

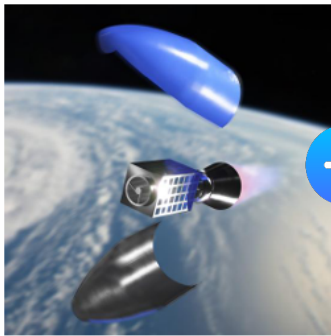
17 June 2026

ASX:14D

14D LAUNCHES INTO SPACE, SATELLITE AND ROCKET SECTOR SECURING PARTNERSHIP WITH SPACE COMPANY

*Agreement with **Orbit Boy** to test SiNTL™ in satellite power systems, with a second-stage pathway into space-based defence lasers*

Orbit Boy is an on-demand satellite air-launch system that can be flown anywhere in the world, to pick up the customer's payload, and launch it from a local airport out of a cargo plane - all on 24 hours' notice. It's core systems include:



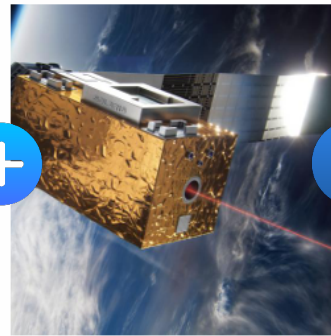
Orbit Boy Launcher

Reusable, On-demand, Air Launch System for satellites



ARCap Module

Autonomous rendezvous, maintenance, repair and capture satellite module



Solaris Space Defence Laser

Satellite-mounted high powered laser to track, intercept and neutralise threats to satellites



Orbital Data Centres, Telecommunications

Deployment, protection & maintenance of orbital data centres and other sovereign space assets

KEY HIGHLIGHTS

- **SPACE & SATELLITE PATHWAY FOR SiNTL:** Orbit Boy, a space company based in Italy, will test SiNTL silicon-anode battery technology for readiness to be deployed in satellites, rockets and spacecraft, and subject to performance outcomes, promote SiNTL technology to European launch partners and satellite manufacturers to implement SiNTL technology into their spacecraft and satellite batteries. Under the agreement, Orbit Boy (a UK-incorporated company operating from Turin, Italy) will test 14D's SiNTL silicon-anode battery technology to assess its readiness for use in satellites, rockets and spacecraft. Subject to the testing outcomes, Orbit Boy would aim to introduce SiNTL technology to launch partners and satellite manufacturers within its network.
- **ORBIT BOY TECHNOLOGY PROVEN ACROSS CIRCA 500 ROCKET LAUNCHES:** Orbit Boy' has advised its rocket launch capability is built on space-proven heritage technology that has been tested across approximately 500 launches over the past 5 years. The Orbit Boy Launcher system enables satellite-carrying rockets to be launched into space from a cargo plane on 24 hours' notice, using a reusable, cost-effective platform.
- **GLOBAL SPACE INDUSTRY VALIDATION & PARTNERSHIPS:** Orbit Boy is partnering with the European Space Agency (ESA), Luxembourg Space Agency, Korea AeroSpace Administration (KASA), ThalesAlenia Space (JV between Thales and Leonardo), Polish Space

Agency (POLSA), Ukrainian Space Agency for its space program, Agenzia Spaziale Italiana, and the German Space Agency (DLR).

- **ENERGY DENSITY IS CRITICAL FOR SATELLITE BATTERIES;** As recently stated by SpaceX battery capacity is paramount for satellites, where low weight and high energy density matter most¹. 14D's SiNTL silicon anodes have been shown in testing to offer at least 50% greater energy density than traditional graphite anode batteries, as announced by the Company on 29 May 2026. with further development aiming to unlock even greater capacity gains.
- **SiNTL TO BE LIVE-TESTED IN SPACE SATELLITES:** Orbit Boy will assist in having SiNTL-based batteries included in several aerospace and satellite manufacturing companies' satellites launched into space for live-testing and evaluation, providing maximum validation and potential commercial pathways for SiNTL to be implemented across European space and satellite platforms.
- **SOLARIS SPACE DEFENCE LASER:** The testing program can be expanded (subject to initial performance) to include evaluation for use in Orbit Boy's Solaris Space Defence Laser, a satellite-mounted 1.1kW laser that can track, intercept and neutralise threats to satellites. Space laser defence systems are gaining interest from militaries worldwide as they offer high precision, low-cost and low-debris protection for space-based assets
- **SPACE DEFENCE & ORBITAL DATA CENTRE EXPANSION POTENTIAL:** Subject to favourable performance outcomes from Orbit Boy's testing program, Orbit Boy has indicated that it would look to integrate SiNTL based batteries into its core space systems, including the Orbit Boy Launcher, Solaris Space Defence Laser and the ARCap Satellite Maintenance & Repair Module. These three systems are being developed to enable the assembly, maintenance, and protection of orbital gigawatt-scale AI data centres. Several companies including Northrop Grumman, Airbus Defense & Space, ThalesAlenia, and Axiom Space are exploring or developing orbital computing.
- **14D WILL SUBSCRIBE FOR A\$500,000 IN EQUITY** in consideration for the testing agreement. It will subscribe for A\$250,000 tranches of shares in Orbit Express, subject to programme milestones. The Orbit Boy Group is exploring listing options in the US and Europe.

