

Investor Update Presentation

17 October 2022

Cautionary statement

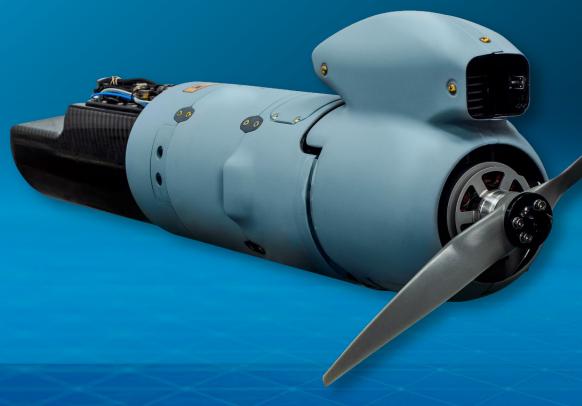


This presentation includes statements looking-forward that involve risks and uncertainties. These statements are based upon management's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of the Company, that could cause actual results to differ materially from such statements. Actual results and events may differ significantly from those projected in the forward-looking statements as a result of a number of factors including, but not limited to, those detailed from time to time in the Company's Annual Reports. Orbital UAV makes no undertaking to subsequently update or revise the forward-looking statements made in this presentation to reflect events or circumstances after the date of this release.

All figures in AUD @ \$0.65



World leader in the design and manufacture of integrated engine systems for military drones*



At a glance Orbital UAV (ASX: OEC)



Targeting a \$3 billion annual global tactical UAV defence market

Heavy fuel (jet fuel) engine capability is an objective requirement within the tactical UAV market

Orbital UAV's patented technology solves the heavy fuel engine challenge for tactical UAVs

Orbital UAV has established engine production lines & development programs for global defence Primes



What is a tactical UAV?

Intelligence, Surveillance, Reconnaissance



Tactical UAVs are used by global defence forces for intelligence, surveillance and reconnaissance (ISR) missions

- Field operated by military units
- \$2 \$6 million per system¹
- State-of-the-art electronic payloads (e.g. day/night cameras)
- Wingspan up to 5 m
- Flies at up to 20,000 ft
- Endurance up to 24 hours





Runway dependent





Launch & capture

Vertical take-off & landing



Orbital UAV's target market

Tactical UAV's dominated by defence Primes

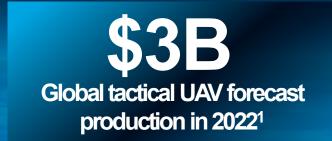




















Why heavy fuel?

An objective requirement for allied forces



JP-8 & JP-5
(kerosene-based, heavy fuels)
have been the preferred fuel of allied forces since ~1990

THE BENEFITS

Safety – higher flashpoint temperatureLogistics – transportation, avoids cross contamination

IMMEDIATE MARKET DEMAND

Heavy fuel is an objective requirement of the US Army's Future Tactical Unmanned Aircraft System (FTUAS) Program – valued at ~\$1.5 billion²

ORBITAL UAV'S OPPORTUNITY

Patented engine technology enables Orbital UAV's propulsion solutions to deliver industry leading performance on heavy fuel

NATO Single Fuel Concept¹

Our unique product offering

Industry leading performance



Orbital UAV's heavy fuel propulsion systems provide the world's best performing UAV engines

	Orbital UAV	Others
Time between overhaul	500 hrs	~50 hrs
Cold start to launch	2 min	>20 min
x3 U.S. FAR33.49 endurance test	Yes	No



Engine production contracts

Existing engine production contracts





Production Engines x 2



Production customer

Boeing Insitu – a market leader

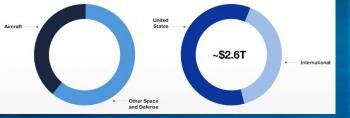


2021
Defence
Revenue
~\$54 billion¹



One of the largest, most diversified aerospace & defence companies in the world

Boeing Defence & Space Market Outlook²



- 10-year defence industry forecast for the markets that Boeing addresses through its defence and space offerings.
- Data indicates a total US\$2.6 trillion global market.
- The US represents nearly 60% of the total market, with the rest coming from nations worldwide.
- These large, stable markets have enduring demand driven by geopolitical and security challenges.









