MARCH 2021

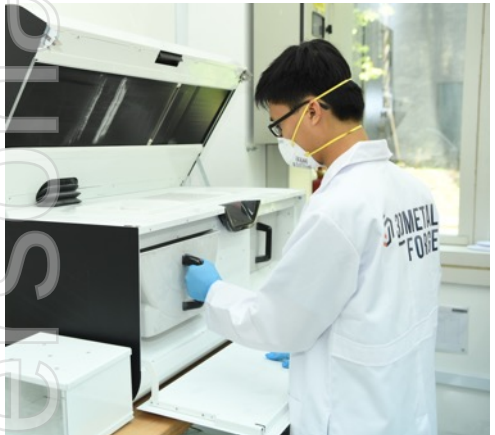
3D METAL FORGE | INVESTOR PRESENTATION

3D METAL FORGE

PIONEERS OF INTELLIGENT ADDITIVE MANUFACTURING (AM)

EVERY 8 MINUTES

A PART IS PRINTED IN OUR FACILITIES



- **Leading Additive Manufacturing (AM) company** that supports a growing and multi-national blue-chip client base with their 3D metal printing requirements
- **Full range of in-house metal printing services** from design and engineering, material advisory, diagnostics and testing to printing and post production
- **Proprietary novel technology** and processes that produce faster, cheaper, better and more sustainable AM parts and eco-system services

BENEFITS OF OUR TECHNOLOGY

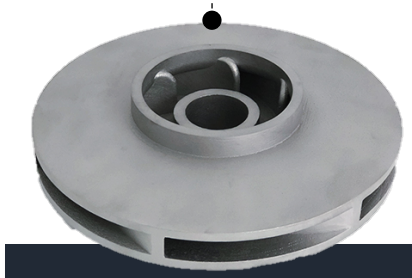
Swivel joint printed in Stainless Steel 316L on powder bed printer

EXTENDS LIFESPAN OF OLDER EQUIPMENT

Saves entire systems by reverse engineering and printing obsolete parts

Saves $000's in replacement costs

Pump impeller printed in 25% of legacy manufacturing



REDUCES STORAGE & INVENTORY COSTS

Reduces storage costs and delivery times by printing locally on demand

Up to $5k per part and months faster

Trim printed in Inconel 625 with intricate internal channels

IMPROVES PRODUCTIVITY

Improves manufacturing productivity by printing complex parts in one piece

~10-20% savings of productivity on suitable parts

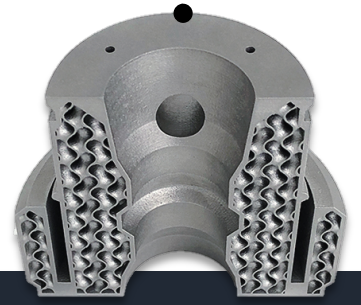
Air filter parts printed in 50% less time at 40% of cost of traditional manufacturing

REDUCES WASTE

Reduces material waste by building additively not subtractively

Up to 20-30% on high value parts

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



IMPROVES PART PERFORMANCE

Improves part performance and longevity by re-designing parts for AM

~15-30% material savings

MORE THAN AN ADDITIVE MANUFACTURER

CLIENT LAYER

Custom offerings to drive revenue growth

Diagnostic inventory analysis | **Design services** | **Part production** | **Client facility operation** | **Education and training** | **Licensing AM designs** | **Inventory and cloud IP management**

INTELLIGENCE LAYER

Produce cheaper, faster, better and more sustainable parts at scale – leveraging data on >20,000 parts designed and printed

Site diagnostic to identify suitable parts for AM

AM production management

AM quality management system

AM design system

HydroAM	VisioAM	StoreAM	SecureAM	FacilityAM	DataAM	MaterialAM
Fast cheap post production	Hybrid printing on DED printers	Huge structured digital library	Cloud IP hash chain security and access	Setting up and running client AM facilities	Production data and analytics	Machine learning accelerated material development

INTEGRATION LAYER

Integrate 3rd party printers, software and materials

PRINTERS				SOFTWARE			MATERIAL	
Powder bed fusion	Directed energy deposition	Multi-jet fusion	FDM	AM design software	Simulation software	Design software	Traditional materials	AM specific material

OUR MANUFACTURING FACILITIES

RANGE OF CUTTING-EDGE PROPRIETARY PRINTERS

SCIENCE PARK AMC

Powder Bed Fusion (SLM)

Highly detailed, small (30cm) metal parts. Wide range of metals

Blown powder Directed Energy Deposition (DED)

Large format (upto 1.5m) faster printer with resolution of +/- 1mm; machining to net shape

PORT AMC

Hybrid Wire Arc (H-WAAM) DED printer

Extremely large and fast printer for large lower resolution parts with machining to net shape