1414 Degrees Ltd (ASX: 14D) ("1414 Degrees" or the "Company") is pleased to announce it has entered into an agreement with Orbit Express Pty Ltd (ACN 649 857 965) and Orbit Boy Ltd (Company No. 13262254 in UK) (together, "**Orbit Boy**") for a proposed testing and commercialisation program for its SiNTL™ silicon-anode battery technology for space, satellite and rocket applications.

Orbit Boy is a space launch company with a base in Turin, Italy. Orbit Boy's rocket launch capability is built on space-proven heritage technology that has been tested across approximately 500 launches over the past 5 years. Orbit Boy has developed three core space systems, including:

1. Orbit Boy Launcher: designed to launch satellites (e.g. defence, telco, data centre modules) into space from a reusable rocket system attached to a cargo plane (eg, C-17 or A400M).

¹ <https://www.batterypoweronline.com/news/space-batteries-how-spacex-designs-batteries-for-satellites/>

2. ARCap Satellite Maintenance & Repair Module: autonomous satellite modules that can dock with other satellites to perform repairs and maintenance tasks (eg, on orbital data centre satellites).

3. Solaris Space Defence Laser: a satellite-mounted high-powered laser that can track, intercept and destroy incoming threats to satellites from a large distance, removing potential threats to orbital data centres (or any other satellites).

These three systems have been designed to form the critical infrastructure required to enable the assembly, maintenance and protection of orbital space-based assets including but not limited to defence, data centres, surveillance, and space missions. Orbital data centre initiatives are being explored or developed by several Tier 1 companies including Northrop Grumman, Airbus Defense and Space, Thales Alenia, and Axiom Space.

Orbit Boy is in partnership with key European space agencies including the European Space Agency (ESA), Luxembourg Space Agency, Korea Aerospace Administration (KASA), ThalesAlenia Space (JV between Thales and Leonardo), Polish Space Agency (POLSA), Agenzia Spaziale Italiana, and the German Space Agency (DLR), as well as working with the Ukrainian Space Agency for its space program.

Under the Orbit Boy Agreement, SiNTL based batteries will be tested in European satellite design laboratories for readiness for deployment into rocket and spacecraft power systems. Orbit Boy will also assist in procuring a satellite manufacturer to conduct live space testing of SiNTL based batteries aboard real satellites in Earth's orbit to generate actual in-space performance validation.

Subject to performance outcomes, Orbit Boy will look to integrate SiNTL technology into a high-power battery for Orbit Boy's Solaris Space Defence Laser. The work is supported by Orbit Boy's facilities in Turin, Italy, and an independent contract manufacturer.

If successful, the program would give 14D a technical and commercial pathway into the satellite, space, aerospace and defence battery markets.

STRATEGIC IMPORTANCE

In space applications, battery energy density is a critical priority. The launch cost per kilogram of payload, as well as the inability to replace a satellite's batteries once it is in space, means that satellite manufacturers are demanding maximum capacity from space batteries. If a satellite's battery stops working, it generally renders the satellite inoperable, meaning the entire satellite including launch, could need replacement - which is extremely expensive. That puts a premium on light, high-energy-density, long-life cells.

SiNTL has been proven to raise lithium-ion energy density using silicon-anode material and unlock at least 50% more battery capacity compared to traditional graphite anodes, making it a highly qualified candidate for space and satellite applications. Furthermore, SiNTL technology is designed to fit existing battery manufacturing without requiring significant changes to battery production processes.

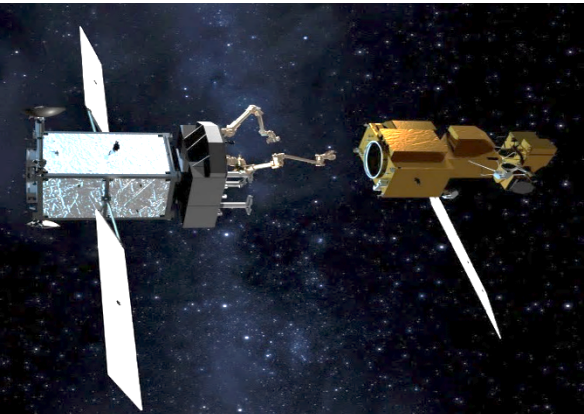
The global space battery market is worth about US\$3.4 to US\$4.6 billion in 2025 and is forecast to roughly double to between US\$5 billion and US\$10 billion by the early 2030s. Satellites make up about two-thirds of demand and low Earth orbit the majority of demand. Cells above 200 Wh/kg — the high-energy-density type SiNTL targets — are the fastest-growing segment.²

