

ersonal use only

**AMAERO**  
ADDITIVE MANUFACTURING



# INVESTOR PRESENTATION

ASX:3DA

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# ABOUT US

**Amaero was established in 2013, to commercialize additive manufacturing of metals and alloys technologies developed by Monash University. Our combination of patented and proprietary optimized alloy powders are uniquely suited to address defense, aerospace, automotive and industrial tooling requirements.**

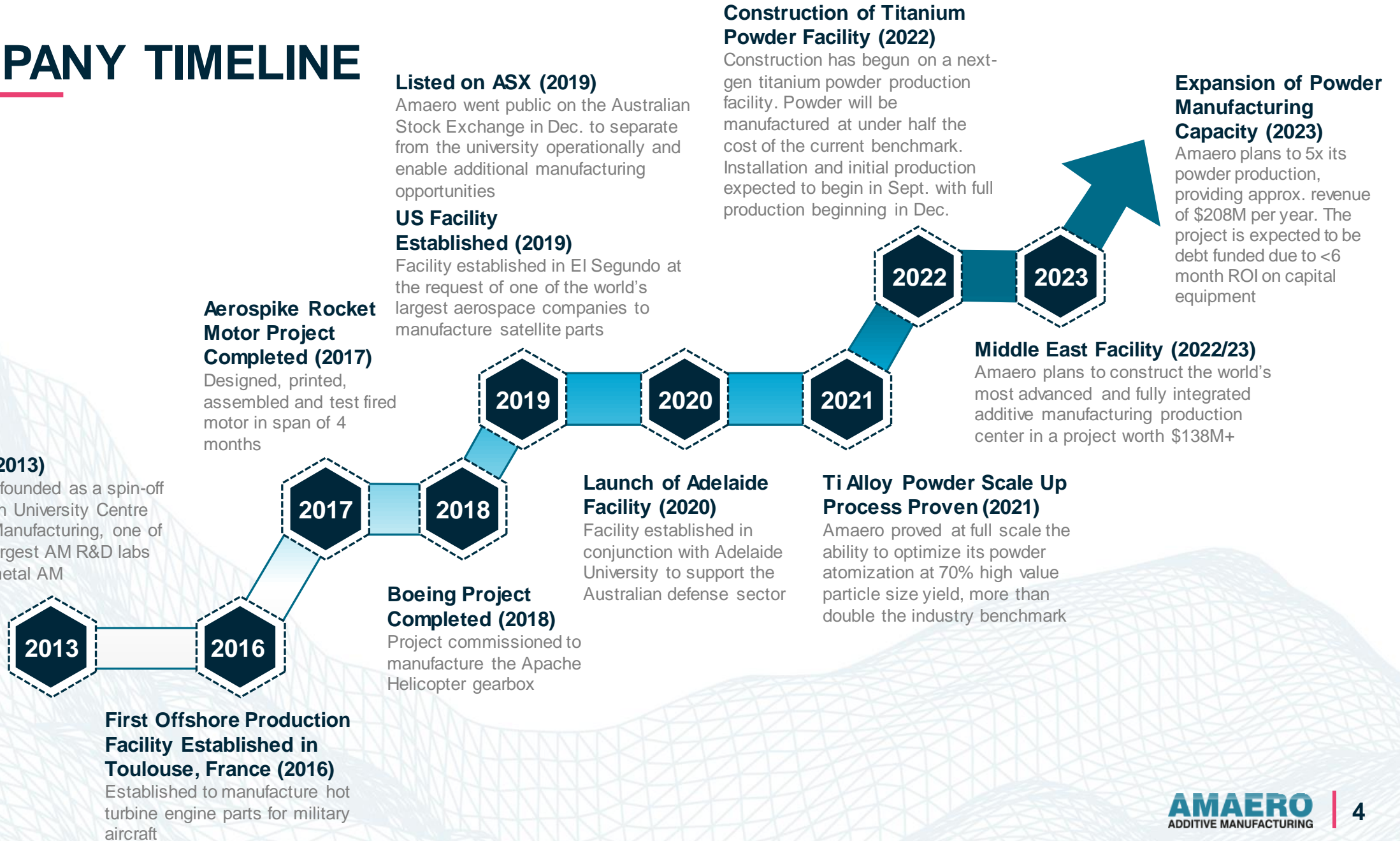
Amaero's process and parameter acumen leverage the Company's relationships with the largest production equipment and end-part global manufacturers. As the industry continues to mature, Amaero has sharpened its focus to become a leader in advanced materials providing proprietary alloy powder solutions to its clients. Amaero has now qualified more alloy powders for aerospace and defense applications than any other group. Amaero is expanding these technical and manufacturing capabilities to position itself as a global supplier of incumbent and next-generation powders to the broader 3D printing sector.

Amaero has operations in Australia and the USA with projects in the Middle East expected to commence in 2022.



