



ORBITAL[®]
UAV

Investor Presentation

**New agreement signed with
Textron / Lycoming**

29 March 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***

Our customer portfolio

Global leaders in UAV markets



BOEING-INSITU Primary engine supplier to Insitu Inc. (a Boeing Company)



NORTHROP GRUMMAN engine development contract for hybrid heavy fuel engine



SINGAPORE DEFENCE COMPANY engine development contract for domestic UAV



TEXTRON / LYCOMING new engine development and supply agreement



Tactical UAV market

Dominated by Defence Prime Contractors



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

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

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



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

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

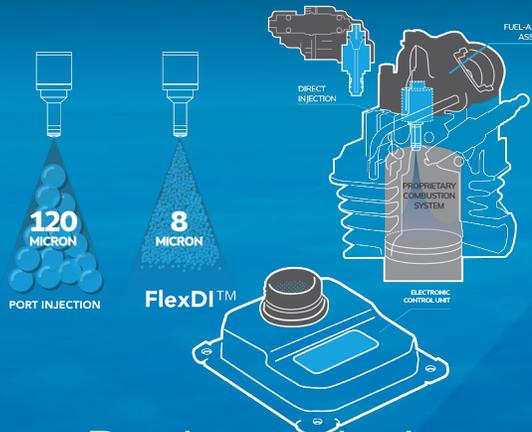


Image: ScanEagle3, courtesy Insitu Inc.

Orbital UAV's full value proposition



Technology



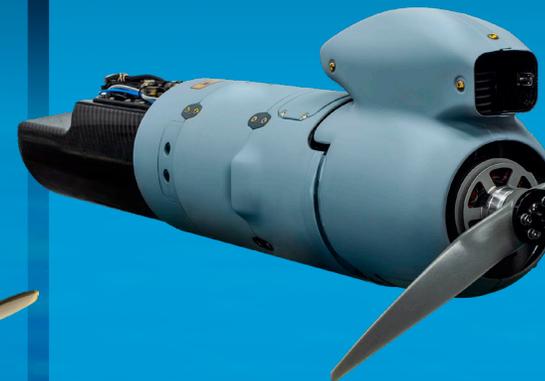
Proprietary technology, delivers unparalleled performance in fuel delivery and engine control

Core Engines



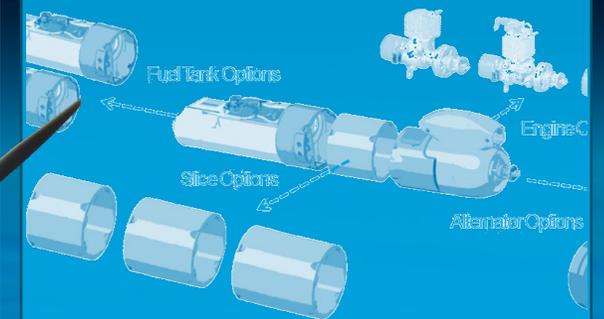
Bespoke engines meet increasing requirements and rigorous functional performance specifications

Integrated Sub-Systems



'Plug and play' integrated systems reduce maintenance and deliver simplified end-user interaction

Modular Family of Engines



Modular approach offers customer flexibility and rapid system deployment. Inventory and supply chain advantages return cost and quality benefits

Case Study: Boeing-Insitu



Technology

Diagram illustrating engine technology components: DIRECT INJECTION, FUEL AIR ASSY, PROPRIETARY CONNECTION SYSTEM, and ELECTRONIC CONTROL UNIT.

2013
Introduction of FlexDI™ technology to Boeing-Insitu

Core Engines

2014
Delivery of first engine for testing and development

Integrated Sub-Systems

2016
Long term agreement signed for first integrated sub-system

Modular Family of Engines

Diagram illustrating modular engine options: Fuel Tank Options, Engine Options, Size Options, and Alternator Options.

