



Annual General Meeting CEO's Address

ASX: A3D

November 2024



Aurora Labs[®]

2024 Summary Highlights



- Project work commenced to bring to market a **3D printed micro gas turbine**
- **Successful flight** with the A3D **micro gas turbine** onboard a UAV
- Launch of the **AL250** 3D printing machine into the **industrial print services** bureau
- MoU with significant customers **Innovaero** and subsidiary of **OSG** for micro gas turbine related work
- Increased engagement of **Defence customers**, both directly with Australian Government (ADF) and with the defence OEM supply chain
- A3D secured 3 **direct purchase orders** with ADF in 2024 printing specialist materials
- A3D's print services revenue for FY24 grew 24 % from FY23
- Successful participation in the ADSTAR, Land Forces and Indian Ocean Defence and Security Conferences



Company Overview



About Aurora

Aurora Labs is technology focused on delivering productivity and innovation to industry through additive manufacturing. We are experts in delivering 3D printing products and services, and assisting industry to adopt metal additive manufacturing

Products and Technology

- 200N Class micro gas turbine, 100N and 400N sized micro gas turbines in development
- Specialised metal materials printing
- AL250 Laser Powder Bed Fusion Printer

Defence Drivers

- Sovereign defence manufacturing
- Asymmetric capabilities development

Competitive Advantage

A3D's AL250 is the only sovereign LPBF printer produced in Australia. LPBF is uniquely advantaged at printing highly complex geometries with specialty alloys.

Capital Structure and Price History

Shares on issue	394m
Options ¹	83m
Performance rights	5m
Share price	\$0.078
Market capitalisation - undil.	\$30.8m
Cash (approx.)	\$2.8m
Enterprise value - undil.	\$27.7m

1. Options have various strike prices and expiry dates.



Board of Directors and Management

Chairman	Grant Mooney
Non-Executive Director	Ashley Zimpel
Non-Executive Director	Andrew Garth
Non-Executive Director	Terry Stinson
CEO	Rebekah Letheby

Opportunity Pipeline

Market Engagement

- Indian Ocean Defence & Security 2024 (24-26th July)
- Land Forces International Land Defence Exposition 2024 (11-13th September)
- Australian Defence Science, Technology and Research (ADSTAR) Summit 2024 (17-19th September)
- Ongoing B2B business development activities
- Industry Specific & Other Manufacturing Alliances

Service Offering

- A3D sees the opportunity in Australia and beyond to offer 3D printing services to the sectors of mining, oil and gas, embedding the use of 3D metal printing services in industry

Outcome

- More than **30 leads currently being pursued** by Business Development and Sales Teams



Micro Gas Turbines

Gas Turbine MoU with Innovaero

Innovaero (partly owned by BAE Systems) have developed the OWL-B precision loitering munition in conjunction with the Australian Army. Its range is almost 200 km.

An MoU was executed with Innovaero and Aurora Labs with a commitment to supply A3D's micro gas turbines for testing on Innovaero's current UAS platforms.

<https://www.auroralabs3d.com/maiden-flight-3d-metal-printed-gas-turbine/>

- Nov 2023 Aurora prints demonstration micro gas turbine
- Apr 2024 Successful manufacture of gas turbine demonstrating less parts, shorter production times and more efficient combustion
- Jul 2024 Successful aerial testing of gas turbine
- Aug 2024 MoU executed with Innovaero for supply of gas turbine
- Oct 2024 Project scope of works in development for engine





Australian Government

Defence



New-generation drone prototypes to take part in strategic capabilities accelerator challenge

2023 Defence Strategic Review:-

- Manufacture in Australia
- Use disruptive technologies (additive manufacturing)
- Partnering with Australian Industry
- Defend from Northern bases

Concluding:-

UAVs to play an important role in ‘front line’ of defence

Defence: Partnerships 2025



“We need to be looking at sovereign capability” – Hon Richard Marles, Deputy Prime Minister and Minister for Defence

Defence Strategic Review 2023

“Australia (is facing) its most challenging strategic environment since the Second World War”

“Australia no longer enjoys the benefit of a ten-year window of strategic warning time for conflict”

“For the first time in 35 years, we are re-casting the mission of the Australian Defence Force” – Hon Richard Marles MP

“Deter through denial of any adversary's attempt to project power against Australia through our northern approaches”

“Developing the ADF's ability to precisely strike targets at longer range and manufacture munitions in Australia”