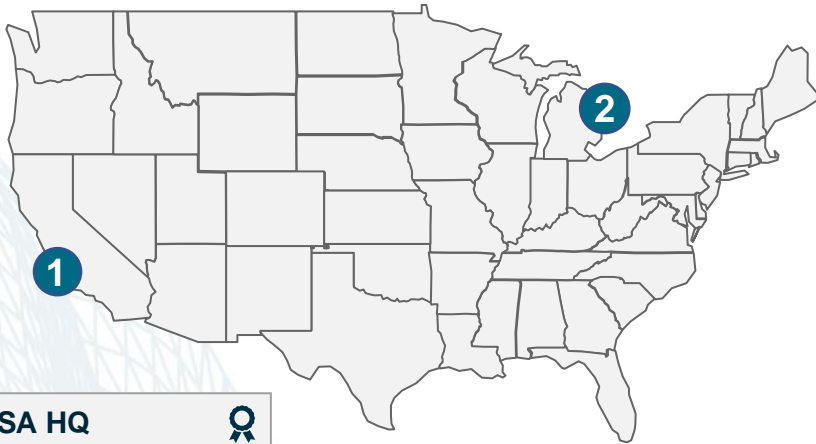
# COMPANY TIMELINE

(\$ in AUD)



# INTERNATIONAL PRESENCE

## UNITED STATES



**1 USA HQ** 


El Segundo

Employees	LPBF Printers
   	 
  	 

**2 Sales Office**

Chesterfield

Employees



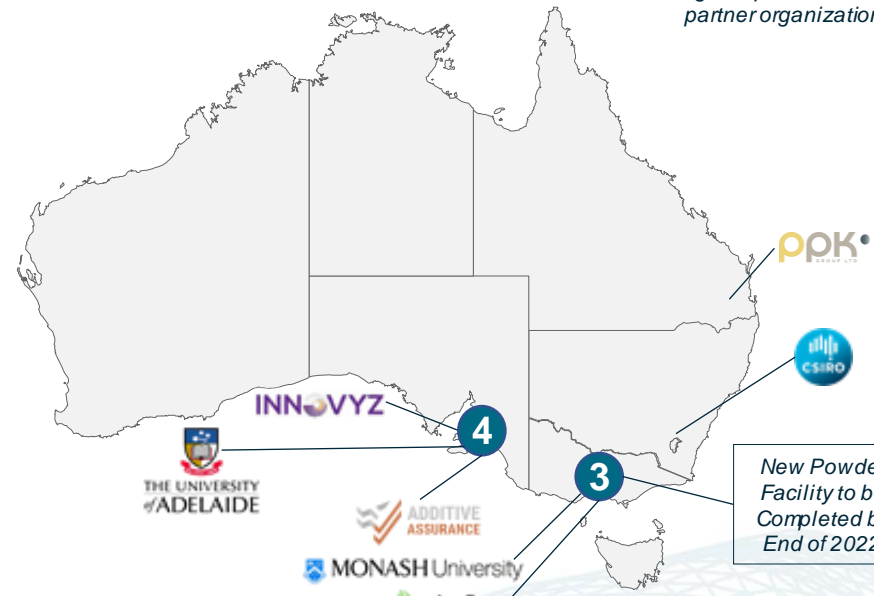
## MIDDLE EAST





*Project expected to commence in 2022*













## AUSTRALIA

*Logos represent select partner organizations*



**3 Company HQ**  

Notting Hill

Employees	LPBF Printers
   	  
  	 

**4 Print Facility**  

Edinburgh North

Employees	LPBF Printers
  	 
	 

*New Powder Facility to be Completed by End of 2022*

-  Powder Production Facility
-  AS9100D Certification
-  ISO9001 Certification
-  DISP Certification

# STRONG RELATIONSHIP WITH MONASH UNIVERSITY

MCAM is now the world's largest university research centre for metal additive manufacturing

(\$ in AUD)

## CENTRE FOR ADDITIVE MANUFACTURING

### Overview



75,000+ sq. ft. of combined R&D space between MCAM & Amaero



\$45M of printers & equipment between MCAM & Amaero



60 world-class researchers & technical staff



Proprietary expertise on 6 industry-leading metal powder printer brands



39 individual 3D printed parts qualified and used in civil aircraft

### Collaborations & Partnerships



## KEY RELATIONSHIP DYNAMICS

- + Amaero receives access to leading research and development capabilities at cost
- + Monash University is one of Amaero's largest shareholders cementing a strong partnership with aligned long-term objectives. Together they have received approximately \$90M+ in grants and investment funding
- + MCAM is an educator to the world for graduate and post-graduate degrees in additive manufacturing, with 70%+ of their students from countries other than Australia
- + Amaero has the ability to leverage Monash's broad network of partners

# EXPERIENCED BOARD AND SENIOR MANAGEMENT

**DAVID HANNA**  
CHAIRMAN



Director of Business Strategy for Monash University from 2012 - 2021, where he led a team that provided strategic support and financial advice in relation to the University's major investment decisions.

15 years in a variety of senior management positions in the Victorian Government, focused mainly around economic development policy, international policy and operations and innovation policy.

Formerly worked for Commonwealth Government of Australia, including 3 years on the personal staff of then Prime Minister of Australia, the Honorable Bob Hawke.

**STUART DOUGLAS**  
EXEC. DIRECTOR



Executive Director since May 2019, providing strategic and operational advice to management and preparing the Company for capital raisings and scaling its operations in preparation for its anticipated IPO.

Stuart has successfully taken 3 startups through to ASX listing in the past 4 years. He implemented a similar strategy for Titomic Limited (ASX:TTT), which was the No. 1 new listed entity of 2017/18 on ASX and it won "Broker Deal of the Year". He is co-founder of Innovyz, Australia's leading commercialization firm that works with universities and research institutes and has assisted more than 80 early-stage innovations to commercialize.

**KATHRYN PRESSER**  
NON-EXEC. DIRECTOR



Kathryn previously served as CFO and Company Secretary for Beach Energy Limited (formerly Beach Petroleum Limited) (ASX:BPT), assisting the company from a junior explorer through numerous capital raisings as the CFO and then scaling for growth to become an ASX100 company. Kathryn is an executive director on various influential boards including a large credit union and one of Australia's largest superannuation funds.