2018
Expanded agreement for 5 engine models across Insitu's UAV fleet



Boeing-Insitu business expansion



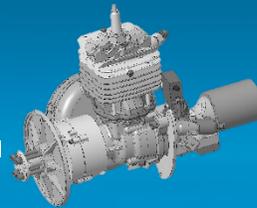
Orbital UAV designated Boeing Insitu's primary engine supplier



Status:

IN PRODUCTION

1.



Status:

PRODUCTION SCHEDULED Q4 FY21

3.



Status:

Development timeline TBD

4.



Status:

Development timeline TBD

5.



Status:

IN PRODUCTION

2.

Images stylised for confidentiality reasons



ScanEagle2



Integrator™



ScanEagle®



ScanEagle3

New customer: Textron / Lycoming



TEXTRON

- NYSE: TXT
- US\$13.6 billion, multi-industry company
- Worldwide presence
- ~35,000 employees
- Brands include: Bell, Cessna, Beechcraft, E-Z-GO, Arctic Cat

TEXTRON Systems

World leader in unmanned aircraft systems and one of the largest suppliers of tactical UAVs to the U.S. armed forces



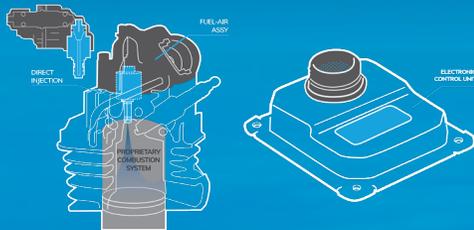
“Orbital UAV’s heavy fuel technology and design expertise coupled with Lycoming Engines’ world class reputation further supports Textron Systems’ industry-leading UAV mission readiness rates and reputation for reliability and durability.”

Wayne Prender
Senior Vice President, Air Systems at Textron Systems

Textron / Lycoming agreement



Technology



2013

Supply of propriety fuel system and engine control technology

Core Engines



2021

Engine development program and long term supply agreement

Engine development and supply agreement with Textron subsidiary Lycoming Engines

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

New collaboration commences with 12-month engine development and vehicle integration program

Engine program for Textron Systems' Aerosonde® program

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

TEXTRON Systems



Increasing customer diversification



Tier 1 Defence Prime Contractors



Primary engine supplier to power Insitu's entire fleet of tactical UAVs



Engine development program and supply agreement for up to 10 years



SINGAPORE
DEFENCE
COMPANY

Engine design and development contract with one of Singapore's largest defence companies



Contract to design and develop a hybrid propulsion system

Company targets



Q4 FY21: **Boeing-Insitu** third engine production line operational

H1 FY22: **Boeing-Insitu** fourth engine development program initiated

H2 FY22: **Textron** engine production line operational

FY22: **Singapore & Northrop Grumman** production opportunities progressed

FY22: Exploring **larger vehicle applications**



Corporate overview



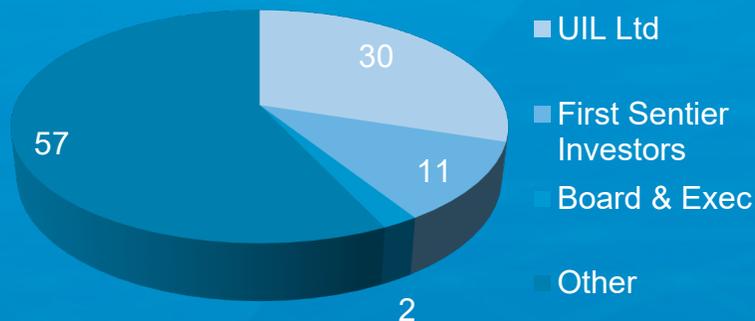
Capital Structure As at 26 March 2021

Fully Paid Ordinary Shares	77.66M
Closing share price	\$0.875
Market Capitalisation	\$67.95M

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 Welbom
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

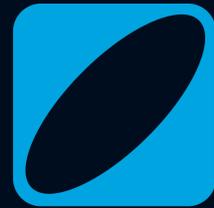


- Board member since 2017
- 30 years experience as a CEO and director of global businesses

Kyle Abbott
Non-Executive
Director



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



ORBITAL[®]
UAV

*Ready to fly...*TM

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