

Get connected!

Our rural broadband system helps communities to develop.



Prysmian
Group

Linking
the Future

CONNECTING THE WORLD. TODAY AND IN THE FUTURE.

**Prysmian Group is world leader
in the energy and telecom cables
and systems industry.**

**With 140 years' experience,
the Group is strongly positioned
in high-tech markets and offers
the widest possible range of
products, services, technologies
and know-how.**

140

YEARS OF
EXPERIENCE

25

R&D CENTRES
AROUND
THE WORLD



We specialise in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.



For the telecommunications industry, the Group is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems.



We are committed to environmental responsibility in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which we work.



For us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of our industries and sectors. Acting on this intelligence from 25 R&D centres around the world, we're constantly close to our customers in their own local markets.



*Linking communities to
the new digital world.*

Get connected!

Our rural broadband system helps communities to develop.

Hesitant to invest in fibre optics in rural areas? Don't be. With our broadband package you get a complete end-to-end solution through a turn-key project specifically designed for rural connectivity. With state-of-the-art fibre cables and perfectly fitting and easy-to-install connectivity products, you'll get a long-lived and almost maintenance free network reaching the most remote villages.

What we offer.

The adoption of new technologies, not the least optical fibres, is driving us into a new era of digital demands. But even though we all have to adapt to these new circumstances, more than 20 % (or 66 million) of EU citizens living in rural areas, lack broadband coverage. This digital divide between cities and countryside

creates huge disadvantages for the latter in terms of social, financial, educational and health-related issues.

However, our new FTTH solution will significantly lower the long-term ownership and make the implementation of rural broadband a winner.

AN INNOVATIVE INFRASTRUCTURE TO OVERCOME DIGITAL DIVIDE.

Our solution is a multi-operator FTTH network, where the infrastructure provider and the content provider are separated without being competitors. Our package includes everything needed for a passive infrastructure from the multi-operator distribution point to the distribution point (PBO) outside each house. In addition we offer termination boxes and drop cables for each household as well.

The infrastructure will be completed by a digital platform to channel innovative services both for the municipalities and local communities. These services will provide support to the rural population by increasing their living standard and ultimately overcoming the barriers of digital divide.

Have a look at different services available in the overview on the next page!



Enabling a world of possibilities – your link to the future.

When having access to optical fibre a whole new world with so many possibilities will be waiting just outside the doorstep. We will enable local rural communities to access digital services to enhance their living standards.

Empowering people & communities.

A broadband infrastructure is nothing without the services that it can provide to enhance the living standard of local communities. This is why we want to support the local communities with a set of digital services provided by an ecosystem of innovative partners in the region.

- E-Health to support the elder population in rural areas with medical consultation and real-time supervision.
- E-Learning to provide students on the countryside the same opportunities as their urban peers. Not the least the Covid pandemic have shown the importance of having access to remote learning solutions.
- Agritech solutions to support local businesses in improving yield and commercializing their products.
- Energy and Water efficiency to enable smart resource management for households and businesses.
- Socialising with friends and family throughout the world is easy using different kinds of applications.
- Real time video streaming simplifies working from home. Using heavy computer applications is not an issue and to download or upload heavy documents is done fast and easy.

Other examples of benefits are smart lighting, surveillance cameras and air quality sensors for efficient public illumination and energy consumption to improve safety and quality of life in rural villages.





Energy & Water Efficiency



E-Learning




Agritech Solutions



Social inclusion



E-Health



Real-time video streaming

Prysmian state-of-the-art solutions for modern smart villages.

From the main distributor all the way to every single subscriber in rural and regional areas. Our solution is the ultimate FTTH package, including every detail needed to connect every corner of the society.



Multi-operator interconnection point

Street cabinet or telecommunication room containing optical distribution frames where any operator can connect to the multi-operator FTTH infrastructure and provide services to any customer.



Multi-operator distribution point

Street cabinet containing optical distribution frame dedicated to a specific area. From this cabinet optical fibres are distributed to the area up to the distribution box. In this way any household can be connected to the FTTH infrastructure.



Joints

Joints are used to connect the optical cables when required.



Local distribution point (PBO)

The PBO is a distribution box and represents the last connectivity point in which a drop cable is used to connect a subscriber to the FTTH infrastructure.