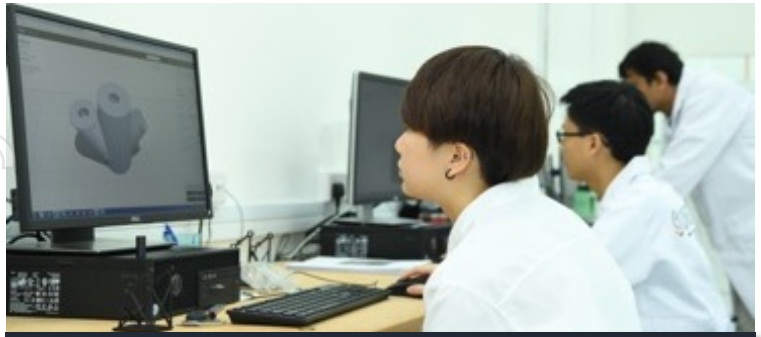
Polymer print farm (FDM)

20 FDM printers for ABS, PVC, Nylon etc

Multijet fusion (MJF)

Industrial nylon printing

FULL SERVICE PROVIDER



IN-HOUSE DESIGN & ENGINEERING

- In-house design and engineering
- Full range of industrial design software
- Design optimisation and DfAM capability

SOLIDWORKS · ANSYS · AUTODESK NETFABB · INSPIRE solidThinking · Materialise Magics · simufact Simulating Manufacturing

EXTENSIVE EXPERIENCE IN DESIGN AND PRODUCTION OF PARTS

HIGH FOCUS ON QUALITY

- Production facility **ISO 9001** certified
- **One of only 6 manufacturers certified by Lloyds Register to print metallic parts**

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001 · CERTIFIED LR ADDITIVE MANUFACTURING FACILITY QUALIFICATION

- On working groups of standard organisation

energy API · ASTM INTERNATIONAL · ISO

SELECT CUSTOMERS

sembcorp marine

TechnipFMC

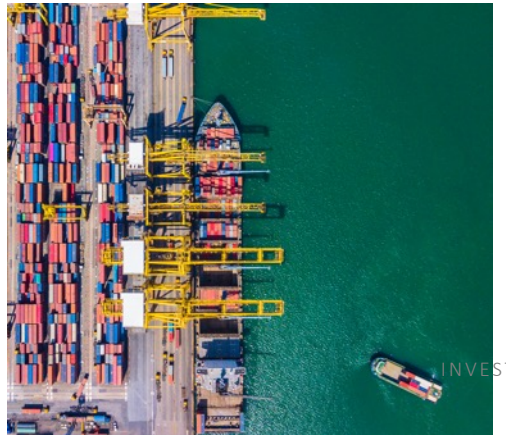
ConocoPhillips

NOV

PSA The World's Port of Call

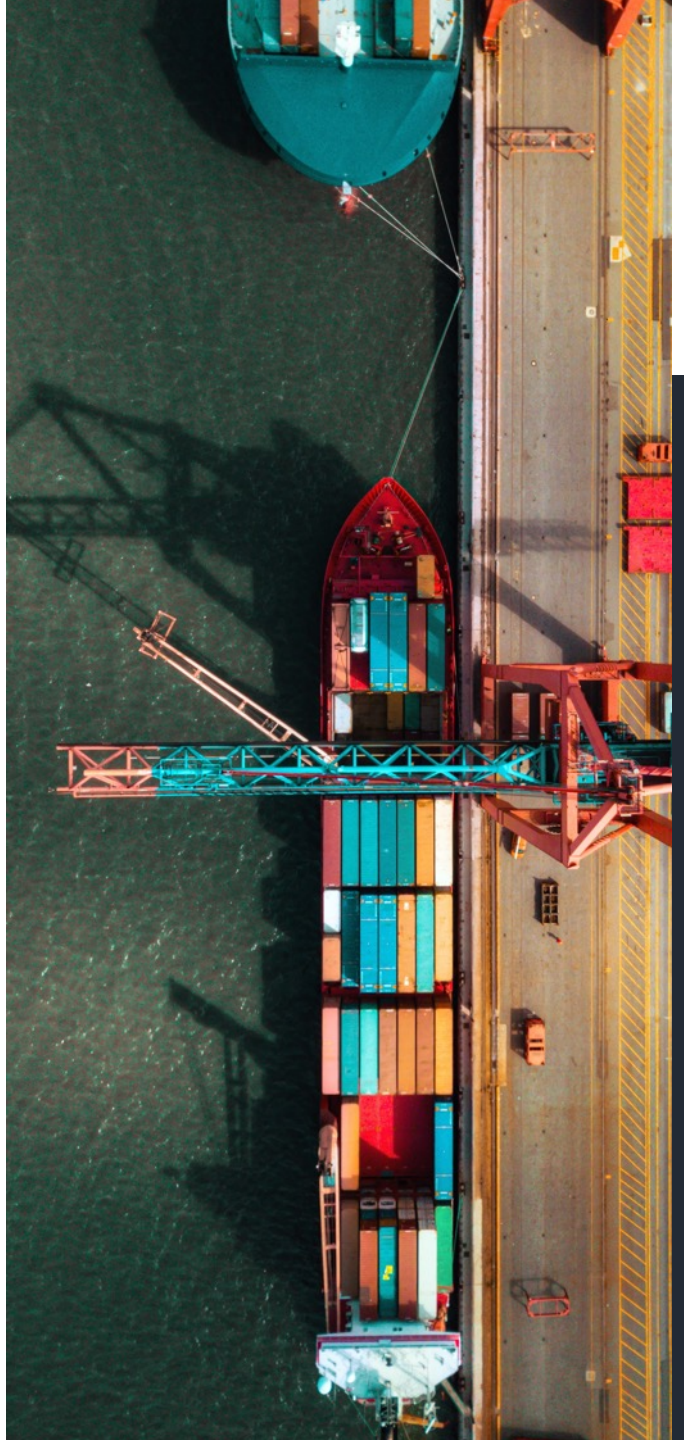
FLOWSERVE

Blue-chip client base including multi-national companies and government entities across a variety of sectors including the oil and gas, defense and marine services industries



