AML3D
August 2023 Update

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Investment Thesis Slide

AML3D is a world leading supplier of advanced additive manufacturing technology, with a clear strategy to deliver shareholder value over the immediate, medium and longer term.

- AML3D's proven proprietary technology has attracted interest and demand from the US Department of Defence / US Navy.

- Growing US additive manufacturing market creates a substantial opportunity.

- Established global Tier 1 corporate clients including Boeing, Chevron, BAE Systems.

- Clear strategy to rapidly scale presence in US defence market, driven by Value Added Reseller agreement and establishing local presence.

- Future proofing technology advantage through partnerships with respected R&D institutions, including RMIT, Queensland University, Curtin University, Flinders University.

Corporate Overview

AML3D combines patented technology, sophisticated software, robotics and leading-edge metallurgical science to supply advanced, industrial scale, metal 3D printing solutions to Tier 1 clients in Defence, Oil & Gas and other sectors.

ASX: AL3

Share Price (31/07/23)	$0.07
Shares on Issue	235,553,713
Options	11,500,000
Market Capitalisation	$16.5m
Net Cash	$4.5m*

Share Price Chart YTD
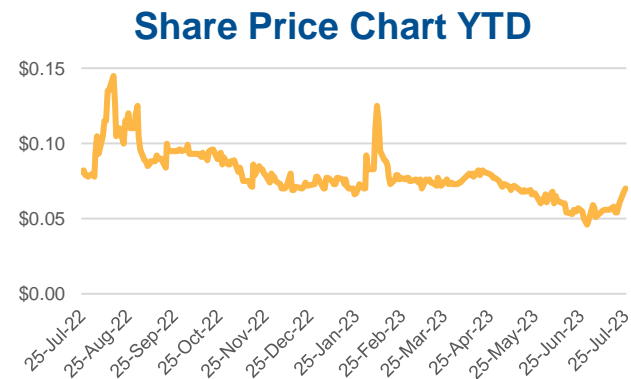
Board of Directors

Noel Cornish AM
Chairman, Non-Executive Director

Noel Cornish AM is one of Australia's foremost business leaders. Noel has achieved international and Australian business success including roles as President, Northstar BHP LLC in the USA and Chief Executive of Bluescope Steel's Australian and New Zealand businesses.

Sean Ebert
*Interim CEO
Executive Director*

Sean has over 25 years of executive and board level experience within the engineering sectors of oil and gas, mining and resources and emerging technologies in Australia and internationally.

Andrew Sales
Executive Director, CTO

Founding director of AML3D. A Chartered Engineer and expert in welding technology with 30 years of global experience within the oil & gas, resources and mining, and advanced manufacturing sectors.

