

Manufacturing innovation made reality

The Supersonic Opportunity Additive Manufacturing Company

November 2022

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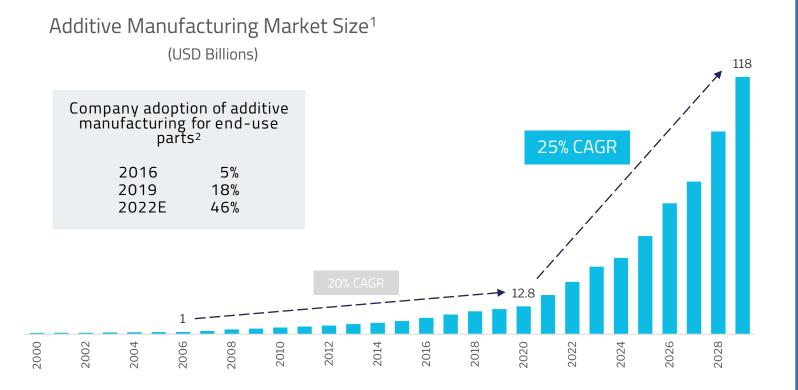
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Titomic is the only "Cold Spray Additive" public company

Titomic offers one of the fastest, most scalable, cost competitive and energy efficient additive manufacturing and coating technologies in the world.

1. Large and expanding addressable market	 Additive market estimated to grow 11x up to \$146B in the next decade Transition from prototyping to mass production Macro-economic challenges in supply-chain and manufacturing provide strong tailwinds
2. World-class leadershi team	 Senior executives in both the management team and the board Extensive scientific and engineering backgrounds Diverse and experienced board across primary target industries
3. Industry-leading innovative technology	 Superior additive technology for speed, size, sustainability and materials Ability to secure end-to-end supply-chain including metal powders Fast growing technology ready for industrial use in less than two years
4. Fast growing custome interest in key market	 Established footholds in key geographic locations (U.S, Europe, Australia) Fast growing customer demand driven by supply-chain and geopolitical needs Distinct product portfolio supporting growth in multiple, adjacent markets
5. Distinct, repetitive revenue streams	 Joint-venture and subscription models supporting recurring revenue streams Long-term business outlook drives margin improvements as business scales Organic growth funded with capital raise
6. Industry consolidation allowing inorganic gro	

Additive manufacturing to grow over 11x in the next decade



1. Source: Wohlers Report 2020

2. Source: "3D printing: hype or game changer?" Ernst & Young Global Report 2019.

Evolution of the AM Market

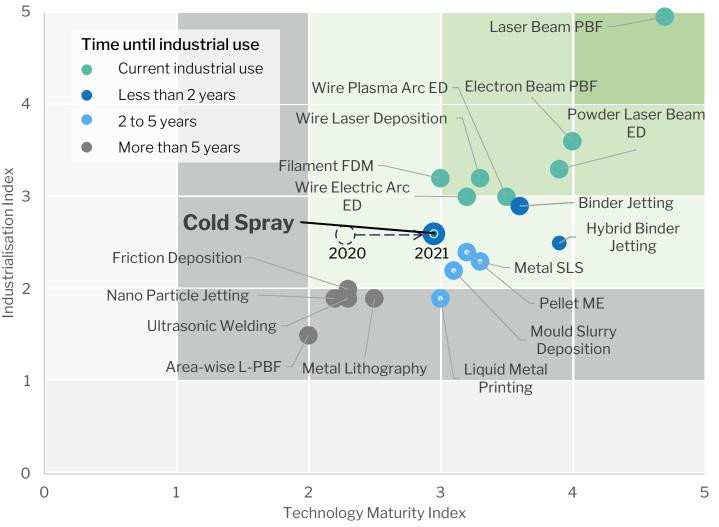
Additive 1.0

- Key players now off-patent, leaving them with minimal differentiation and commoditized technology
- Significant loss in market share to open source and low-cost providers
- Have not participated in market growth due to focus on design and rapid prototyping

Additive 2.0

- Additive 2.0 innovation is being driven by VC- funded, emerging players across printers, materials and parts businesses
- New players are driving advances in speed, accuracy, material variety and build volume/size
- Focus on mass production and end-use parts is driving market growth (certain industries ahead in maturity curve)