3D METALFORGE'S PARTNERSHIP WITH PSA

- Partnership with the world's 2nd largest port operator with 29 ports in 16 countries
- 2 year project to build an AM centre in the port to digitalise and move key spare parts supply to additive manufacturing
- PSA will supply the facility set up and demand, 3MF will supply the printers and operations team



PSA
The World's Port of Call

STATUS

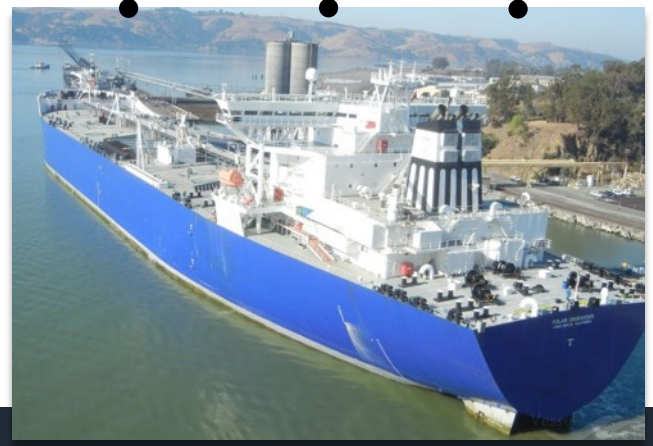
Parts are identified and digitised

New facility is set up

Global first Hybrid Wire Arc printer supplied by 3MF is set up, currently in testing and commissioning pending commencement of production

RECENT LANDMARK ADDITIVE MANUFACTURING PROJECT

- ABS, Sembcorp Marine, 3D Metalforge and ConocoPhillips Polar Tankers Inc. (Polar) have successfully fabricated, tested, and installed functional additive manufactured parts on board the oil tanker Endeavor



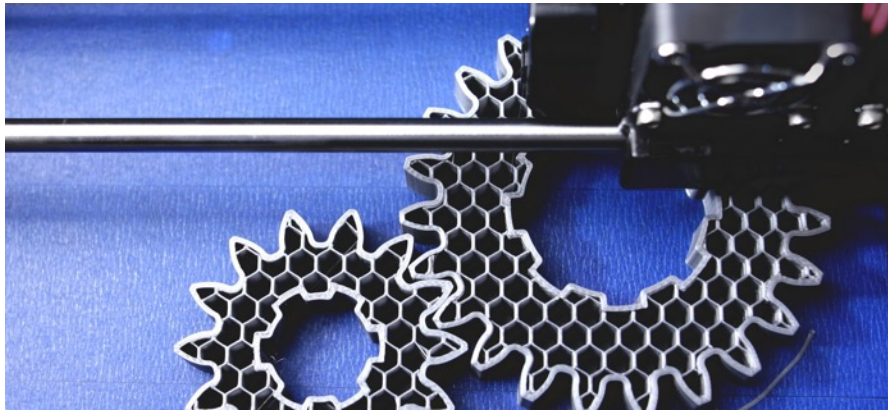
- Traditionally, parts used in shipbuilding and repair are manufactured via casting or forging techniques. For this project, the consortium aimed to utilize Additive Manufacturing to fabricate three types of parts that surpass conventionally manufactured products in terms of quality

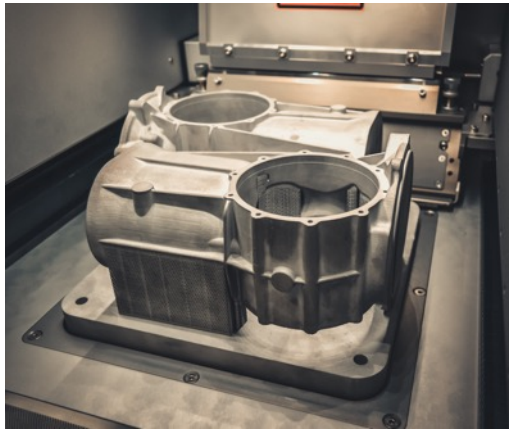
"The collaboration with ABS and 3D Metalforge is a continuation of Sembcorp Marine's drive to innovate and improve our production capacities and capabilities. This development enables Sembcorp Marine to further refine our products and deliver customized solutions safely and more efficiently."

Sembcorp Marine Head of Research & Development - Mr. Simon Kuik

WHAT IS ADDITIVE MANUFACTURING (AM)?