She holds extensive experience in governance, risk and financial reporting and management, and she also serves as Chair of the Audit & Risk Committee to oversee the financial elements of the business as well as providing direction to the Company Secretary.

**BARRIE FINNIN**  
CEO



Barrie is an experienced executive who has created a number of spin-off ventures, co-operative research centers and start-ups and has worked in many different roles including CEO, Director and general management.

He has established several greenfield manufacturing facilities from the ground up in Australia, France, USA and Mexico.

He led manufacturing research for transport and mining at CSIRO (Australia's peak research laboratory with 5,100 staff, of which more than two-thirds were researchers, making it one of the world's largest research laboratories) for more than 12 years and has been involved in the manufacturing industry for over 25 years.

**KEN DAVIS**  
VP NORTH AMERICA



Ken brings to Amaero a deep knowledge of additive manufacturing and strong relationships with key customers.

Previously Director of Additive Manufacturing and site leader of mould, the world's only NADCAP approved site for AM using LPBF & EBPBF.

Ken's knowledge of qualification processes for AM and aluminum powder metallurgy will enable rapid qualification acceptance by BDS.

**DR. JAMES SEARS**  
CHIEF TECH. FELLOW



Jim has had leadership and engineering roles in GE Research, Carpenter Technology Corporation and Lockheed Martin.

He has over 35 years experience in metallurgical engineering and extensive knowledge in metal additive manufacturing and powder production. Jim has designed and built, commissioned and operated more titanium powder manufacturing facilities than any other person on Earth.

At Amaero, Jim is responsible for the quality systems, powder production development and metal 3D printing processes.

# ADVISORY BOARD

## ADDITIONAL ADVISORY BOARD MEMBERS

+ Advisor Aviation and Aerospace, Former Boeing Executive

### DAVID WOLF COUNTER TRADE AND DEFENSE OFFSETS ADVISER



David is founder and President of Fremont Group, LLC since 1994. Fremont's business includes private equity advisory, origination and investment in international joint ventures and predominantly defense offset projects, primarily in Europe, India and the Middle East.

David co-founded and is Chief Operating Officer of Biovec, LLC and Biovec Transfusion, LLC, both biotechnology research companies involved in gene therapy and platelet preservation technologies with research activities in the Netherlands, Denmark and the US.

As a principal or consultant, David has been involved in over \$10 billion of acquisitions, developments and financings. David serves on the Governing Board of the Bulletin of the Atomic Scientists and was an Executive Board Member of the US-India Business Council for over 15 years.

### CHRISTOPHER PYNE AUSTRALIAN DEFENSE INDUSTRY ADVISER



Christopher recently stepped back from politics and from his former role as the Federal Minister for Defense, where he was responsible for the strategy and delivery of more than \$200 billion of defense capabilities, Australia's largest investment in peace time history.

During his 3 years as a Cabinet Minister in the defense portfolio, he created and implemented the Defense Export Strategy, the Defense Industrial Capability Plan and the Naval Shipbuilding Plan. Christopher also delivered the outcomes of the Defense Industry Policy Statement by creating the Defense Cooperative Research Centre, the Centre for Defense Industry Capability, the Defense Innovation Hub and the Next Generation Technology Fund.

He served under 4 Prime Ministers, as a Minister in the Howard, Abbott, Turnbull and Morrison governments; he served as Minister for Ageing, Minister for Education and Training and Minister for Industry Innovation and Science, in addition to his roles in the Defense portfolio.

### TUAN TRANPHAM AM MACHINE MARKET ADVISER



Tuan is well-known as an industry expert and leading business development executive within the 3D printing industry. Mr TranPham previously held the position of Chief Revenue Officer at Desktop Metal, a leading US based 3D printing company, where he was responsible for their revenue model and built the pipeline that enabled its transformation from a private company to a NYSE-listed company with the largest market capitalization of any listed 3D printing company globally at the time.

He has many years of experience amongst cutting edge 3D printing companies, across key roles including National Sales & Marketing Director for GE Additive (formerly Arcam Ab), National Sales Manager for Stratasys, and National Sales Manager for 3D Systems. Together these three companies, as well as Desktop Metal, make up 4 of the top 5 3D printing companies worldwide.

Tuan brings significant relationships, partnerships and expertise to Amaero's machine sales and service team.

### EMBARGOED ADVISOR GLOBAL DEFENSE INDUSTRY AND GEOPOLITICS

Former US Secretary of Defense.

Long history in the US defense space.

Provides advice on geopolitical issues.



# DASHBOARD

WE SERVE COMPANIES AT THE FOREFRONT OF THEIR INDUSTRIES

AEROSPACE & DEFENSE

INDUSTRIALS



## OUR MISSION

+ We offer full-service bundled solutions to our clients across three key areas

## 1 ADVANCED MATERIALS SCIENCE / CONSUMABLES

+ Our portfolio of proprietary alloys and alloys that have been qualified for a variety of customer-specific applications

- + Ti6Al4V
- + AISi10Mg
- + AISi7Mg
- + 316L Stainless Steel
- + Inconel 625
- + Inconel 718
- + Hastelloy X
- + Invar 36
- + MS1 Maraging Tool Steel
- + H-13 Tool Steel
- + CoCr Alloys

## 2 IP LEADERSHIP

+ Our depth of expertise enables us to support our customers across an array of manufacturing processes and needs

