



Aurora Labs[®]

**Corporate Update
November 2021**

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CORPORATE SNAPSHOT | ASX: A3D

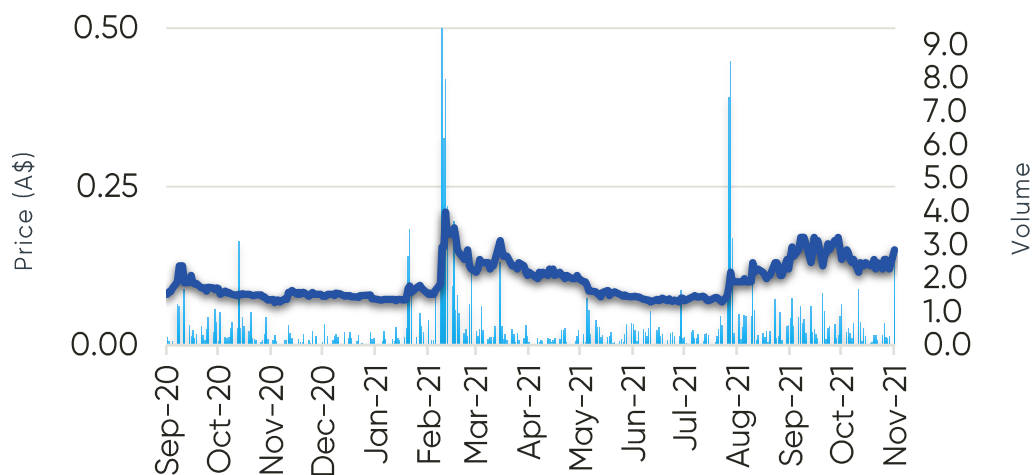
MARKET CAPITALISATION¹

Total Ordinary Shares on issue	no.	152.9 million
Share price (3 Nov 21)	A\$/share	0.14
Market Capitalisation (3 Nov 21)	A\$m	21.40
Cash (as at 30 Sept 21)	A\$m	1.33

TOP SHAREHOLDERS (3 Nov 2021)

Name	Shares Held	% of Shares on Issue
Barthen Beheer BV	15,588,235	10.2%
David Budge	8,548,932	5.59%
Top 20 Shareholders	58,650,844	38.36%

SHARE PRICE / VOLUME HISTORY (A\$; MILLIONS)



KEY PEOPLE

Grant Mooney	Chairman
Peter Snowsill	Chief Executive Officer
Mel Ashton	Non-Executive Director
Terry Stinson	Non-Executive Director
Ashley Zimpel	Non-Executive Director

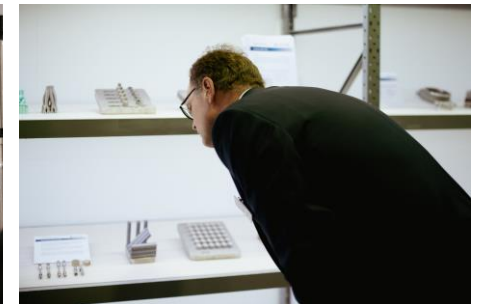
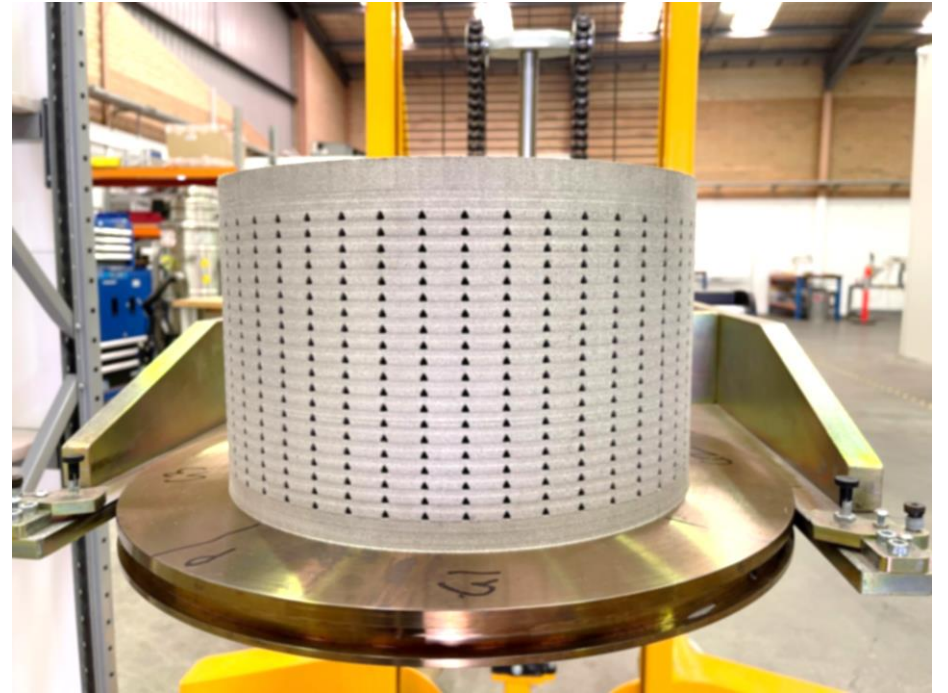
A3D: WHO WE ARE