Kaitlin Smith
Company Secretary

Kaitlin has over 10 years' professional experience as the Company Secretary of several ASX listed companies in a variety of industries. Kaitlin holds a Bachelor of Commerce is a Chartered Accountant and Fellow of the Governance Institute of Australia.
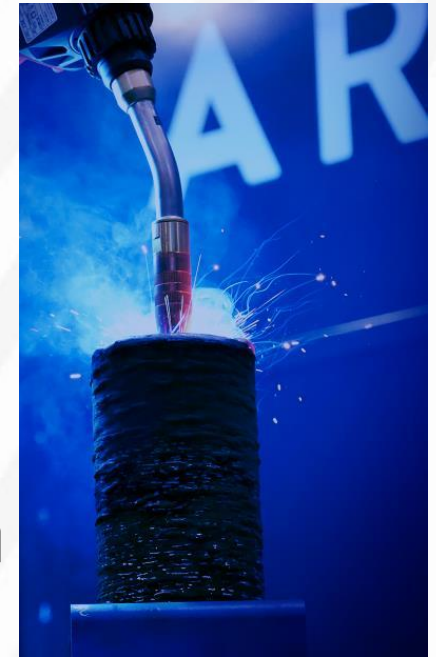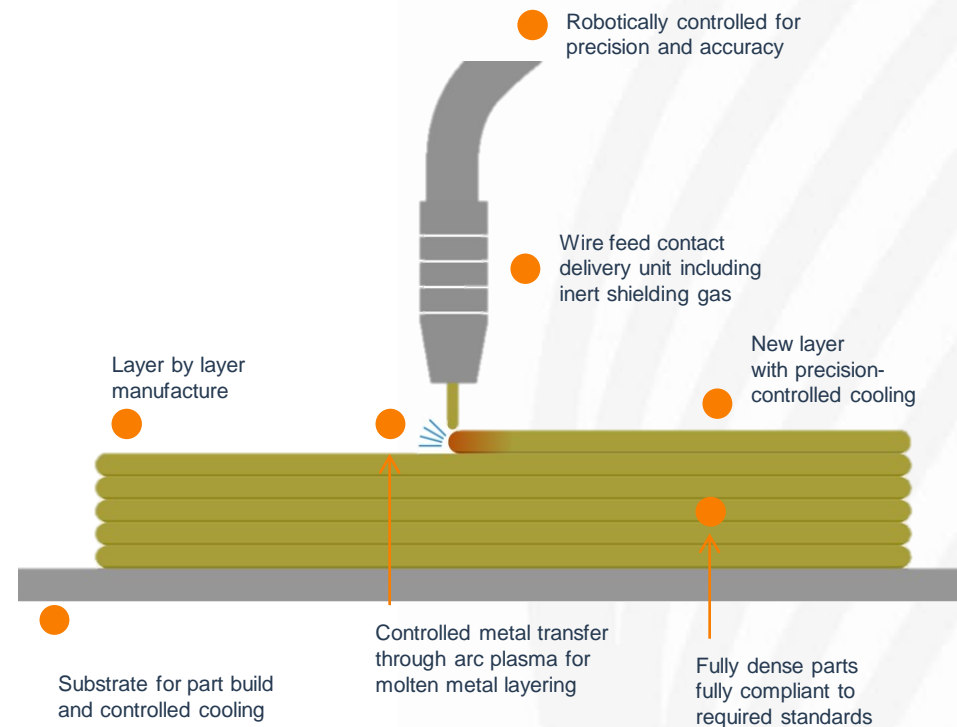
What is
AML3D's Technology

What is Wire-arc Additive Manufacturing (WAM®)?

WAM® uses an electric arc to precisely deposit layers of wire feedstock to produce high performing, industrial scale, metal components

- Combines sophisticated robotics technology and cutting-edge arc welding science

- WAM® process uses precision arc direct energy deposition (DED) to precisely deposit layers of wire feedstock to 3D metal print

- WAM® printed industrial scale metal components created to near net shape which is then machine finished

- Uses AML3D's proprietary software and materials database to manage the deposition process

Robotically controlled for precision and accuracy

Wire feed contact delivery unit including inert shielding gas

Layer by layer manufacture

New layer with precision-controlled cooling

Substrate for part build and controlled cooling

Controlled metal transfer through arc plasma for molten metal layering

Fully dense parts fully compliant to required standards

Unique Technological Offering

Proprietary WAM® technology is industry leading and enhances the relevance of the 3D metal printing sector

Industrial scale 3D metal printing

- Proprietary, Industry 4.0 Wire Additive Manufacturing technology for industrial scale 3D metal printing solutions
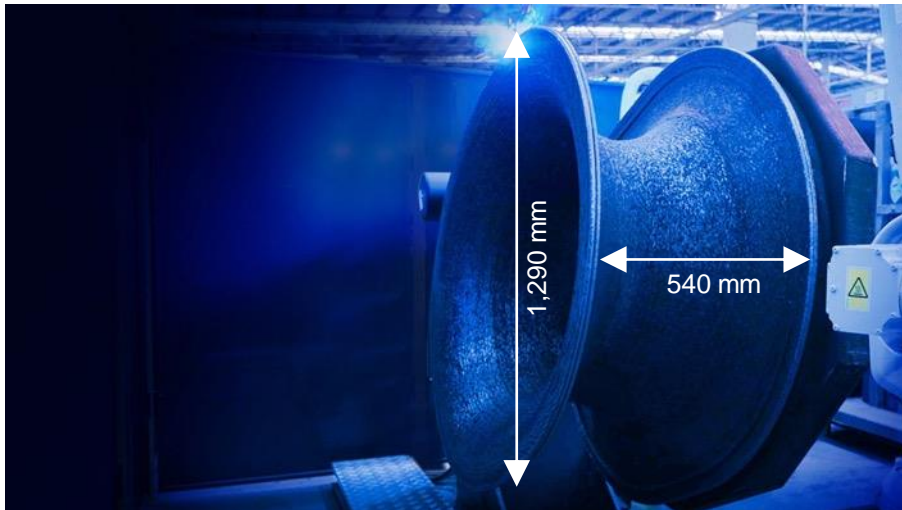
Marine industry: Panama chock

