



# **HAPS Alliance**

HIGH ALTITUDE PLATFORM STATION

# **HAPS Alliance Member Achievements**

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Updated as of Q3 2023

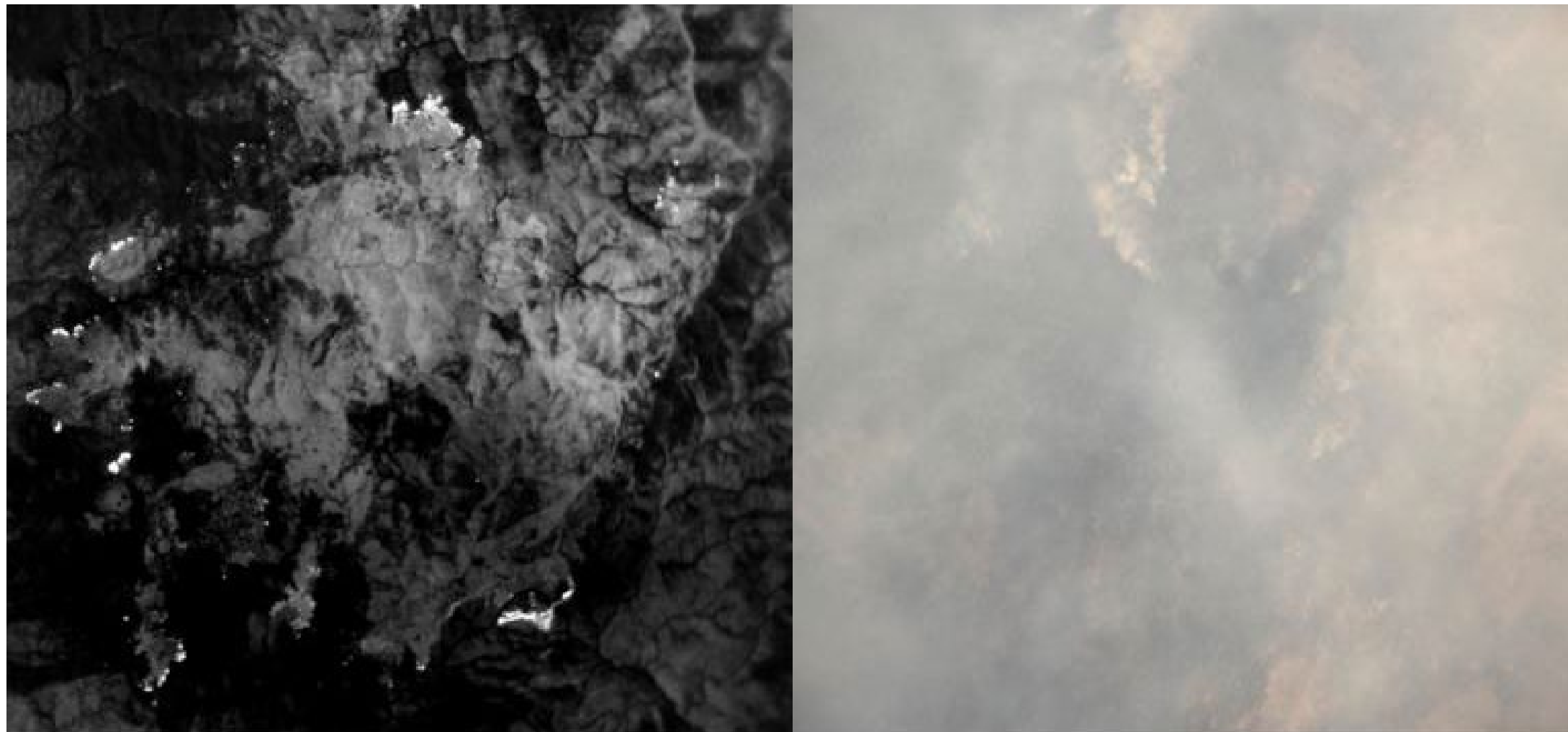


# Aerostar

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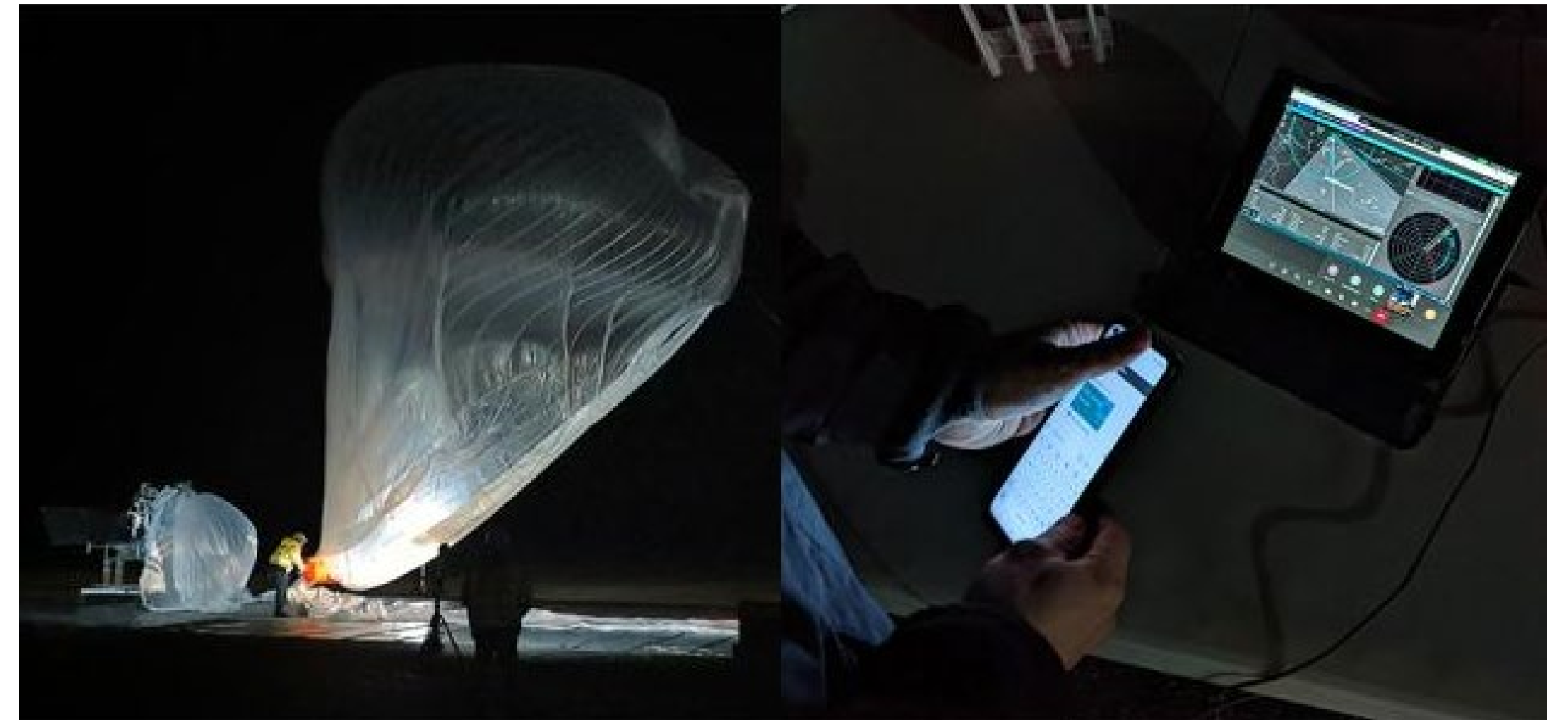
**September 2021**