2024 National Defence Strategy & Integrated Investment Program

Increased government funding to historic proportions

- Additional \$50.3 bn over the next decade
- \$16-21 bn for guided weapons and explosive ordnance, including domestic manufacture of select weapons and components

Investments include in emerging technologies include “small, low-cost expendable robotic and autonomous systems, and one-way loitering munitions”

“A Guided Weapons and Explosive Ordnance (GWEO) enterprise to build stocks, strengthen supply and support a domestic manufacturing capability”

“The Government will support Australian defence industry to pursue export opportunities”

Partnerships

Partnerships have been pursued in propulsion system and engine commercialisation. A3D will pursue near term revenue and open engagements leading to growth of revenue with linkage between propulsion, defence and aerospace partnerships to capitalise on near-term and sovereign based opportunities.

- MoU signed with subsidiary of OSG group regarding propulsion development
- Advanced scope of work with Sovereign Propulsion Systems for lightweight parts



Richard Marles at the Defence West Stand, Land Forces 2024 7

Printing Machines – AL250



The AL250 is Australia's only **sovereign** laser power bed fusion (LPBF) 3D printer. LPBF is uniquely advantaged at printing highly complex geometries with specialty metallurgies.

AL250 Specs

Build envelope	250 x 250 x 300 mm
Layer thickness	30 – 150 µm
Production speed	up to 100 cm ³ /hr**

Gas Turbine 3D Manufacturing (using LPBF) Advantages

Parts	18 parts reduced to 1 part
Enhanced material utilisation	Unused metal powder can be recycled and refurbished. Lower inventory requirement.
Rapid prototyping and customisation	Allows for quick iterations to turbine design.
Complex geometries	Enables intricate designs not possible with traditional manufacturing or other 3D printing variants

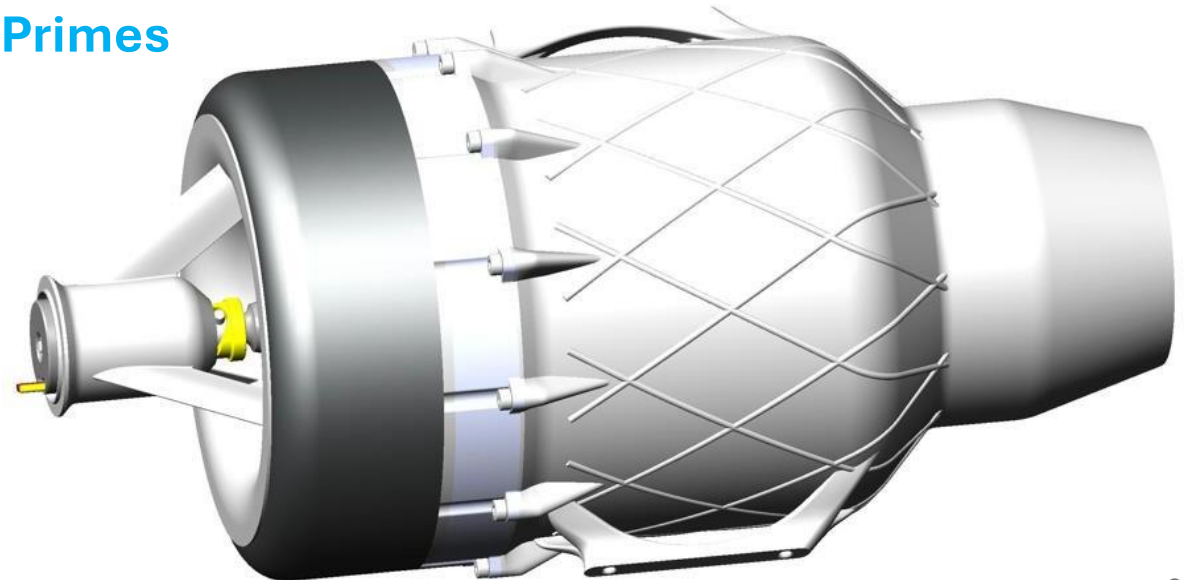
** dependant on metal material and processing parameters



2025 Look Forward



- Secure commercial **orders for Micro Gas Turbines**
- **Expansion** of printing and manufacturing facilities to bolster capability at Perth headquarters
- Progress ADF test and 3D print work of **specialty materials** and 3D printed parts
- Pursue **partnerships** for supply printed parts and services to **Defence Primes**



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