On-demand 3D metal printing

- Using WAM® ARCEMY® enables customers to metal 3D print parts on demand and close to point of need, While providing a cost and time effective supply chain solution

ARCEMY® is a metal 3D printer for medium to large-scale parts

WAM® & ARCEMY® Benefits

Patented Wire-arc Additive Manufacturing has many benefits to large-scale and exotic material metal part manufacturers that supply to Aerospace, Defence, Energy, Maritime, and Oil & Gas industries

Better Loading

Can test up to **2 times higher[2]** than designed working load compared to traditional methods

Stronger

Produces material properties up to **30% stronger[3]** than seen in traditionally cast or forged parts

More Resistant

Up to **50% more resistant[4]** to metal fatigue for Nickel Aluminium Bronze WAM® products

Faster

Can be manufactured up to **75% faster[5]** than forging or casting without tooling investments.

Less Waste

Has the potential to produce up to **95% in material waste savings[6]** when compared to billet machining.

AML3D Certifications

AML3D is the first Wire-arc Additive Manufacturer service provider to receive both DNV Approval for Maritime Manufacturing and Lloyd's Register Additive Manufacturing Facility Qualification

In 2022, AML3D was the first Wire Additive Manufacturer to receive Approval of Manufacturer for shipbuilding

AML3D became the world's first Lloyd's Register certified Wire additive manufacturing facility in 2018

Achieved ISO 9001:2015 Quality Management System in 2018

Compliant with AWS specification for fabrication of metal components using additive manufacturing

Other accreditations in progress include AS 9100D and ISO 45001

AML3D is an ABB Robotics Value Provider

ARCEMY® printers commissioned on customer sites can be Lloyd's Register certified, ensuring products manufactured meet global standards.
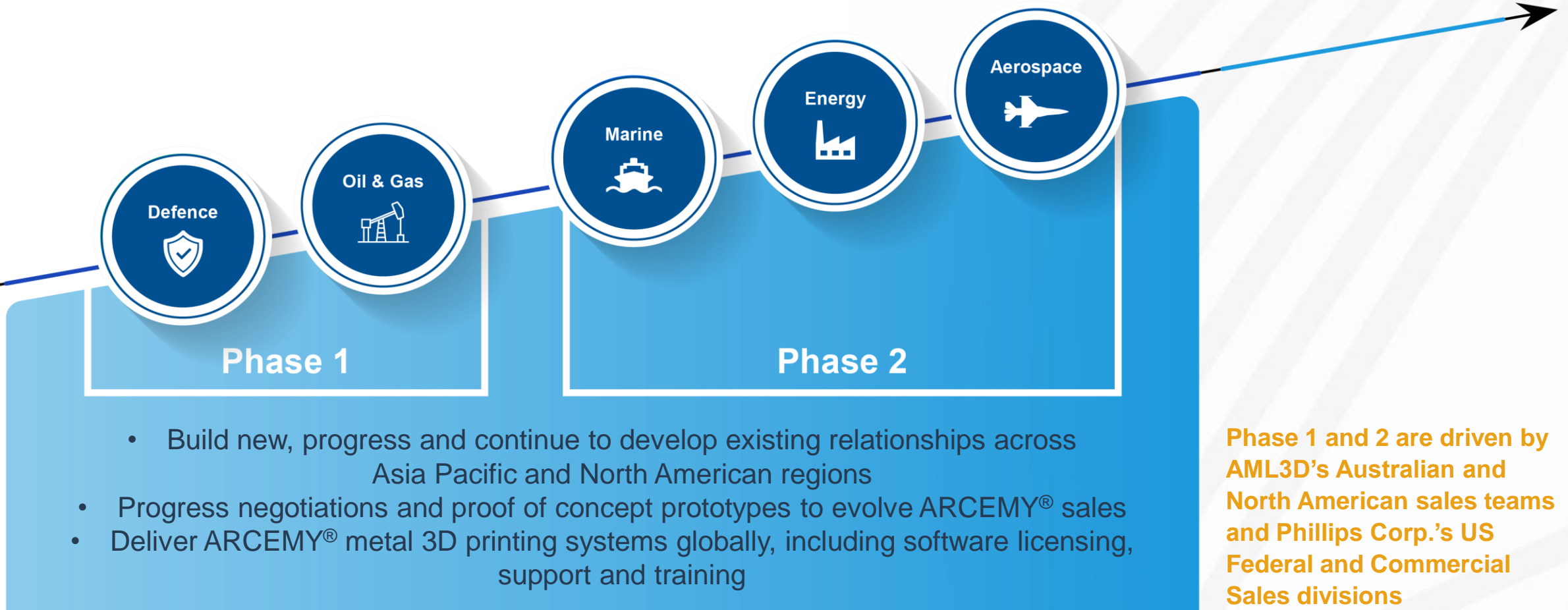
Business Model

