



## **D-Orbit UK Wins a Bid for Space-Based Climate Observation Service Phase A Study**

*The NewSpace company will be working with Thales Alenia Space UK (TAS-UK) and the University of Leicester (UoL) to design a commercial service for the measurement of NO<sub>2</sub>, Aerosols, and CO<sub>2</sub> levels in individual cities and industrial complexes.*

**Harwell, December 7<sup>th</sup>, 2020:** D-Orbit UK, the English branch of the space transportation company D-Orbit, won a bid issued by the UK Space Agency for a £183k commercial and technical feasibility study to investigate the viability of an Earth observation system for climate change. The project, called CitiScan, aims to develop a new, responsive space-based localized emissions observation service to support local authorities in their goal to achieve national and global climate obligations toward a target of net zero emission.

D-Orbit UK will be working with Thales Alenia Space UK (TAS-UK) and the University of Leicester (UoL) to design a commercial service, accessible to the end users, to measure the level of NO<sub>2</sub>, Aerosols, and CO<sub>2</sub> of individual cities and industrial complexes.

While TAS-UK will focus on miniaturizing their existing instruments to fit a CubeSat structure and the University of Leicester will investigate the user/data interface through data processing methods and techniques, D-Orbit UK will focus on implementing an end-to-end service in order to speed up the development of Earth Observation missions through design, test, launch all the way through to commercialization. In particular, D-Orbit UK will investigate an in-orbit demonstration and validation (IOD/IOV) experiment that will leverage the IOD/IOV capabilities of ION Satellite Carrier, a satellite deployment platform and technology demonstrator developed and operated by parent company D-Orbit.

*“We are very happy to be working with our partners TAS-UK and the University of Leicester on this project, which aims to develop a new, responsive, space-based climate observation service that contributes to both national and global obligations”, says Simon Walker, D-Orbit UK Head of Business Development. “This contract further enhances our role as partner to wider UK industry, applying New Space approaches to deliver fast, effective development of technologies that are beneficial to society”.*

The commercial and technical feasibility study, which will last until the end of February, will include an end-to-end demonstration of the new capabilities of D-Orbit’s mission control suite Aurora. If successful, the project could receive additional funding in view of an in-orbit demonstration.



## About D-Orbit

D-Orbit is a New Space company with solutions covering the entire lifecycle of a space mission, including mission analysis and design, engineering, manufacturing, integration, testing, launch, mission control, and end-of-life decommissioning.

The company's competitive advantage is the versatility of its launch and deployment services that can be tailored to the customer's needs, from the launch procurement of a single spacecraft using standard deployment strategies to the precise deployment of a full constellation with ION Satellite Carrier, a satellite dispenser developed and operated by D-Orbit.

ION Satellite Carrier can host a batch of CubeSats or microsats with a total volume up to 64U or 160kg of mass and release them individually into distinct orbital slots, enabling deployment schemes previously unavailable to spacecraft with no independent propulsion.

Committed to pursuing business models that are profitable, friendly for the environment, and socially beneficial, D-Orbit is the first certified B-Corp space company in the world.

Headquartered in Como, Italy, D-Orbit has subsidiaries in Lisbon, Portugal, Harwell, UK, and Washington DC, USA.

For more information, do not hesitate to get in touch with:

Elena Sanfilippo Ceraso – Media Manager  
[elena.sanfilippo@dorbit.space](mailto:elena.sanfilippo@dorbit.space)

Caterina Cazzola – Head of Communications  
[caterina.cazzola@dorbit.space](mailto:caterina.cazzola@dorbit.space)  
+39 340 2840 792

Follow us on:

LinkedIn: [www.linkedin.com/company/d-orbit](http://www.linkedin.com/company/d-orbit)  
Facebook: [facebook.com/deorbitaldevices/](https://facebook.com/deorbitaldevices/)  
Twitter: [twitter.com/D\\_Orbit](https://twitter.com/D_Orbit)  
Instagram: [instagram.com/wearedorbit/](https://instagram.com/wearedorbit/)