A3D is a West Australian industrial innovation company developing 3D metal printing technology. A3D has recently completed a Technology Development Pathway and is now transitioning to commercialisation.

The A3D Advantage:

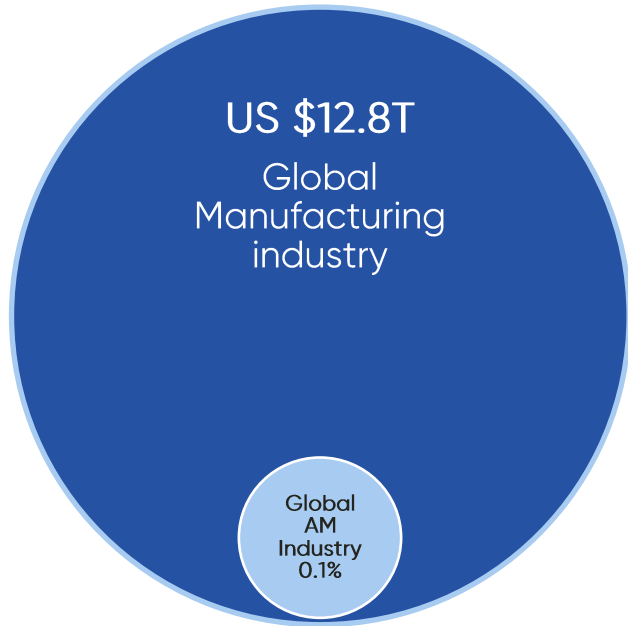
Breakthrough, high-productivity, multi-laser printing.

In-house AM expertise, unique local capability serving WA-based major industries.



