transmission. At Tenovar, we specialize in providing comprehensive FTTH services that are not just about construction, but about building the pathways to the future.

#### FTTH Network Design

We offer expert network design services to plan and implement your FTTH infrastructure efficiently.

#### Fiber Installation

Our experienced technicians ensure precise and reliable fiber optic cable installations.

#### Custom Solutions

Tailored solutions to meet the unique needs of your project, whether it's residential, commercial, or community-based.

#### Maintenance and Support

We provide ongoing maintenance and support to keep your FTTH network operating at peak performance.

#### Civil Works

We construct robust duct work, manholes and duct banks to houses and protect fiber optic cables, ensuring reliability and accessibility for maintenance

# Outsource us



In a world that increasingly relies on fast and reliable data transfer, the importance of FTTH rollouts and proper implementation and civil works cannot be overstated. Tenovar is here to provide the robust and dependable infrastructure required to bring the world to your doorstep, one fiber optic connection at a time. We are dedicated to building the foundation of connectivity, so you can reach for the stars in the digital age.

**Telecom utilities often outsource a variety of services to specialized companies to streamline operations, reduce costs, and maintain their focus on core functions.**

Tenovar can provide the following services commonly outsourced by telecom utilities:

## 1. Fiber Network Installation and Maintenance

Outsourcing the installation and maintenance of fiber optic networks, including FTTH (Fiber to the Home), is common. This can include trenching, cable laying, splicing, and ongoing maintenance.

### Trenching

Fiber network installation often begins with trenching, which is the process of digging trenches to bury fiber optic cables underground. Outsourcing this phase ensures that specialized equipment and expertise are used to excavate, lay conduits, and protect the cables from environmental factors like moisture, temperature fluctuations, and physical damage.

### Cable Laying

Once trenches or conduits are prepared, the actual cable laying takes place. Fiber optic cables are carefully placed within these channels, and the quality of this installation is crucial to minimize signal loss and ensure network reliability. Outsourced installation teams are skilled in this precision work.

# Outsource us



## 1. Fiber Network Installation and Maintenance

### Splicing

Splicing is the process of joining individual fiber optic strands to create a continuous, high-capacity network. This is a highly technical and delicate procedure that requires specialized equipment and expertise. Outsourcing splicing tasks ensures that connections are accurate and the network operates at peak efficiency.

### Testing and Quality Assurance

Our installation team will conduct thorough testing to ensure the network's performance and adherence to industry standards. This can include optical time-domain reflectometer (OTDR) testing to identify any signal loss or breakage in the cables.

# Outsource us



## 2. Telecom Network Design

Outsourcing network design services helps utilities plan and optimize their infrastructure for better performance and scalability.

Telecom network design is a complex and critical aspect of building and maintaining modern telecommunications infrastructure. It involves the strategic planning, engineering, and optimization of networks to ensure they deliver high performance, scalability, and reliability. Many telecom utilities and service providers opt to outsource network design services to leverage specialized expertise.

### Strategic Planning

Our teams collaborate closely with telecom utilities to understand their objectives, market demands, and future goals. They create a strategic blueprint that outlines how the network should evolve to meet current and future requirements. This may involve:

- Identifying areas with high demand for services.
- Determining optimal locations for infrastructure such as cell towers and data centers.
- Evaluating technology options, such as fiber optics or wireless solutions.

### Infrastructure Engineering

Once the strategic plan is in place, our team dives into the technical details of infrastructure design. They specify the equipment, technologies, and architecture needed to build a reliable and high-performance network. This includes:

- Selecting the most suitable fiber optic cables, switches, routers, and access points.
- Designing data centers with redundancy and disaster recovery in mind.
- Planning the layout and placement of network elements.

# Outsource us



We ensure that these complex projects are completed **efficiently** and with a focus on **safety** and **reliability**.

## 3. Infrastructure Construction

The construction of cell towers, data centers, and other telecom infrastructure may be outsourced to construction companies with expertise in the field.

The construction of critical telecom infrastructure, such as cell towers, data centers, and network facilities, is a pivotal phase in the telecommunications industry. It's a complex task that demands precision, safety, and compliance with industry standards. At Tenovar we provide the following construction services:

### Cell Tower Construction

Cell towers are the backbone of mobile telecommunications, providing wireless connectivity to vast areas. The construction of cell towers is a specialized task that involves:

- Site selection and permitting, ensuring that towers comply with local regulations and zoning laws.
- Tower design and engineering, taking into account load-bearing capacity and structural stability.
- Tower installation and equipment integration, including antennas, transceivers, and other network equipment.
- Safety protocols and compliance with industry standards.