+ Our suite of Laser Power Bed Fusion systems can meet a broad ecosystem of additive manufacturing needs

- + LPBF Machines
- + LPBF, DED, BinderJet parameters
- + Alloy Development
- + Metallurgical Testing
- + Modelling and Simulation
- + Powders for AM
- + Tooling Cores and Inserts
- + Design for AM

## 3 PLATFORM AGNOSTIC CAPABILITIES

+ Our platform agnostic approach enables our customers to scale their additive capabilities thereby creating additional opportunities in consumables and systems

CONCEPTLASER



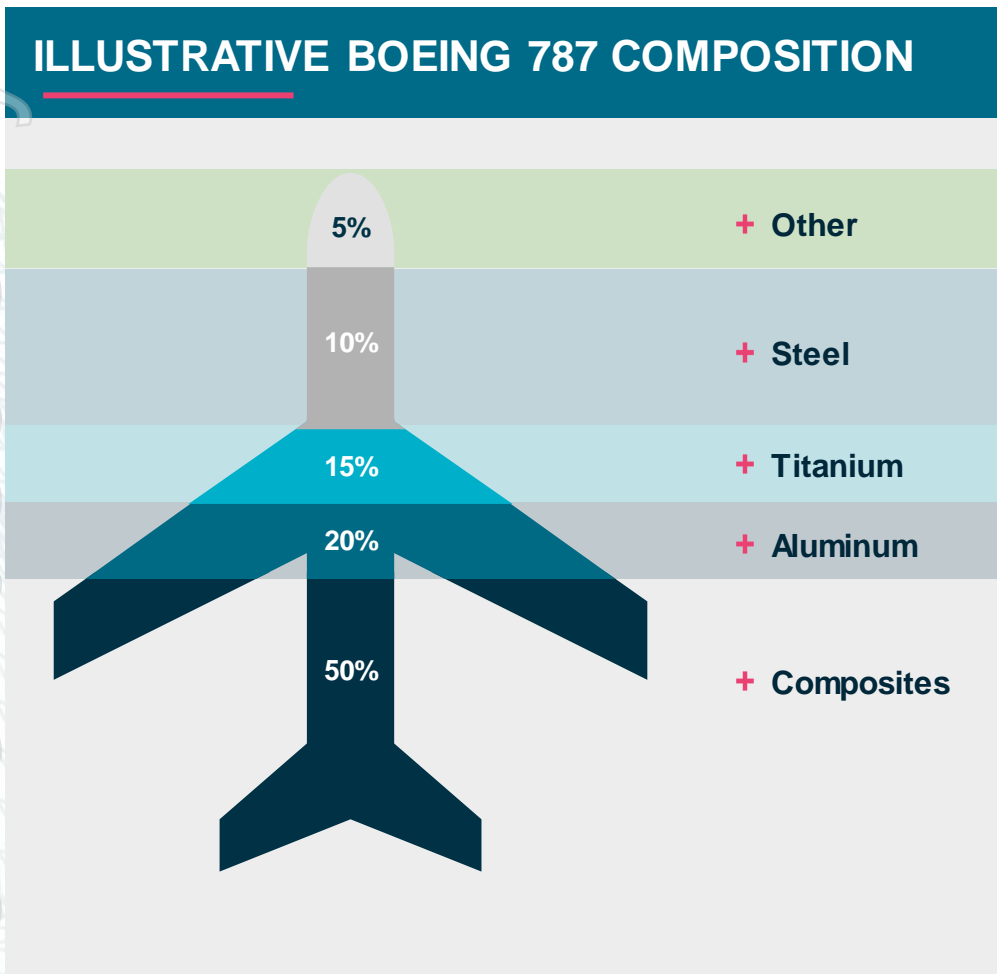
RENISHAW  
apply innovation™



1

# AMAERO'S SUPERIOR PORTFOLIO OF QUALIFIED MATERIALS ARE UNIQUELY SUITED TO OUTPERFORM IN A&D VERTICAL APPLICATIONS

(\$ in AUD)



### 2022E COMMERCIAL AERO Ti SAM

~\$3.5B

### 5YR COMMERCIAL AERO TAM

~\$33B

### AMAERO'S MATERIALS PORTFOLIO SERVES MULTIPLE NEEDS IN A&D

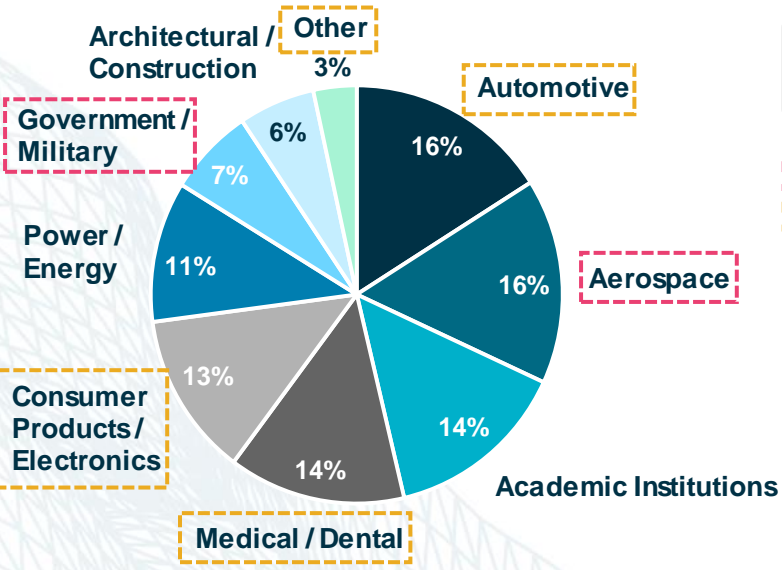
Titanium	Aluminum	Steel	Other
+ Ti6Al4V	+ AlSi10Mg + AlSi7Mg	+ 316L Stainless Steel + MS1 Maraging Tool Steel + H-13 Tool Steel	+ Inconel 625 + Inconel 718 + Hastelloy X + Invar 36 + CoCr Alloys

Source: Carnegie research, Wall Street research and publicly available information.