- **Transformative approach** to industrial production that enables the creation of lighter, stronger parts and systems
- AM uses a computer controlled process that creates three dimensional objects by **depositing materials in layers**
- AM applications are almost limitless. The technology can be used to fabricate **end-use products on-demand** across multiple industries



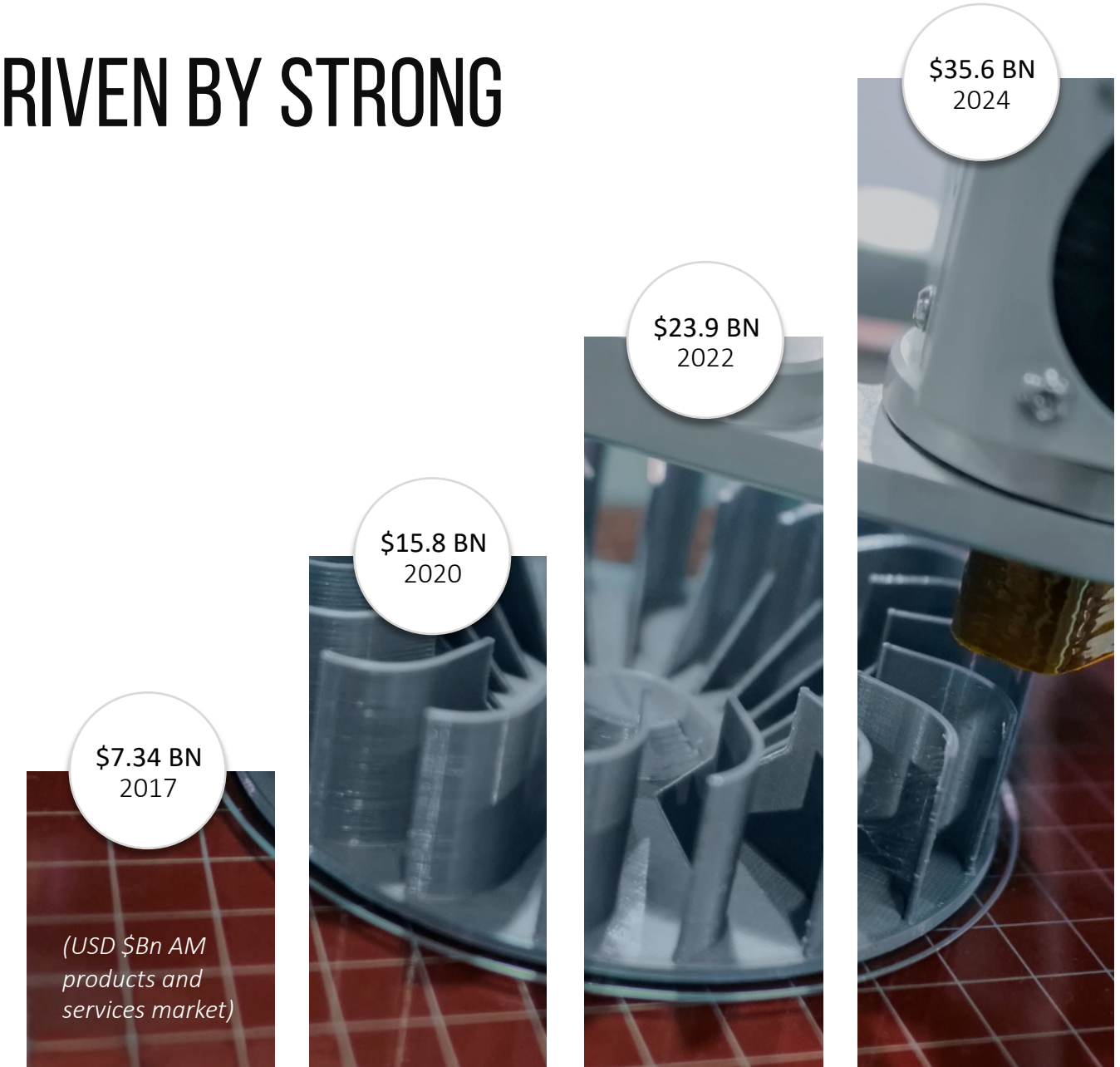


AM is helping industries reduce development and manufacturing costs, increase production speed and produce new structures and shapes.

AM IS GROWING RAPIDLY, DRIVEN BY STRONG INDUSTRY TAILWINDS

- Revival of domestic manufacturing near end use and greater sourcing of local components
- Focus on autonomous high value manufacturing and a reduction in low value offshored production
- Deep focus on cost cutting and profitability including cuts in waste and storage costs
- Increased digitalisation of supply chain with increased flexibility

Source: Wohler's Report 2016, 2017, 2018, 2019; UPS "3D Printing: The Next Revolution in Industrial Manufacturing"



AM TO REDUCE ENERGY USAGE & CO2 EMISSIONS

AM CAN USE LESS ENERGY AND MATERIAL…

90% less material

Building objects up layer by layer, instead of using traditional machine processes which can reduce material needs and costs by up to 90%

