

Rome, 27 January 2010

Finmeccanica at SAT EXPO 2010

Finmeccanica is to be a major participant at SAT EXPO 2010, the international exhibition of services, space applications and integrated telecommunications, which will take place for the third consecutive year at the Nuova Fiera di Roma (Rome's exhibition centre) from 4 to 6 February. Finmeccanica has secured an exhibition space where some of its group companies will present innovative products and services in the telecommunications, infomobility, navigation, monitoring and Earth observation sectors.

Two of the companies present at SAT EXPO will be Finmeccanica's Space Alliance joint ventures with Thales: Telespazio (67% Finmeccanica; 33% Thales), one of the world's leading operators in satellite management and Earth observation services, satellite navigation and the construction of integrated communications networks; and Thales Alenia Space (67% Thales; 33% Finmeccanica), a global leader in telecommunications, Earth observation based on optical and radar technology, defence and security, and science.

Telespazio will present its activities in the Galileo, COSMO-SkyMed, GMES and SICRAL space programmes, and in the satellite communications and Earth observation sectors. It is the main Finmeccanica company active in satellite navigation and localisation services. At its Fucino Space Centre, Telespazio has built one of the control centres that will manage the Galileo satellite constellation. In the field of satellite communications, Telespazio designs, builds and manages telecommunications networks with global coverage for corporate and institutional clients. On show in Rome will be the specific services and networks implemented for Civil Protection Department, Interior Ministry and the Fire Department. In addition, Telespazio will present the services relating to the transport and distribution of radio and television signals for national and international broadcasters. The company carries out all its activities relating to the Earth observation sector through its e-GEOS subsidiary (80% Telespazio; 20% the Italian Space Agency). e-GEOS is a leading international operator in the field of geospatial information, with an integrated range of application solutions, content and value-added services, based on radar and very high resolution optical data. Some of the satellite operations based on radar data from the Italian COSMO-SkyMed system will be presented at SAT EXPO.

Thales Alenia Space will have all its satellite systems technologies on display within Finmeccanica's exhibition space. The company will present its most important space programmes and demonstrate its expertise in the science and technology field, with examples such as the Galileo system and COSMO-SkyMed constellation. Galileo is Europe's most ambitious satellite navigation programme, and is based on a constellation of 30 satellites. The company was recently awarded a services support contract for the Galileo system, recognition of its expertise in the design and integration of "system of systems", as already produced in the in-orbit validation (IOV) phase of the Galileo programme, which is currently under way and aims to assess the initial performance of the European navigation system. In the IOV phase, Thales Alenia Space is also responsible for the design and development of the ground segment of the mission, as well as the main sub-systems of the space segment. In the Earth observation sector, the COSMO-SkyMed model will be on show. COSMO-SkyMed is Italy's first dual-use (civil and military) constellation. The four satellites equipped with SAR technology using X-band

Finmeccanica plays a leading role in the global aerospace and defence industry, and participates in some of the sector's biggest international programmes through its group companies and well-established alliances with European and USA partners. A leader in the design and manufacture of helicopters, defence and security electronics, civil and military aircraft, aerostructures, satellites, space infrastructure and defence systems, Finmeccanica is Italy's leading high-tech company. It also boasts significant manufacturing assets and skills in the transport and energy sectors; it is listed on the Milan stock market and operates via a number of group companies and joint ventures. It has over 73,000 employees, with more than 12,600 working in the USA, about 10,100 in the UK and over 3,600 in France. As part of its drive to maintain and build on its technological excellence, Finmeccanica spends 12% of its revenues on Research and Development.

high resolution radar observe the Earth day and night in any atmospheric conditions, contributing to environmental monitoring and risk and security management. The first three satellites were launched in 2007 and 2008 and the entire constellation will be completed before the end of this year.

The companies taking part in the show include **Alenia Aeronautica**, Italy's largest aeronautics company, operating in the design, development, transformation, maintenance, upgrading and production of civil and military aircraft, unmanned aerial vehicles and aerostructures. Through subsidiary Alenia Aermacchi, it is leader in the training aircraft sector, and through the joint ventures ATR, SuperJet International and SCAC, it is world leader in regional turboprop and jet aircraft. Alenia Aeronautica will present two products in the "Security" area of SAT EXPO 2010: the ATR 72-600, the new -600 version of the turboprop regional transport aircraft, which is more powerful and offers higher performance, and lower maintenance and fuel costs, a next-generation avionics suite, more comfortable cabins and reduced CO2 emissions per passenger; and the Sky-Y UAS (unmanned aerial systems), which was developed specifically as a demonstrator of techniques and innovative technologies for MALE (medium altitude, long endurance) class unmanned aircraft intended for territory surveillance missions.

SELEX Galileo, a key player in the defence electronics sector, will also be at SAT EXPO. The company offers complete security and surveillance solutions for defence, space and national security applications. A major operator in space technologies, SELEX Galileo designs and develops electro-optical instruments, equipment, attitude sensors and the robotics sub-systems that are essential to many space programmes. At SAT EXPO, SELEX Galileo will present the MASER atomic clock on board each of the 30 satellites comprising the Galileo constellation, the SLSTR infrared radiometer (Sea and Land Surface Temperature Radiometer), an important component of the Sentinel 3 payload, one of the "sentinels" planned as part of the European GMES (Global Monitoring for Environment and Security) programme, and the AA-STR autonomous stellar sensor (APS-based Autonomous Star Tracker) for satellite attitude control. A major company in the dual-use unmanned aircraft and systems sector that leverages its unique experience in the field of scientific space equipment, SELEX Galileo is strongly committed to the use of these innovative platforms for Earth surveillance, observation and monitoring missions.

Another Finmeccanica participant at SAT EXPO 2010 will be **Elsag Datamat**, with its Cosmo-SkyMed simulator, a system that can simulate the behaviour of the four satellites in a synchronised way, representing each satellite independently via models of the various on-board sub-systems interfaced with real flight software. Elsag Datamat has considerable experience in the satellite simulation sector, having built the simulators for the main national and international programmes such as SAX, SICRAL1 and 1b, ATV and Galileo. Work on simulators has been developed as a result of the construction of control centres, an activity in which Elsag Datamat has played a significant role since the 1970s. The company developed the main national control centres, starting with Sirio 1 and continuing with Sirio 2, ITALSAT, SAX and SICRAL, and subsequently, the COSMO-SkyMed constellation. The experience it acquired in Italy also led to Elsag Datamat becoming the leading player at European level, following the construction of the control centre for ARTEMIS and for the XMM, Cryosat and European Space Agency GOCE scientific missions. In addition to control centres and satellite simulators, Elsag Datamat has several years of experience in applications such as on-board software, ground segments and infrastructure for the management of multi-mission data.

Also to be found at the Finmeccanica stand will be **SELEX Service Management** and **SEICOS**. SELEX Service Management provides solutions for the secure management and monitoring of innovative services for government organisations. The company designs, builds and manages complex ICT platforms for environmental and territorial monitoring of critical areas and infrastructure, and provides services for civil protection agencies, and broadband services. SEICOS works for police forces and other institutions that need a reliable technology partner able to meet the most stringent connectivity and security requirements. The company designs and builds complex telecommunications networks integrating different technologies, and offers solutions that provide security and continuity of services in any circumstances.