# Outsource us



We guarantee that the facility is built to meet the **highest standards** of **security, reliability, and efficiency.**

## 3. Infrastructure Construction



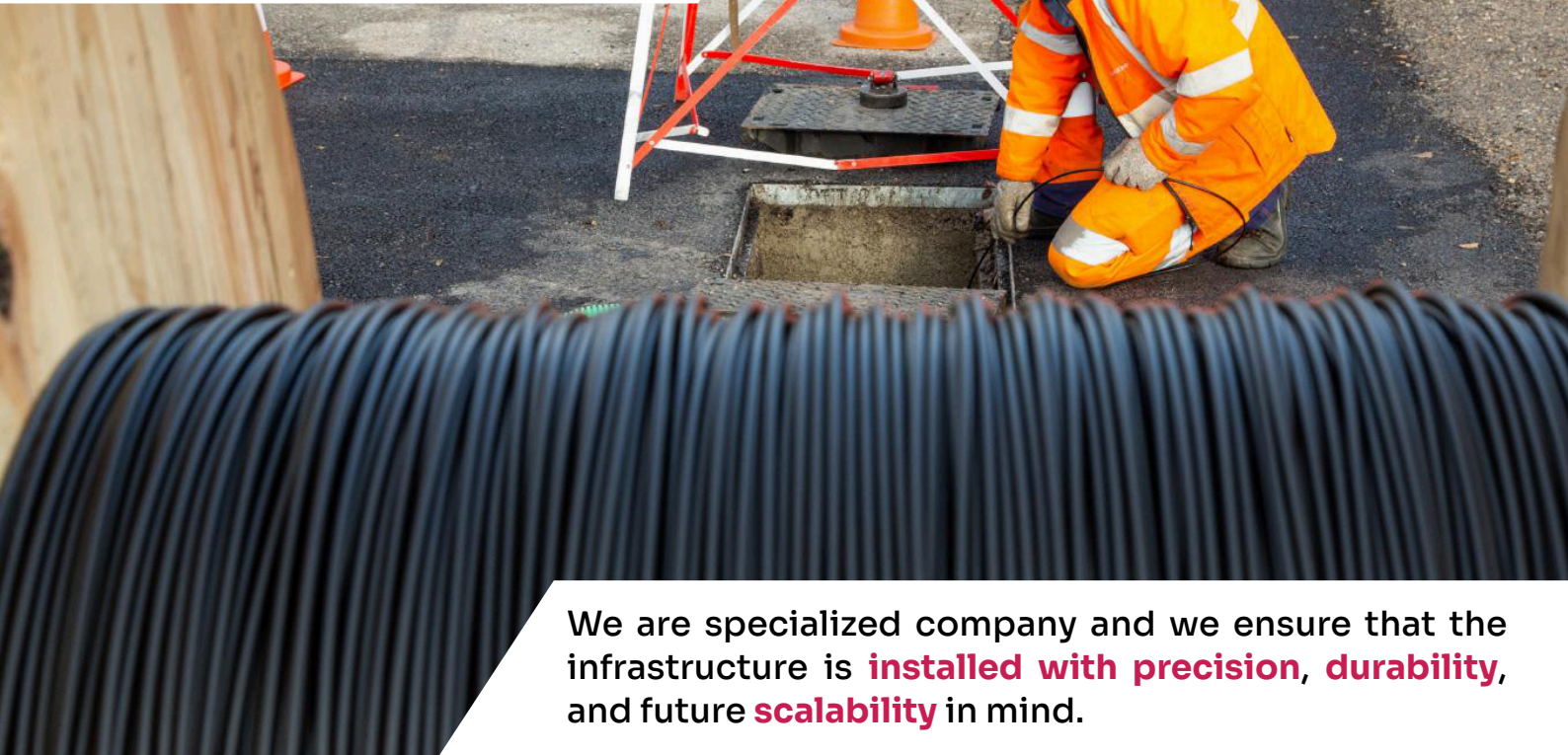
### Data Center Construction

Data centers are the nerve centers of telecom networks, housing critical network infrastructure and servers. Constructing data centers requires:

- Site selection and zoning compliance to establish the data center in suitable locations.
- Construction of robust, climate-controlled facilities to protect sensitive equipment.
- Electrical and HVAC (Heating, Ventilation, and Air Conditioning) systems designed for redundancy and energy efficiency.
- Network infrastructure installation, including cabling and connections to support high-speed data transmission.