# LARGE & GROWING 3D PRINTING MARKET OPPORTUNITY

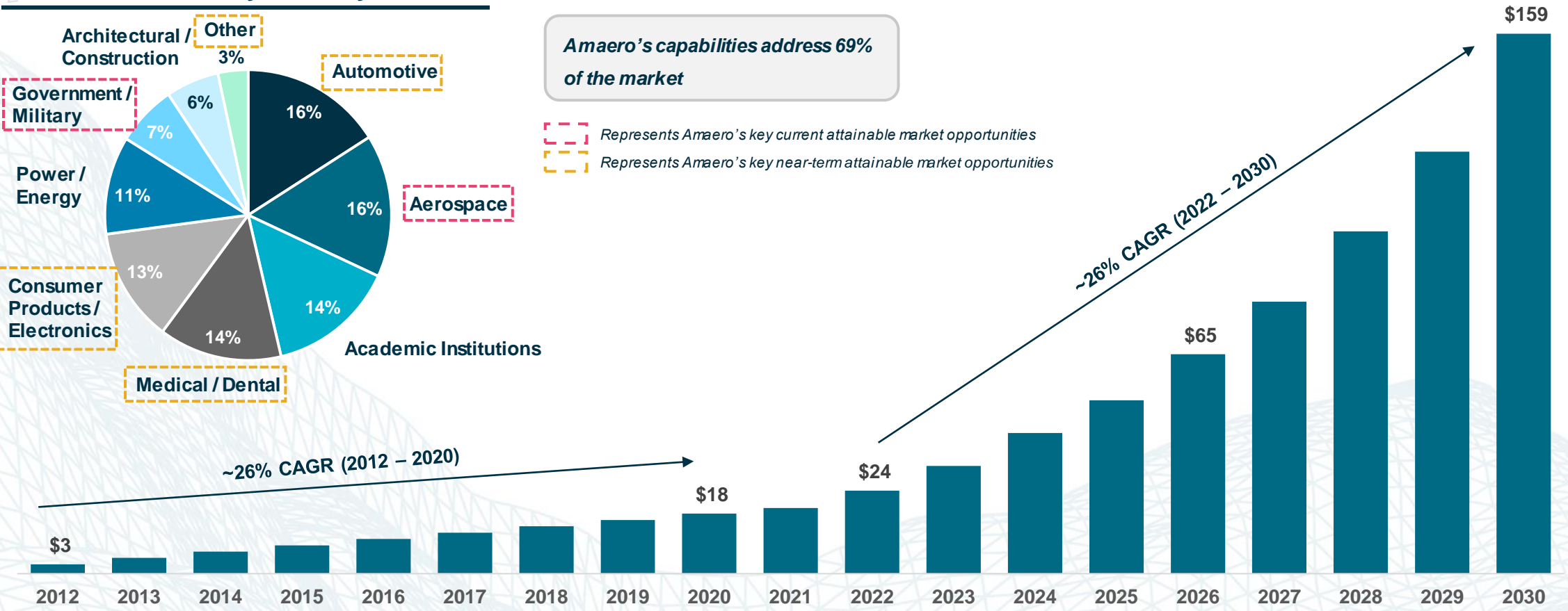
## ESTIMATED ADDITIVE MANUFACTURING TAM (\$AUD in billions)

### 2020 Market Size by Industry



*Amaero's capabilities address 69% of the market*

- Represents Amaero's key current attainable market opportunities
- Represents Amaero's key near-term attainable market opportunities



Source: Wohler's.

# GLOBAL EVENTS SHAPE AMAERO'S MARKET OPPORTUNITIES

## Boeing's Big Bet on Russian Titanium Includes Ties to Sanctioned Oligarch

"Plane maker has suspended buying the metal from Russia... Boeing has been getting about a third of its titanium from Russia."

- March 7, 2022

WSJ

## Denmark to Increase Defense Spending and Phase Out Russian Natural Gas

"Denmark will significantly increase its defense budget and aim to become independent of Russian natural gas in response to Moscow's war on Ukraine, Danish Prime Minister Mette Frederiksen said in a press conference Sunday evening... Under an agreement between Denmark's main parliamentary parties, the country will gradually increase its defense budget until it reaches 2% of GDP by 2033."

- March 7, 2022 POLITICO

## France to Increase Defense Spending in Response to Russian Invasion

"French President Emmanuel Macron pledged to increase France's defense spending and called for a more sovereign and independent Europe to counter what he said is a new era signaled by Russia's invasion of Ukraine."

- March 2, 2022

WSJ

## Germany to Increase Defense Spending in Response to 'Putin's War' – Scholz

"Chancellor Olaf Scholz said on Sunday Germany would sharply increase its spending on defense to more than 2% of its economic output in one of a series of policy shifts prompted by Russia's invasion of Ukraine... Scholz said the government had decided to supply 100 billion euros for military investments from its 2022 budget."

