

ST 3D METAL Forge

INVESTOR PRESENTATION

AUGUST 2022

Utilising 3D printing technology to deliver high value, critical parts to keep supply chains and assets working

Fast, Sustainable, Flexible

Disclaimer

This presentation has been prepared by 3D Metalforge Limited and its related entities (the "Company"). It does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. You should not treat the contents of this presentation, or any information provided in connection with it, as financial advice, financial product advice or advice relating to legal, taxation or investment matters.

No representation or warranty (whether express or implied) is made by the Company or any of its officers, advisers, agents or employees as to the accuracy, completeness or reasonableness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or provided in connection with it, or any omission from this presentation, nor as to the attainability of any estimates, forecasts or projections set out in this presentation.

This presentation is provided expressly on the basis that you will carry out your own independent inquiries into the matters contained in the presentation and make your own independent decisions about the affairs, financial position or prospects of the Company. The Company reserves the right to update, amend or supplement the information at any time in its absolute discretion (without incurring any obligation to do so).

Neither the Company, nor its related bodies corporate, officers, their advisers, agents and employees accept any responsibility or liability to you or to any other person or entity arising out of this presentation including pursuant to the general law (whether for negligence, under statute or otherwise), or under the Australian Securities and Investments Commission Act 2001, Corporations Act 2001, Competition and Consumer Act 2010 or any corresponding provision of any Australian state or territory legislation (or the law of any similar legislation in any other jurisdiction), or similar provision under any applicable law. Any such responsibility or liability is, to the maximum extent permitted by law, expressly disclaimed and excluded.

Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It does not include all available information and should not be used in isolation as a basis to invest in the Company.



Future matters

This presentation contains reference to certain intentions, expectations, future plans, strategy and prospects of the Company. Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. No representation or warranty, express or implied, is made by the Company, or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved. Given the risks and uncertainties that may cause the Company's actual future results, performance or achievements to be materially different from those expected, planned or intended, recipients should not place undue reliance on these intentions. expectations, future plans, strategy and prospects. The Company does not warrant or represent that the actual results, performance or achievements will be as expected. planned or intended. This presentation refers to the Company's business prospects. These references to business prospects are not forecasts and there can be no assurance that any of these prospects will result in future sales. Whilst the Company believes the prospects identified may become contracts in the future. this belief is based upon a number of estimates and assumptions that, whilst considered reasonable by the Company are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies.

US Disclosure

This document does not constitute any part of any offer to sell, or the solicitation of an offer to buy, any securities in the United States or to, or for the account or benefit of any "US person" as defined in Regulation S under the US Securities Act of 1993 ("Securities Act"). The Company's shares have not been, and will not be, registered under the Securities Act or the securities laws of any state or other jurisdiction of the United States, and may not be offered or sold in the United States or to any US person without being so registered or pursuant to an exemption from registration including an exemption for qualified institutional buyers.

3D Metalforge is enabling the global adoption of additive manufacturing



High value industrial focus

We use advanced 3D-printing technology to produce high value, critical parts in high end materials for the world's critical industries - energy, defence, maritime.



3DMF H-WAAM printer to produce parts faster and cheaper operating in Port of Singapore



Downhole tubing hanger for use in



Sustainable and efficient

We have proprietary technology and systems to make parts faster, more cost effectively, future-designed, sustainable and supply chain flexible.



legacy 10 weeks

Critical heat exchanger part delivered to Shell in 2 weeks vs 10 weeks legacy manufacturing





Hanger designed with bio mimicry lattice to reduce weight by 30%



We manufacture to the highest standards and meet or certified by API, ISO, and LR





Already producing parts certified to newly issued American Petroleum Industry 20S standard

One of only 7 manufacturers globally certified by LR to produce metallic parts via additive manufacturing



Certified by DNV to ISO 9001:2015

What makes us unique







Produce highly engineered, certified solutions utilising 3D printing technology

Engaging with clients early to digitalise and put in cloud library, mission critical parts that are then ready to be printed on demand to keep supply chains and assets producing

Deep expertise in anti corrosion high temperature parts for pumps and valves Full-service from part selection, engineering, certified manufacturing to testing

Work with clients to choose the right parts and then ensure parts are produced to suitable quality

Certified by leading organisations to produce approved parts

Unique proprietary equipment to produce wide range of parts Reduce material waste, energy usage and CO₂ emissions