Aerostar Uses Stratospheric Balloon Technology to Monitor Wildfires  
Details



**April 2022**

Aerostar Provides Cellular Connectivity from the Stratosphere Via Thunderhead Balloon System  
Details



# Aerostar

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## August 2022

Aerostar teams up with NASA and Forest Service to test special balloons in Northwest to monitor large wildfires.

### Details



## May 2023

Stratospheric balloons reach new heights in U.S. only months after crisis with China

### Details





# Aerostar

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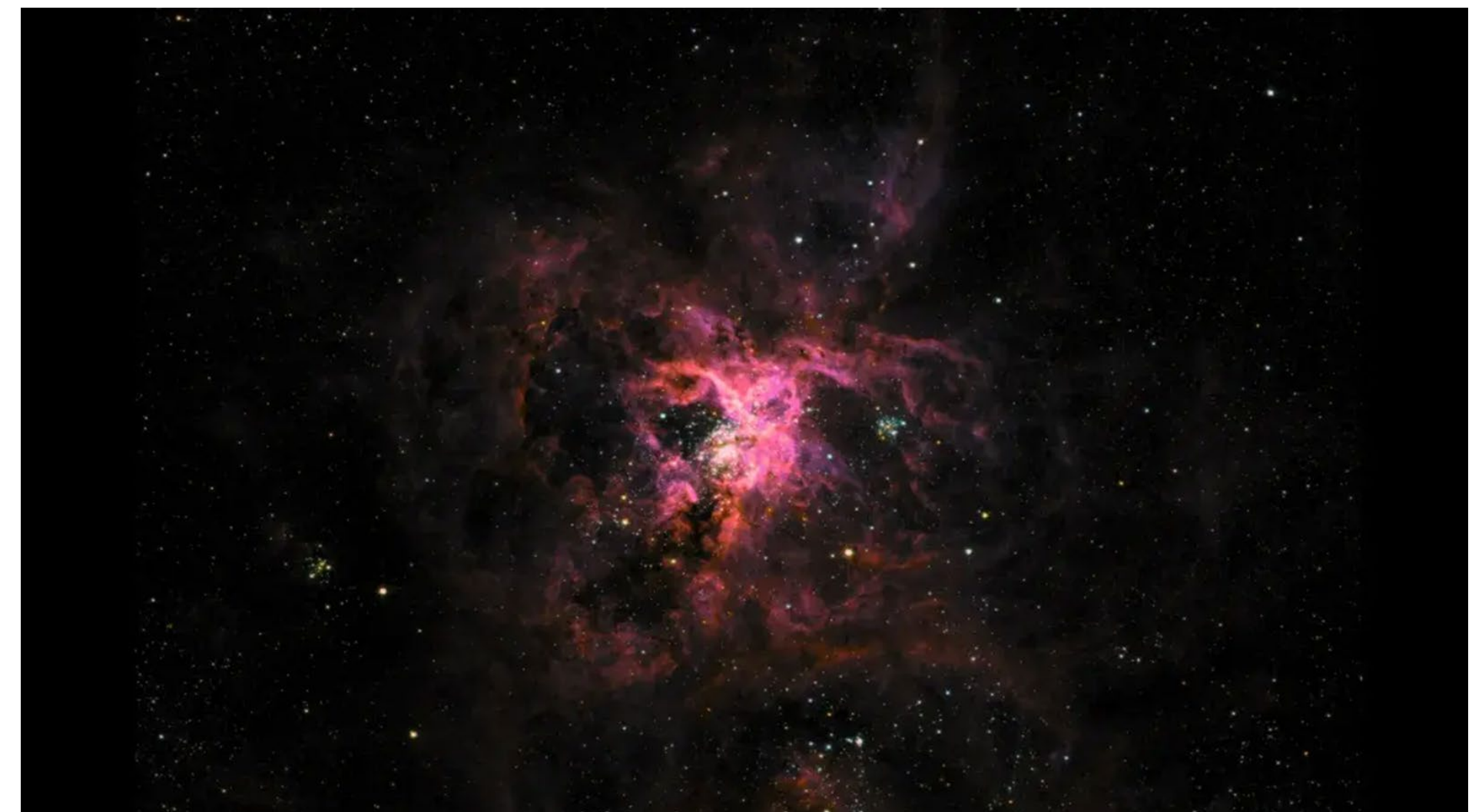
**March 2023**

