



**ORBITAL<sup>®</sup>**  
**UAV**

# **StockPal: Tech in Oz Webinar**

## **Investor Presentation**

**27 May 2021**

# 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.



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

# Tactical UAV market

Dominated by Defence Prime Contractors



Worldwide UAV production  
**US\$95.5 billion**  
2020 – 2029\*

Worldwide tactical UAV production  
**US\$15.7 billion**  
2020 – 2029\*

Worldwide tactical UAV  
production in 2020\*  
**US\$1.4 billion**



# What is a tactical UAV?

Intelligence, Surveillance, Reconnaissance



**Tactical UAVs are used by global defence forces for intelligence, surveillance and reconnaissance missions**

- Field operated by military units
- US\$1.5 - US\$4 million per system\*
- 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



Naval vessel-based



Launch & capture



Runway dependent



Vertical take-off & landing

\*World Military UAV 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.

# Our unique product offering

Industry leading performance



Orbital UAV's **heavy fuel propulsion systems** have the world's best performance and meet the U.S. Dept. of Defense's 'one fuel' policy

	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

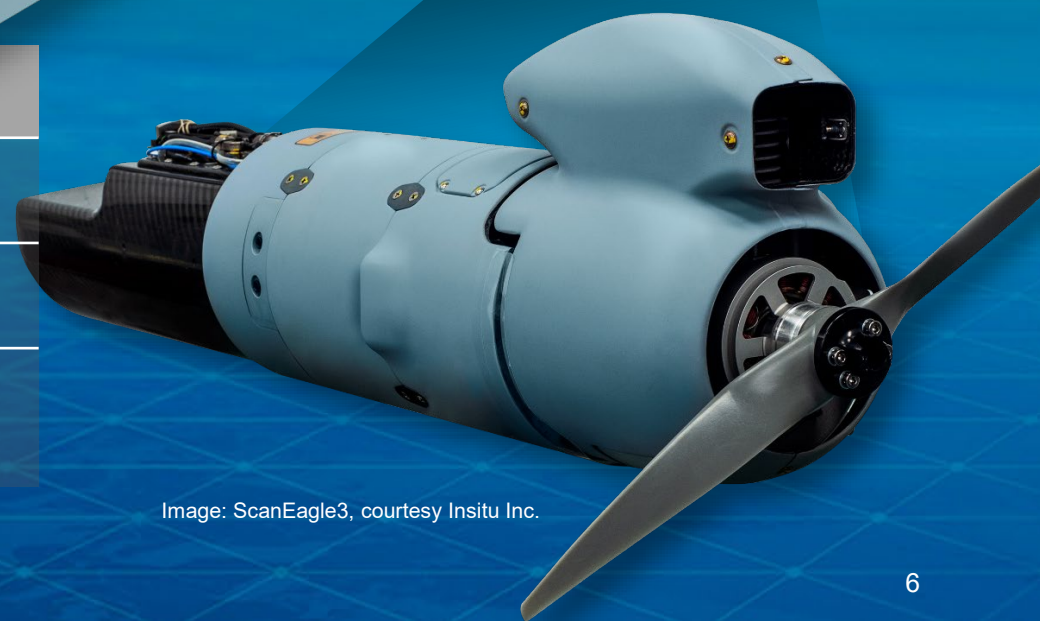
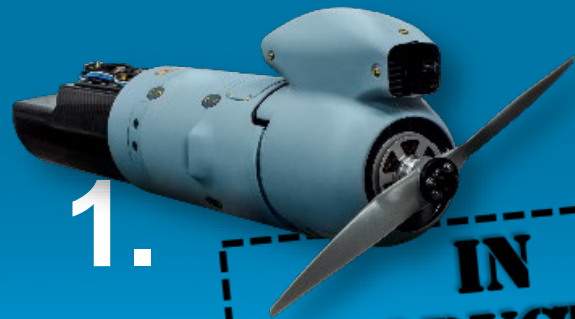


Image: ScanEagle3, courtesy Insitu Inc.

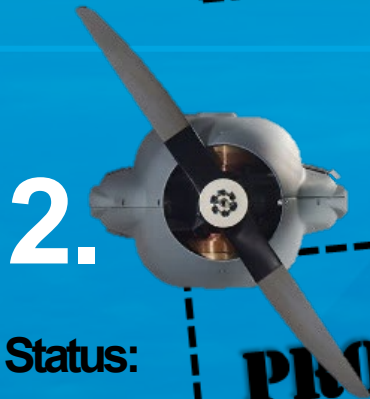
# Boeing-Insitu business expansion

Primary engine supplier to Boeing-Insitu



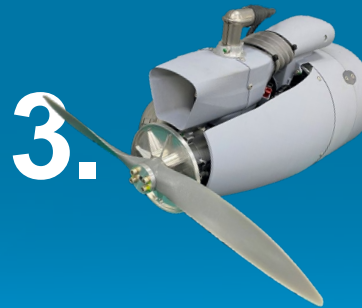
Status:

**IN  
PRODUCTION**



Status:

**IN  
PRODUCTION**



Status:

**PRODUCTION  
SCHEDULED  
Q4 FY21**



Status:

**Development  
timeline TBD**



Status:

**Development  
timeline TBD**

Images stylised for confidentiality reasons



ScanEagle2

Integrator™

ScanEagle®

ScanEagle3

# Textron / Lycoming contract\*

New engine development & supply agreement



Major expansion of Orbital UAV's business partnerships and future revenue opportunities