Broad Addressable Markets with Strong Demand

AML3D address multiple sophisticated and geographically diverse markets

Defence

Oil & Gas

Marine

Energy

Aerospace

Phase 1

Phase 2

- Build new, progress and continue to develop existing relationships across Asia Pacific and North American regions
- Progress negotiations and proof of concept prototypes to evolve ARCEMY® sales
- Deliver ARCEMY® metal 3D printing systems globally, including software licensing, support and training

Phase 1 and 2 are driven by AML3D's Australian and North American sales teams and Phillips Corp.'s US Federal and Commercial Sales divisions

OEM Business Model

Product & Go-To-Market strategy to meet demand in the industrial manufacturing sector

- AML3D offers the **largest commercially available open-air additive manufacturing** system to the market

- AML3D **partners with clients,** enabling them to become globally **competitive metal part producers**

- ARCEMY® disrupts traditional part manufacturing, creating **digital parts library's and driving Industry 4.0 capability**

- Available in four key configurations, ARCEMY® supports:

  - Manufacturing diversification

  - **Supply chain resilience**

  - Sustainable business growth

- Includes **robust annual recurring revenue** with software, hardware and support services
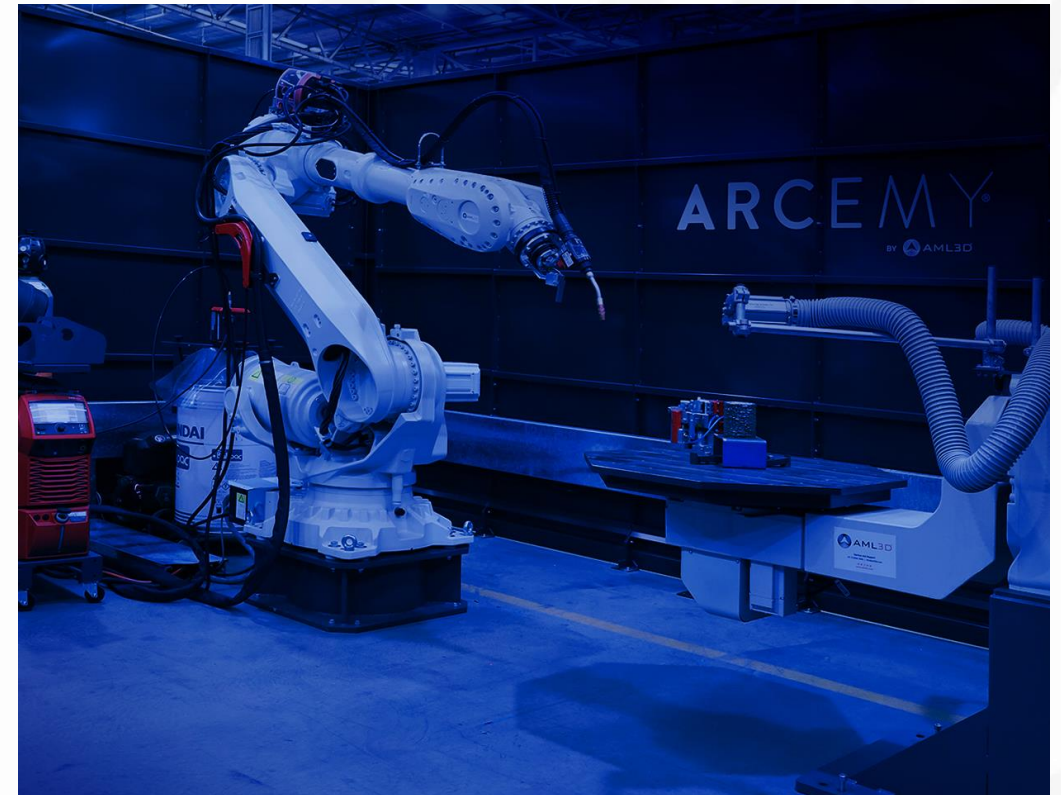
ARCEMY® system available in four robot-sized options, ARCEMY X® shown