Up to 25% of the energy

Remanufacturing parts through advanced additive manufacturing can also return end-of-life products to as-new condition using only 2–25% of the energy required to make new parts

DESIGN-EFFICIENT TECHNOLOGY

4-7% weight reduction in aircraft parts

A topologically optimised and 3D-printed part can accomplish the same task as the original part using less material

AND REDUCE C02 EMISSIONS

2M Tonnes CO2e saved

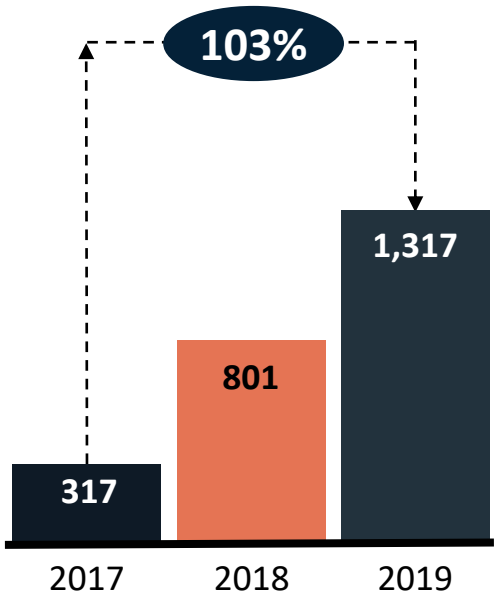
A major environmental benefit of 3D printing could be the reduction of 2 million tonnes in CO2 emissions between 2016-2025 in oil & gas industry alone, thanks to the reduced need to transport spare parts to and from remote areas

Source: Digital Transformation Initiative Oil and Gas Industry , World Economic Forum, January 2017; Innovating Clean Energy Technologies in Advanced Manufacturing , US Department of Energy , Quadrennial Technology Review 2015, Northwestern University research paper

GROWING REVENUE BASE

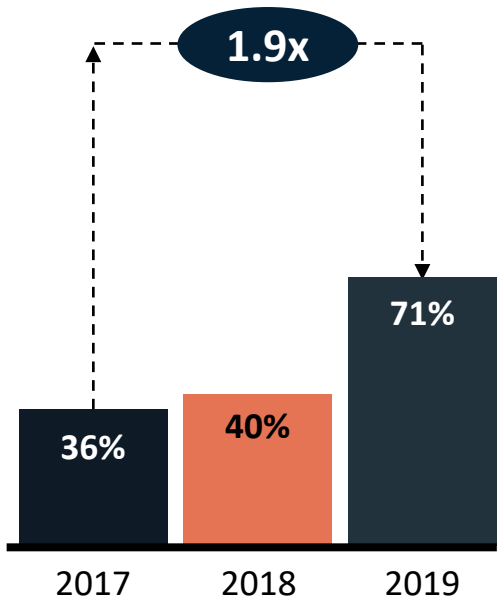
Revenue 103% CAGR

Revenue 2017-19 (S$'000)



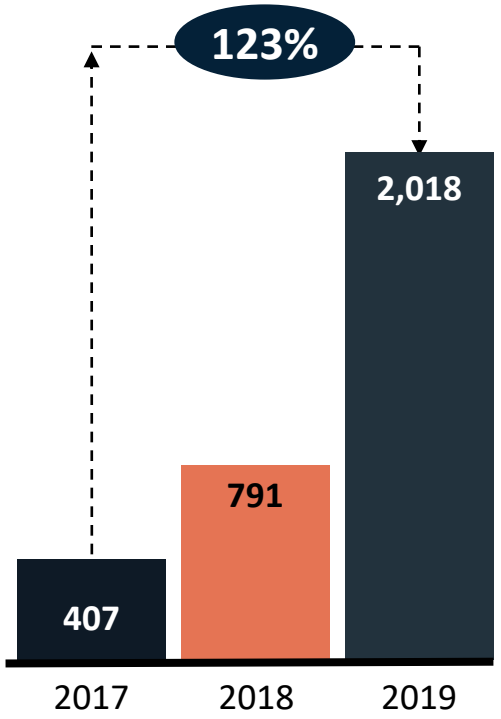
GM% doubling

Gross margin % 2017-19 (%)