Aerostar Thunderhead Balloons Complete  
150+ Day World Tour  
**Details**



**May 2023**

NASA Successfully Completes Globetrotting  
SuperBIT Balloon Flight  
**Details**





# Airbus / AALTO HAPS

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## November 2022

Airbus partners with Space Compass to serve the Japanese market with mobile connectivity and earth observation solutions

### Details



## January 2023

Airbus to spin out pioneering solar-powered drone programme

### Details

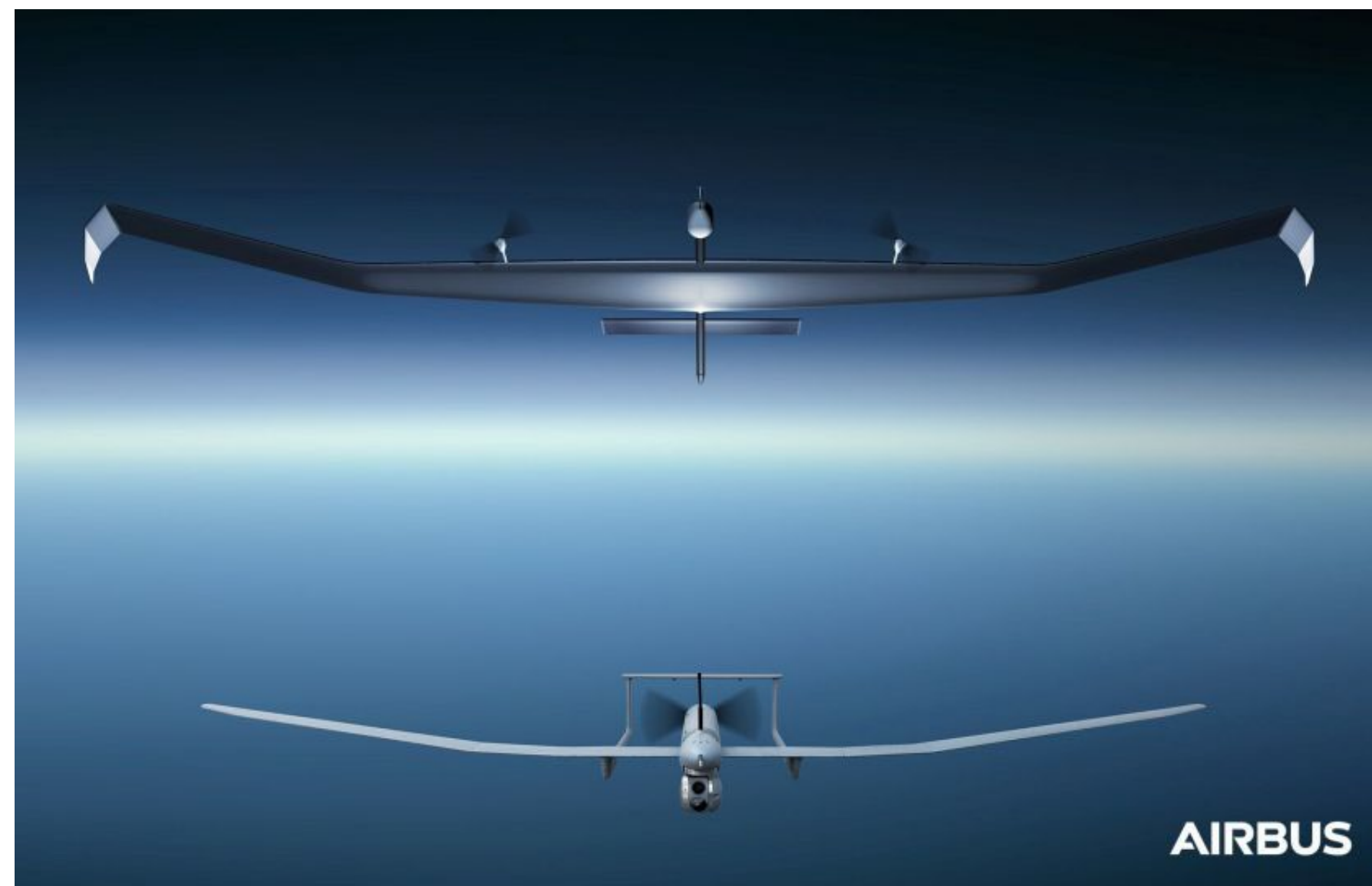


# Airbus / NTT Docomo

**August 2021**

NTT Docomo, Airbus collaboration to use high altitude systems to expand 5G and 6G commercial connectivity

