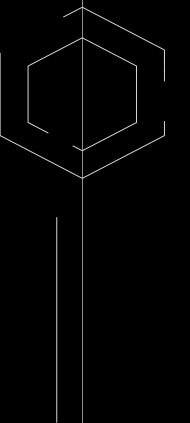




Beyond Satellites:

Balloon-Based Platforms for Connectivity and Operations in the Stratosphere

Riyadh, 14/10/2026



An aerial photograph of a rugged, snow-covered mountain range. A small, dark cabin is visible on a ridge in the upper left quadrant. The terrain is covered in snow and patches of dark rock or vegetation. The sky is a pale, hazy blue.

1- Company Introduction

BUILDING WORLD'S STRATOSPHERIC INFRASTRUCTURE

At B2Space, we design, build and operate stratospheric infrastructure for:

- Earth Observation
- Security & Defence
- Telecommunications
- Space Technology Testing



A NEW STRATEGIC LAYER

The stratosphere is the Next operational domain, filling the gap between UAS and satellites.

Stratospheric platforms enable:

- Persistent observation
- Rapid deployment
- Significant lower cost than satellites
- Wide-area coverage

The stratosphere is becoming a new layer of aerospace infrastructure.

SATELLITES

~500 km
Global coverage
High latency / cost

HAPS

~20 km
Persistence + high resolution
Low cost

DRONES / UAV

< 5 km
High resolution
Local coverage

Altitude



MARKET OPPORTUNITY

An emerging market with a strong **dual-use component**

Stratospheric Operations enable access to large markets, estimated at €10-20B over the next decade:

		
Earth Observation	Telecommunications	Defence / Security
Agriculture	Coverage in Remote Areas	Persistent Surveillance
Disaster Management	Network Resilience	Intelligence & ISR
Wildfires		Resilient Communications

Opportunity: There are very few operators capable of operating globally in the stratosphere, and in Europe, **B2Space is leader**.

World Economic Forum Names HAPS a Top 10 Emerging Technology - HAPS Alliance



WHAT B2SPACE DOES

Stratospheric operations as a service

B2Space develops and operates stratospheric platforms using high-altitude balloons.

Our model is based on **operations and services**, not just hardware. Three main business lines:

Near Space Testing

- A flying laboratory to test space technologies

HAPS Missions

- Stratospheric platforms for Earth Observation (Data acquisition), Defence and Telecommunications

Rockoon Launch

- Launch of small satellites from the stratosphere.

This enables **recurring revenues based on operations and services**.

For the defence sector, our platforms are also offered as a product (“HAPS in a box”), with 4 units already sold to the UK Ministry of Defence.



COMMERCIAL TRACTION

A strong order book with prestigious clients



Some of our clients and partners:

MILESTONES

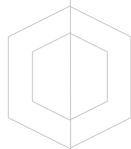
50+ flights across multiple campaigns

Operations in UK, Spain and Saudi Arabia

+ EUR 6M B2B sales

+ EUR 40M B2B pipeline

+ EUR 6M R&D grants



startical



indra



Southampton UNIVERSITY OF



QINETIQ





2- Balloon-Based Platforms for Connectivity and Operations in the Stratosphere

THE MISSING LINK BETWEEN AVIATION AND SPACE

The case for operating network capacity at 20 kilometres

ESA and the wider industry describe high-altitude platforms as the missing link between uncrewed aircraft and satellites. For connectivity, four properties define their value.

Proximity to the user

At 20 kilometres, a platform operates approximately 27 times closer to the ground than a satellite in low Earth orbit. The shorter path supports service to standard devices without specialised terminals.

Persistence over the area of interest

A satellite is overhead for seconds on each pass. A stratospheric platform remains over the same area for hours or days, without handovers and without the prior deployment of a constellation.

Wide-area coverage

A single platform at 20 kilometres serves an area extending to approximately 500 kilometres, operating above terrain, weather and terrestrial interference.

Regulatory readiness

Spectrum for high-altitude platform stations is already recognised internationally. The remaining work is national authorisation and integration into controlled airspace.