² <https://www.mordorintelligence.com/industry-reports/space-batteries-market>

More than 9,000 satellites now operate in low Earth orbit, about three-quarters of all active satellites. Because most last only five to seven years, they are replaced regularly, which keeps satellite-quality battery demand rising. Demand is also being pushed up by plans for data centres in orbit: programs announced in 2025 and 2026 — including a US\$1.1 billion valuation for one orbital data-centre company³ and a regulatory filing by SpaceX for up to one million compute satellites — point to a new class of power-hungry spacecraft.⁴

TARGET SPACE APPLICATIONS

The program will initially test SiNTL based batteries across the core Orbit Boy platform, starting with power systems for the Orbit Boy rocket launcher, satellite modules and subject to performance outcomes, potentially extending to the Solaris Space Defence Laser.

	
Satellite power systems — Phase 1 testing Satellite battery systems in low Earth orbit. Tested for energy density, weight, eclipse cycling and cycle life. The largest space battery use.	Solaris Space Defence Laser — Phase 2 testing High-power battery for the 1.1 kW Solaris laser, a defensive payload. Tested for peak power, fast discharge and heat handling.
	
Orbit Boy Launcher Air-launch and ground launch. Orbit Boy states it can reach any orbit on 24-hour notice.	ARCap docking module Docks with satellites in orbit to build and service space infrastructure, including data centres.

³ <https://www.reuters.com/business/retail-consumer/starcloud-reaches-11-billion-valuation-ai-space-race-heats-up-2026-03-30/>

⁴ <https://www.spaceconnectonline.com.au/satellites/6943-us-regulator-opens-public-consultation-on-spacex-plan-for-up-to-one-million-satellites-orbital-data-centres>

ORBIT BOY AGREEMENT - KEY DETAILS

- A. **Parties.** The Agreement is between 1414 Degrees Limited (ASX: 14D), Orbit Express Pty Ltd (ACN 649 857 965) and its subsidiary Orbit Boy Ltd (Company No. 13262254), a vertically integrated space infrastructure company developing responsive launch, autonomous satellite servicing and assembly, and the Solaris space-based laser payload.
- B. **Purpose.** The Agreement establishes a staged Phase 1 Strategic Validation and Testing Program to prepare, integrate and test SiNTL enabled batteries and battery packs for Orbit Boy space applications, beginning with a satellite bus and platform energy-storage module and, subject to Phase 1 results, a high-power pack for the Solaris payload.
- C. **Technology.** 14D will supply SiNTL silicon-anode battery cells, packs, specifications and technical inputs for evaluation. SiNTL is developed under 14D's exclusive global licence from George Washington University and is principally directed at achieving high energy density and low mass — characteristics that are binding constraints in low-Earth-orbit applications.
- D. **Primary Application.** The lead workstream targets a space-capable satellite bus and platform energy-storage system designed to survive repeated charge and discharge cycling through orbital eclipse in low Earth orbit, where energy density, mass and cycle life are critical parameters.
- E. **Secondary Application.** A contingent second workstream covers the Solaris payload — a space-based 1.1 kW fibre-laser system for real-time tracking and interception — which requires high peak-power, short-duration pulse discharge and demanding thermal management characteristics.
- F. **Consideration.** As part of the Phase 1 program, 14D will subscribe for fully paid ordinary shares in Orbit Express, representing an agreed aggregate value of A\$500,000.
- G. **Tranches.** The subscription will be in two equal tranches A\$250,000 each: an initial tranche payment for the Phase 1 program; the second upon the earlier of Orbit Boy delivering the Phase 1 testing pathway, commencing preliminary testing, or securing a testing partner.
- H. **Network Access and Introductions.** Orbit Boy will introduce 14D and SiNTL Technology to space-sector counterparties within its international network, including satellite bus, prime contractor, launch, propulsion, payload, defence and commercial space contacts.

The program runs in six milestone-gated stages:

1. SiNTL sample and cell validation;
2. laboratory cycling and low-Earth-orbit eclipse testing;
3. battery pack and module build with the contract manufacturer;
4. bench, battery-management and interface testing;
5. environmental and space-representative qualification testing; and
6. final qualification report, including assessment of the Solaris battery if stage one passes.

COMMERCIAL MODEL

Ownership of SiNTL and all related intellectual property remains with 14D and George Washington University at all times.

Subject to successful testing and binding agreements, 14D expects revenue from anode material supply, battery technology licensing, royalties on approved packs or platforms, and future supply to satellite, space, aerospace and defence customers. Any future production or supply will be covered by separate binding agreements.

