



INSTITUTIONAL PRESENTATION

December 2018

THE 2020 DIGITAL AGENDA

The **European** strategy sets out that the entire population shall be connected at no less than 30 Mbps and that at least 50% of the population shall use services at 100 Mbps.

The **Italian** ultra-broadband strategy entails:

- 100 Mbps coverage for 85% of the population;
- at least 30 Mbps coverage for all the population.

An ambitious objective, which is necessary for the country and aligned with the objectives set by the European Digital Agenda.

THE GIGABIT SOCIETY

The European Commission set new targets for 2025, aimed at achieving a true “Gigabit Society”:

- 1 Gbps in 100% of railway stations, airports, businesses and the main Public Administrations;
- 100 Mbps for 100% of European households, including rural households, with an option to upgrade up to 1 Gbps.

Open Fiber
was created in this context,
to build high-speed fiber optic
electronic communication networks
distributed nationwide to help recover
the competitive edge of the national
economic system and evolve
towards "Industry 4.0".

Open Fiber is a company jointly owned
by Enel and CDP,
operating only in the wholesale market
and offering access
to all interested market operators



A NEW NETWORK, ALL IN FIBER

The ultra-high speed Open Fiber network is created in **Fiber To The Home (FTTH)** mode. The entire connection, from the power plant to the customer's home, is made using optical fiber. This enables the network to achieve the maximum performances with a **speed of up to 1 Gigabit per second (Gbps)**.

A “future-proof” network, capable of supporting all the potential of the new technologies set to developed over the next few years, in line with the founding principles of the Gigabit Society



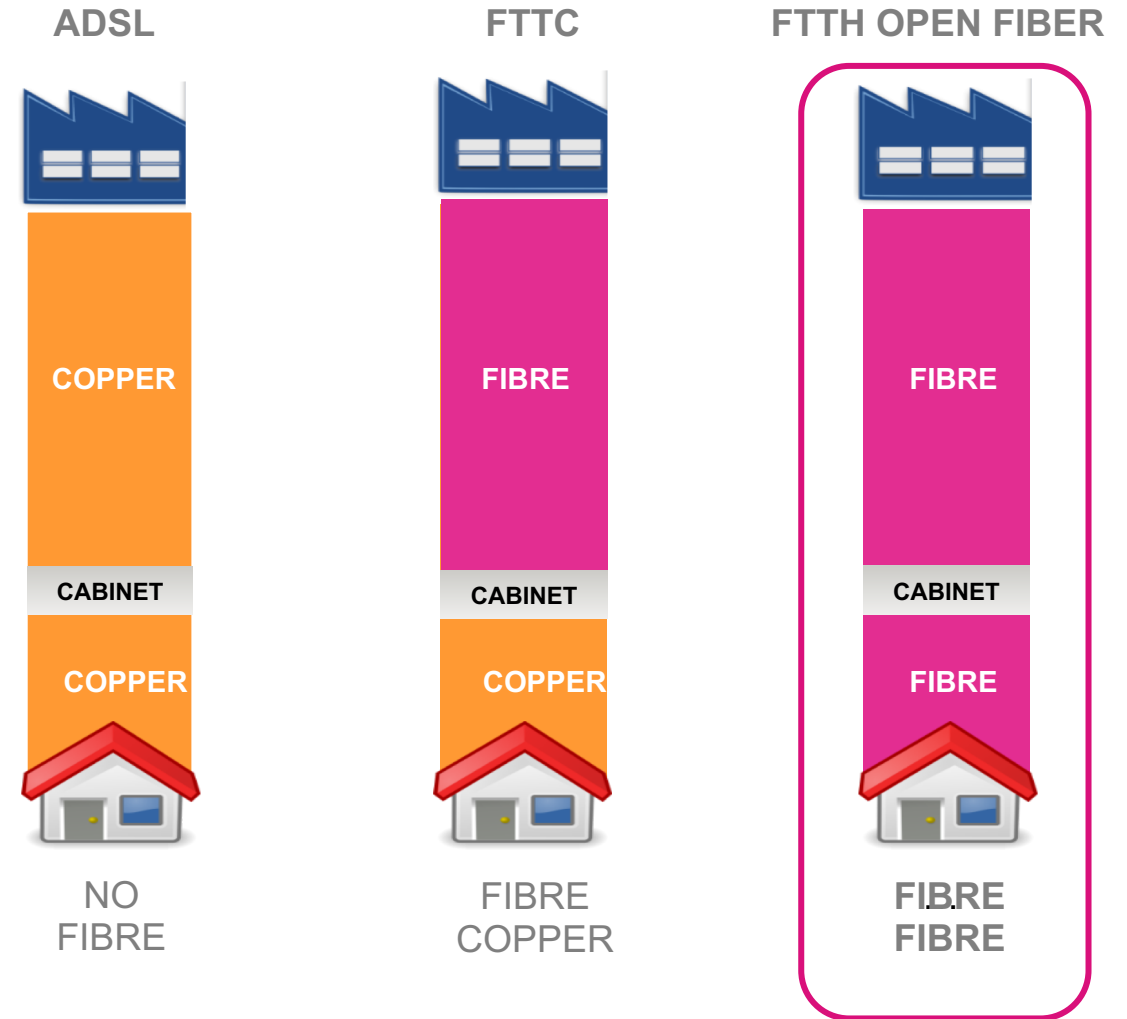
ARCHITECTURES COMPARED: FTTH IN POLL POSITION