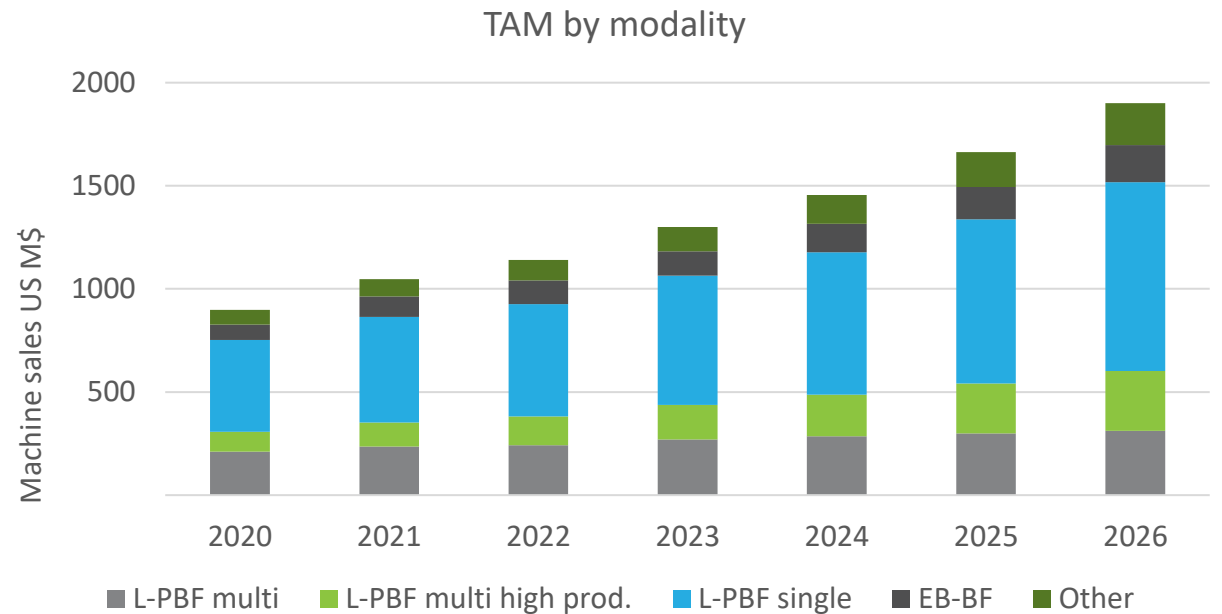
GLOBAL MARKET OPPORTUNITY

Large market, increasingly addressable based on high-power production advantage



In 2020, the worldwide sale of parts produced by AM reached USD \$5.3 billion*

High-productivity, multi-laser market is predicted to triple within the next 5 years



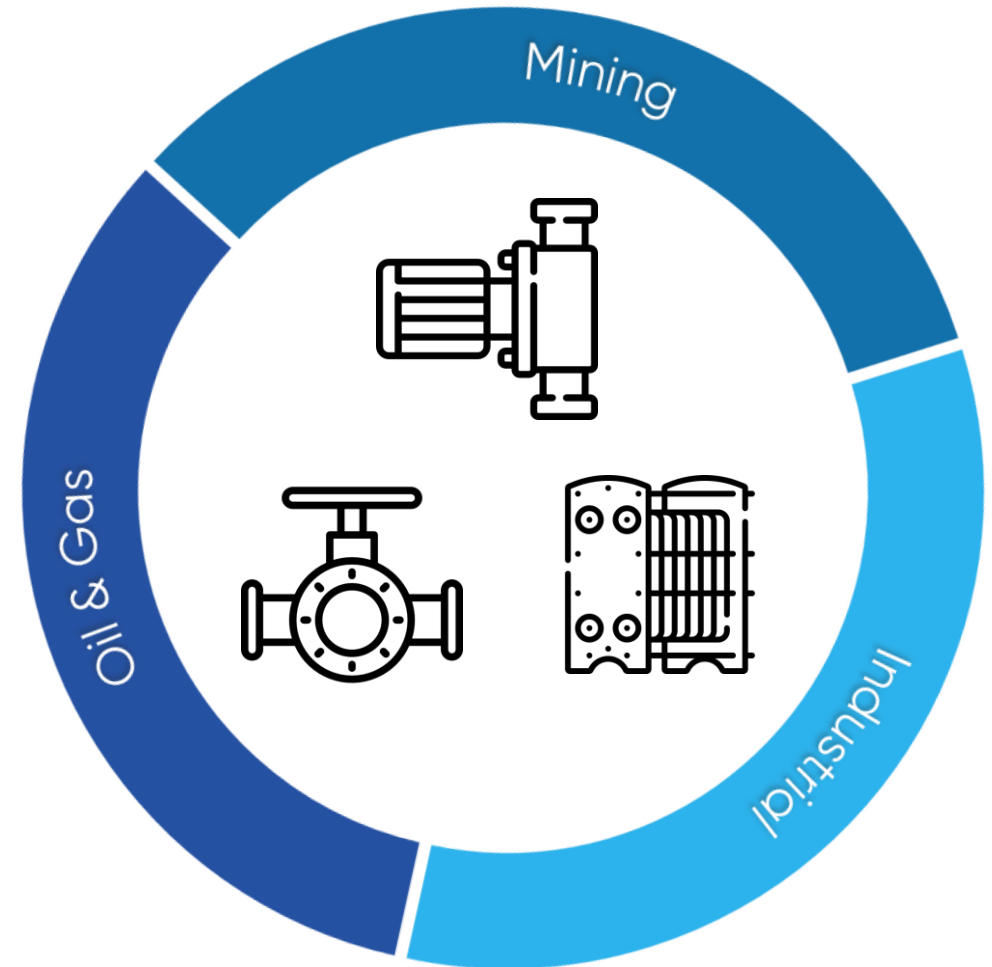
Industrial powder bed fusion (PBF) addressable market**
>\$300k sales price