- February 27, 2022  REUTERS

## 3D Printing Included in White House's Updated List of Critical and Emerging Technologies

"The White House has included additive manufacturing within its updated list of critical and emerging technologies that are important to US national security."

- February 14, 2022

 3D Printing Industry

## Department of Defense Unveils Additive Manufacturing Strategy

"The US Department of Defense has released its first-ever comprehensive additive manufacturing strategy... Unveiled in January, the strategy outlines the key ways in which additive manufacturing is supporting the US' economic and defense activities, the first of which involves using equipment designed via 3D printing to modernize its national defense systems and subsequently improve their performance."

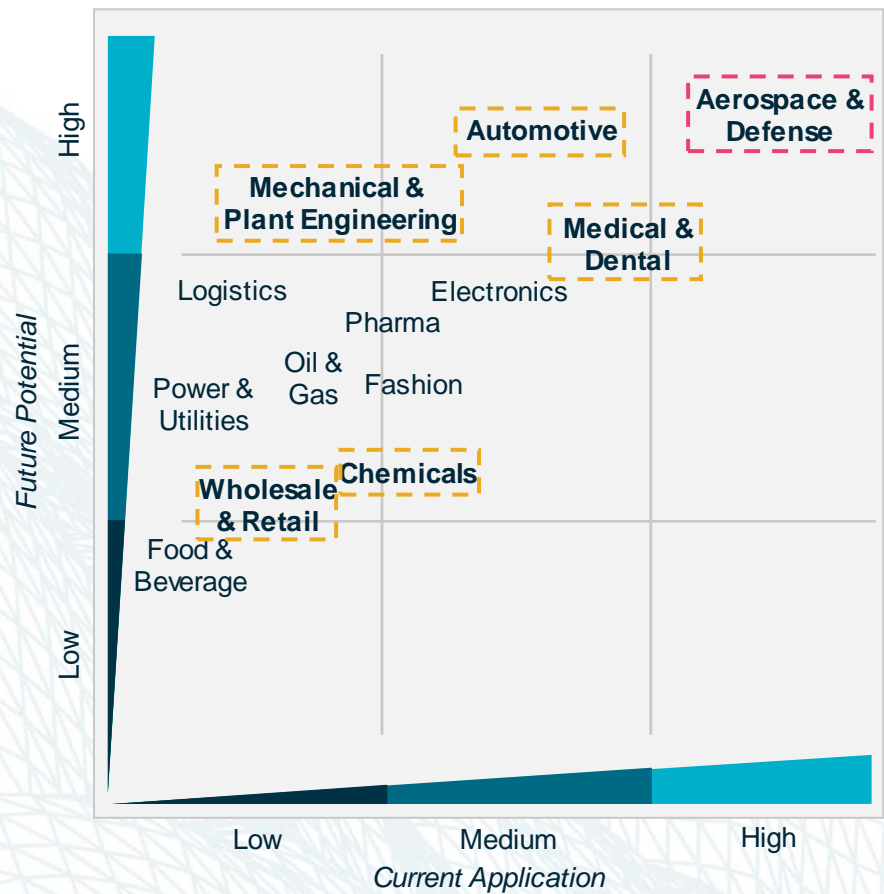
- February 4, 2021

 3D Printing Industry

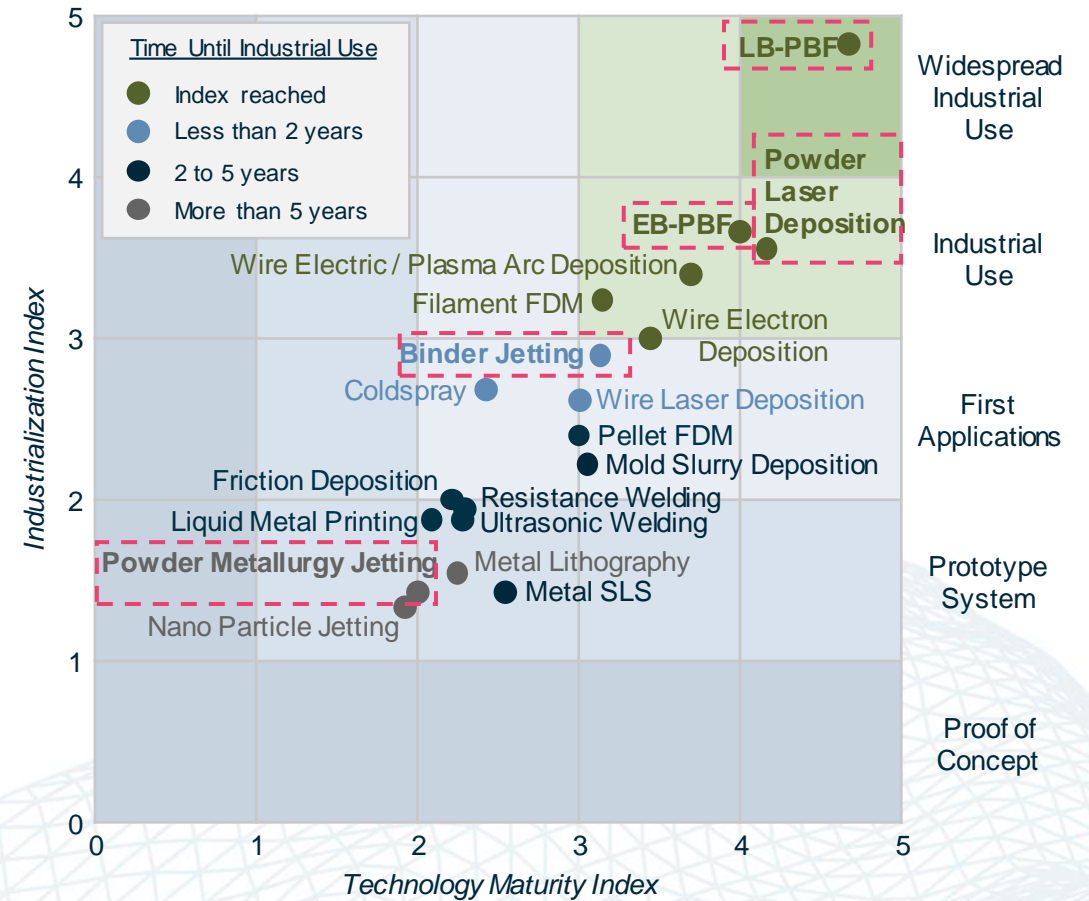
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# IN MEETING THE PERFORMANCE DEMANDS OF HIGHLY ENGINEERED MATERIALS, AMAERO IS WELL-POSITIONED TO SERVE THE ENTIRE MARKET