With FTTH, homes and companies are connected to the OF power plant thanks to an infrastructure made entirely of optical fiber.

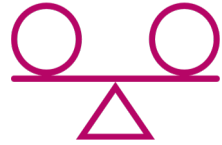
ADSL: connections only in copper,

FTTC: connections in a mixture of copper and fiber,

FTTH: connections only in optical fiber.



THE OPEN FIBER NETWORK



Greater reliability

The fiber connections are more stable and productive because they are less subject to breaks in service and technical problems than copper, so reducing maintenance costs and guaranteeing a better quality of service for the end customers.



Higher performances

“A 100-lane motorway” in which the fiber optic networks enable the information to travel at a higher speed.



More efficiency

Fiber optics supports the telecommunications networks of the future (Next Generation Network - NGN) making the infrastructure last longer and increasing the transmission speed more than the traditional technologies.



Future-proof

Fiber optics is the only “future proof” solution with a transmission capacity that can reach up to 40 Gbps. Via the FTTH technology, the fiber reaches the homes directly, ensuring compatibility with the rapid evolution in the network services.



Energy savings

According to a report of the Fondazione Ugo Bordoni, a fibre access network (FTTH) would enable, for the same number of connected customers, greater energy savings compared to a copper access network, with benefits for the environment and much faster returns on the investment.

A NETWORK FOR

People



Access to cutting edge
P.A. services.
Healthcare services
E-commerce
Banking services
Internet of things
Edutainment
Entertainment
E-health.

le smart cities



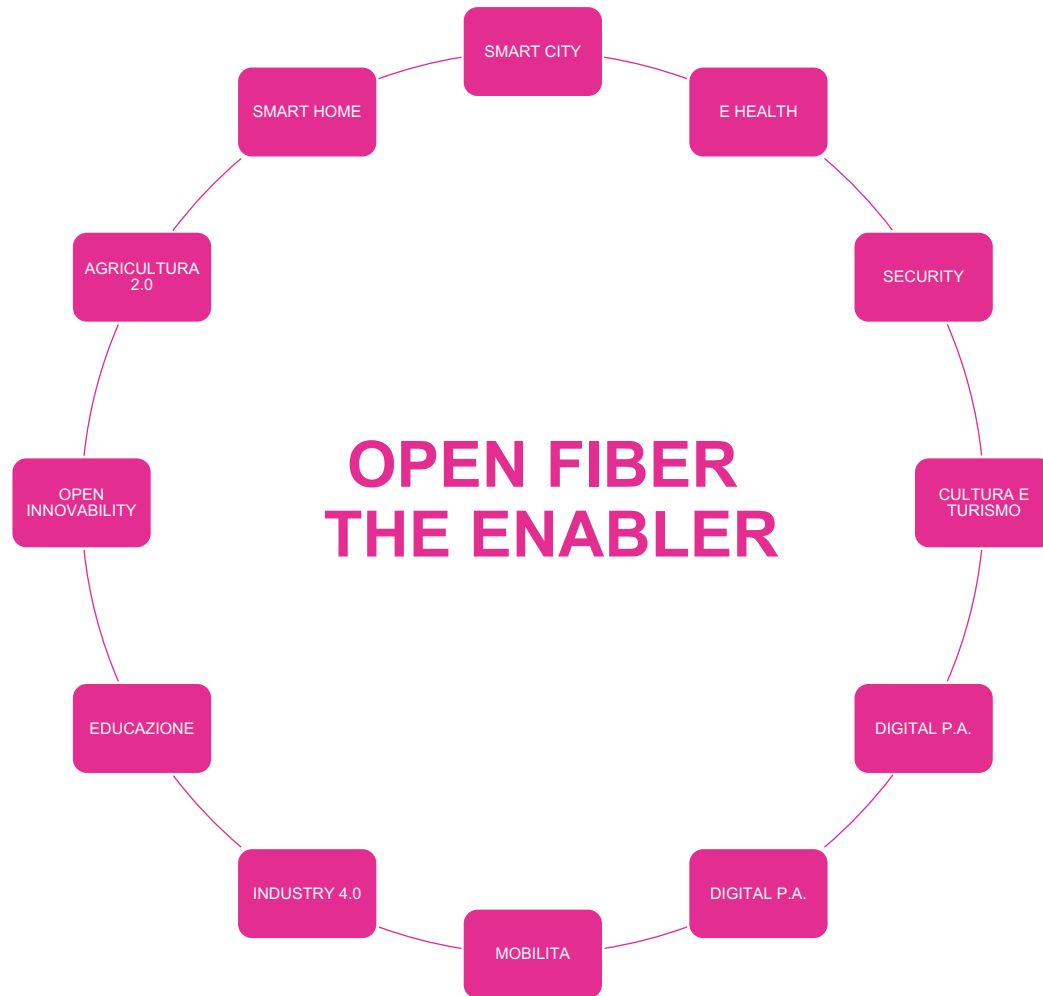
Sustainable mobility
Electronic access control
Traffic flow management
Re-charging electric vehicles
Security/monitoring of the country
Environmental remote sensing
Public lighting management,
Digitalisation of tourist services.