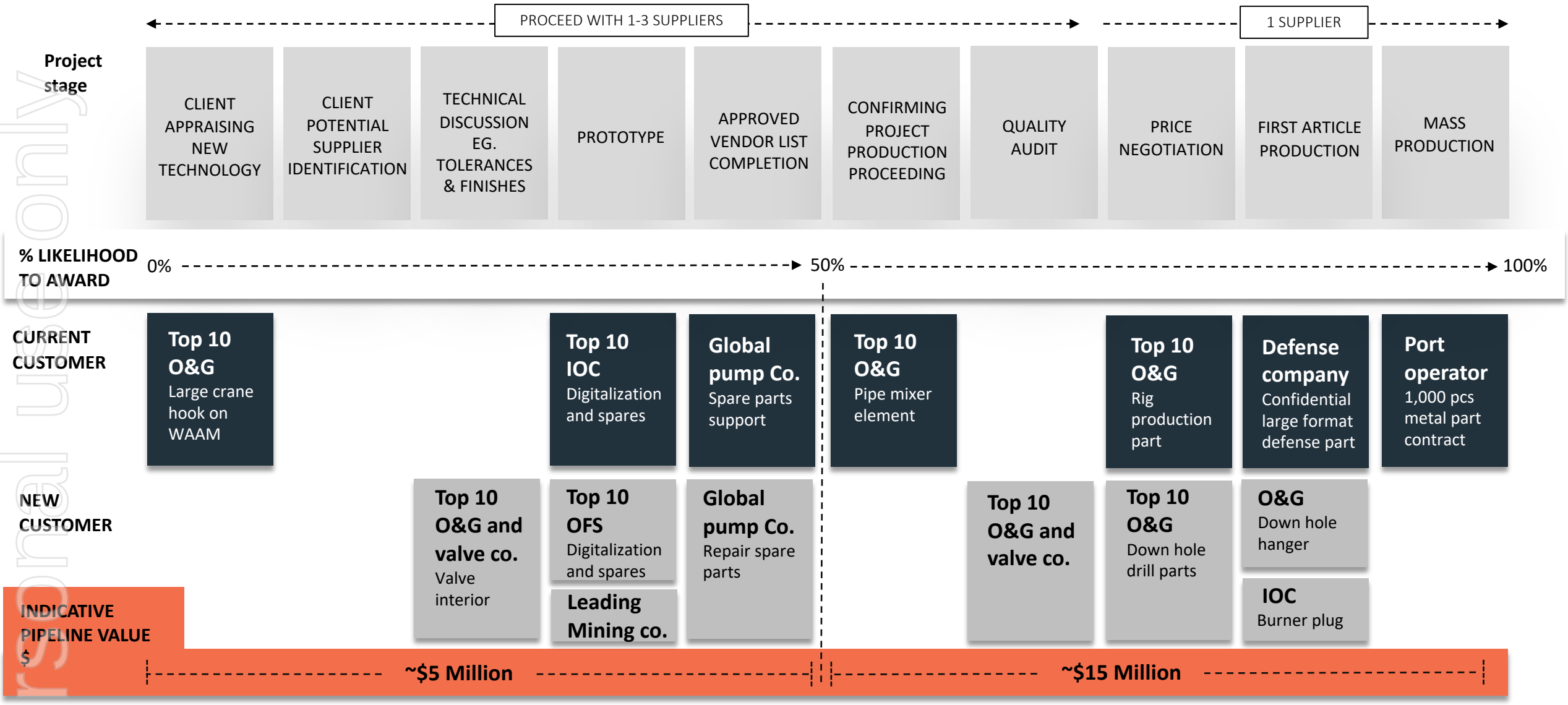
Orders 123% CAGR

New orders 2017-19 (S$'000)



Figures are in Singaporean Dollars

EXPANDING SALES PIPELINE

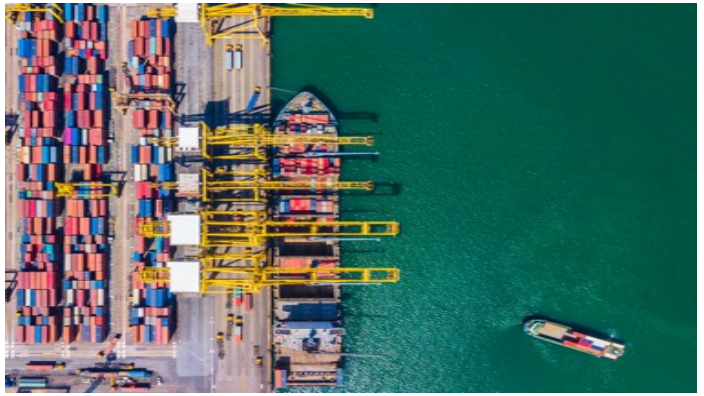


** Note this is not a forecast | Figures are in Singaporean Dollars*

STRATEGIC GROWTH PRIORITIES

BUILD GLOBAL FOOTPRINT

- Expand production capacity to accommodate market growth
- 4 Additive Manufacturing Centres (AMC's) in global centres for marine and oil & gas (Houston, Rotterdam, Dubai, Singapore)
- Develop local key markets including Australia with focus on resource sector



CUSTOMER ACCELERATION

- Embed AMCs in client supply chain to help key clients obtain benefits of AM
- Qualified leads / sales pipeline continues to grow
- PSA first roll out
- Strategic Partner channels being developed to accelerate revenue growth

EXPAND OUR TECHNOLOGY

- Continue to develop our intelligence layer
  - Faster more accurate printing
  - Faster process modelling
  - Feedback & monitoring
  - MaterialAM for new AM materials
  - DataAM to utilise print data
- Complete operational development of Hybrid WAAM printer

EXPERIENCED BOARD & MANAGEMENT

Matthew Waterhouse
CEO, Founder

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

Keppel Infrastructure

McKinsey & Company

Michael Spence
Chairman

Michael is an angel investor with a portfolio of eight companies in Australia & SEA. He retired from full-time work in 2019 as a Senior Director of Partners in Performance, an operations improvement consultancy. He has 33 years' experience split between consulting (PIP & McKinsey & Company) and line management (Ford, ITT, Valeo, Ayala Corp).