## 3D PRINTING INDUSTRIAL LANDSCAPE<sup>(1)</sup>



## METAL AM MATURITY INDEX 2021<sup>(2)</sup>



  Represents Amaero's Key Current Attainable Market Opportunities  
  Represents Amaero's Key Near-Term Attainable Market Opportunities

(1) Source: EY-Parthenon 3D Printing Perspectives.  
 (2) Source: Ampower.

## PROPRIETARY PROCESS KNOWLEDGE

Amaero has over 160 individual items in their IP register covering patents, proprietary know-how, parameter development, etc.

- + Powder Manufacture and Optimization for AM
- + Metal AM Processes and Optimization
- + Alloy Development
- + SLM, DED Technologies
- + First Article Qualification
- + Serial Production
- + Machine Sales and Service
- + Prototype Development
- + Metallurgical Testing
- + Modelling and Simulation
- + Heat Treatment
- + Multi-Material Structures
- + Tooling Cores and Inserts
- + Design for AM
- + Post-Processing and Finishing
- + Non-Destructive Testing
- + Repair (Laser Cladding)
- + Laser Joining

***Amaero's proprietary laser powder bed fusion machines strategically address identified gaps in the market***

## PRODUCTION-FOCUSED SYSTEMS TECHNOLOGY



100 Ø x 80mm  
build volume



250 x 250 x 400mm  
build volume



400 x 400 x 400mm  
build volume



500 x 250 x 260mm  
build volume



800 x 600 x 600mm  
build volume



DU40  
Decanting Unit



PS20 / PS60  
Pow der Storage



PS20 / PS60  
Pow der Storage



VC40  
Vacuum Unit



G4  
Glove Box Unit

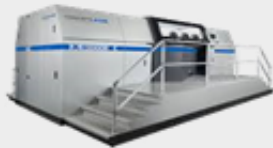
# PLATFORM AGNOSTIC CAPABILITIES

## PROPRIETARY DOMAIN EXPERTISE ACROSS PRODUCTION SYSTEMS

CONCEPTLASER



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apply innovation™



Source: Publicly available information.

## PROCESS KNOWLEDGE IS ESSENTIAL FOR SUPERIOR OUTCOMES



Source: LinkedIn.

*Additive manufacturing using the same powder, similar laser spot size and the same recoater but different process parameters*

Domain knowledge and operating expertise (e.g., parameter optimization) are essential

# SUMMARY BUSINESS UPDATE

(\$ in AUD)

