



**Aurora Labs<sup>®</sup>**

# Commercialisation Presentation

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Rapid + TCT Conference, Detroit, MI  
May 2022

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# Our Team

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Grant Mooney

Chairman



Mel Ashton

Non-Executive  
Director



Ashley Zimpel

Non-Executive  
Director



Terry Stinson

Non-Executive  
Director



Peter Snowsill

CEO



Tamara Gray

CFO



Rebekah Letheby

Operations Manager



Matthew Lester

Commercial Consultant



George Campbell

Process Manager



Marcus Walsh

Design Manager

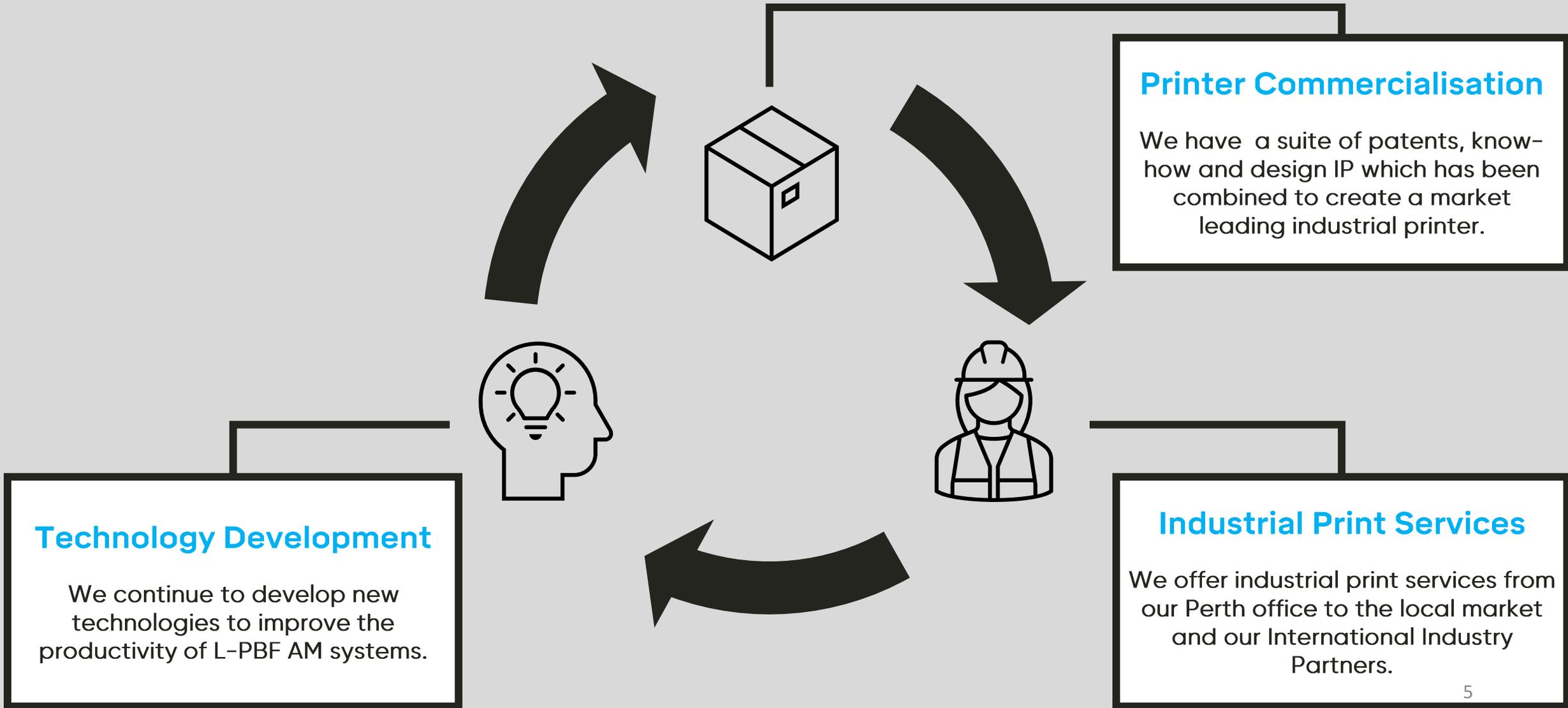


Jessica Snelling

IP Manager



# What We Do



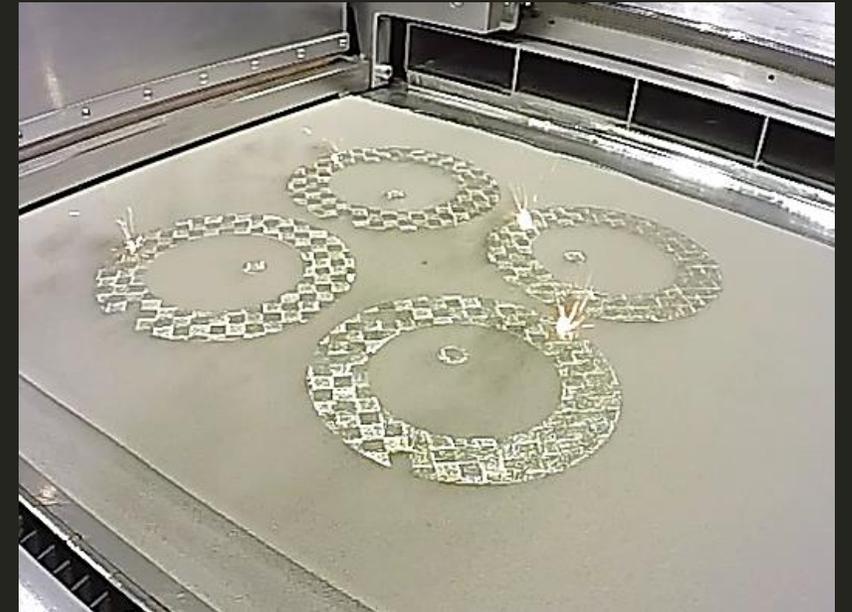
