

GALILEO

Europe's own global navigation system

TELESPAZIO IS FINMECCANICA'S REFERENCE COMPANY FOR NAVIGATION AND LOCALISATION SERVICES, A ROLE ALSO BASED ON ITS CONTRIBUTION TO THE DEVELOPMENT AND DEPLOYMENT OF GALILEO, THE EUROPEAN SATELLITE NAVIGATION PROGRAMME THAT WILL BE IMPLEMENTED THROUGH THE LAUNCH OF A CONSTELLATION OF 30 SATELLITES.



NAVIGATION
AND MOBILE
INFORMATION

 **TELESPAZIO**

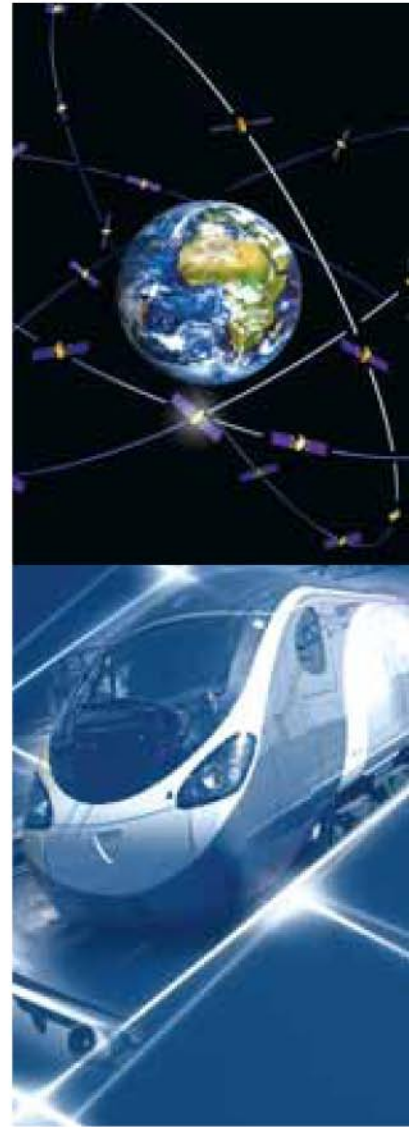
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One of the two control centres (GCC) that will manage the **Galileo** constellation and mission will be based at the Telespazio Fucino Space Centre. The company will also be responsible for development and management of one of the two Signal performance validation centres in the area of Rome.

Telespazio will play a leading role in the construction and management of the **Galileo Test Range (GTR)**, the multifunctional technological infrastructure for satellite navigation, financed by the region of Lazio and supported by the Italian Space Agency, Alcatel Alenia Space, ENAV (Italy's air traffic control body) and Italian universities and companies. This programme will lead to the creation of a laboratory for the validation of the Galileo signal, the testing and certification of terminals, and the development of navigation and positioning applications.

Galileo and its precursor **EGNOS** (European Geostationary Navigation Overlay Service) will foster the development and launch of services and applications for land, air, rail and maritime transport, telecommunication, Earth mapping, oil exploration and mining. Telespazio intends to further develop its presence in these service areas, which will also boost measures aimed at protecting sensitive areas such as ports, stations and airports. These include the **EtoG** (Egnos to Galileo) programme supported by ENAV and the Italian Space Agency, which aims to prepare Italian air traffic for the widespread use of satellite navigation based on Egnos.

For ENAV, Telespazio has developed a Galileo system simulator, covering the space, ground and user segments. The Galileo simulator was conceived as a prototype in the first phase of the STENAV programme in 2002. This further upgrade is a "laboratory" that can be used to experiment with different navigation algorithms and testing models of the main physical phenomena that affect position calculation. The simulator tests innovative applications based on services that will be offered by Galileo.



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