Sustainability benefits.

transforming customer

supply chains

COVID-19 and geopolitical tensions have exacerbated supply chain risks

Full US supply chain available, eliminating transportation risks Supporting leading companies such as Woodside, Shell and NOV

Focusing on entering multi year framework agreements to support on demand printing



Growing client list of Tier 1 O&G companies

Global footprint with established capacity to scale

Production centres in Singapore, Houston, and support in Australia and Manila

Important to be near client's engineering and point of use to realise benefits of 3D printing

We have a differentiated service based business model



One of few companies selling a full range of 3D printing services, rather than simply supplying 3D printers

- 3D Printing is growing at annual rate of 60% and is due to hit US\$120 billion by 2025¹.
- Service delivery is the biggest component of the 3D Printing industry, worth 57% of the total industry's 2019 sales².



3MF aims to become the leading provider of 3D printer design/manufacturing services

Our strategy is gaining momentum





3D Printing is revolutionising manufacturing



- 3D printing is becoming a key part in companies' supply chain requirements with growing demand driven by long-term sustainability goals and more recently, supply chain logistics challenges.
- Companies and governments worldwide are pushing efforts to target long term sustainability goals. 3D printing reduces material usage by up to 90%¹, as well as inventory and storage costs.
- 3D printing also allows the manufacture of essential parts locally, bypassing supply chain challenges and transportation delays.
- Realisation of the cost and time savings of producing parts additively is growing in global awareness.
- For example, The White House recently announced the "AM Forward Program" to assist and accelerate the adoption of 3D printing technology.

Forbes

MANUFACTURING

Biden Announces AM Forward Program To Foster Adoption Of Additive Manufacturing

Willy Shih Senior Contributor () I teach at Harvard Business School, and I write about manufacturing

May 6, 2022, 05:00am EDT

This morning President Biden is announcing the Additive Manufacturing Forward (AM Forward) program, a partne several large U.S. original equipment manufacturers (OEM of their small and medium enterprise (SME) suppliers to 1 their adoption of additive manufacturing technology and 1 capabilities. The OEMs include GE, Lockheed, Raytheon, Energy, Honeywell, and Northrup Grumman, all of whom their supply base to invest in new technology so that they stay competitive.

THE WALL STREET JOURNAL

BUSINESS

 \equiv

Energy Companies Turn to 3-D Printing to Bypass Snarled Supply Chains

s being used for replacement parts as availability of via traditional delivery lines remains uncertain



"The pandemic has accelerated implementation. We moved from a 'nice to have' to a 'need to have'

THE WHITE HOUSE



FACT SHEET: Biden Administration Celebrates Launch of AM Forward and Calls on Congress to Pass Bipartisan Innovation Act

> AM Forward will help lower costs for American families by improving the competitiveness of America's small-and-medium-sized manufacturers, creating and sustaining high-paying manufacturing jobs, and improving supply chain resilience through adoption of additive manufacturing

MAY 06, 2022 · STATEMENTS AND RELEASES

President Biden's top economic priority is to fight inflation by lowering costs that working families face, and lowering the federal deficit.

litive e arm. ner slowed s nand

We bring substantial benefits to clients in 5 areas





We focus on high value deeply technical sectors



Sector	Potential market opportunity	Segments we focus on
Energy and Oil & Gas	 Extremely large markets Global pump (forecast US\$127Bn by 2027)¹ Global valve (US\$86Bn by 2025)² Downhole tools industries (US\$5.3Bn by 2027)³ 	 We specialise in hard to work with Super Alloys that have superior corrosion and temperature performance High dependence on new standards that we are deeply involved in developing
Maritime	 Large markets for marine port services expected to reach US\$102Bn by 2028⁴ Dominated by large players e.g. PSA 	• Working with companies in relatively high emission industries, to help them green their supply chains
Defence	 Defence spending is rapidly rising across the globe Tensions elevated as a result of Russia/Ukraine NATO agreeing to increase military budgets South east Asia uncertainty surround China/Taiwan 	 Different segments have different value propositions – cost, speed and/or redesign. We offer solutions in all these segments Can produce specialist materials (M300)
Resources	 Just in time production keeps mine production running Similar materials to oil & gas 	Marketing directly to mine owners/operators