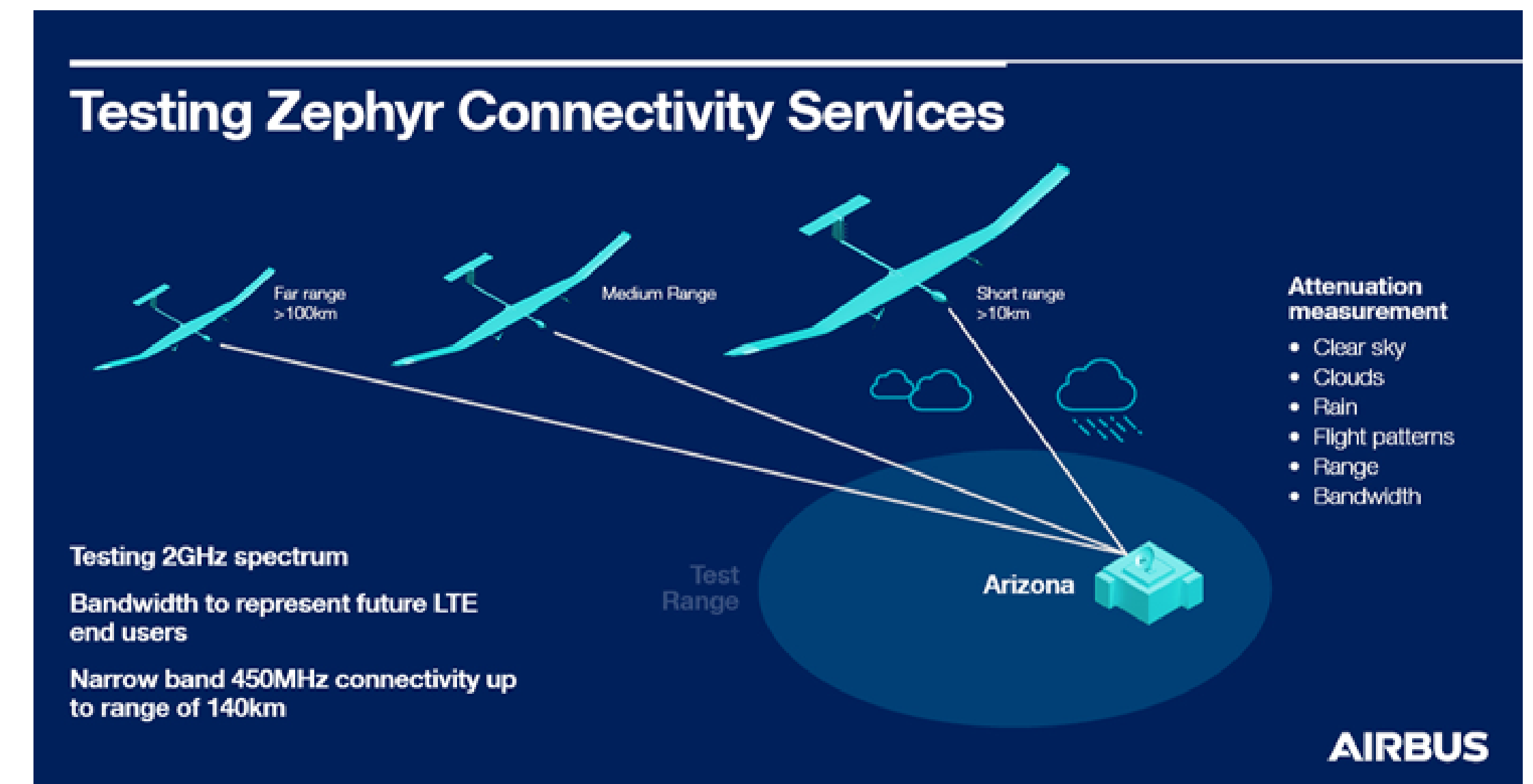
**Details**



**November 2021**

Zephyr High Altitude Platform Station (HAPS) achieves connectivity in trial conducted by Airbus and NTT DOCOMO

