

Innovative Broadband Networks

Telespazio, a Finmeccanica/Alcatel company, designs and manages integrated telecommunications networks providing global coverage for institutional and business customers. In addition, the company develops added-value services and applications for two-way multimedia broadband communications addressed to the business and institutional market, with particular regard to sectors such as telemedicine, e-learning, e-government and Civil Protection. Furthermore, the company provides television and radio channel distribution services for all major Italian and international broadcasters through a network of fixed and mobile stations.

Telespazio networks rely on **SkyplexNet** platform allowing the use of both fixed and mobile one-way and two-way terminals, with signal coverage extending over Europe and the entire Mediterranean basin. SkyplexNet opens up the way to new solutions in the broadband communications world through a direct satellite access.

Emercom-Sat, designed by Telespazio for the Regione Piemonte (in Italy) and based on the SkyplexNet platform, is today one of the world's most advanced satellite networks for civil protection purposes. It is used by Institutions, Civil Protection structures and Security Forces. In February, Emercom-Sat will be used to ensure emergency communications and security at the Torino 2006 Winter Olympic Games.

In addition, Telespazio manages the SkyplexNet system for Italy's Ministry of Internal Affairs – Fire Department, to cope with emergencies all over the country, also using satellite linked vehicles. The network's Control Centre is located at Telespazio's Lario Space Center, while its Services Centre is hosted at the Ministry of Internal Affairs.

Telespazio has developed, together with the European Space Agency and other partners, an "end to end" offer for infotainment, internet and tv on board of high speed trains. The service - presently under testing on Italy's Trenitalia ETR 500 High Speed trains -, has already been tested on the SNCF French TGV. It will allow passengers with WiFi-enabled laptops and notebook computers to surf the internet and watch television.

In the **Telemedicine** field, through its participation in the company Telbios, Telespazio provides integrated networks which ensure home care medical services and application.

Telespazio supports the development of **Television** through technologies for broadcasting, distributing and transporting signals via satellite. With its professional solutions, Telespazio satisfies the most advanced requirements of TV and radio broadcasters, providing space segments and transmission services through permanent and mobile stations.

Telespazio covers more than 90% of the Italian satellite television and radio market through the most important Italian networks such as RAI, Mediaset, SkyTV Italia etc.; its customers also include many major international broadcasters such as CNN, Eurosport, Al Jazeera and Arab Radio Television as well as the European Broadcasting Union.

TV Services are provided in most of the cases using the ground station facilities at Fucino Space Center, the largest satellite telecommunication centre in Europe, and those of the Lario Earth Station, located in the North of Italy.

Today, with its DVB (Digital Video Broadcasting) Direct-To-Home Digital Platforms via Eutelsat, Telespazio enables its customers to broadcast their programs directly to the public in all European countries.