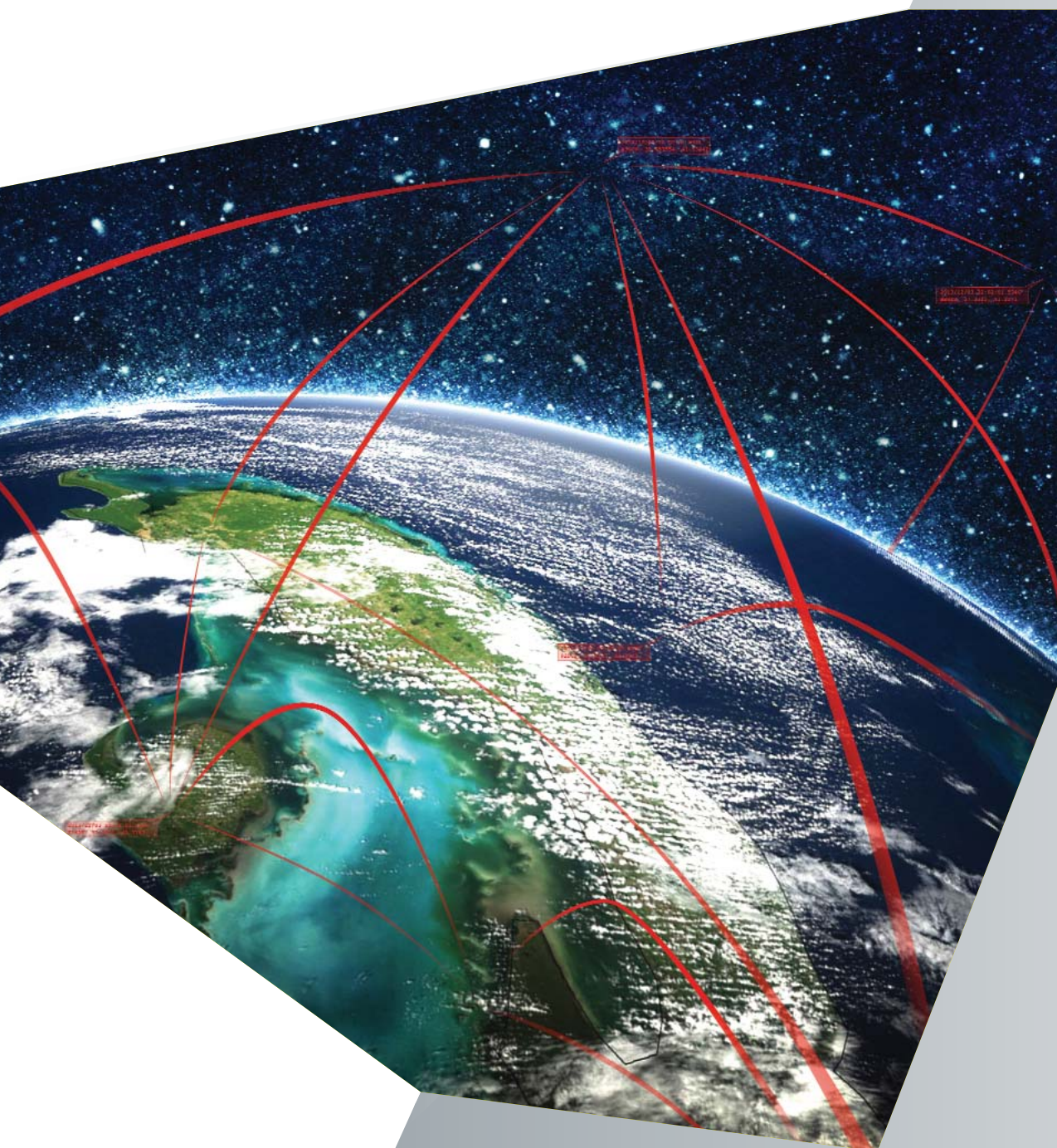




# Telespazio

A Finmeccanica/Thales Company

Telespazio VEGA Deutschland



# TELESPAZIO VEGA DEUTSCHLAND

Telespazio VEGA Deutschland is a well-established engineering services, technology development, and consulting business. Over the past 30 years, it has built up a first-class reputation in high-technology markets, where quality and reliability are essential. Its roots lie in the Space market and the experience it has developed there brings benefits to its other core markets of Aviation and Defence.

