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## Very High Throughput Satellite – Ground Optical Feeder Link

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### D.7.3 – Press release 1

| General Project informations |   |
|------------------------------|---|
| Type of Action               | Research and Innovation Action (RIA)                      |
| Project name :               | Very High Throughput Satellite-Ground Optical Feeder Link |
| Project Acronym :            | VERTIGO   |
| Project number :             | 822030  |
| Starting date :              | 01/06/2019  |
| Duration :                   | 36 months   |

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|--|-------------------------|
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**Executive summary**

This deliverable reports the first project press release that was drafted to announce the start of the project.

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## List of acronyms

| Acronym | Signification |
|---------|---------------|
|         |               |
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## 1. Project press release

The project press release is illustrated below. The press release was reviewed and approved by VERTIGO consortium members. It includes the announcement of the project kick-off date, overall target, a list of the core technical objectives and a reference to the project impact. The press release also includes a list of the project partners.



### Press release European project « VERTIGO » in motion

Thales Alenia Space (*to be replaced by partner's name*) is pleased to announce the launch of VERTIGO (Very High Throughput Satellite-Ground Optical link), a 3-years H2020 collaborative project, on June 1<sup>st</sup> 2019. VERTIGO aims to develop and demonstrate concepts allowing for a significant capacity increase of feeder links through the use of state-of-the-art optical technologies. VERTIGO will address the key enabling technologies (high optical power generation, high efficiency waveforms, atmospheric impairments mitigation) for the implementation of high throughput optical links and test them in ground indoor and outdoor demonstrations thanks to a fully complementary consortium composed of Creonic GmbH (Germany), ETH Zürich (Switzerland), Fraunhofer HHI (Germany), Gooch and Housego Ltd, LEO Space Photonics R&D (Great Britain), ONERA (France), Thales Alenia Space in France and Switzerland and Thales Research & Technology. The project receives funding of 2.9 million EUR.

Next generation satellite systems will play a key role to bridge the digital divide and offer high speed connectivity for all by 2025. In this context, optical feeder links are considered as a very promising technology to meet the future VHTS system requirements. VERTIGO ambitions to pave the way towards very high throughput satellite systems and contribute to maintain EU technological leading edge and industry competitiveness.



## 2. Co-ordinator announcement

The press release was used by project partners as a basis to announce their participation in VERTIGO.

On 13/1/2020 VERTIGO was announced by TAS through the company's website – see the link below :

<https://www.thalesgroup.com/en/worldwide/space/news/green-light-vertigo-european-vhts-research-project>

### GREEN LIGHT FOR VERTIGO, A EUROPEAN VHTS RESEARCH PROJECT

01/13/2020 THALES ALENIA SPACE

SHARE

Thales Alenia Space and partners are pleased to announce the official launch of VERTIGO (Very High Throughput Satellite-Ground Optical link), a 3-year project conducted through the Horizon2020 Research & Innovation program for the European Commission. The VERTIGO project aims to demonstrate concepts based on state-of-the-art optical technologies to significantly increase feeder link capacity. VERTIGO will study the key enabling technologies for high throughput optical links (high optical power generation, high-efficiency waveforms, atmospheric disturbance mitigation) and test them on the ground in both indoor and outdoor environments. The project is coordinated by Thales Alenia Space at the head of a consortium including CREONIC GmbH, ETH Zurich, Fraunhofer IHI, Gooch and Housego Ltd, LEO Space Photonics R&D, ONERA, Thales Alenia Space in France and Switzerland and Thales Research & Technology.



Next-generation satellite systems will play a major role in bridging the digital divide and delivering high-speed connectivity for all by 2025. Optical feeder links are considered as a very promising technology to enhance significantly future VHTS (Very High Throughput Satellite) system performance. VERTIGO will facilitate the development of VHTS systems and contribute to keep Europe at the cutting edge of technology, while honing industry competitiveness.

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Figure 2-1 : VERTIGO announcement through TAS website

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