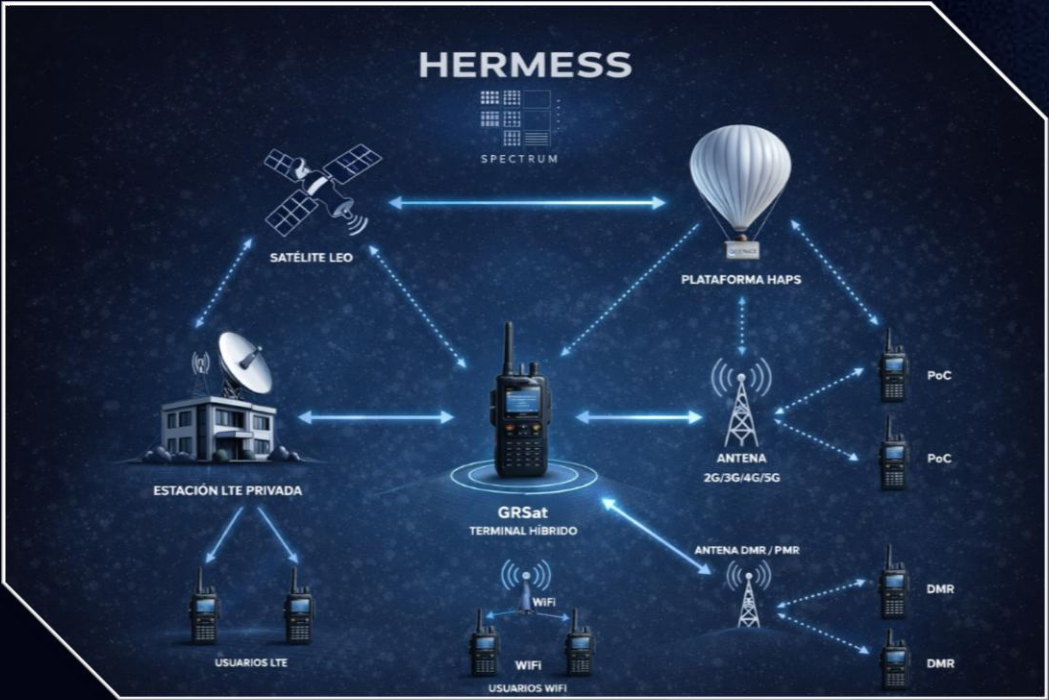
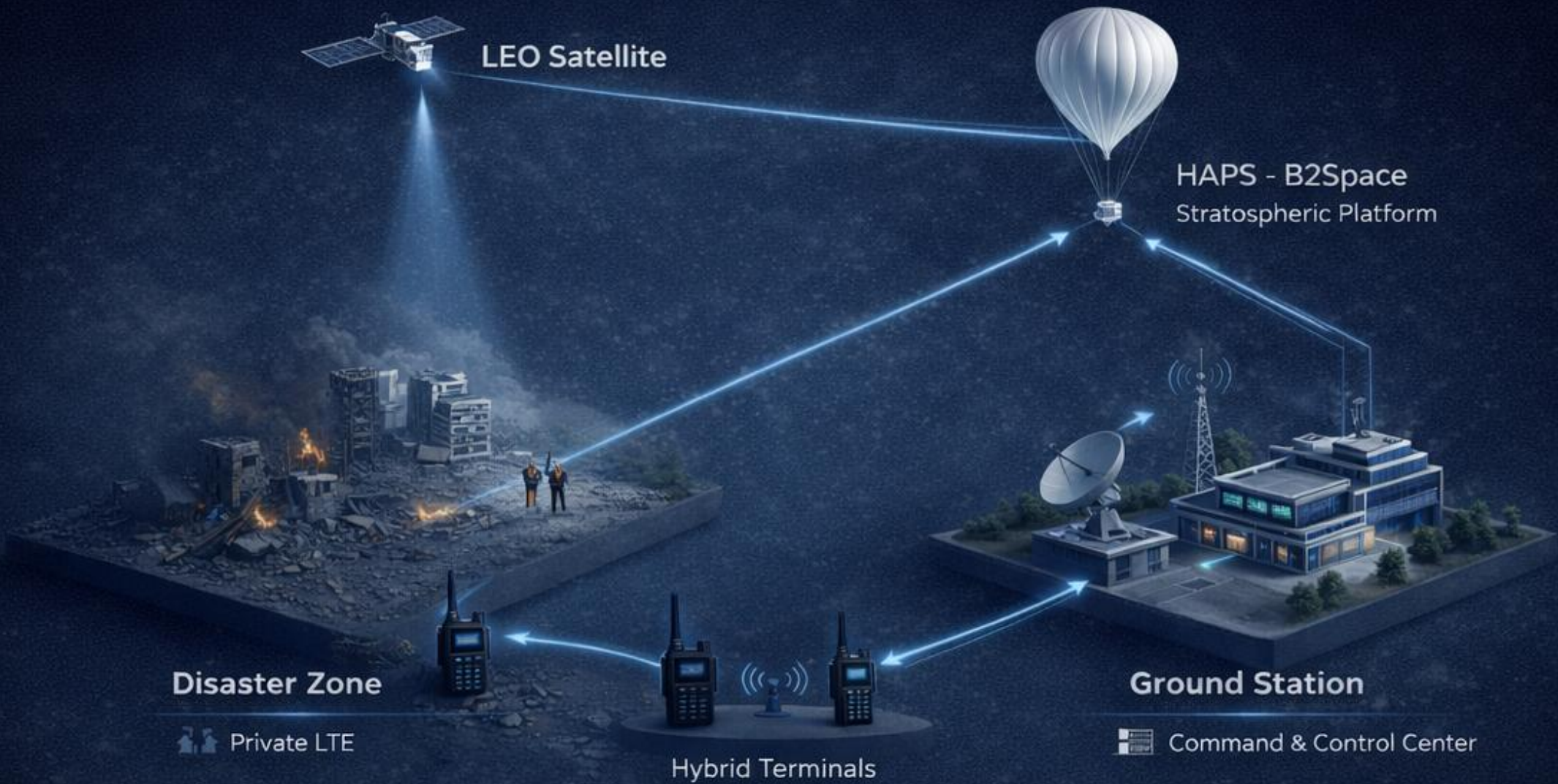
USE CASES - HERMESS

HERMESS is an emergency communications system that combines LEO satellites and stratospheric HAPS platforms to ensure reliable connectivity where traditional networks fail.

Its hybrid architecture allows global and regional coverage, low latency and rapid deployment, improving coordination in critical situations.

Developed by a consortium led by B2Space, FOSSA, GRS and Multiverse, it seeks to create a resilient, interoperable solution ready to operate in any environment.

HERMESS is used to respond quickly to emergencies, as they happen, with near-real-time data.



USE CASES - PLESGINT

PLESGINT is a project aimed at developing a geointelligence system for rapid emergency management.

It combines stratospheric HAPS platforms, on-board artificial intelligence and 5G NTN communications to monitor large areas in near real-time.

It allows events such as fires, spills or floods to be detected and only the relevant information to be sent, improving efficiency and reducing response times.

Developed by a consortium led by Sateliot, B2Space, Ubótica and CATEC, it seeks to create a flexible, persistent and scalable solution compared to traditional systems.

PLESGINT performs continuous monitoring to analyze, detect patterns and anticipate situations before they occur.



Image generated with AI by B2Space



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