Project	Overview	Consumables	Services	Systems
<b>Titanium Powder Plant</b>	<ul style="list-style-type: none"> <li>+ Amaero is currently constructing their proven and proprietary titanium alloy powder manufacturing plant in Victoria, Australia. The first module (Module 1) will provide revenues of ~\$42M per year with the highest margins in the industry. Once fully operational (Dec. 22) a further 4 modules are planned for purchase via debt funding. These modules have a capex ROI of under 6 months. Once all 5 modules are in place they will produce ~\$208M per year revenues</li> </ul>	✓		
<b>Middle East</b>	<ul style="list-style-type: none"> <li>+ Amaero to establish new facilities for 3D printing and titanium powder manufacturing</li> <li>+ Project expected to be worth more than \$138M and will be the largest metal 3D printing facility of its type globally</li> <li>+ Heads of Agreement (HoA) expected to be signed and contract negotiations to commence by Q2 CY22</li> </ul>	✓	✓	✓
<b>Boeing</b>	<ul style="list-style-type: none"> <li>+ Purchase order for evaluation parts</li> <li>+ Further purchase orders expected on multiple projects</li> <li>+ Amaero building out its US facilities to cater for expanded relationships with Boeing's various divisions at their request</li> </ul>		✓	
<b>Fletcher Insulation</b>	<ul style="list-style-type: none"> <li>+ Testing and developing an additive manufacturing tooling application for Fletcher's Glass "pink batts" insulation systems</li> <li>+ HoA expected to be signed Q2 CY22</li> <li>+ Project potential for 3D printed tools for this application is up to \$415M per year</li> </ul>		✓	✓
<b>Rio Tinto</b>	<ul style="list-style-type: none"> <li>+ Collaboration for the development of the supply chain for Amaero's high performance, High Operating Temperature Aluminium Alloy, "Amaero HOT Al"</li> <li>+ Rio Tinto providing alloy billets to Amaero for processing into powder for 3D printing</li> <li>+ Companies aim to scale out production of Amaero HOT Al in Australia and internationally and via Rio Tinto distribution channels</li> </ul>	✓	✓	
<b>Gilmour Space</b>	<ul style="list-style-type: none"> <li>+ HoA secured in Q2 FY21</li> <li>+ Expected to lead to a long-term supply agreement for the manufacture of rocket components</li> <li>+ Production of the components for the supply agreement commenced in Q4 CY21</li> </ul>		✓	
<b>Next-Gen Alloy Development</b>	<ul style="list-style-type: none"> <li>+ New titanium with 5-7 times the fatigue life of the incumbent. ~\$4.7B<sup>(1)</sup> per year opportunity in next 5-7 years</li> <li>+ New aluminum with double the operating temperature and 30% stronger than the incumbent</li> <li>+ Next-gen super alloys incorporating nano particles for ultra strength, ballistics and radiation shielding</li> <li>+ New cobalt alloy with 22% increased tensile strength at elevated temperatures and 30%+ harder</li> </ul>	✓		
<b>Processing Capabilities</b>	<ul style="list-style-type: none"> <li>+ New scrap to wire &amp; rod technology proprietary technology to produce wire for welding, WAM and rod for fastener market</li> <li>+ A new direct ore to metal powder processing capability - multiple metals, negating the need for smelting and off-shore processing</li> <li>+ Scrap to billet processing - recycling scrap/swarf to reduce cost of titanium billet (cost reduction of 65%+)</li> </ul>	✓	✓	
<b>Systems Development</b>	<ul style="list-style-type: none"> <li>+ New SLM (Selective Laser Melting 3D printers) machines that are 2-5 times faster, cheaper and currently in trial phase</li> <li>+ Debinding and sintering ovens that are industry leading and can scale to meet industry need</li> </ul>			✓

(1) Source: MarketWatch.



# 1H22 HIGHLIGHTS

(\$ in AUD)

Highlight	Commentary
<b>Titanium Powder Plant</b>	<ul style="list-style-type: none"> <li>+ Amaero secured a 10-year lease for a 3,857 sq. meters facility in the Monash Precinct in Melbourne in Jan. 2022</li> <li>+ Additional works commenced in Jan. 2022 to prepare for the installation of the facility, including the construction of a 600 sq. meters warehouse extension high bay to accommodate Amaero's first gas atomizer for the plant</li> <li>+ The project management plan for the manufacture of equipment is on time and within budget</li> <li>+ Expected to finalize construction and commencement of commissioning in 3Q CY22</li> <li>+ A 5-fold ramp up of additional gas atomizers with commensurate revenues is expected by CY25</li> </ul>
<b>Middle East</b>	<ul style="list-style-type: none"> <li>+ Virtual meetings progressed on the project agreement for the proposed Middle East center for additive manufacturing</li> <li>+ In person meetings are being conducted in Mar. 2022</li> </ul>
<b>Boeing</b>	<ul style="list-style-type: none"> <li>+ New purchase order totaling \$50K from Boeing for a defense aircraft Independent Research and Development (IRAD) project</li> <li>+ This is in addition to the ongoing projects that Amaero continues to develop with Boeing</li> </ul>
<b>Fletcher Insulation</b>	<ul style="list-style-type: none"> <li>+ Positive test results for its spinner tools for the Fletcher Insulation project during the first 6 months of FY22, with the spinner tools performing well within Fletcher's required performance standards</li> <li>+ One of Amaero's SP400 3D printing machines was built for the project with commissioning beginning in Jan. 2022</li> </ul>
<b>Rio Tinto</b>	<ul style="list-style-type: none"> <li>+ The first batch of Rio Tinto's alloy billets was atomized into powder and testing has commenced</li> <li>+ The second shipment of Amaero H.O.T. AI was dispatched from Rio Tinto in 4Q CY21</li> </ul>
<b>Gilmour Space</b>	<ul style="list-style-type: none"> <li>+ HoA secured in Q2 FY21</li> <li>+ Expected to lead to a long-term supply agreement for the manufacture of rocket components</li> </ul>
<b>Financials</b>	<ul style="list-style-type: none"> <li>+ 80% increase in revenues in 1H FY22 due to income from increased research and development work undertaken with key clients</li> <li>+ \$4.97M in cash and cash equivalents as at Dec. 31 2021, with the cash burn reflecting the Company's continued investments in its key projects and commercial agreements to generate future revenue growth but allowing for future forthcoming growth</li> </ul>

# TITANIUM POWDER PLANT

(\$ in AUD)

Positioning Amaero as a reliable source of strategically important titanium alloy powder

- + Titanium alloy powder is a key input in aerospace, defense and critical manufacturing
- + Supply (mainly for the US) has been largely dependent on Russia and China
- + Amaero will be able to produce aerospace-grade titanium alloy to the highest standards at approximately half the cost of the nearest competitor
- + Strong revenue and profit stream – Stage 1 revenues expected to be ~\$41.5M per year
- + Capital equipment expected to be paid back within 6 months of commencing full-scale operations
- + Once established, Amaero expects to grow capacity in terms of range of alloys and volume of output 5-10 fold in the first 3 years of operations



# CONTACT

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FINNIN**

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**AMAERO**  
ADDITIVE MANUFACTURING



**THANK YOU**

ANY QUESTIONS?