# Outsource us



We are specialized company and we ensure that the infrastructure is **installed with precision, durability,** and future **scalability** in mind.

## 3. Infrastructure Construction

### Network Infrastructure Construction

Besides cell towers and data centers, network infrastructure encompasses a wide range of facilities, such as underground conduits, fiber optic cable pathways, and distribution nodes. Construction of network infrastructure involves:

- Underground construction for laying conduits to protect fiber optic cables.
- Trenching and cable laying to deploy cables across long distances.
- Construction of distribution nodes, which are vital for directing data traffic and ensuring network efficiency.

# FAQs:

## What are the benefits of FTTH?

- **Lightning-Fast Speed:** FTTH offers lightning-fast internet speeds, providing an unparalleled online experience.
- **Reliability:** Fiber optics are known for their robustness, ensuring consistent and dependable connectivity.
- **Future-Proofing:** Investing in FTTH is a forward-thinking choice, as it's prepared for the future's data demands.

## Why Choose Us?

- **Timely Delivery:** Our commitment to project deadlines is unmatched.
- **Cost-Efficiency:** We offer competitive pricing without compromising on quality.
- **Experience:** With a proven track record of successfully completing FTTH civil works projects, we bring a wealth of experience to every endeavor.
- **Quality Assurance:** We are committed to the highest quality standards in every aspect of our work, ensuring a robust and future-proof network.
- **Safety:** Safety is our top priority, and we adhere to strict safety protocols to protect both our team and the community during construction.
- **Cutting-Edge Technology:** We stay up-to-date with the latest industry advancements, utilizing state-of-the-art equipment and techniques to deliver the best results.
- **Community-Centric Approach:** We understand the impact of our work on local communities and take pride in minimizing disruptions while enhancing their connectivity.

## What are our expertise?

- **Design and Planning:** Our team of experts excels in the meticulous planning and design of FTTH networks, ensuring they are optimized for performance, scalability, and longevity.
- **Underground and Aerial Infrastructure:** We offer both underground and aerial solutions, depending on the specific requirements of your project, making sure your network is deployed in the most efficient way.
- **Trenching and Ducting:** Precise trenching and ducting services ensure the safe and efficient placement of fiber optic cables, protecting them from external elements.
- **Manhole and Duct Bank Construction:** We construct robust manholes and duct banks to house and protect fiber optic cables, ensuring reliability and accessibility for maintenance.
- **Splicing and Termination:** Our experienced technicians carry out expert splicing and termination, ensuring low signal loss and reliable connections.
- **Project Management:** From inception to completion, our project management ensures on-time and on-budget execution, minimizing disruptions to your community.

# Projects

Delivering **exceptional results**, our team has successfully completed numerous projects for **satisfied customers**, showcasing our commitment to excellence and client satisfaction



**GO PLC**  
Malta



**Enemalta**  
Malta



**EPIC PLC**  
Malta



**BT Openreach**  
Midlands UK



**Water Services**  
Malta

# Customer Testimonials for Our FTTH Services



At Tenovar, our commitment to delivering **high-quality FTTH** (Fiber to the Home) services has earned us the **trust and satisfaction** of numerous customers.

Here are some testimonials from our valued clients who have experienced the benefits of our services:

"Working with Tenovar on our FTTH rollout project was a breeze. They provided top-notch network design, expert installation, and responsive ongoing support. Our network is now more secure and faster than ever before. We're incredibly satisfied with the results and the professionalism of their team."

**Pierre Attard – Go**

"Tenovar has been an invaluable partner in expanding our FTTH network. Their construction and installation services are top-notch. They've played a significant role in helping us meet the growing demand for high-speed internet."

**Steve Stragent - Go**

"Managing a community-wide FTTH rollout is no small task, but Tenovar made it look easy. Their team's expertise, professionalism, and commitment to meeting deadlines ensured a successful project. We're thrilled with the results!"

**Manuel Magro – Epic**

"I've worked with several FTTH contractors, and Tenovar stands out. Their network design and construction quality exceeded our expectations. It's clear they understand the technical side of FTTH as well as the practicalities of implementation."

**Minerva Francisco – Epic**

# Ready to Power Up Your Project?

Request a Quote and Let's Get Started!



**TENOVAR**<sup>®</sup>  
GROUP



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