Telespazio VEGA Deutschland was created in early September 2012 when Telespazio Deutschland and VEGA Space GmbH merged into one company with approximately 400 employees. Its headquarters are in Darmstadt, close to the European Space Operations Centre and EUMETSAT. The company has also an office near the German Space Operations Centre near Munich. As part of the Telespazio Group, it shares the global outreach of its parent company to the benefit of clients in the heart of Europe.

## The Markets we Serve

Telespazio VEGA Deutschland develops high-reliability, software intensive systems and provides a complete range of systems engineering services to support the full lifecycle of Space programmes. It is deeply involved in scientific, meteorological, earth observation, telecommunications, navigation and exploration programmes, including human spaceflight. Its client base is global and its customers include institutional, commercial, and military organisations.

For many years, Telespazio VEGA Deutschland has been serving Defence clients with a portfolio of products and services derived from its Space experience. It is seen as a leading company and innovator in the field of training systems, particularly for military aircraft. Its expertise in the fields of satellite navigation, reconnaissance and telecommunication, as well as space situational awareness, is bringing increasing benefit to its clients.

The Aviation market is undergoing considerable change, enabled partially by advances in satellite technology for navigation, communications, and weather forecasting. Telespazio VEGA Deutschland participates in national and European research programmes while developing a number of products and services to support this change.





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## DELIVERING RESULTS TODAY

### Designing, Building, and Maintaining

Telespazio VEGA Deutschland is a pragmatic company, focused on delivering systems and services, which meet client requirements and schedules. It develops turnkey, software intensive systems for all elements of the space ground segment. This includes monitor, control, and planning systems, as well as highly complex and de-centralised processing systems for earth observation missions. Telespazio VEGA Deutschland designs and develops simulators for all phases of the programme lifecycle, from initial concept through to support of the mission with the spacecraft in orbit.

The staff is highly-qualified in aerospace engineering and they supply systems engineering support in all phases and for all types of Space programme. Such services are provided by individual staff with specific expertise or by teams working under Service Level Agreements with the clients.

### Operating the Systems

The parent company, Telespazio, is one of the world's main operators in satellite management with teleports in Italy, Brazil, Argentina, and Romania. The roots of Telespazio VEGA Deutschland lie in satellite and ground segment operation and it is a major partner of the European Space Operations Centre (ESOC), the German Space Operations Centre (GSOC), and EUMETSAT in this area.

Operations teams are supported by simulation-based training systems, developed by Telespazio VEGA Deutschland. These help prepare them ideally for their tasks, especially in dealing with emergency or contingency situations. This simulation-based approach to training has helped the business establish itself as one of the leading companies in training systems in the Defence market.

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## PREPARING FOR TOMORROW

Telespazio VEGA Deutschland is proud of its track record of innovation in the Space domain. It is constantly looking for ways of doing things better, faster, and more cost-effectively. The company manages an on-going programme of studies and prototyping, designed to enhance and evolve its product portfolio. This addresses such topics as security, automation, telerobotics, cloud technology, advanced telecommunications protocols, and next generation control systems. Fitting well with its strategy for preparing for tomorrow is its involvement in the Centre for Satellite Navigation in Hessen (cesah) GmbH, a German company that runs the ESA Business Incubator in Darmstadt. In addition to being a founder-shareholder of cesah, Telespazio VEGA Deutschland provides executive management of the company, which every year identifies and supports approximately ten start-up companies in the satellite navigation sector.

## EXPLOITING SPACE TECHNOLOGY

In addition to innovating in the space domain, Telespazio VEGA Deutschland has a programme which addresses the use of Space technology in other professional market areas. Satellite navigation, communications, and remote sensing hold great potential for supporting innovation in the energy, logistics, and transport markets. The company focuses on the Aviation domain and participates in several research and development programmes. Here Telespazio VEGA Deutschland works with partners in designing the applications that will re-shape tomorrow's Aviation market.



Telespazio VEGA Deutschland is developing the Mission Control System and the Simulator for the 2016 ExoMars mission

The ESOC Control room: Our Systems and Engineers working at the heart of Europe's space missions



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