Commenting on the Agreement, 1414 Degrees' Executive Chairman Dr Kevin Moriarty said:

"Space stocks are commanding extraordinary valuations because the space economy is projected to be worth trillions of dollars, and the race to build, power and defend the next generation of satellites and orbital infrastructure is just beginning.

SiNTL™ has now well and truly entered that race - the Orbit Boy agreement gives 14D a direct technical and commercial pathway into satellite power systems as well as joining the space race.

If the program performs as we expect, we believe it could open the door to potential dealings with the world's leading launch and satellite companies.

We are building a company whose technology belongs in space, on the battlefield and on the grid, powering the next generation of satellites, drones and data centres. These thematic are at the forefront of the global evolution, and we are excited to keep the market informed about ongoing developments.

AUTHORISED BY:

Dr Kevin Moriarty, Executive Chairman on behalf of the Board of Directors

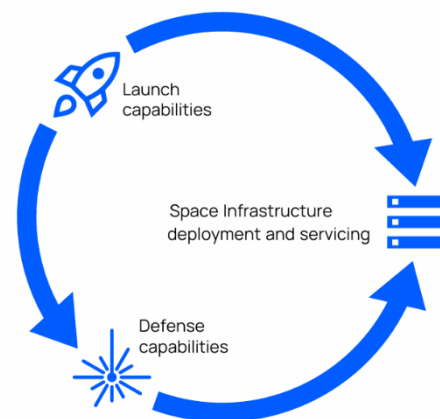
For investor enquiries or further information, please contact:

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ABOUT ORBIT BOY

Orbit Boy (<https://orbitboy.rocks/>) is a European space company with a base in Turin, Italy. It has developed a space launch vehicle (the Orbit Boy Launcher), an in-orbit docking module (ARCap) and a space-based defence laser (Solaris). Together, these three platforms form the infrastructure to launch, assemble, service and defend satellites and data centres in orbit. Orbit Boy has been developed with the exclusive cooperation of Yuzmash — one of the world's top manufacturers of launch vehicles. The rocket is based on the existing space-proven technologies combined with state-of-the-art aviation and payload deployment systems.

Orbit Boy is the only company in the world combining Responsive Launch, Autonomous Servicing and Assembly, and Laser Defence to build the future of sovereign space computing, and is currently testing its core technology with the Ukraine Space Agency.



Orbit Boy was co-founded by the team of three former Chairmen of the State Space Agency of Ukraine, who together were responsible for more than 150 successful rocket launches during the last 3 decades.

ABOUT 1414 DEGREES LIMITED

1414 Degrees (ASX:14D) is advancing an integrated clean-energy and industrial decarbonisation platform spanning grid-scale storage, industrial heat, hydrogen and advanced battery materials.

The Company's strategy combines near-term infrastructure revenue with scalable technology commercialisation, underpinned by deep expertise in energy-dense silicon systems and materials engineering. 1414 Degrees owns the Aurora Energy Precinct in South Australia, a development-ready energy and industrial site spanning 16km² within the Upper Spencer Gulf Renewable Energy Zone. Aurora is designed for firmed renewable electricity and co-located high-demand users, with grid access, development approvals and proximity to fibre infrastructure supporting global connectivity. The site is strategically positioned to support data centre operators and other energy-intensive industries requiring reliable, low-emissions power at scale. The Stage 1 140 MW / 280 MWh Battery Energy Storage System (BESS) represents a near-term revenue opportunity, with expansion potential aligned to customer demand.

Core Platforms:

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1414DEGREES.COM.AU

SiNTL™: A silicon-enhanced anode material designed to increase lithium-ion battery energy density while remaining compatible with existing manufacturing processes.

SiBrick®: Silicon-based thermal energy storage media forming the foundation of the Company's long-duration energy storage systems.

SiBox® (Industrial Heat-as-a-Service): Long duration energy storage technology that converts low-cost renewable electricity into dispatchable high-temperature heat, supporting industrial decarbonisation across energy-intensive sectors.

SiPHyR®: A silicon-based methane pyrolysis reactor integrating thermal storage to produce low-emissions hydrogen and solid carbon using renewable energy sources.

1414 Degrees' technologies are unified by a single materials platform — leveraging silicon to store, convert and enhance energy across multiple sectors.

For more information, please visit www.1414degrees.com.au

Forward-looking statements

This announcement includes forward-looking statements which may be identified by words such as 'anticipates', 'believes', 'expects', 'intends', 'may', 'will', 'could', or 'should' and other similar words that involve risks and uncertainties. These forward-looking statements are based on the 1414 Degrees' expectations and beliefs concerning future events as at the date of this announcement. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of 1414 Degrees, which could cause actual results to differ materially from such statements. 1414 Degrees makes no undertaking to update or revise the forward-looking statements made in this announcement to reflect any change in circumstances or events after the date of this announcement.