Metal Additive Manufacturing Maturity Index



Cold Spray continues to mature towards widespread industrial use in AM

Note that this chart is for AM only and not coatings, where Cold Spray is already experiencing widespread industrial use

PBF: Powder Bed Fusion L-PBF: Laser Powder Bed Fusion ED: Energy Deposition SLS: Selective Laser Sintering FDM: Fused Deposition Modelling ME: Material Extrusion

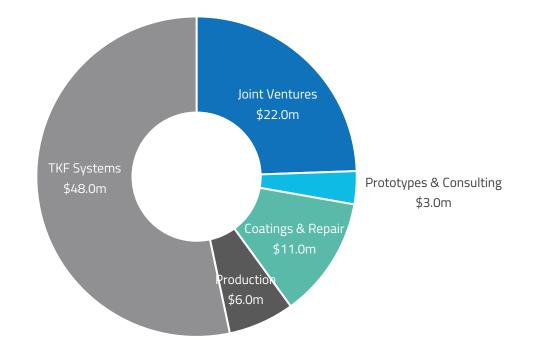
Sales Pipeline

Significant sales opportunity pipeline at 18x FY22 revenue

Expected sales revenues from orders received or to be expected

Repkon Joint Venture	\$7.6m
Neos Joint Venture	\$2.4m
Glass Mould Coating Solution	\$1.1m
D523/D623 Repair & Coating Machines	\$0.7m

Unweighted Funnel



Cash flow and balance sheet

Statement of Cash Flows	FY21	FY22	FY23 Qtr 1
Customer & Grant Receipts	1.908	5,929	1.075
Operating cash flows	(9,037)	(10,161)	(4,115)
Investing cash flows	(25)	(1,962)	(734)
Financing cash flows	(449)	11,324	0
Net cash flow	(9,512)	(799)	(3,774)
Statement of Financial Position	30 June 2021	30 June 2022	30 Sept 2022
Cash	7,946	7,108	3,333
Current assets (incl Cash)	11,084	10,847	7,019
Non-current assets	2,505	3,971	2,965
Total Assets	13,589	14,818	9,984
Current Liabilities	2,977	4,739	4,176
Non-current liabilities	1,170	2,667	2,792
Total liabilities	4,147	7,406	6,968
Total Equity	9,442	7,413	3,016

- FY22 Cash receipts of \$5.9m include \$3.0m receipts from customers and \$2.9m grant income. Receipts of \$1.1m in FY23 Q1 are related to customer sales.
- FY23 Q1 Operating cash outflow of \$4.1m includes \$1.1m for machine builds, \$1.6m staff costs and \$0.3m marketing costs.
- FY23 Q1 Investing cash outflows of \$0.7m relates to business acquisitions in FY22.
- Stable balance sheet with no debt.