High prod multi laser sub segment - ~\$100M in 2021 growing to ~\$300M by 2026

TARGET MARKET

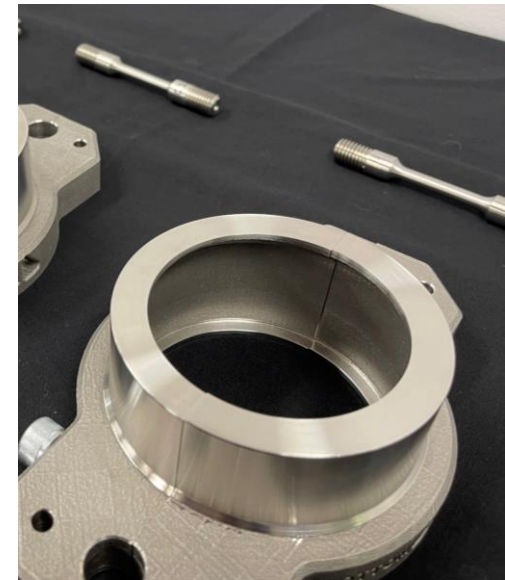
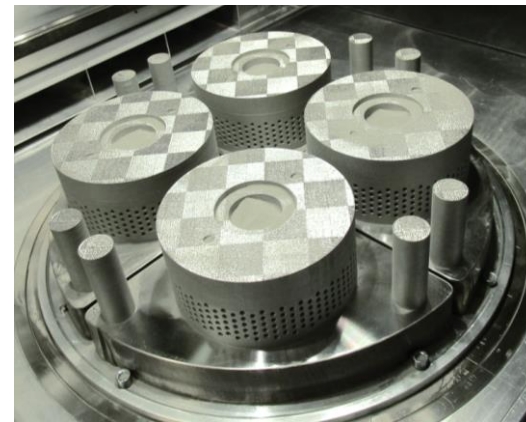
Major global equipment sectors including **pumps**, **valves**, and **heat exchangers** are identified as prime candidates for design for additive manufacturing.

Metal 3D printing has real applications in these sectors, which are relevant to multiple high value market opportunities, including **oil & gas**, **mining** and **industrial**.



WHY 3D METAL PRINTING?

Local industries are asking for **quality parts** with **complex internal features** which can dramatically **reduce replacement part lead times**, inventory levels, and potentially **improve performance**.



A3D is targeting high-power printing resulting in high-quality parts to address this demand.

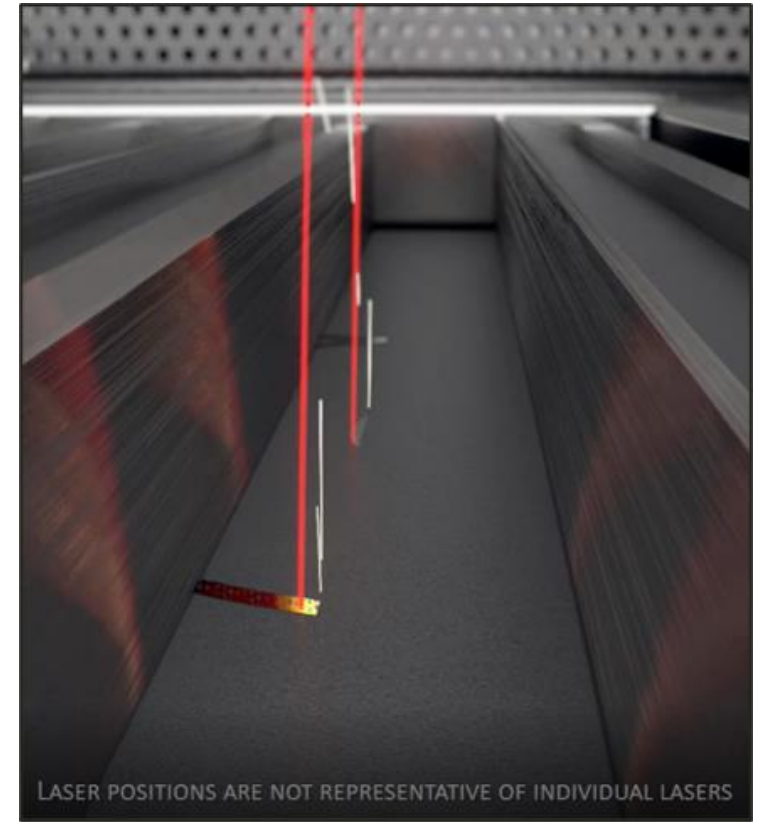
THE TECHNOLOGY

A3D is developing a suite of powder bed fusion (PBF) 3D metal printing technologies with a focus on high-power lasers.