Companies



Smart working and
teleworking
Cloud computing
“Industry 4.0” plan
Innovation

A network of opportunities



The Open Fiber network is a strategic asset for the Italian economic system, essential for enabling and developing digital connections and services, the main stimuli for productivity, competitiveness and for facing economic and social challenges.

Today, having more bandwidth is a requisite for ensuring that we are also prepared to tackle how technology will develop in the future

A NETWORK FOR ALL ITALIANS

Cluster A e B

Large cities



Cluster C e D

Small center

The **Open Fiber** project involves the whole of Italy with **no distinctions between large cities and small centres**, so enabling the whole country to bridge an unsustainable digital gap.

Open Fiber intervenes, making proprietary investments in the cities and the most urbanised areas (clusters A and B)

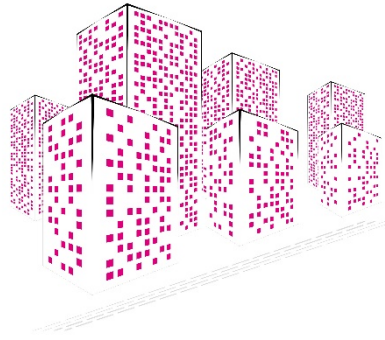
In the small centres and rural areas (clusters C and D), **Open Fiber** builds a public network using the tools and resources defined by the Infratel tenders.

The entire project will cover 65% of the country's real estate units

OPEN FIBER – CLUSTERS "A&B"



271 Italian municipalities involved in the initial phase of the Open Fiber plan.
9.5 million property units.
3.9 billion euro for the creation and development of the network (including approximately 90% by 2022).
7 - 8 thousand people employed in the sites. Over **2.6** million property units cabled at the beginning of 2018.



Infrastructure in fiber completed in Turin, Milan, Bologna, Perugia.
Activity launched in a total of 94 municipalities.



In January 2018, Open Fiber signed an agreement with **ACEA** for the development of an ultra-wideband network in Rome. The overall plan of Open Fiber for the capital envisages ensuring the coverage of 1.2 million property units and involves an investment of 350 million euro.

OPEN FIBER CLUSTER «C&D»

To Open Fiber were assigned both the first and second Infratel tenders for the construction and management of an ultra-wideband public network.

These involve:

6,753 municipalities

16 regions in addition to the province of Trento

The planned interventions will affect

13.8 million citizens

9.3 million property units

500 thousand company headquarters and P.A.s

Calabria, Apulia and Sardinia will be involved in a third Infratel tender to be launched in the next few months.



