



SCEYE®

SCEYE'S FLIGHT PROGRAM

A JOURNEY FROM ITERATIVE DEVELOPMENT TO MARKET ACCEPTANCE

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HAPS Alliance

HIGH ALTITUDE PLATFORM STATION

SUCCEEDING WITH ITERATIVE DEVELOPMENT



Completed more than twenty test flights. Each platform increased in size, as it reached higher and higher and with increasing capacity and has since 2021 been flying in the stratosphere.

A selection of Sceye flight illustrating the iterative development process:



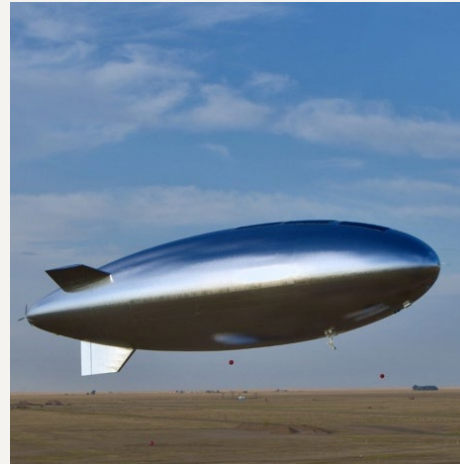
ITERATIVE PROTOTYPING

From 2016 to 2021, Sceye validated the material science and subsystems, building bigger and bigger aircrafts and flying higher and higher with each prototype.



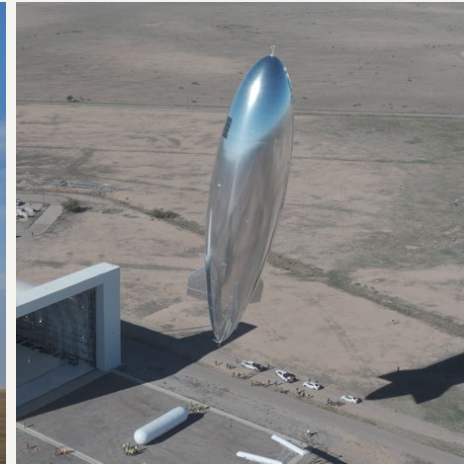
STRATOSPHERIC FLIGHT

On May 19th, 2021, SSV3 flew to the stratosphere and arrived safely at our target altitude of 64,680 ft and landed safely after testing.



DEMONSTRATION FLIGHTS

In 2022, Sceye conducted 3 demonstration flights to build strategic partnerships and prove commercial use cases like telecom, flying payloads up to 200 pounds



MATURITY PROGRAMS

Sceye completed the maturity program for launch, ascent and getting into position in the stratosphere in 2023, and recently concluded the control dynamics in 2024



COMMERCIAL ROLL-OUT

In 2025, Sceye will start the initial commercial phase while the longevity of the platform materials is tested, and the platform is mature to start serving customers.

FLIGHT MATURITY PROGRAMS

ASCENT DYNAMICS 2023

Ascent Dynamics (AD) was a series of 4 successful flights flown in 2023 that achieved the following objectives:

- ❑ *Reliable launch*
- ❑ *Reliable ascent*
- ❑ *Reliable levelling off to horizontal once in the stratosphere*

FLIGHT	DATE	ACHIEVEMENTS
1	17th May	demonstrated attitude control and pitch stability
2	1st July	Validated changes to gas cell, launch system configuration, and improved ascent procedures Verified new LOS & BLOS command and control Tested EO Optical Payload (SceyeCam®)
3	16th August	Evaluated impact of scale vehicle Tested multiple EO payloads: infrasonic sensor, portable optical particle spectrometer (POPS), radiosonde, prototype aerosol study device.
4	3rd November	Evaluated performance of Hyperspectral Camera



FLIGHT MATURITY PROGRAMS

PLATFORM DYNAMICS 2024

Platform Dynamics was our flight program flown in 2024, focused on the optimization of control surfaces and distribution of propulsion with the objective to validate a pre-commercial platform. Main milestones:

- ❑ Continued to prove reliable launch, ascent, and transition to float
- ❑ Demonstrated full diurnal capability
- ❑ Demonstrated relocation
- ❑ Tested dynamic pitch control solution
- ❑ Tested BLOS and advanced automation

FLIGHT	DATE	ACHIEVEMENTS
n/a	1st Quarter	Tested different configurations and control algorithms for pitch control to continue informing the design of the pre-commercial platform and beyond
1	3 rd June	Measured impact of day/night temperature and pressure delta in pre-commercial vehicle hull in different times of day and flight scenarios
2	16th August	Demonstrated full diurnal flight, controlled relocation, and the ability to stay over an area of operation
3	24 th October	Demonstrated powered flight with increased dynamic pitch control during a diurnal mission



2025 – A FOCUS ON ENDURANCE

- ❑ With the 2024 Platform Dynamics program now successfully completed, Sceye is defining the test objectives for the 2025 flight program which will
 - ❑ Build upon previous flight test campaigns
 - ❑ Iterate platform system designs
 - ❑ Increase mission duration
 - ❑ Test platform materials longevity

- ❑ 2025 marks the transition to an initial commercial phase in parallel with endurance flight testing