1.5kW laser printing exceeds known competitor laser power input by significant margins.

Through our multi-laser, high-power process, we are achieving industry standard qualified, high productivity printing, which can translate into cost savings for future customers.

[View customer printing for Milestone 4 using the A3D 1.5kW parameter sets](#)



LASER POSITIONS ARE NOT REPRESENTATIVE OF INDIVIDUAL LASERS

THE BARNES GLOBAL ADVISORS (TBGA)

A3D engaged with respected AM consulting firm TBGA for a comprehensive analysis of the 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.

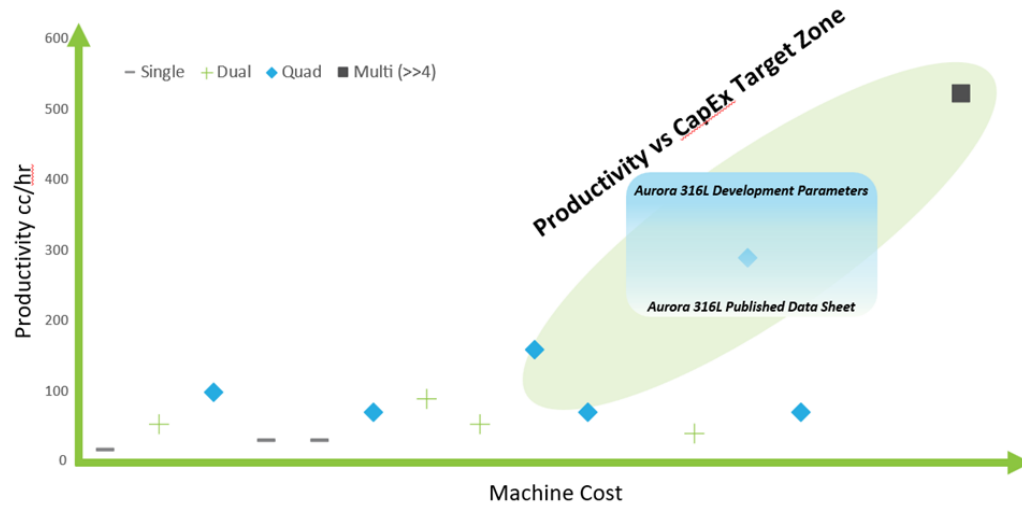
TBGA sees A3D's technology contributing to a highly productive,
affordable solution for the multi-laser market.



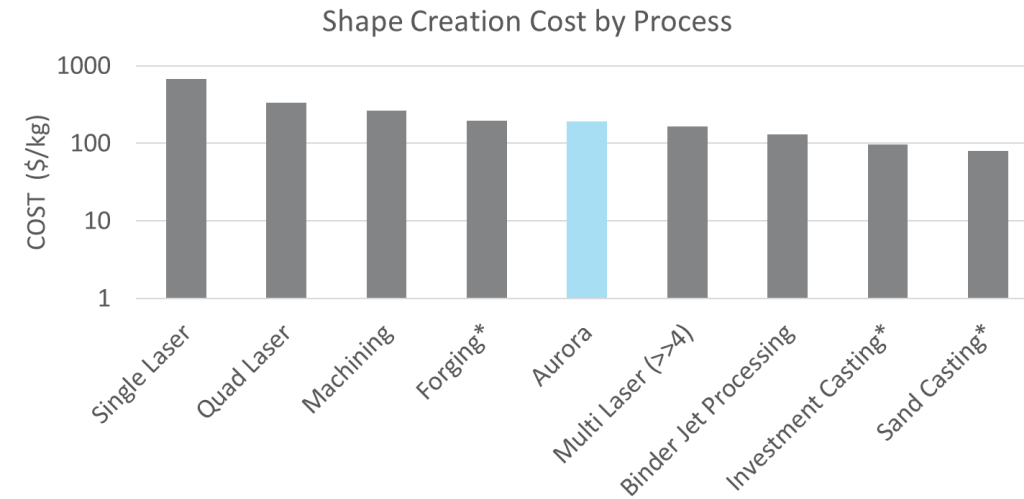
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THE BARNES GLOBAL ADVISORS (TBGA)

