



Next Generation Network

*The future has begun:
let's discover it!*

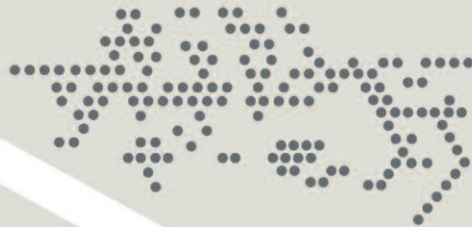
Next Generation Network

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We are in the heart of Venice, on the site of what used to be the San Salvador Convent, today the **Future Centre of Telecom Italia**. Here an international group of researchers works to explore new business opportunities, made possible by next generation networks.

Technology to deliver ultra-broadband is here

The most important world Operators are bringing this technology to the field with huge investments over the coming years. Telecom Italia, among them. In the next few years copper cables in the access network, connecting the central office to our homes and enterprises, will be progressively substituted. An optical fibre, a wire made of glass within which light beams flow, will bring us sounds, images and many other types of content.



Telecom Italia is fostering this major renewal of the telecommunications infrastructure leading to the implementation of the NGN2 (Next Generation Network 2), the Country wide infrastructure taking us into the future.

Have you ever wondered what a telecommunication network is made of? What are the differences between a network based on copper and one based on fibre? How, more importantly, the Next Generation Network will change our way of living, communicating, working?

"Copper wires have made today's communications possible, shrinking the world, they made the business global and kept our friends always within voice distance"



"In the optical fibre signals fly from me to you at the speed of light"



"The new optical fibre networks are taking us into the Future. They will become the fabric for further development of our Society, the engine for business and innovation"

The Future Centre is offering us a true voyage in the network

to discover the structure, the equipment, the technologies used, something that is usually hidden to our perception. It is a voyage that begins in the central office to move underground and then surface to enter into our home.



There is also the opportunity for a virtual voyage, an engaging tale on human communications

Human communications involves a rich exchange of visual, aural, tactile and smell signals. Networks can only convey as many signals as technology allows. Tomorrow, thanks to advances in terminals and to the increased capacity offered by optical fibre networks, telecommunications will be able to mirror much more closely our natural human communication.

Telepresence is just around the corner

In this voyage we have a fantastic travel partner. Giovanni Soldini, a seven seas sailor, who has shared his adventures with Telecom Italia for many years and uses Telecom Italia technologies to remain in touch from the middle of nowhere.

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