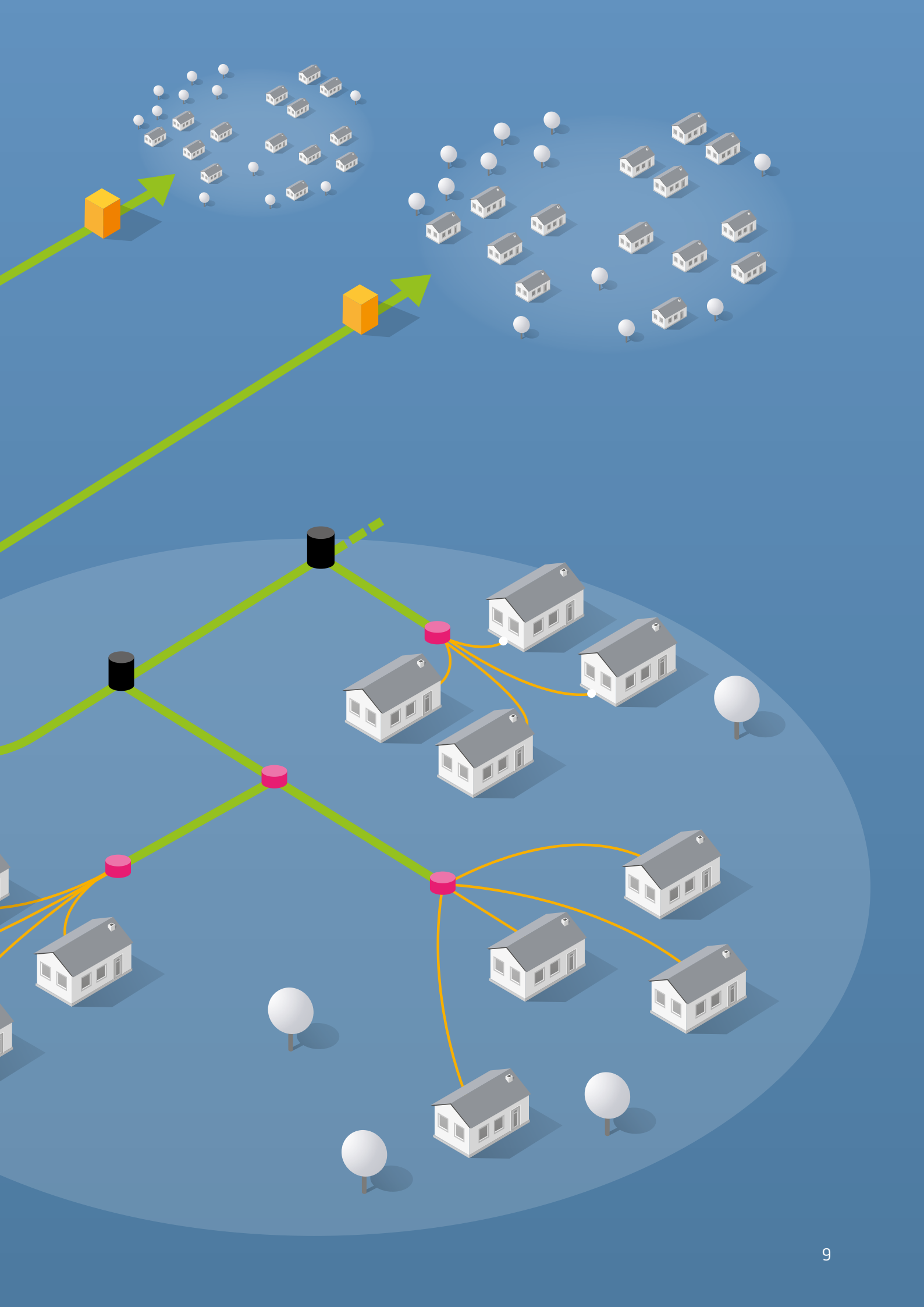
Customer connection (optional)

To connect a subscriber to the FTTH infrastructure an operator will need drop cables and a termination box installed at the subscriber premises.

 FlexTube® optical fibre cables

 Drop cables





MULTI-OPERATOR DISTRIBUTION POINT

This is the point where closed-packed fibres are connected and distributed to one or more communities. Prysmian offers safe and secure street cabinets, together with a large variety of shelves, trays and accessories for further distribution of fibres into subscriber areas.



FIBRE CABLES

More dense and quicker to install, FlexTube fibre cables offer many advantages compared to using standard loose tube optical cables. The key benefits of denser design and easier handling mean you make major savings in terms of time and cost – and the larger the project, the greater the savings. Includes BendBright^{XS} bend insensitive G.657.A2 fibres in regular 250 µm format or even denser 200 µm versions.



JOINTS

Our joints offer complete fibre management for simple and fast installation. They are designed for a large number of applications and ideal for fibre splicing in FTTH projects due to their compact sizes and fibre management. In addition, our joints are fully compatible with our own products as well as other brands on the market.



PBO

PBO is an aerial splice or splice/patch box used as the last connection point to the end users, allowing the connection between a main distribution cable and 6 customer drop cables.



CUSTOMER CONNECTION (OPTIONAL)

Used to terminate the drop cables inside the households. Depending on the operator's needs these boxes can be configured in different way:

- Pre-terminated with drop cable
- Empty for pre-terminated drop cables
- Equipped with adaptors and pigtails for seaming of the drop cable inside the box



COMMITTED TO INNOVATION

Corporate Hangar – created to make innovation happen.

"Corporate Hangar is embracing the philosophy of open innovation, allowing us to increase the speed and scope by developing innovation ecosystems and projects."

Andrea Pirondini, COO, Prysmian Group

Corporate Hangar is an innovation factory including 13 entrepreneurs, university professors, engineers, project managers and designers developing projects born both inside and outside of Prysmian that are beyond the perimeter of the companies core cables business.

With Corporate Hangar, we have created a model whereby we can delegate a bit of decision-making freedom of the day-to-day innovation, without losing control of the results. Results that add technological and digital value to help our customers achieve their energy transition and digital transformation in a both efficient and effective way. Following its mission and drive towards social innovation, Corporate Hangar is supporting Prysmian Group in the Rural connectivity project, with its innovation management expertise.

Do you want to know more?

Visit our website: www.prysmiangroup.com



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