**Details**



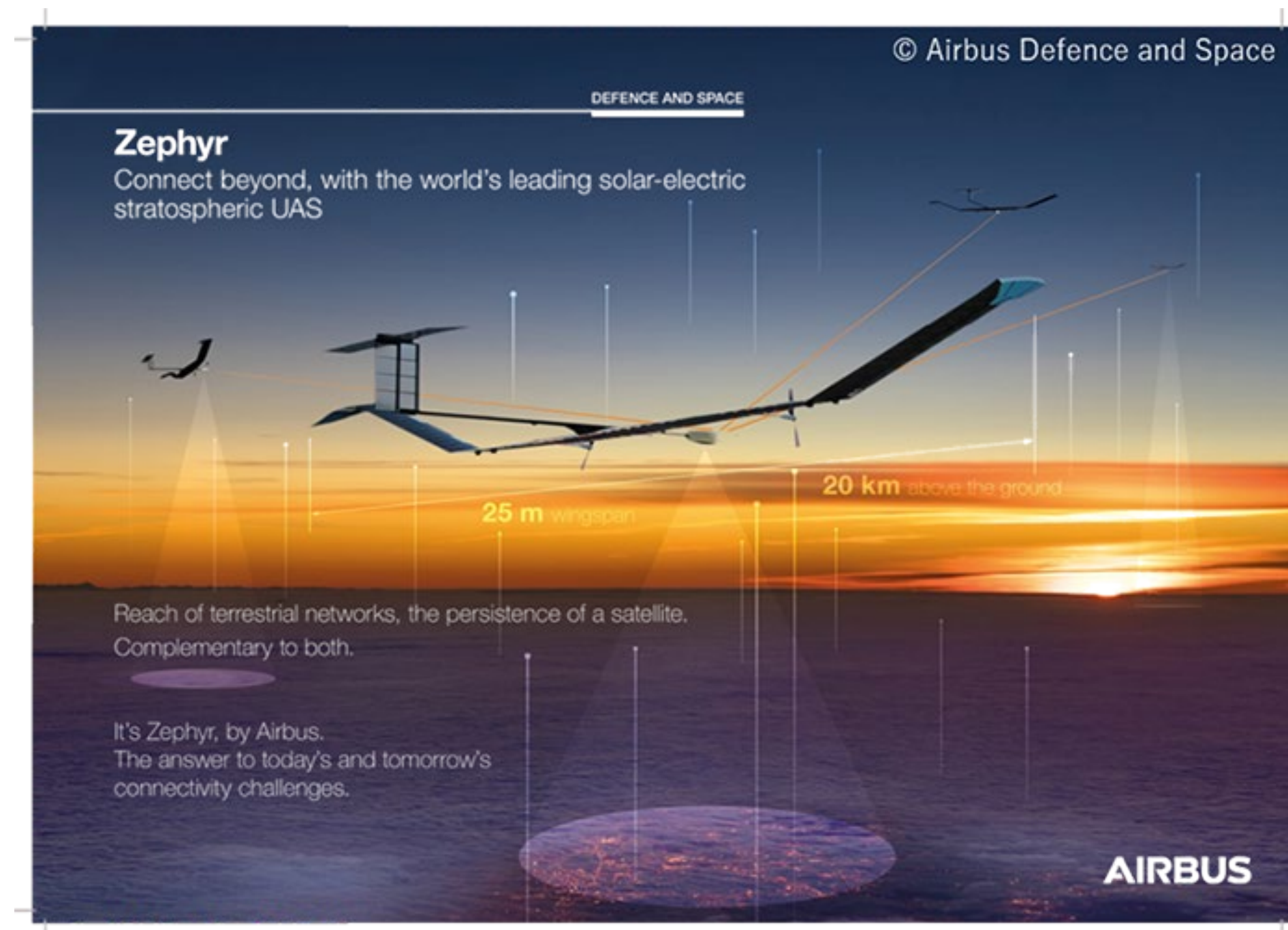


# Airbus / NTT Docomo / SKY Perfect JSAT

January 2022

Airbus, NTT, DOCOMO and SKY Perfect JSAT Jointly Studying Connectivity Services from High-Altitude Platform Stations (HAPS) - Targeting future global wireless-connectivity services combining satellites and HAPS