Laser PBF Machine Landscape



Cost Comparison for Shape Creation Processes



A3D process is competitive against AM & traditional processes for the same design and could compete with lower cost processes with DfAM.

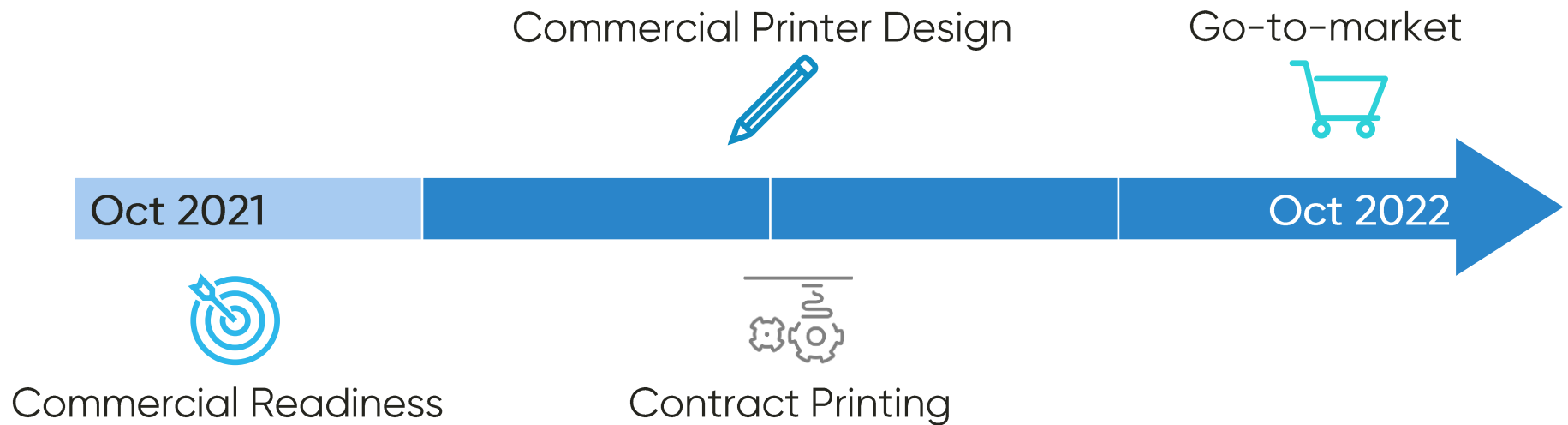
COMMERCIALISATION STRATEGY

Commercial Readiness Milestone 4 complete, validated by independent assessment and successful customer printing