ARCEMY® Technology Stack

Invest in software to meet client requirement for enhanced ARCEMY® platform & grow revenue

WAMSoft®

- Better useability and outcomes for larger and more complex geometries

AMLSoft™

- Develop new features & functionality for new alloys, weld parameters and operating capabilities

Hardware

- Customer demand signals to lead expansion on ARCEMY® system hardware requirements and repeatable outcomes
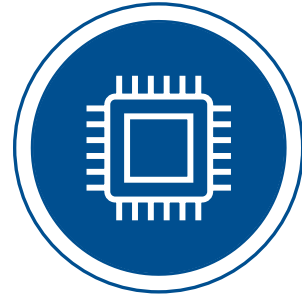- Enable client-funded specific Research and Development programs

Sustainable Revenues

Faster path to profit with a robust annual recurring revenue program

Software Licenses

WAMSoft® & AMLSoft™

- Advanced Product Slicing and Path Planning System

- 3D Print Simulation Toolsets

- Operator Production User Interfaces

- Material Alloy Libraries

System Hardware Maintenance

- Robotics Routine Systems Maintenance

- 24/7 Service Level Response

- Electrical Systems Routine Maintenance

Technical Support and Parts Production Support

- Technical application support

- 24/7 Service Level Response available

- Parts Production Support

Consumables

- Supply of AML3D certified wire feedstock

Proof of Concept Parts

Ability to demonstrate performance of WAM® technology to potential customers or assist in facilitating small production runs remains critical

- **Proof of Concept part manufacture is critical to demonstrating WAM® and ARCEMY® fit-for-purpose**

- **Presence of AML3D-owned ARCEMY® units in Australia and USA** a critical element in demonstrating ability to produce products to customer specifications

