

## Earth Observation

Telespazio, a Finmeccanica/Alcatel company, is a world leader in the **Earth Observation** sector, in which it performs the full range of activities from acquiring and processing satellite data to developing and marketing software and products. The services offered are addressed principally to institutions and companies operating in the fields of territorial surveying and monitoring, civil protection, the prevention and management of natural events, cartography, agricultural applications and geomarketing.

Telespazio is engaged in the development of the Italian Space Agency's **COSMO-SkyMed**, one of the most innovative programs in the Earth Observation field. COSMO-SkyMed is based on a constellation of four satellites – the first will be launched during 2006 – equipped with radar sensors, which are able to operate under all weather conditions and with high revisit time. Telespazio is responsible for the development and construction of all the ground infrastructures regarding both the constellation's orbit management systems and its data receiving and processing systems. The COSMO-SkyMed program includes two data collection and processing centers, operated by Telespazio for defence and civil uses, respectively. The civil applications, in particular, will contribute to the growth of the Matera Space Center.

Telespazio is responsible for the development and distribution of innovative products and applications in the environmental control field, with particular regard to natural disasters, the management of renewable and non-renewable resources, and technical/thematic geographical mapping.

In addition, Telespazio is also participating in the **GMES** (Global Monitoring for Environment and Security), a joint European Commission and European Space Agency program. GMES is designed to meet European needs for geospatial information services and constitutes the European institutions' contribution to the International Global Earth Observation System of Systems, GEOSS. Telespazio is one of the main players in the development of GMES services. The company is prime contractor of MARISS (European Maritime Security Services) and LIMES (Land/Sea Integrated Monitoring for European Security) programs and is a partner in several other projects.