Commercial Printer Design Design for manufacture of commercial printer

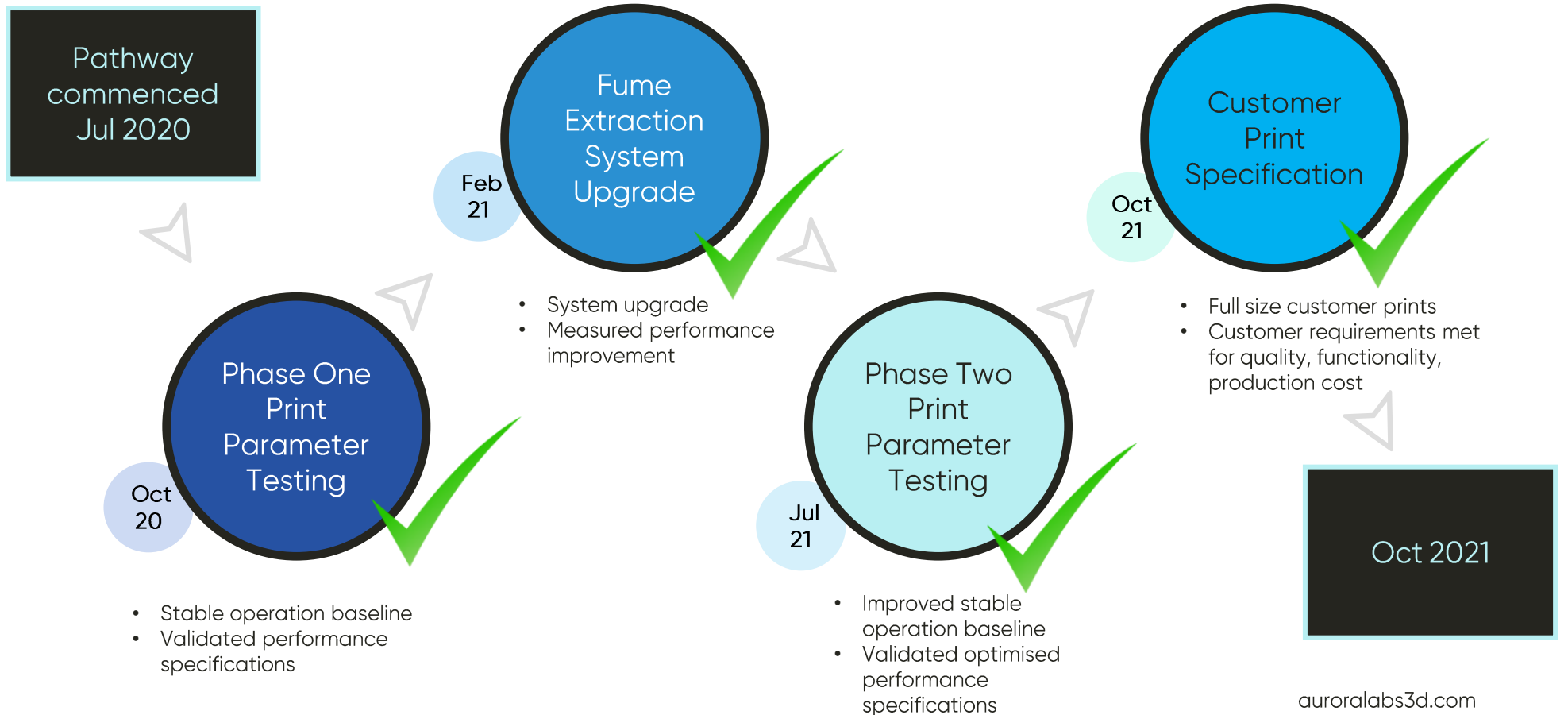
Contract Printing Demand-driven printing with current prototypes and pre-commercial RMP-1