Engine program for Textron Systems' Aerosonde® program

Based on success, transitions to the supply of engines for up to 10 years

12-month engine development and vehicle integration program underway – 1<sup>st</sup> prototype delivered

A graphic for an ASX announcement. It features the Orbital UAV logo at the top, followed by the text 'ASX ANNOUNCEMENT'. Below this is the date '13 May 2021' and the headline 'PROTOTYPE ENGINE DELIVERED TO LYCOMING ENGINES'. The sub-headline reads 'Orbital UAV hits major milestone on new engine development program for Textron Systems' Aerosonde program'. The main body of text states: 'PERTH, AUSTRALIA: Orbital Corporation Ltd ("Orbital UAV", "the Company") is pleased to advise it has met the first major milestone of its engine development program with Lycoming Engines (a subsidiary of Textron Inc.), providing Lycoming with an initial prototype engine for evaluation. Following contract confirmation and program kick-off (see ASX announcement 29 March 2021), delivery of this early core engine represents a key step in the 12-month development program. Lycoming will now assess the engine to inform further integration and design customisation requirements. The Lycoming engine development program will enable the integration of an Orbital UAV-designed 150cc core engine, including proprietary fuel and engine control systems, into Textron Systems' Aerosonde program. Textron Systems is a world leader in unmanned aircraft systems and one of the'.

ORBITAL<sup>®</sup> UAV

ASX ANNOUNCEMENT

13 May 2021

**PROTOTYPE ENGINE DELIVERED TO LYCOMING ENGINES**

Orbital UAV hits major milestone on new engine development program for Textron Systems' Aerosonde program

PERTH, AUSTRALIA: Orbital Corporation Ltd ("Orbital UAV", "the Company") is pleased to advise it has met the first major milestone of its engine development program with Lycoming Engines (a subsidiary of Textron Inc.), providing Lycoming with an initial prototype engine for evaluation.

Following contract confirmation and program kick-off (see ASX announcement 29 March 2021), delivery of this early core engine represents a key step in the 12-month development program.

Lycoming will now assess the engine to inform further integration and design customisation requirements.

The Lycoming engine development program will enable the integration of an Orbital UAV-designed 150cc core engine, including proprietary fuel and engine control systems, into Textron Systems' Aerosonde program. Textron Systems is a world leader in unmanned aircraft systems and one of the

**TEXTRON**



**TEXTRON** Systems

# Key milestones

Delivered over the past 18 months



## Primary engine supplier to **Boeing Insitu**

Two of five engine production lines in operation

## New contract with **Textron** subsidiary **Lycoming Engines**

Engine development program and long-term supply agreement

## **Singapore** defence company

Engine development contract for domestic UAV

## R&D contract with **Northrop Grumman**

Design and develop a hybrid propulsion system

## **Revenue: FY21 \$30-\$40M\***

FY19: \$15M, FY20 \$33.8M

# Outlook

Targeted deliverables over the next 12 months

**Q4 FY21**

**Boeing-Insitu**  
third engine production  
line operational

**Q4 FY21**

Prototype engine to  
**Singapore defence**  
company

**H1 FY22**

**Boeing-Insitu**  
fourth engine development  
program initiated

**H2 FY22**

**Textron / Lycoming**  
engine production  
line operational

# Global & domestic opportunities

## Major UAV Defence programs



ORBITAL  
UAV  
Hood River  
USA



United States Army  
Future Tactical UAS Program

TEXTRON Systems



ARCTURUS UAV™



L3HARRIS™



Australian Army  
LAND129 Phase 3 Program



Royal Australian Navy  
SEA129 Phase 5 Program

ORBITAL  
UAV  
Perth  
Australia

# Corporate overview

ASX : OEC



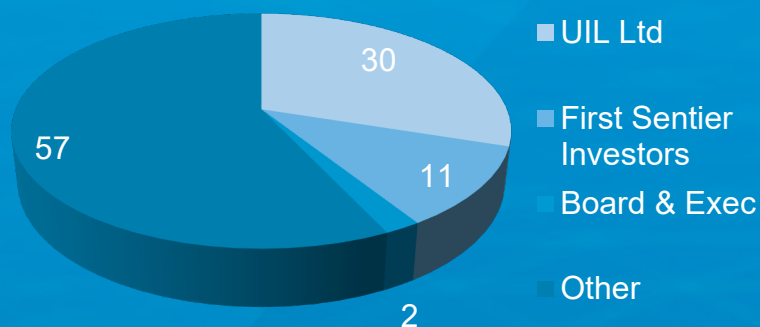
## Capital Structure As at 26 May 2021

Fully Paid Ordinary Shares	77.66M
Closing share price	\$0.90
Market Capitalisation	\$69.89M

## Our Financial Focus - FY21

- Year-on-year revenue growth
- Generating positive cash flows
- Commitment to ongoing profitability
- Strong balance sheet to fund growth
- FY21 revenue guidance of A\$30M – A\$40M

## Top Shareholders



### John Welborn

Chairman  
Non-Executive Director



- Appointed Chairman March 2015
- MD & CEO of Equatorial Resources Ltd

### Todd Alder

Managing Director  
& CEO



- Appointed CEO & MD in 2017
- Focusing on: financial discipline; strategy alignment; and operational efficiency

### Steve Gallagher

Non-Executive  
Director



- Board member since 2017
- 30 years experience as a CEO and director of global businesses

### Kyle Abbott

Non-Executive  
Director



- Experienced aerospace and defence industry executive
- MD of WA Specialty Alloys 1996-2015



*Ready to fly...*<sup>TM</sup>

**Todd Alder**

Managing Director / CEO

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