1 Grandview Research, December 2020, "Pump Market Growth and Trends"

2 Fortune Business Insights, July 21; Grandview Research, December 2020; Markets and Markets "Industrial Valve Market Growth - Global Forecast to 2025"

3 Intrado News, July 21, "Downhole Tool Market Size

4 Fortune Business Insights, August 21; Port Services Market Size ... and Regional Forecast 2021 -2018"

INVESTOR PRESENTATION 2022 | ASX: 3MF 9

We engage with clients through framework agreements





Initial process to develop engineering parameters (Doesn't have to be repeated for every product)

A case study of our Framework Agreement with Woodside Energy





Overview

- Non-exclusive outline agreement
- Valid for 2 years, with an optional extension of 1 + 1 years
- May¹ include engineering and design services, printing, post-production processing, testing and delivery of components
- Including but not limited to valves (body, stem, seals), pipe fittings (flanges, elbows, tees, weldolets), manifolds and pumps (impellor, inducer, body)

う <u>3D</u> Metal Forge

Objectives

- **Produce** metallic additive manufactured components made via powder bed fusion (PBF) and direct energy deposition (DED)
- **Supply** Additively Manufactured parts, production technologies and digital part library development services
- **Support** Woodside's operational supply chains with replacement parts available with relatively short lead times compared to traditional sources

EXECUTION IN FIRST 3 MONTHS



Completion of the quality and systems review allowing project work to accelerate

6 projects confirmed to date



Total cumulative contract value of \$40,000 to date and **growing**



Improved lead time for standby replacement parts (~2 weeks) and enabled rapid trials/upgrades of new materials

We work with blue-chip customers to help them adopt AM

- Blue-chip clients building across a range of sectors and locations
- Supporting global clients with a range of part selection, design, production and training
- Repeat business will come from the extensive digital library of parts that can be delivered under the framework agreements





Customer case studies – assisting the global leaders in adopting AM



ABS Group ConocoPhillips

- 3MF parts installed on-board of ConocoPhillips' Endeavour oil tanker.
- Project led with multinational firms ABS Group, ConocoPhillips Polar Tankers and Sembcorp Marine.
- Gear set, nozzle for air ejectors and coupling for pump were fabricated and installed and have been tested to be in good operation.



Oil tanker Endeavour



- Following a successful field trial, contract signed for the supply of 3MF parts to Par Pacific's three US-based refineries, worth up to A\$400k p.a.
- Par Pacific is a leading refining company with a mkt cap of ~US\$957M and 2020 revenue of US\$3.12BN².
- Part to supply include impellers and valve components.



3D printed parts



- AM parts delivered to Shell Jurong Island, a site owned by one of the world's largest energy companies Shell.
- Heat exchanger tube components manufactured and supplied in two weeks, faster and more cost effectively, allowing Shell to reduce equipment downtime.



20 tubes printed for Shell's heat exchanger

We are securing increasingly valuable revenue wins





Recent contract wins from multiple clients other than Woodside Energy



Whilst individually immaterial, growing number of contract wins demonstrates the strategy is working



Client	Part	Value (AUD\$)
Leading Engine Manufacturer	Ignitor parts	72,000
Top 10 Oil & Gas Company	Impeller	24,000
Top 10 Oil & Gas Company	Impeller	45,000
Global Pump and Fluid Equipment Manufacturer	Impeller	30,000

Revenue growth to be driven by

- S Existing clients through more orders and increasing value through commercial validation and adoption
- S New clients in new and existing industries

Our values drive our client engagement



We go where we can help our clients most The nearer the front line the greater the benefits

GO WHERE Needed We believe in high quality, efficiency and using company resources wisely to support a good working environment



OPERATE Efficiently We stretch and challenge ourselves to achieve the impossible



IMPOSSIBLE Challenges

DEVELOP Clients

We educate, guide and support our clients to adopt the best of AM technology as well as actively collaborate to develop the AM ecosystem



MOVE Fast

We provide immediate response because we know how important that it is to our clients



"Shell heat exchanger components, completed in two weeks vs 10 weeks We recognize each individual is a unique asset to the company and we develop our people to their best ability in our new advanced technology



Strength

Knowledge is differentiation. We innovate and create to bring the absolute best of Additive Manufacturing to our clients