Go-to-market Partnerships & contract manufacture



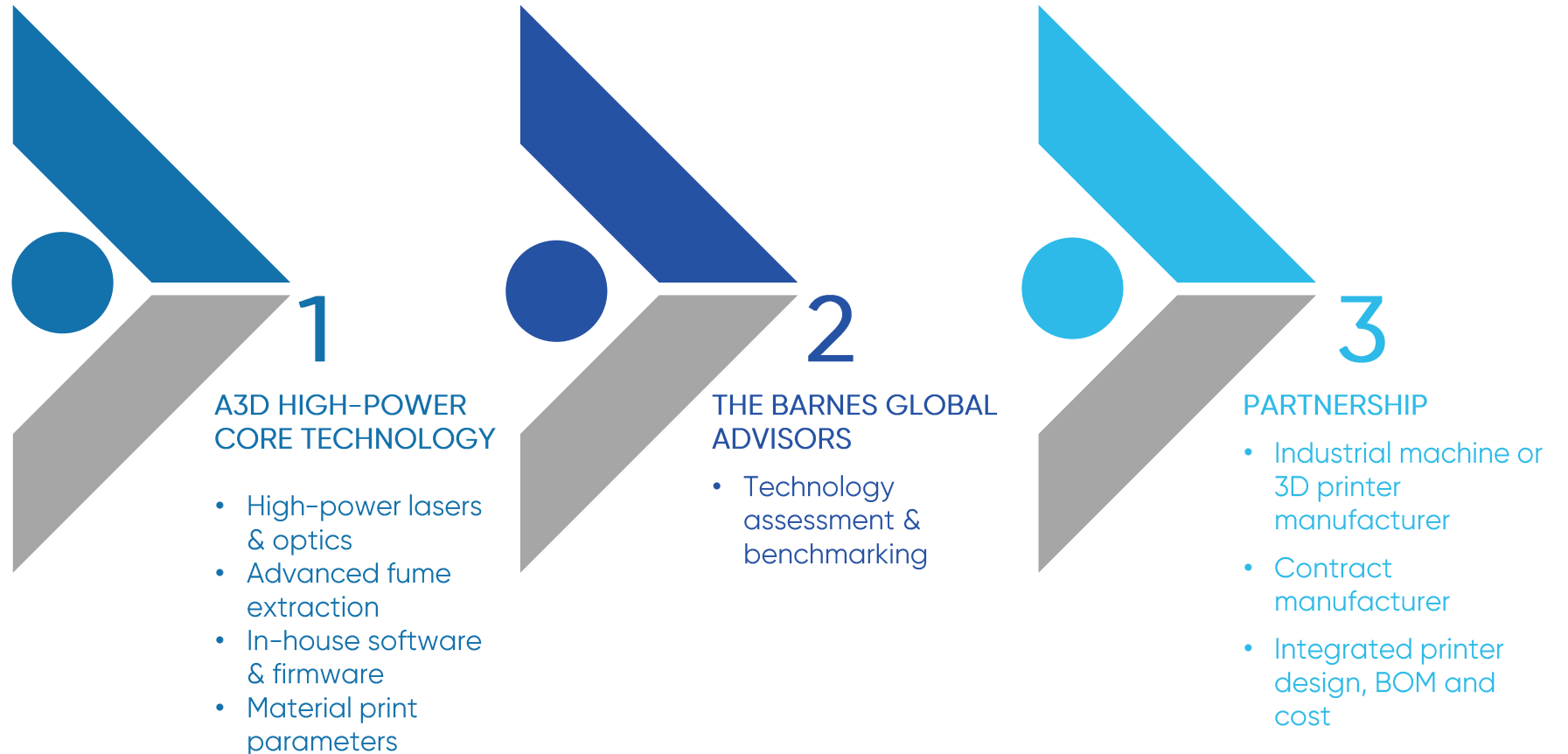
COMMERCIAL READINESS JOURNEY

Technology Development pathway completed October 2021



COMMERCIAL PRINTER DESIGN

Design for manufacture of commercial printer



CONTRACT PRINTING

Revenue from demand driven ramp-up
of AdditiveNow & A3D client printing
Current prototypes & Pre-commercial RMP-1



Oil & Gas



Mining & Industrial



Defence



Pre-commercial RMP-1 provides expanded print capacity & capability including additional printer features, materials and applications

AdditiveNow blends Worley's engineering expertise with A3D's advanced 3D printing to design, produce and deploy complex components for energy, chemical and resources operators.

A3D / AdditiveNow PARTNERS



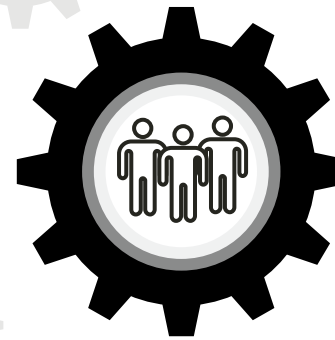
GO-TO-MARKET



Commercialisation options include licensing of IP, JV, machines sales, A3D built printers



Licensing IP or Joint Venture favoured due to A3D expertise, time to revenue, investment and risk to achieve



Potential partners

- Laser-PBF OEM with market gap
- AM OEM with no Laser-PBF offering
- Machine builder expanding to AM

WHY INVEST IN AURORA LABS?



Technological advantage

High-productivity, affordable solution for the multi-laser metal printing market



Demand driven printing

Matching high-productivity printing to deliver customer cost savings, harnessing WA industry demand for local capability



Growing AM market

Capitalise on growing \$12.8b global AM market with focus on major parts sectors, e.g. heat exchangers, pumps and valves within regional oil & gas, mining and industrial markets



In-house AM skills with proven experience

Leading WA printing technology development, research capability, and service delivery



Go-to-market strategy

Collaboration or joint venture with machine builder for commercial printer

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