## Details



# Deutsche Telekom

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February 2023

Deutsche Telekom and European Space Agency strive for maximum resilience

Details



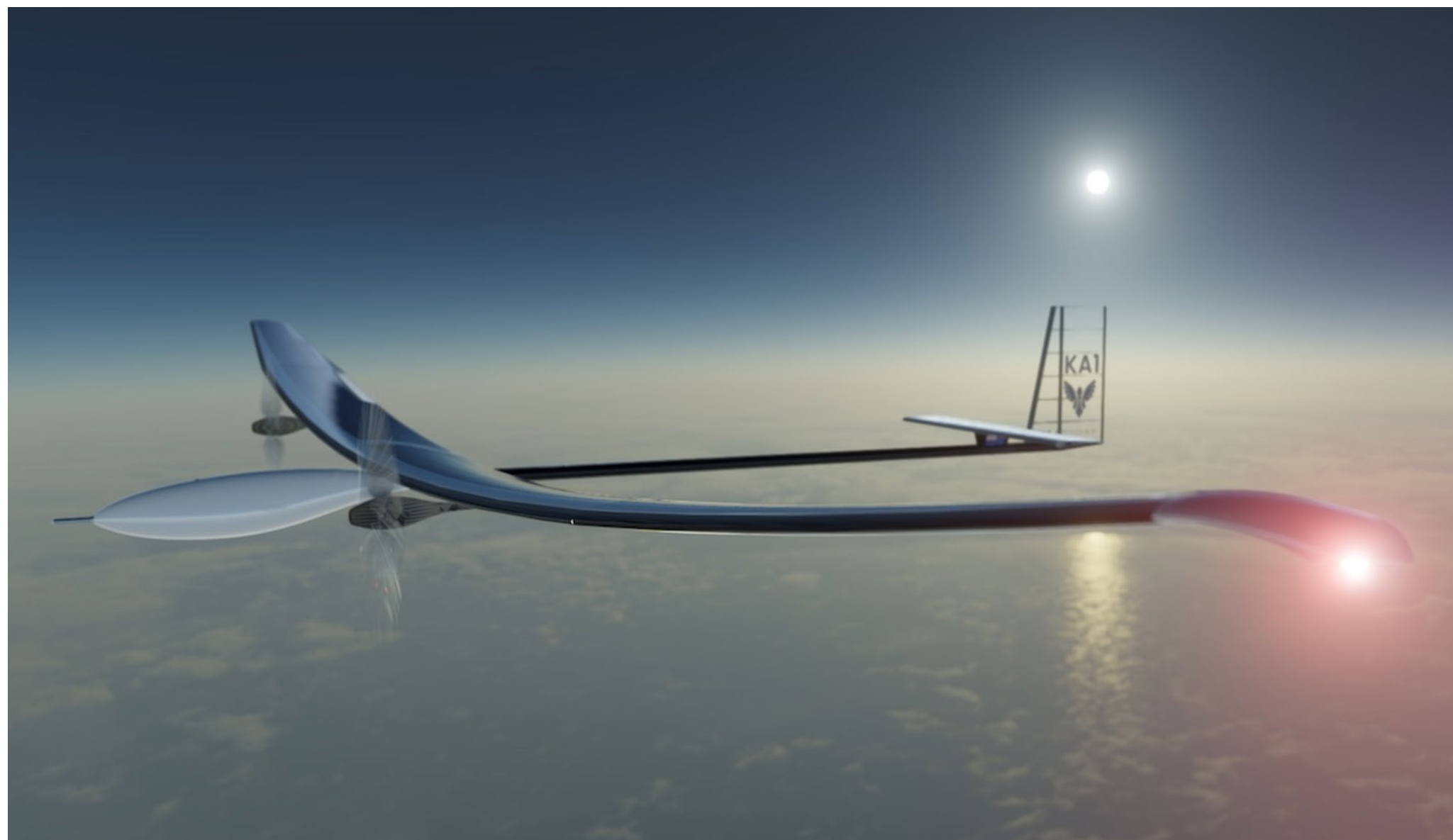


# Kea Aerospace

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**September 2022**

New Zealand Stratospheric Aircraft Design  
Unveiled  
Details



**March 2023**

Kea Atmos Mk1 Stratospheric Aircraft Takes  
Flight  
Details





# Prismatic/BAE Systems

July 2023

BAE Systems' HAPS UAS successfully completes stratospheric flight  
Details





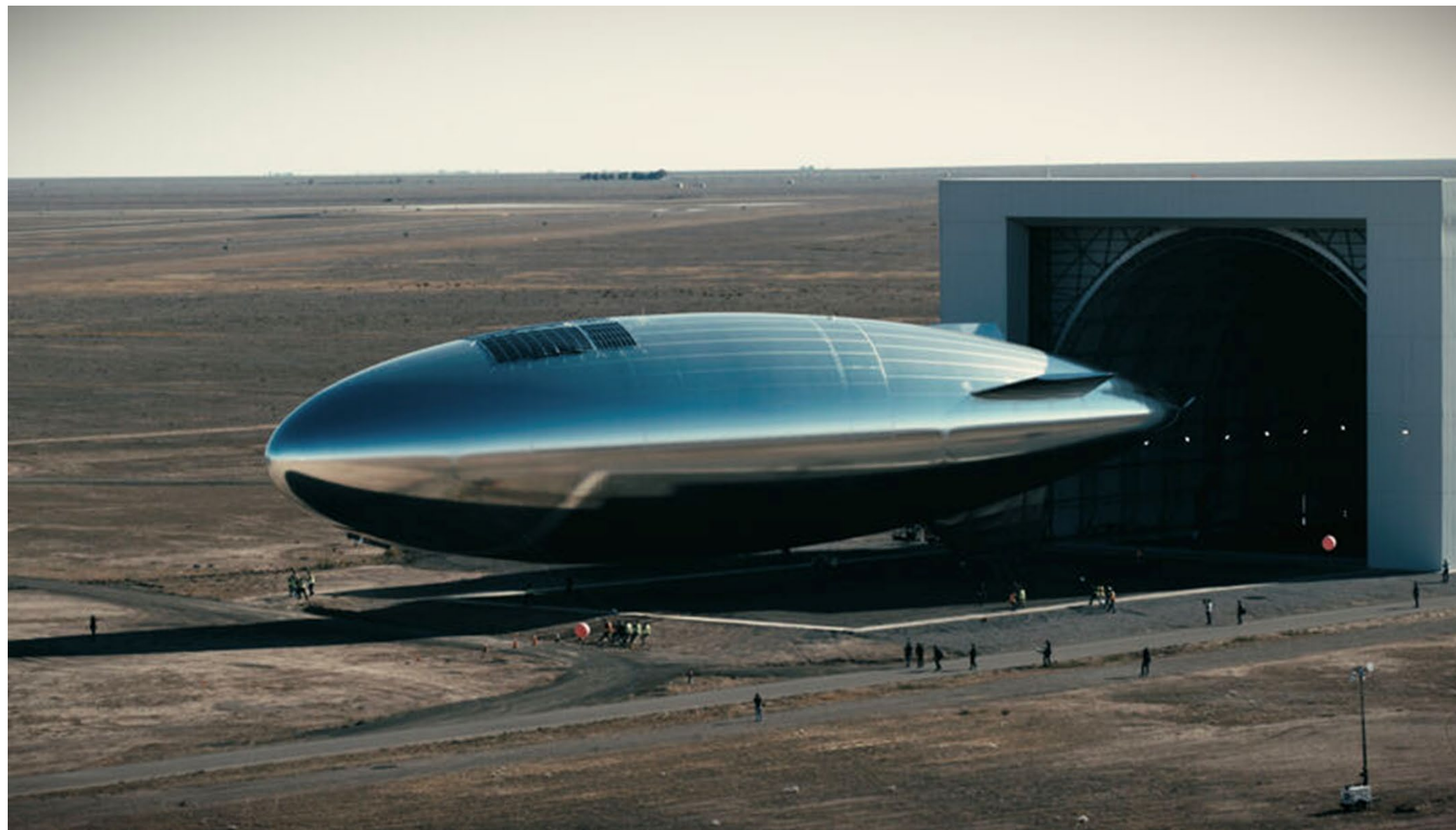
# Sceye

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**August 2021**