OPEN FIBER FOR 5G

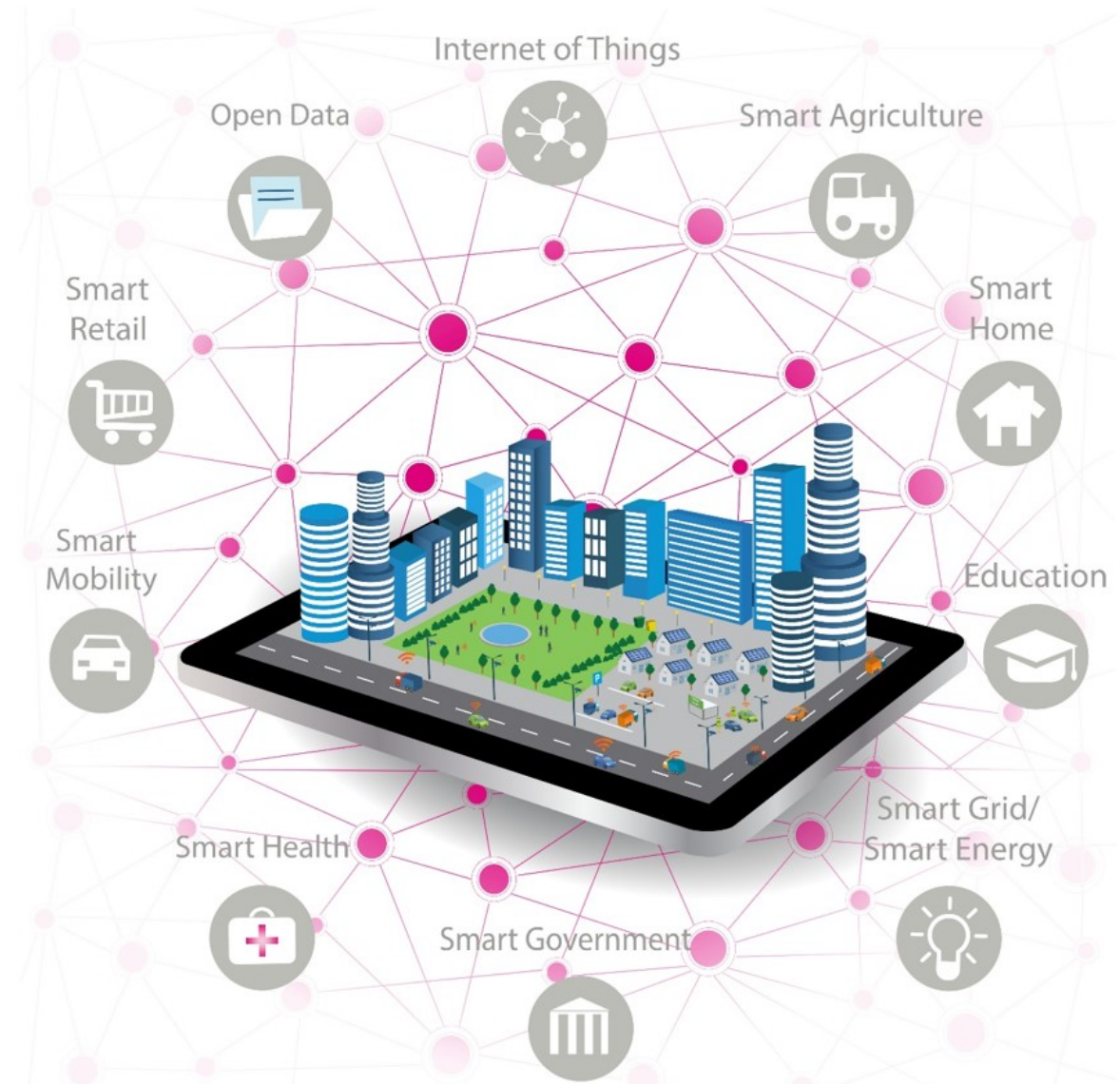
Open Fiber, in partnership with Wind Tre, has launched an experiment regarding the **5G** technology in the cities of Prato and L'Aquila.

The project, which will run until 2020, aims to lay the foundations for the construction of a “Smart city” in which families and companies can benefit from innovative services in various fields, including

- health
- mobility
- security
- emergency prevention and management.

5G is a new technology with a huge potential, both in terms of network and services.

The experiment– which involves universities, research centres and companies - features characteristics that can be replicated on both a national and European level.



THANK YOU



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