Samantha Tough
Non-Executive Director

Distinguished career in the energy, resources and engineering industries as both a director and senior executive. Chair of Horizon Power, Chair of the National Energy Selection Panel, Director of Clean Energy Finance Corporation, Director of Buru Energy Limited (ASX: BRU), UWA PVC Engagement and former Director of Saracen Mineral Holdings Ltd (ASX:SAR)/Northern Star Resources and others.

Geoffrey A. Piggott,
Non-Executive Director

Geoff has over 50 years in infrastructure engineering in Sydney Water, Black & Veatch, Keppel Infra and Deep Tunnel Sewerage System.

David Buckley
Advisor

David is Chairman of Royal Bank of Canada (Europe) and formerly European CFO for Morgan Stanley and Intl Treasurer for Goldman Sachs.

NUMBER OF SECURITIES

EXISTING SHARES ON ISSUE
190,119,285

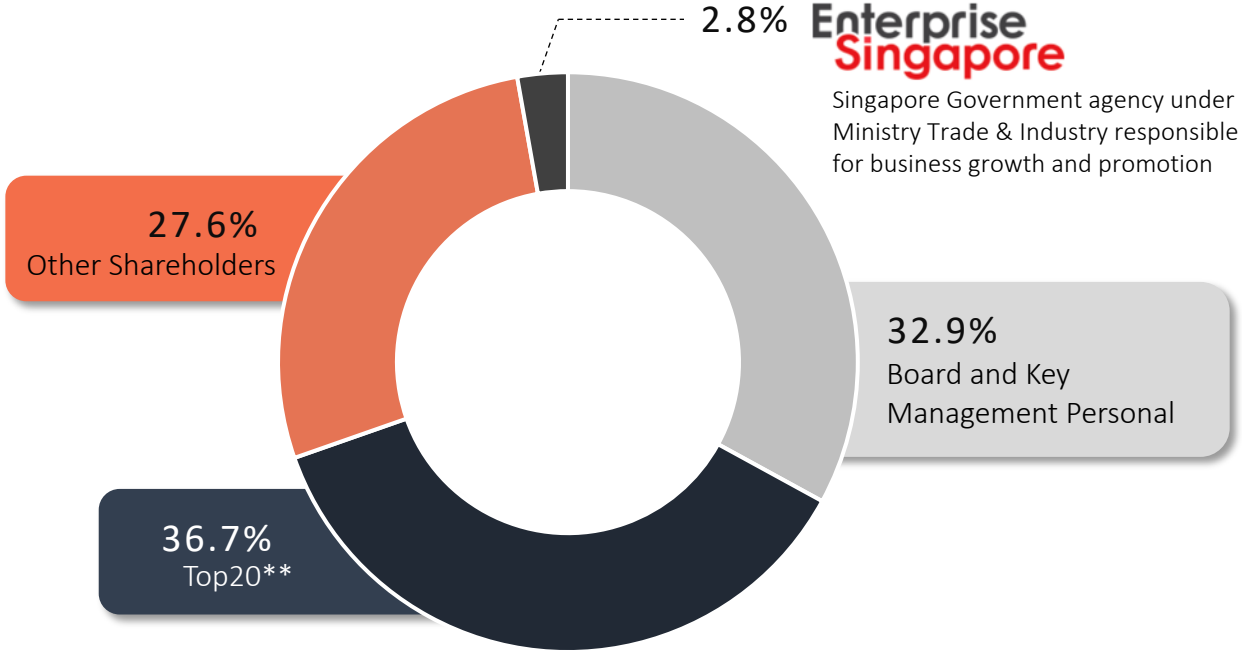
EXISTING OPTIONS ON ISSUE
1,300,000

% OF SHARES UNDER ESCROW
49.7% *

SHARE PRICE (8.3.21)
$0.25

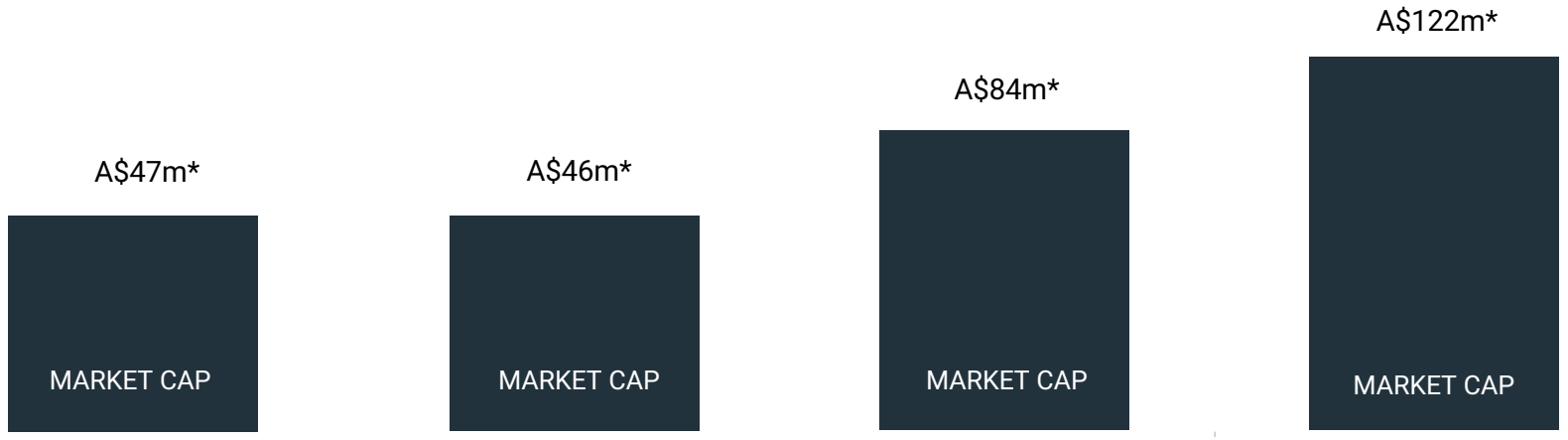
IMPLIED MARKET CAPITALISATION
A$47.5M

CORPORATE & CAPITAL STRUCTURE



* A total of 94,650,594 shares is subject to various escrow terms
** Excludes Board and KMPs in Top20

ASX PEERS SHOW POTENTIAL VALUE RE-RATING



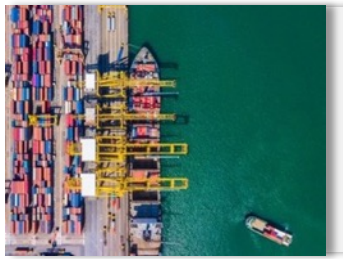
	3D METAL FORGE	AML3D	Titomic	Amaero
REVENUE:	A$1.3m FY19	A$0.2m FY20	A$2.0m FY20	A$0.1m FY20
OVERVIEW:	**3D Metalforge (ASX:3MF)** Additive Manufacturing company that supports a growing and multi-national blue-chip client base with their 3D metal printing requirements	**AML3D (ASX:AL3)** Welding, robotics, metallurgy and software business which uses automated wire-fed 3D printing in a large free form environment to produce metal components and structures for commercial use	**Titomic (ASX:TTT)** Additive manufacturing provider with proprietary and patented process for the application of cold-gas spraying of titanium or titanium alloy particles	**Amaero (ASX:3DA)** Additive manufacturing of metals and alloy technologies in the aviation, aerospace, defence and automotive tooling markets