- **Ability to relocate** existing Adelaide-based ARCEMY® units to USA for immediate capacity
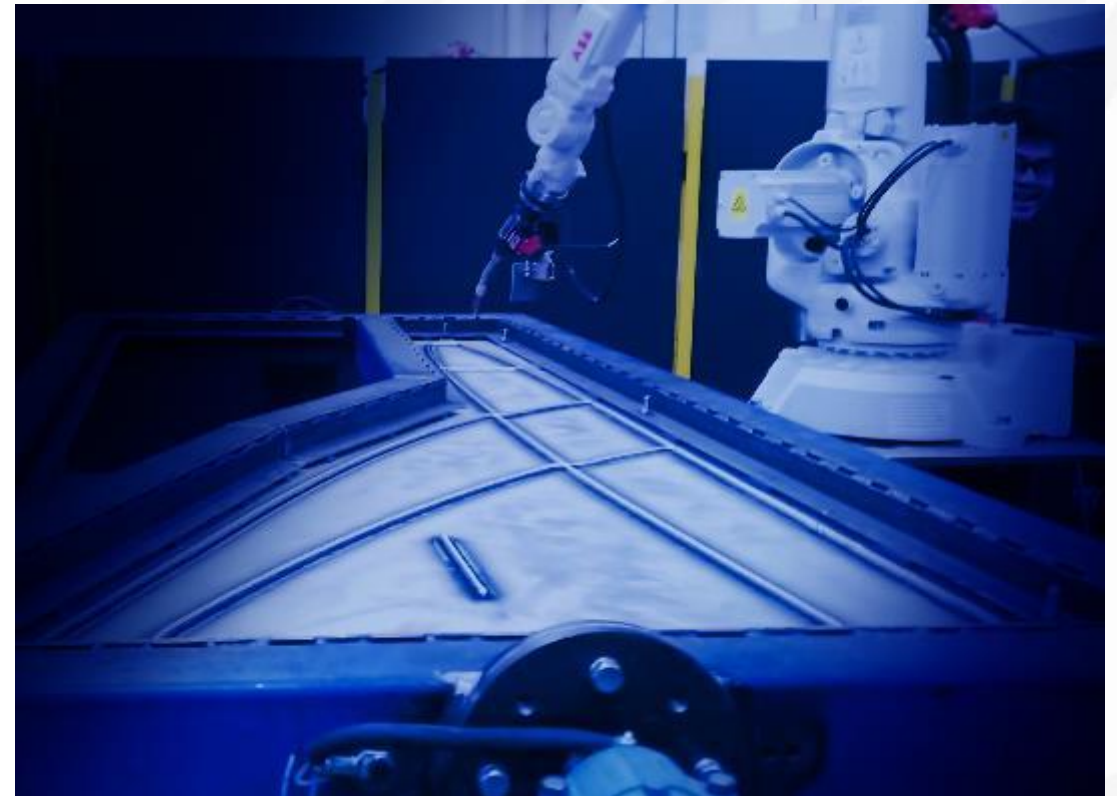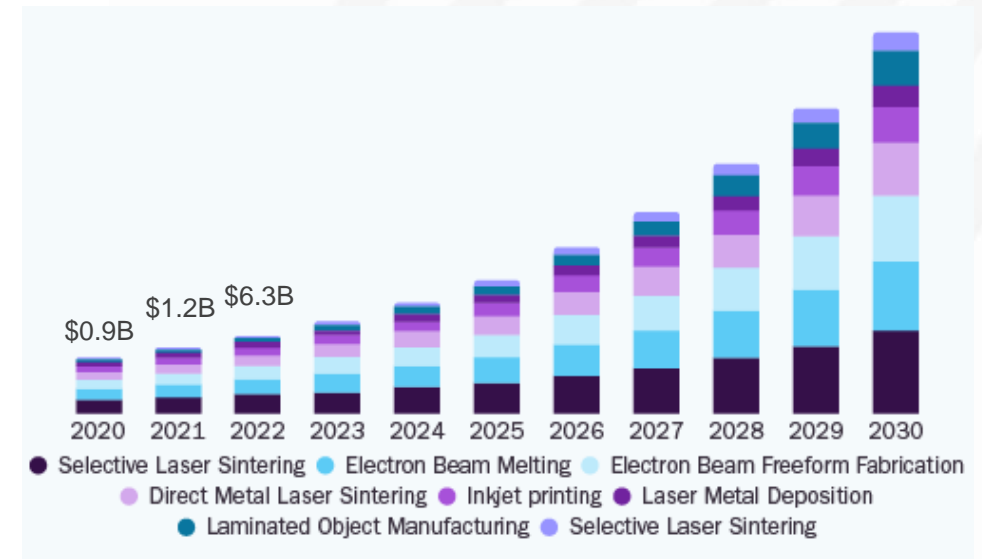
Execution of Business Plan

Unlock US Market – Expand US sales capability

AML3D's WAM® technology positioned to access the massive & high growth US market

Direct Sales-Led Entry

- Scale up AML3D's US sales team to include a US Sales Manager, a technical sales consultant and technical support position

- Leverage Value Added Reseller, Philips Corp's, US Defence, Federal and Commercial networks

- Identify additional distributors and value-added resellers to scale up the channel sales model for the ARCEMY® product line

- Market valued at USD$6.3B in 2022 and projected to expand at a CAGR of 23.2% to 2030[1.]

North American Metal 3D Printing Market[1]

$0.9B $1.2B $6.3B

2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

- Selective Laser Sintering
- Electron Beam Melting
- Electron Beam Freeform Fabrication
- Direct Metal Laser Sintering
- Inkjet printing
- Laser Metal Deposition
- Laminated Object Manufacturing
- Selective Laser Sintering

Unlock US Market – Strategic ARCEMY® Deployments

Successful delivery of initial ARCEMY X contracts establish presence at key US bases servicing US Navy & Tier 1 clients

US Market Entry

- **Two ARCEMY X systems and alloy testing contracts to support US Navy already secured**

- Delivery of current US ARCEMY® orders to establish presence in US additive manufacturing and drive demand

- Scale up sales & account management team to develop future pipeline.