Leadership with proven industry experience



Herbert Koeck Managing Director BD SYSTEMS



Jon Nield Chief Financial Officer



Colin Horman Chief Operating Officer IVECO iSelect



Klaas Rozema General Manager Titomic Europe Dycomet



General Manager Titomic USA



Max Osborne Head of Engineering

BOEING



Neil Matthews Head of Business Development Coating and Repairs



Dominic Parsonson Head of Sales

FUJI XEROX 🔊



Chris Healy Legal Counsel Company Secretary

BondAdviser





Michael Rochford Head of HR





Board directors with global coverage and experience



Humphrey Nolan Non-Executive Chairman









Mira Ricardel
Non-Executive Director
The Core of the c



Dag Stromme Non-Executive Director Morgan Stanley Triton



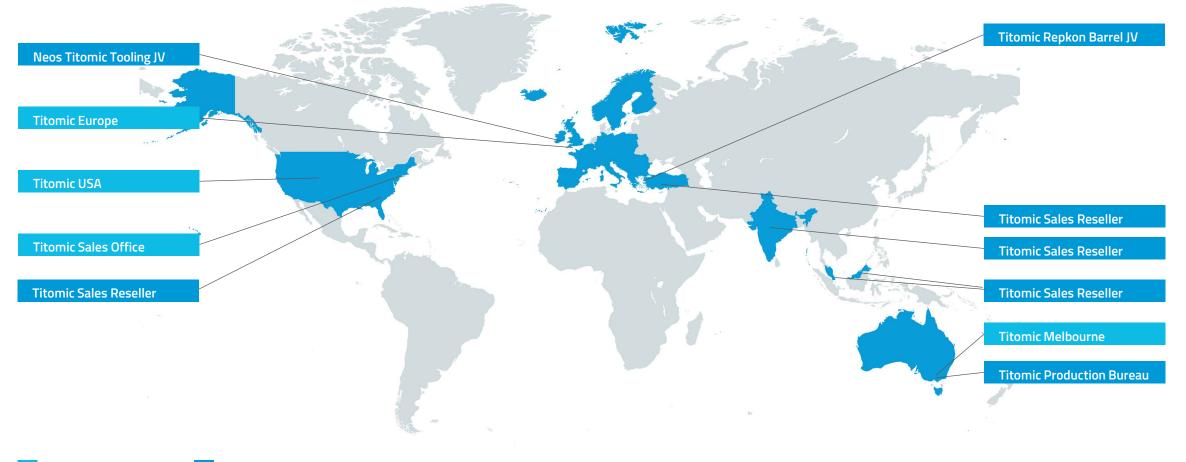






Taking our technology to the world – Global footprint

Global production, supply and service network to meet our customer's needs.

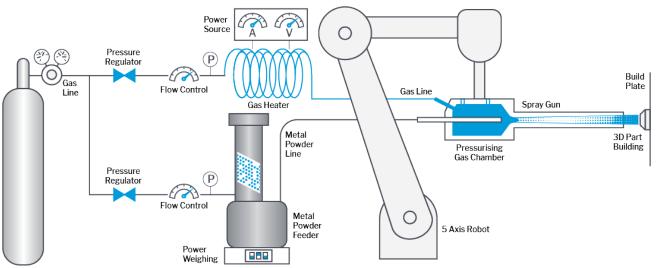


Superior speed and size

Titomic Kinetic Fusion (TKF)

- Exclusive rights to commercialise a form of cold spray additive manufacturing developed with CSIRO
- This process, called Titomic Kinetic Fusion (TKF), employs cold spray technology using compressed gas to accelerate metal powder particles at supersonic speed, which bond together to form a layer upon impact

The TKF process



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Key attributes of the TKF process

Speed

• Up to 3x faster than other Additive Manufacturing (AM) processes

Size

- Highly Scalable
- Up to 9m x 3m x 1.5m

Sustainable

• Less energy use and material waste

Cost effective

- Ability to use wide range of metal powders
- Cost competitive grade metal powders of dissimilar particle sizes and irregular shapes

Multiple Metals

- Build with almost any metal in a powder form
- Unique ability to combine different materials in a single part



Existing diverse and customisable machine portfolio



TKF 9000

- High pressure Cold Spray additive manufacturing and coating
- Demonstration of Titomic's ability to engineer and construct bespoke AM systems
- Build volume of 40.5m³
- Deployed in the Titomic Melbourne Production Bureau



TKF 1000

- High pressure Cold Spray additive manufacturing and coating
- Designed for prototyping and low volume production tasks
- Build volume of 0.75m³
- 1st gen system operating at Titomic Melbourne Bureau
- 2nd gen system under construction for TWI (UK)





ISB Series

- Low pressure Cold Spray coating
- Robotic or linear coating system
- Automated loading and unloading of parts
- Utilises D523 core cold spray system
- Ideal for R&D deployment or as a base for customised automated coating systems

- Low pressure Cold Spray coating
- Modular portable repair system
- Designed for robotic or manual repair and coatings

