



D-Orbit Joins REACTS to Build European Responsive Space Systems Architectures

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The contract will provide an analysis of resilient and scalable Network of Responsive Space Systems able to launch satellites and commence data delivery within a timeframe of 72 hours

Fino Mornasco, Italy, February 15, 2024: [D-Orbit](#), a leading space logistics company, has been selected to join the Responsive European Architecture for Space (REACTS) project, funded under the European Defence Fund (EDF) 2022. As part of this innovative collaboration, D-Orbit will focus on the use of orbital transfer vehicles (OTVs) within responsive space systems.

REACTS is designed to enhance European defense capabilities through a robust, scalable network of Responsive Space Systems (RSS). This initiative focuses on rapidly deploying satellites and initiating data delivery within 72 hours. The project, which will last 22 months, encompasses developing a comprehensive architecture aligned with end-user needs, formulating operational concepts, and charting a roadmap for technical and governance aspects of the RSS network. It also includes analyzing and defining RSS interface standards and designing a software framework to simulate and enhance responsiveness in space operations.

The consortium brings together a diverse group of 35 companies from 13 countries that includes Germany, France, Spain, Italy, the Netherlands, Norway, Romania, Bulgaria, Austria, Luxembourg, Lithuania, Poland, and the Czech Republic. Each company's unique expertise and resources contribute significantly to the development of the Responsive Space Systems, underlining the project's broad geographic and strategic reach across Europe.

D-Orbit's involvement in the REACTS project involves a detailed study on the utilization of OTVs in Europe's future responsive space systems. The study will identify missions requiring OTVs for tasks like reaching specific orbits or distributing satellites across multiple orbits. It will also define OTV requirements, including propulsion needs and payload interfaces, and cover OTV logistics, storage, and ground management.

*"Our participation in REACTS marks a significant milestone in D-Orbit's journey," said **Stefano Antonetti, D-Orbit's VP of Business Development.** "This contract offers an opportunity to leverage our expertise in space technology for the advancement of Europe's strategic interests. The work on OTVs will not only enhance our capabilities but also strengthen Europe's position in responsive space systems, ensuring readiness and agility in the face of evolving challenges."*

Drawing on its experience from successfully designing, manufacturing, and operating 13 missions with their proprietary ION Satellite Carrier, D-Orbit's role in assessing OTV capabilities, defining technical specifications, and overseeing integration logistics is pivotal within the broader REACTS program.

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About D-Orbit

D-Orbit is a market leader in the space logistics and transportation services industry with a track record of space-proven services, technologies, and successful missions.

Founded in 2011, D-Orbit is the first company addressing the logistics needs of the space market. ION Satellite Carrier, for example, is a space vehicle that can transport satellites in orbit and release them individually into distinct orbital slots, reducing the time from launch to operations by up to 85% and the launch costs of an entire satellite constellation by up to 40%. ION can also accommodate multiple third-party payloads like innovative technologies developed by startups, experiments from research entities, and instruments from traditional space companies requiring a test in orbit. The whole, fully redundant ION can be rented for edge computing applications and space cloud services to provide satellite operators with storage capacity and advanced computing capabilities in orbit.

D-Orbit's roadmap includes becoming a relevant player in the in-orbit servicing market, which is forecasted to become one of the largest, growing markets within the space sector.

D-Orbit has offices in Italy, Portugal, the UK, and the US; its commitment to pursuing business models that are profitable, friendly for the environment, and socially beneficial, led D-Orbit S.p.A. to become the first certified B-Corp space company in the world.

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