# Our Technology

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A3D has developed a suite of powder bed fusion (PBF) metal printing technologies with a focus on high-power lasers.

The 1500W lasers are triple the power used by industry and exceeds the nearest competitor laser power by 50%.

Through our multi-laser, high-power process, we achieve industry standard qualified, high productivity printing, which translates into cost savings for end users.



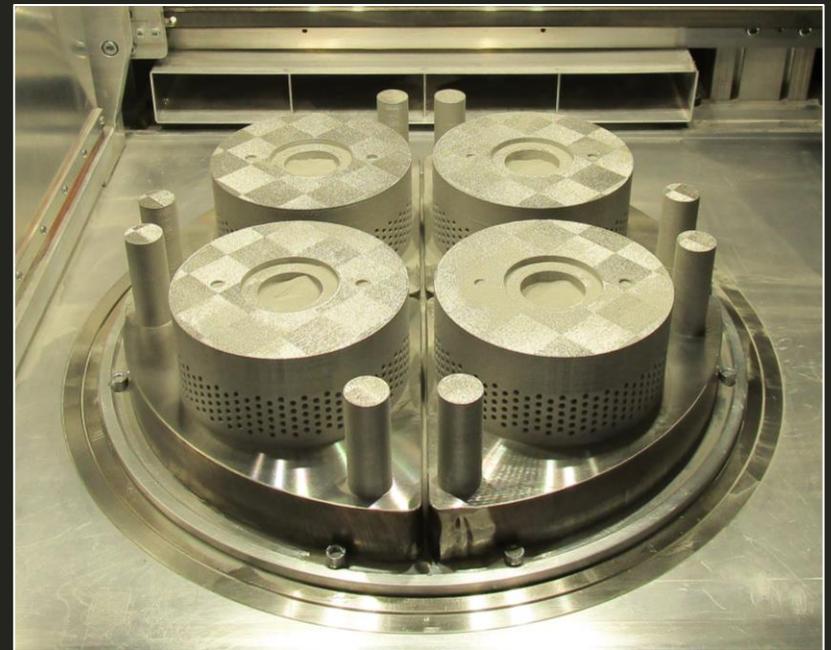
# Highly Productive Industrial Printing

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The RMP-1 features 4 x 1500W lasers and can deliver market leading productivity of less than \$1 per cubic centimetre.