- Unmanned autonomous systems supporting a variety of defence, civil, and commercial applications
- 25 years experience
- 1,300,000 flight hours
- Systems used by 30 countries, across 6 continents³

INSITUPACIFIC

A Boeing Company

- New contract to supply Australian Army with Integrator UAS (Mar 2022)
- Royal Australian Navy awarded 3-year extension for ScanEagle (Dec 2021)⁴

THE ARMY

Engine development programs

Existing engine development to production contracts









Development Programs





Engine development customers

Established Primes & market disruptors



TEXTRON Systems

- Subsidiary of Textron Inc. (NYSE: TXT), a \$19 billion multi-industry company¹
- World leader in unmanned aircraft systems and one of the largest suppliers of tactical UAVs to the US armed forces²
- Supplier of the Shadow UAS to US Army



- Founded in 2017, transforming US & allied military capabilities with advanced technology
- Privately funding R&D to supply finished products off the shelf
- Awarded \$1.5 billion contract with Special Operations Command (SOCOM) Jan 2022
- Opened Australia office Mar 2022³



- Singapore defence market stands at budget of \$18.9 billion in 2022
- The market is expected to achieve a CAGR of more than 5% during 2023-27⁴
- Customer is one of Singapore's largest defence companies
- Developing a domestic use UAV

S<YVV/YS</p>

- Pioneer and emerging leader in UAV cargo transport
- Selected by US Navy's Naval Air Warfare Center Aircraft Division (NAWCAD) to provide a UAS prototype to demonstrate long-range naval ship-to-ship and ship-to shore cargo transport
- Currently testing platform as part of NAWCAD's Blue Water Maritime Logistics UAS program⁵

Engine development opportunities

Near term engine development opportunities





Opportunity Pipeline



Development opportunity customers Globally recognised defence Primes





- Global leader in UAS and services
- Acquired Arcturus UAV in 2021 for ~\$690M
- Tactical UAS include the JUMP® 20 and Puma™ platforms
- Tactical missile systems (including the Switchblade® 600)
- Awarded Increment 1 of US Army FTUAS program²



- Recognised as one of the fastest growing private companies in the US in 20203
- Listed in Forbes' annual AI 50 list in 2021⁴
- V-BAT UAV in operation globally



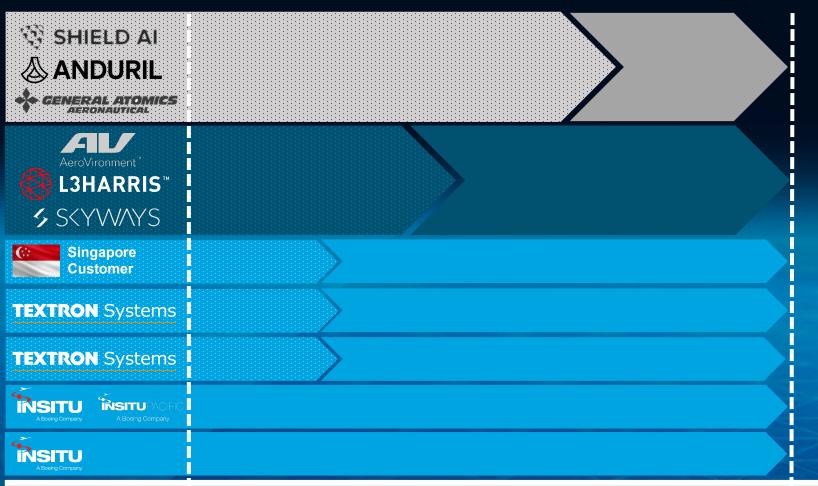
- A world leader in uncrewed aerial systems⁵
- Manufacturer of the Predator UAV series, including the SkyGuardian. SeaGuardian and MQ9A Reaper
- Predator series has surpassed 7 million flight hours



- Merger of L3 Technologies and Harris Corporation in 2019, to create the sixth largest defence contractor in the world⁶
- Defence revenue in 2021 of \$22.9 billion⁷

Production / Development / Opportunity Building out our engine opportunity





- Production, maintenance & overhauls continue on two Boeing Insitu engine production lines
- Contracts with Textron Systems & Singapore customer have confirmed production pathways
- AeroVironment, Skyways & L3 Harris represent potential engine integration programs with existing Orbital UAV products
- Shield AI, Anduril & General Atomics represent potential 'clean sheet' engine design programs, requiring a longer development timeline