EPA, New Mexico collaborate with Sceye on air quality monitoring initiative

Details



**March 2022**

Sceye Tests Automated Ascent and Reaches the Stratosphere Again

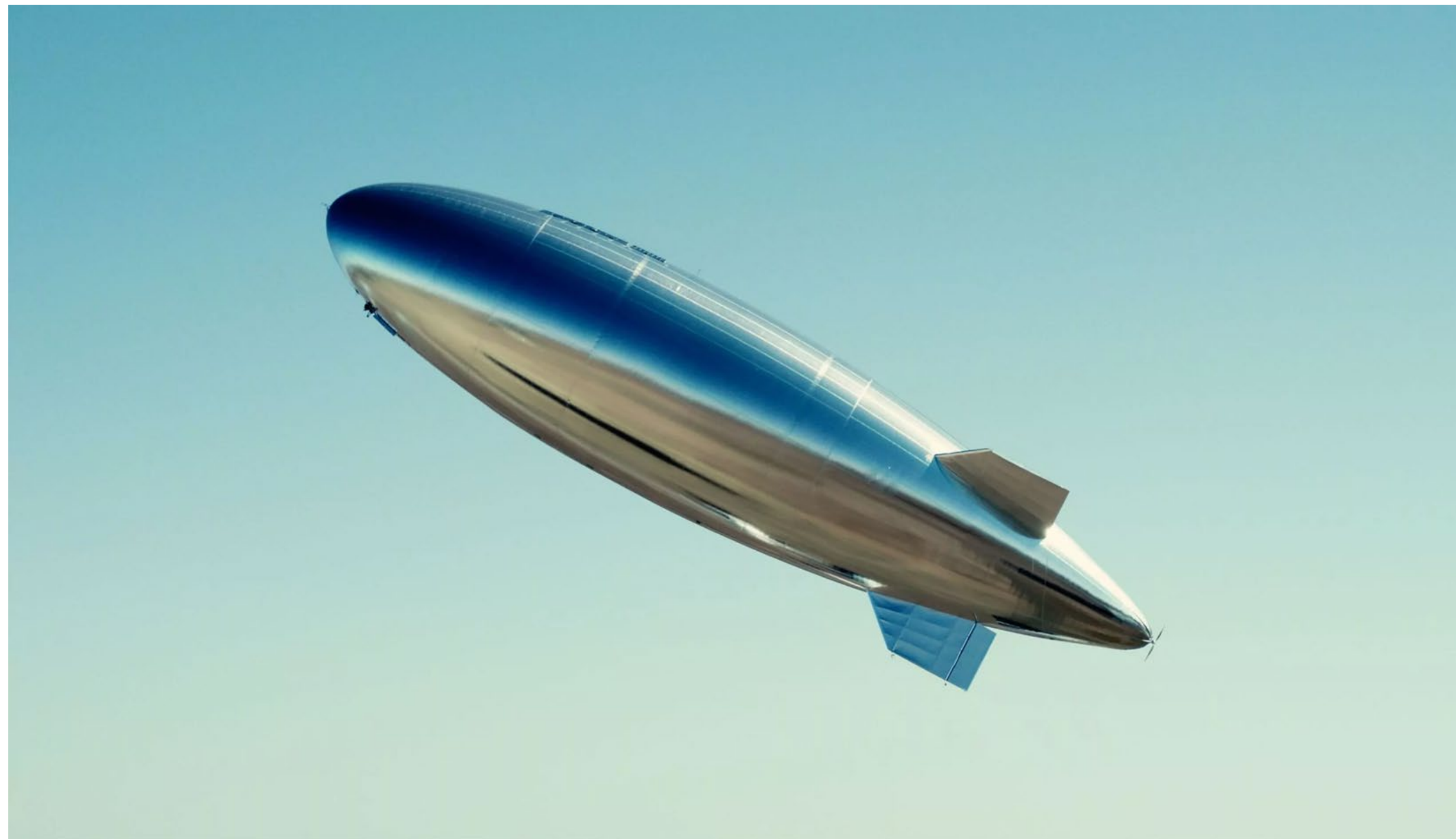
Details





June 2022

## Sceye HAPS Ascend to Stratosphere Using Renewable Energy Sources Details





# HAPSMobile / SoftBank

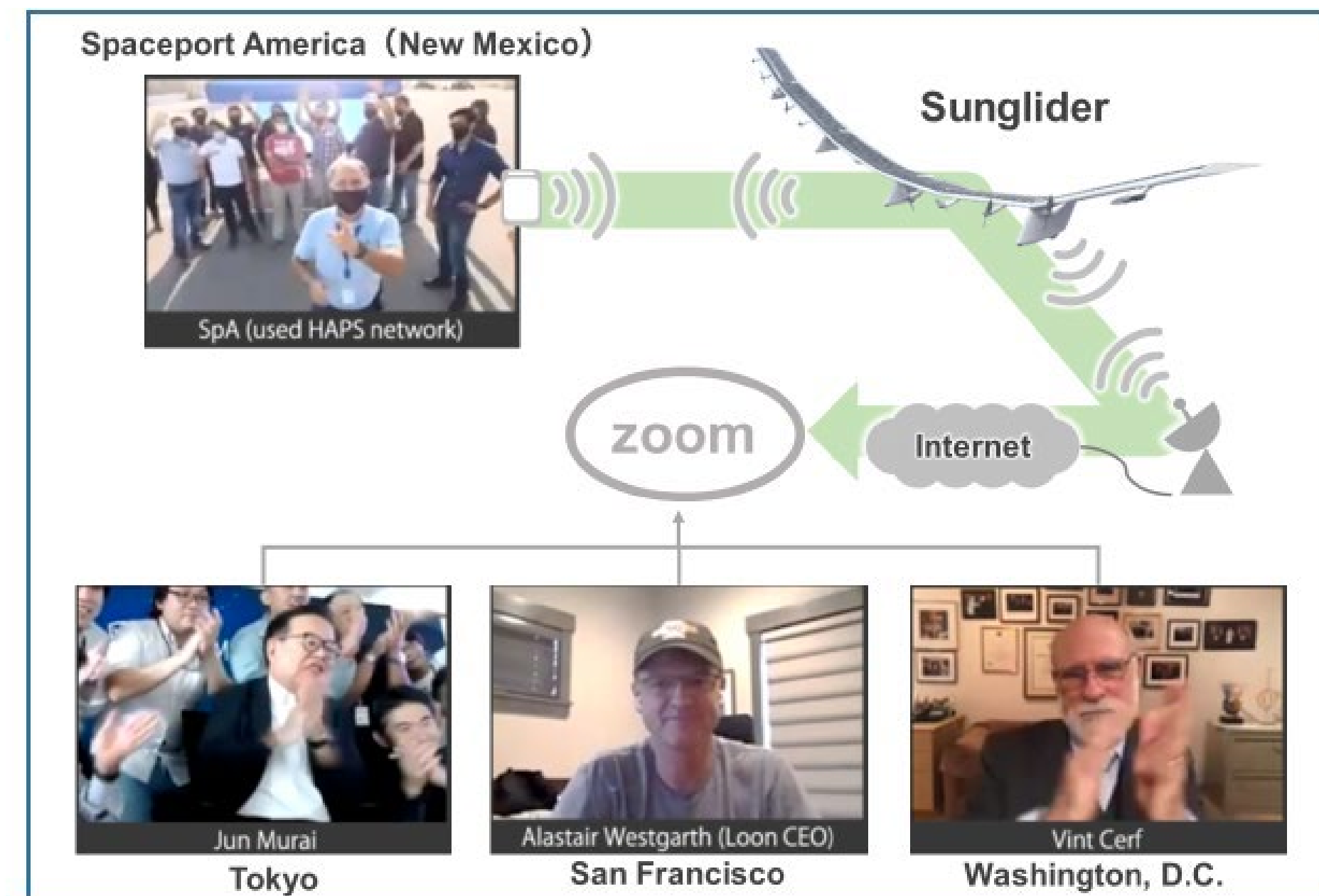
October 2020

HAPSMobile's Sunlider Succeeds in  
Stratospheric Test Flight  
Details



October 2020

HAPSMobile and Loon First in the World to  
Deliver LTE Connectivity from a Fixed-Wing  
Autonomous Aircraft in the Stratosphere  
Details