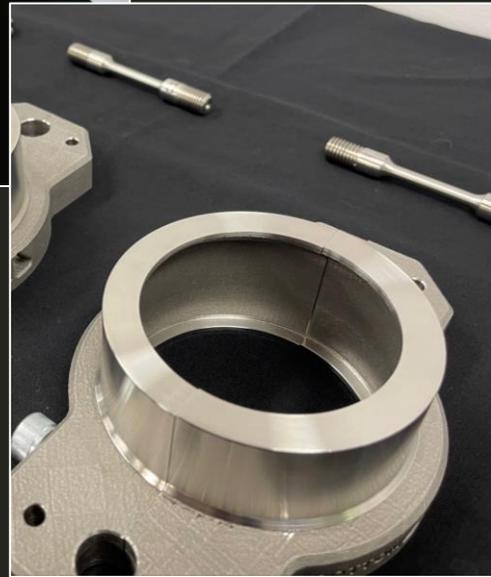
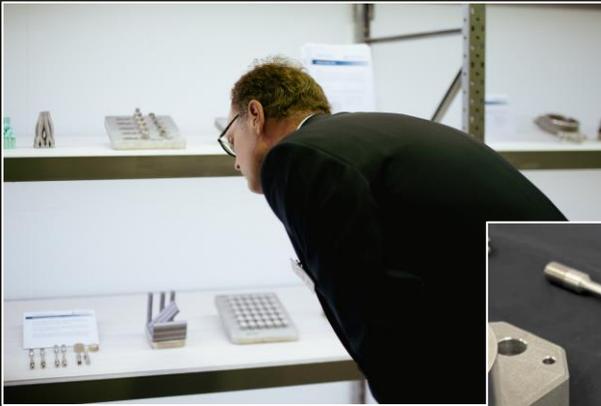
Build Envelope:	500 x 500 x 450mm
3D Optics:	4 x 1500W fiber lasers
Scanner:	4 axis scanner
Beam Focus Diameter:	90-200µm

NB. Provisional machine details, subject to change. Printing costs exclude labour & powder.



# High Power delivering High Productivity

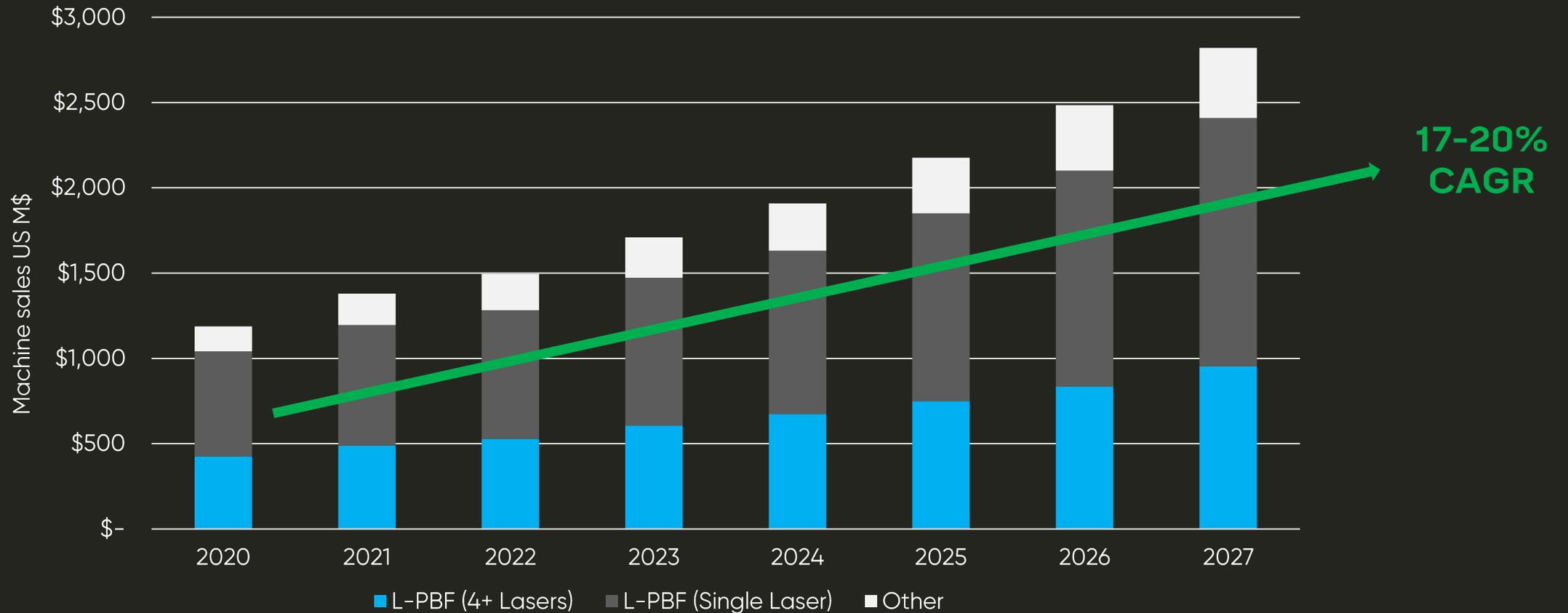
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- Market-leading productivity, with printer costs less than US \$1/cc
- High power lasers enable  $>100\mu\text{m}$  build layers, dramatically reducing build times
- Increased powder feedstock sizes can be used for thicker build layers, further reducing overall production costs