** As at 8 March 2021*

INVESTMENT HIGHLIGHTS

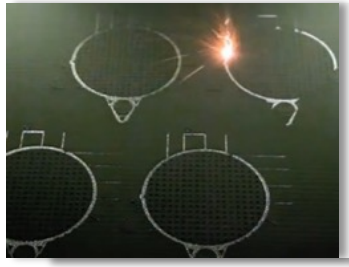
Established presence in Singapore and Houston (USA) and significant market opportunity

One of only 6 manufacturers certified by LR to print metallic parts

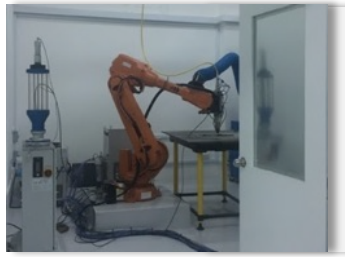


Partnering with Global Clients to digitalise spare parts and produce parts on demand

High Caliber Team supported by world class Board and investors



Established Revenue Generating business with >SGD$1m in revenue FY19 with blue chip customer clients



Extensive Range of IP protected by patents and trade secrets

APPENDIX

EXTENSIVE RANGE OF IP

SIGNIFICANT R&D AND TECHNOLOGY DEVELOPMENT

Led R&D and technology development programs valued at over $3M with our direct spend being almost $1.5M

Worked with multiple institutes of higher learning and Govt organisations including NAMIC, SUTD, A*Star

	INTELLECTUAL PROPERTY	PROTECTION METHOD
PATENTS	• VisioAM (hybrid print strategy) • SecureAM (Metadata, hash chain data security) • HydroAM (support structure removal) • MaterialAM (parameters for new materials)	• Patent pending • Patent pending • Patent pending • Patent being developed
TRADE SECRETS	• Build parameters and strategy for maraging steel • Manufacturing process operations • Additive QMS processes • FacilityAM - setting up AM facility • Detailed pricing strategies and cost sheet tool • Extensive AM supplier list • >250 industry NDA in place • Multiple Approved Vendor List agreements in place • Customer contact list (>3k) • SOPs for complex AM equipment • DataAM - Print log data for >3 years production • Build parameters for PVC and Nylon (in development)	• Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality
LICENSES	• Directed Energy Deposition H-WAAM printer • Directed Energy Deposition Blown powder printer	• Exclusive license • License
COPYRIGHT	• StoreAM - Print file library of >2,000 parts	• Confidential copyright

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3D METAL FORGE

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