# HAPSMobile / SoftBank

## September 2021

SoftBank Corp. and HAPSMobile Accelerate High Altitude Platform Station (HAPS) R&D to Provide Stable and High-quality Connectivity for Future Commercial Services

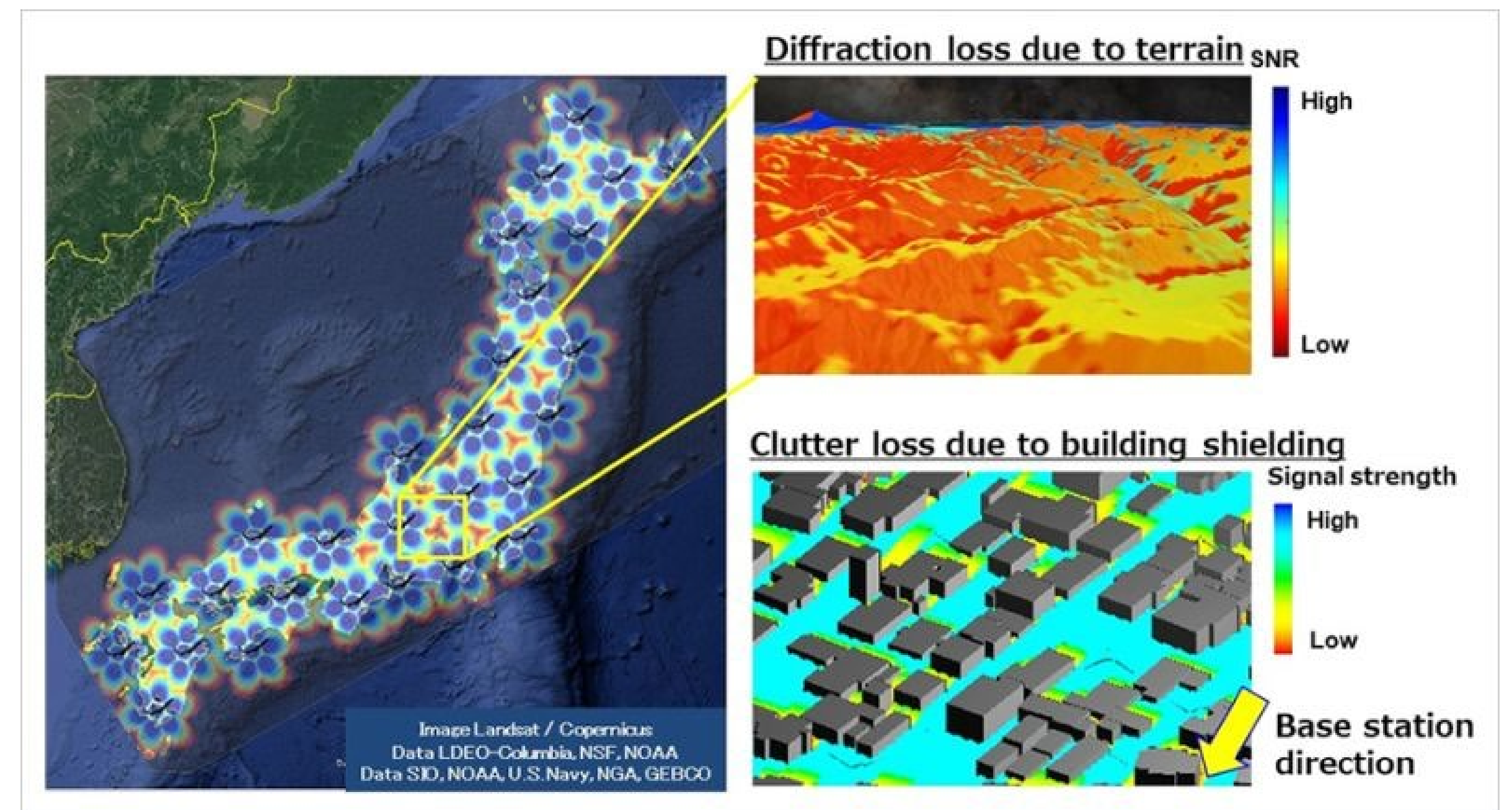
### Details



## November 2022

SoftBank Corp. and HAPSMobile Develop Radiowave Propagation Simulator for HAPS Based on ITU-R Global Standard

### Details





# HAPSMobile / SoftBank

## March 2023

SoftBank Corp. Develops Battery Pack with Next-generation Lithium-metal Battery Cells and Successfully Demonstrates Operation in the Stratosphere

### Details



## June 2023

SoftBank Corp. and Nidec Jointly Develop Light-weight, High-efficiency and High-reliability Motor for High Altitude Platform Stations

### Details





# Stratospheric Platforms Limited

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## March 2022

SPL Announces World First 5G Transmission from the Stratosphere

### Details



## July 2023

SPL and BT commenced a trial project for demonstration of SPLs super scale phased array antenna integrated into BTs network. A section of the antenna will be mounted on a tall building at BT's Ad Astral Park research centre. Complex beamforming and handset separation testing will be demonstrated in an outdoor environment.

### Details



# Stratospheric Platforms Limited

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January 2023

BT Group and SPL look to the stratosphere to deliver 4G and 5G coverage to hard-to-reach areas of the UK

Details