- Leverage existing ARCEMY® sales relationships with US based Global Tier 1 clients

US Additive Manufacturing Bases

Base	ARCEMY X order date	Profile
Oak Ridge National Laboratory, TN	**Feb 2023**	Largest science and energy national laboratory in Department of Energy system and major partner to NAVSEA (US Navy), Boeing and other strategic targets
Danville Centre of Excellence(CoE), VA	**July 2023**	Home to NAVSEA Additive Manufacturing Centre of Excellence. Supporting the Submarine Industrial Base adoption and training of additive technologies.

Focus on expanding customer network in 2023

We are the 'centre of the onion' right now

US Department of Defence (US Navy) orders brought a spotlight to our technology

- Immediate focus on converting this opportunity into further commercial orders in defence supply chain

- Department of Defence sits at the middle of the US military-industrial complex with Tier 1 credibility boost presenting many options for AML3D

- USA based Defence Contractors are a priority target with an expectation of demand for ARCEMY® system sales

- New alliances in USA with Tier-1 groups set to drive far improved distribution and sales networks

BROADER INDUSTRY PARTICIPANTS AND CONTRACTORS

MAJOR US DEFENCE CONTRACTORS

US DEPARTMENT OF DEFENCE

AML3D USA & Phillips Corp Sales Teams

The art of the possible with a team of 12 salespeople in North America

Legend:
- Phillips Federal West
- Phillips Federal Central
- Phillips Federal South
- Phillips Federal North
- Phillips Commercial
- AML3D USA
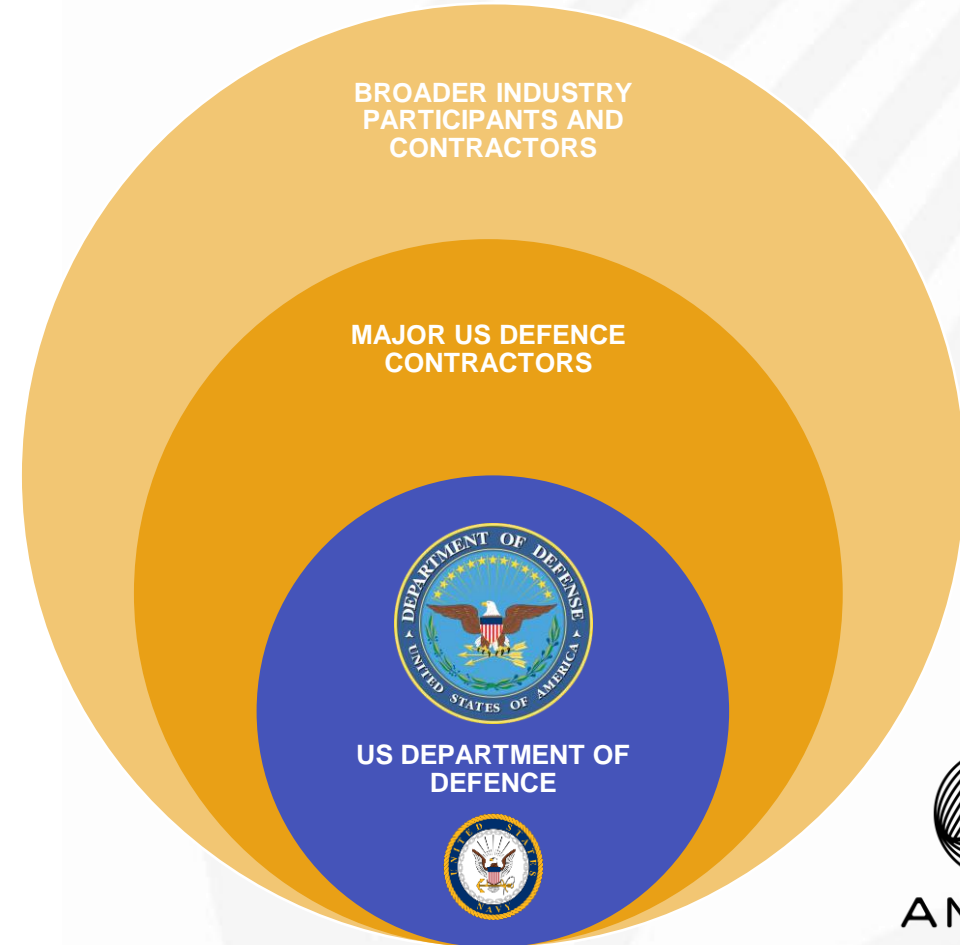
AML3D Performance Aspirations