INNOVATE Rapidly

Clear and defined growth strategy



	Short term (1 year)	Medium term (2-3 years)	Long term (3+ years)	
Commercialisation	Secure and convert field trials and part qualification with leading companies to achieve production AM "lock in"			
	Support and adopt new standards to expand addressable base of companies able to adopt AM			
	 Successful completion of Maritime Port Authority JIP program in Singapore 3-5 mid tier mining and energy clients Strategic Australian partner signed First projects in Australian defence sector Accelerate Houston sales with the expansion in US OEM sector 	 First projects in US space and defence sectors 2nd on site production facility secured First European OEMs signed 	 3rd on site production facility secured 2-3 digital libraries operating supporting distributed manufacturing 	
Technology	 Develop 1-3 new material parameters for existing industry materials eg Superduplex Expand R&D collaboration programs with Australian and US research institutions eg UNSW Expand DED printer capabilities 	 Development of parameters for new AM specific materials Monitoring and automation of larger format metal printing 	 Use of AI for material development High level of equipment automation supporting lower cost remote operations 	
Operations	 Expand to production equipment in Australia Open European sales office Focus on efficiencies in operations 	 Expand European office to full production facility Expand global production capacity Open Middle East sales office 	Open Middle East production facility	

Primed to accelerate revenue growth

Phases 1 and 2 completed, entering key Phase 3 stage



Phase 3

Accelerating and scaling

- Building with Woodside others
- Increasing purchase orders
- Expanding Framework model to new companies and new industries
- Delivering on-demand, certified and qualified parts to build revenue



Consolidating the go-tomarket model

Phase 2

- Framework Agreements with Par Pacific and Woodside
- Built production agreements with PSA
- Proven fast turnaround (2 weeks) with Shell
- Proven part quality with Polar Tankers (ConocoPhillips)

Phase 1

Building fundamental capability and capacity

- Opened facility in Houston
- Opened PSA facility with new H-WAAM printer
- Built material options Super Duplex, PACF, partnership with Hitachi metals
- Certification with LR
- Manufacturing partnerships with eg Flowserve

Why invest in 3MF?







Differentiated business model

A full range of design and 3D printing services to target high value critical parts, onsite production options, multiple revenue streams Tier one clients and global presence

Credible and proven business, growing revenue and client base, with established presence in global markets



Sustainability benefits driving adoption

Helping clients in relatively high emission industries green their supply chains

$\overline{7}$	
('	
	-

Growing revenue in growth sector

3D printing industry expected to reach US\$120BN by 2025¹ following the demand of critical customised parts



Targeted go to market strategy

Commercialisation strategy focused on establishing Framework Agreements in target hubs starting to accelerate



ST 3D METAL Forge

APPENDICES

Corporate Snapshot



Summary				
Existing shares on issue	237,149,105			
Existing options on issue	2,300,000			
% of shares under escrow	39.1% *			
Share price (8 Aug 2022)	\$0.018			
Implied market capitalisation	A\$4.3m			
Cash position (30.06.22)	A\$770k			

Top 10 Shareholders ¹	% Shares on Issue
Matthew Waterhouse	20.89%
Khoo Hwi Min	11.28%
BNP Paribas Nominees Pty Ltd Barclays <drp a="" c=""></drp>	4.23%
David Michael Spence	3.69%
BNP Paribas Noms Pty Ltd <drp></drp>	2.92%
Mr Basil Catsipordas	2.76%
Seeds Capital Pte Ltd	2.27%
M Venture Partners Pte Ltd	2.02%
Tong Chong Heong	1.94%
Jacobs Harding Pty Ltd <the 2="" a="" c="" no.="" vml=""></the>	1.78%

* A total of 92,711,249 is subject to various escrow terms

1 As of 8 August 2022

Led by experienced Board & Management





Matthew Waterhouse Founder, MD and Interim Chairman

Over 20 years of Senior Management Experience in multinationals, including 7 years as Associate Principal at McKinsey & Co and COO for Keppel Integrated Engineering responsible for building \$1Bn+ infrastructure projects.



Geoffrey A. Piggott Non-Executive Director

Brings 50+ years experience in major infrastructure engineering projects in Australia and globally. Senior management roles in Binnie & Partners, Black & Veatch, Keppel Corporation.



Tom Sonnen Non-Executive Director

Over 25 years' experience in operations improvements and cost reductions program in multiple industries and most recently as Global Leader of the Procurement and Supply Chain practice at Partners in Performance (PiP).