Within four years, capturing 20% of the engine market representing ~\$60M revenue in FY27

Customer engine development and vehicle integration period

Engine production, maintenance and overhauls **FY27**

Production expansion

Engine development adding to Orbital UAV's production profile



AUSTRALIA

Existing facility footprint: 3,238m²



Development & Testing

Engineering

Production

Corporate

Existing production capacity in Australia for:



TEXTRON Systems



A Boeing Company



Expansion identified for additional development programs & production lines

Adjoining facility in Australia: 2,125m² (Currently sublet by Orbital UAV)















USA

Facility footprint: 1,210m²

Diversified customer strategy

Delivering a diversified defence customer portfolio























The continued rise of UAVs

A critical defence capability



Annual global tactical UAV market

\$3B

CHANGING FACE OF WARFARE

- Rising border intrusions
- Information / data is key (ISR)
- New in theatre e-warfare and precision strike capabilities
- Armed forces acquiring UAVs for the first time





US SPENDING REMAINS DOMINANT

The US Army Future Tactical Unmanned Aircraft System (FTUAS) Program is one of the largest global UAV programs currently underway



Tactical UAV market segments

Engines – a critical sub-system





Integration / Build Labour: 10%



UAV Bill of Materials: 10%







Mission Management Systems: 30%



Training: 10%



Payloads: 20%



Ground Support Equipment: 10%



Expanding into the \$3B market

Executing an increased content strategy





Integration / Build Labour: 10%



Including:

- Power Management
 - System Harnessing
- Flight Controller •
- Electronic Speed Controller

Composites

annual global tactical UAV market





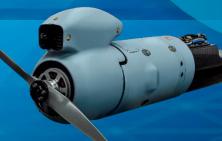
Training: 10%



Payloads: 20%



Engines: 10%



Ground Support Equipment: 10%



Corporate overview







Top Shareholders ■ UIL Ltd **■** First Sentier 56 Investors Board & Exec Other











Delivering superior solutions to the global UAV defence market

- Patented engine technology delivers significant competitive advantages
 - Existing suite of global defence customers
 - Targeting expansion within the \$3B UAV market segment
 - Strong Federal and State Government support











Ready to fly...

www.orbitaluav.com





References



Slide 5

1 World Military UAS Profile & Forecast 2020-21, Teal Group Corporation: Represents cost of the aircraft plus a portion of the system cost, e.g. ground control station, remote video terminal, launch system and recovery system.

Slide 6

1 World Military UAS Profile & Forecast 2020-21, Teal Group Corporation: Includes STUAS, TUAS & Navy VTOL

Slide 7

- ¹ https://www.nato.int/docu/logi-en/1997/lo-1511.htm
- ² https://insideunmannedsystems.com/htbeyond-the-shadow-ftuas-competitions-next-phase/

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1 https://www.boeing.com/defense/market/index.page

- ² https://people.defensenews.com/top-100/
- ³ https://www.insitu.com/
- ⁴ https://insitupacific.com.au/corporate/news/

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- ¹ https://www.textron.com/
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- ³ https://www.anduril.com/newsroom/

- ⁴ https://www.globaldata.com/store/report/singapore-defense-market-analysis/?_gl=1*1nf4u22*_ga*MTlwNzgzNjQxMC4xNjY0ODcwNzcx*_ga_FY0QX202ZG*MTY2NTcwODQ4Ni4zLjAuMTY2NTcwODQ4Ni42MC4wLjA.
- ⁵ https://www.janes.com/defence-news/news-detail/update-us-navy-acquires-skyways-aircraft-prototype-for-blue-water-maritime-logistics-uas

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- ¹ https://www.avinc.com/

https://www.army.mil/article/259481/u_s_army_awards_ftuas_increment_1_ota_to_aerovironment_inc

- ³ https://shield.ai/newsroom/
- ⁴ https://www.forbes.com/sites/alanohnsman/2021/04/26/ai-50-americas-most-promising-artificial-intelligence-companies/?sh=48091f4777cf
- ⁵ https://www.ga-asi.com/
- ⁶ https://www.l3harris.com/newsroom/press-release/2019/07/l3harris-technologies-merger-successfully-completed-board-directors
- ⁷ https://people.defensenews.com/top-100/

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¹ AUVSI FY23 Defense Budget For Uncrewed Systems and Robotics