Success in our delivery will strengthen AML3Ds partnerships and improve software development cycles

- Successful installation of US Department of Defence ARCEMY® systems into Oakridge National Laboratory (ORNL), and Danville Centre of Excellence (CoE) facilities

- Continue to expand into US Defence and Oil & Gas via existing US based customers

- Leverage sales and distribution relationship with Phillips Corp across the US region:
    - Increase ARCEMY® sales into US Defence manufacturing supply chain
    - Supply into Phase 2 market sectors of Energy, Maritime and Aerospace

- Establish US operating base with local leadership, business development, system construction and Proof of Concept production

- Advance next release of WAMSoft® and AMLSoft™ platforms to include AI driven closed loop optimisation

- Resize the Australian business operations

Recent Updates

Business Update: 1 June 2023
US pipeline, Chevron Visit & Software Development

AML3D continues to build momentum in high growth US market

**While the US Defence sector is our key focus, we continue to support
our global Tier 1 Oil and Gas and Energy customers, like Chevron Australia**

- Large scale ARCEMY® X system, in support of US Navy, to ship in June 2023
  as AML3D delivers against OEM supplier strategy

- US Department of Defence alloy characterisation testing contract in support of
  US Navy submarine industrial base successfully moves into testing phase

- Chevron Australia completes site visit and extends subsea pipeline fittings contract
  as AML3D looks to expand OEM strategy into Oil and Gas

- Strategic investment in software suite to expand AML3D's IP, extend technology
  advantage and reinforce AML3D's position as a premium OEM supplier

**Continuing successful delivery of these early US Defence contracts is helping to drive the rapid expansion of
AML3D's US sales pipeline, with multiple additional US Defence contract negotiations now underway.**

Business Update: 23 June 2023
Enterprise ARCEMY® Sale Advances AML3D Growth Strategy

AML3D is playing a critical role in upskilling Australia's defence manufacturing capabilities

Curtin University purchases A$1 million enterprise-level ARCEMY® system to expand its additive manufacturing teaching and research capability

- This ARCEMY® system will complement existing small-scale R&D capabilities in Curtin's new Additive Manufacturing Microfactory Facility

- The sale supports the growth of advanced 3D wire additive manufacturing at leading educational and research institutions, which will play a critical role in upskilling Australia's defence manufacturing capabilities

- Sale aligns with AML3D's strategy to focus as a supplier, to industrial manufactures, of advanced ARCEMY® systems for defence, maritime and oil & gas

- AML3D to utilise the new ARCEMY® system at Curtin as a demonstration facility for existing and potential customers

The Curtin Microfactory will act as a satellite R&D platform for AML3D to demonstrate ARCEMY® 's capabilities to potential customers across WA's Mining, Agriculture, Oil & Gas and Defence Maritime industries.

Business Update: 20 July 2023
ARCEMY® Ordered for the US Navy's Centre of Excellence

AML3D's ARCEMY® is contributing to creating a resilient, competitive, and sustainable supply chain

ARCEMY® 'X-EDITION 6700' ordered for the US NAVY's Centre of Excellence

- AUD$1.1 million[1] order for an ARCEMY® 'X-Edition 6700', received from AML3D's value added reseller, Phillips Corporation

- This order for a second ARCEMY® X, for use by the US Navy, follows the supply of an ARCEMY® X in February 2023 to accelerate use of advanced additive manufacturing technologies across the US defence industrial base

- The deal demonstrates continuing success of AML3D's strategy to focus on ARCEMY® systems sales to the US maritime and defence sectors

- Sale further strengthens the US Navy's on-demand manufacturing capabilities and demonstrates their confidence in AML3D's technology

- The US Navy's Additive Manufacturing Centre of Excellence is working to rapidly adopt advanced manufacturing technologies to drive innovation and competitiveness within a sovereign defence and submarine industrial base.

Phillips Corporation are sourcing the ARCEMY® X to contribute to the establishment of a US Navy supply chain and industrial base that is resilient, competitive, and sustainable.

Thank you

ARCEMY

BY AML3D

AML3D