# Commercial Opportunity

L-PBF Market by Machine type (\$M USD)



Source: TBGA Integrated Demand Model

# AM Printing Adoption & Growth

Drivers & Industry Trends

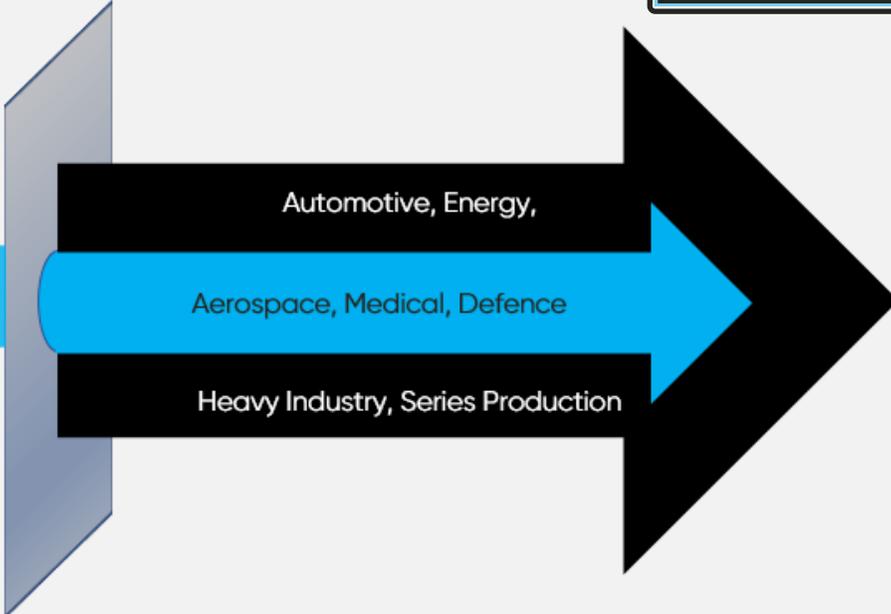
Adoption Enablers

Cost  
Barrier

Applications

Industry 4.0  
Transport Electrification  
Re-shoring of Manufacturing  
Increased Supply Chain Risk  
ESG Efforts

Maturing Ecosystem  
Certification & Standards  
Technology Reliability



"A3D's highly productive printer will be a compelling entrant into the growing multi-laser L-PBF market, with market-leading print economics opening up new cost-effective applications."

**Peter Snowsill**  
**CEO, Aurora Labs**

# Industrial Print Services

A3D has commenced using its printers to print parts for local industry needs using its prototype printer, with printing and consulting services delivered to mining, energy and industrial clients



# 3<sup>rd</sup> Party Validation

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A3D engaged with respected AM consulting firm The Barnes Global Advisors (TBGA) for a comprehensive review of our technology.



TBGA conducted a technology assessment of A3D's Laser Powder Bed Fusion (L-PBF) solution including high powered lasers, continuous lasing, scan strategies, and software/firmware elements.

The A3D team exhibited a high level of expertise and collaboration, allowing TBGA to critically assess each subsystem of the beta machine. We examined software and hardware designs, specifications, scan speed trials, and printed parts (including metallurgical results). We then derived process economic models to compare the A3D beta machine's productivity against industry L-PBF solutions.

Out of this assessment, TBGA concluded:

- Aurora Labs has demonstrated best-in-class optics, controlling 4 x 1500W lasers for high productivity printing.
- Aurora Labs would benefit from partnerships with the following solutions or expertise: industrialized equipment design and production, process monitoring solutions, and user interface platforms.
- All subsystems necessary for producing parts are within Technology Readiness Level 6 to 7.

**TBGA sees A3D's technology contributing to a highly productive, affordable solution for the multi-laser market.**



# A3D Revenue Streams

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Aurora has identified multiple revenue streams in the short and medium term as it commercialises its technology.

Machine Sales	Industrial Print Services	Other
RMP-1 Sales	Local Print Services	Powder Supply
Services & Maintenance	Additive Now	Custom Machine Development
Parameter Licenses		

# Demonstration Print Campaign

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To support its commercialisation efforts, A3D has embarked on an intensive 3 month printing campaign. The campaign will be conducted according to draft aerospace standards AMS7032 and AMS7039 and will:

- Demonstrate the maturity and stability of Aurora's high power printing technology
- Produce quantifiable print outcomes by analysing test artifacts and coupons
- Generate new findings from print log data analysis conducted by TBGA group

# Partnership Opportunity

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A3D is exploring partnership opportunities that can expedite and help deliver its technology to the worldwide market. Partners will gain access to Aurora's technology that has clear differentiation in the market:

**Productivity** – A3D will deliver market leading \$/cc productivity at approx. half the price of competitive systems

**Future Growth Potential** – Taller Z-axis & Increased Print Bed Areas, Shapeable beam technology, Feedstock Cost improvements

**Industrial Printing** – A3D will continue to leverage its industry expertise to provide industrial print services in the resource and energy industries

# Corporate Snapshot

## MARKET CAPITALISATION<sup>1</sup>

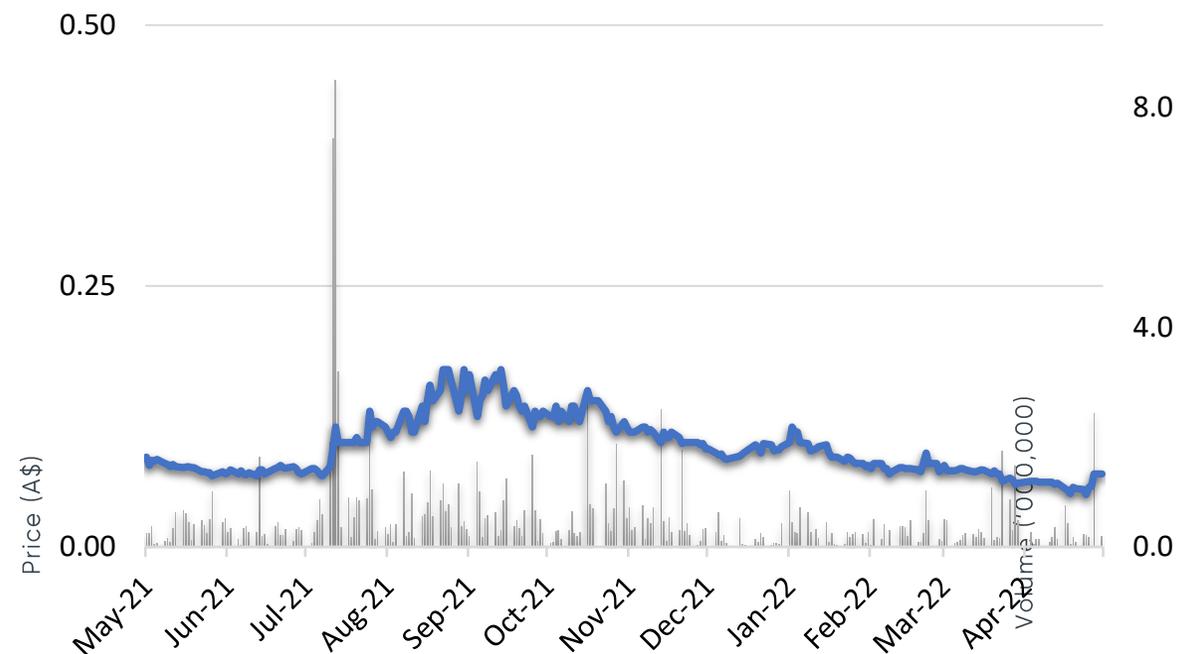
Total Ordinary Shares on issue	no.	184.16 million
Share price (13 May 22)	A\$/share	0.7
Market Capitalisation (13 May 22)	A\$m	12.89
Cash (as at 31 March 22)	A\$m	2.95

## TOP SHAREHOLDERS (13 May 2022)

Name	Shares Held	% of Shares on Issue
Barthen Beheer BV	15,588,235	8.46%
Top 20 Shareholders	60,381,775	32.79%

1. Excludes unquoted options and performance shares.

## SHARE PRICE / VOLUME HISTORY



# Contact Us

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[www.auroralabs3d.com](http://www.auroralabs3d.com)

+61 8 9434 1934

41-43 Wittenberg Drive,  
Canning Vale, 6155, WA  
AUSTRALIA

[enquires@auroralabs3d.com](mailto:enquires@auroralabs3d.com)

ASX:A3D