• Deployable for in-field repairs



Our rapidly growing trusted global customer base



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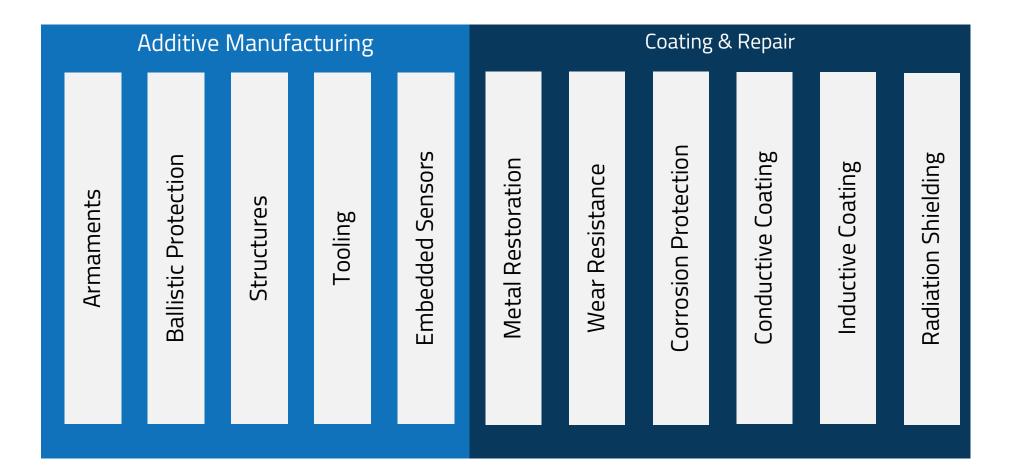
Five distinct fast growing revenue streams

1. Machine Sales	2. Joint Ventures	3. Workflow Solutions	4. Application Development	5. Resellers
Broad range of machine solutions • TKF 1000 • TKF Custom • ISB Series • D Series	 Building industry capability for manufacturing Fast access to existing markets 	 Automated solutions to maximise uptime Improved manufacturing productivity and efficiencies 	 Development, prototyping and testing for strategic application pillars 	Territory Coverage India Middle East Singapore Malaysia USA
<u>-</u>	Service, Maintenance, I	Materials (powders), Co	onsumables, Consulting	B
 TWI D&C Coating Lufthansa Flohe 	 Repkon JV Nèos JV 	VetropackGallo GlassBrauntell	 Boeing Fleet Space Thales Royal Australian Navy Airbus Inovor BAE Systems Triton 	 Shree Rapid Repkon Alliance MSI-Viking

Strategic Application Pillars



Disciplined and focused execution

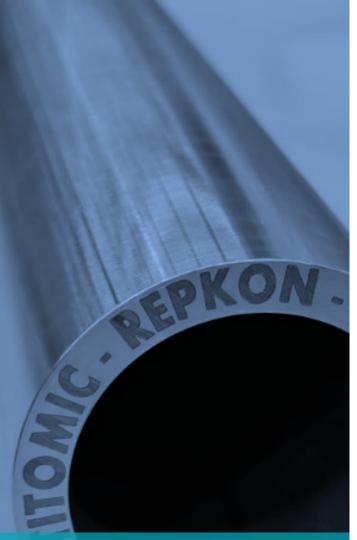




Proven track record of execution

Performance to plan with progress across focus applications

Category	Application	Prior to FY2022	FY2022		FY2023	F	Y2024	FY2025	FY2026	FY2027
	A	Validate Technology	Custom system design JV Production			on				
ů Li	Armaments		JV Agreement with Repko	n JV Setup	Cust	om system install				
	Tooling	Validate Technology	JV Agreement with c	other partners Cus	stom system design		JV Product	ion		
act	TOOIIIIg		JV Agreement with No	eos JV Setup	Си	ustom system install				
nuf	Ballistic	Initial development tests	Identify specific target app	plications Perfo	rmance improvemer	nts Customer	Articles			
Ma	Protection	MIL & NAT	O standards testing S	STANAG Lvl2 Pass	Customer Pro	totypes				
live	Structures	Develop TKF Systems	Key customer engageme	nt Key customer c	lemonstrators					
ddit	Structures		Sale of TKF 1000 to TWI	Titanium materia	al testing and specifi	cations				
A	Embedded Sensors	Prototype Bytepipe Test with Industry Partner Refine design, in-field testing								
Wear Resistance	Wear	Develop Glass Mould Coating S	ystem Installed at Vet	ropack	System commiss	sioned, production d	eployment			
	Resistance	New material solutions (carbide	rbides) Customer use cases, material selection & performance testing Field trials							
	Repairs &		Acquire Dycomet	Titomic Europe inte	egration D523	3 Production Scale-u	р			
Repairs & Corrosion			Hire Neil Matthews	D523 Globa	al Re-launch	Defence and new i	ndustry use c	ases		
P E Energy	Develop Silver coating for busb	ars								
Coating and	Lifergy	Develop copper spray for MWT	solar panels							
			Validate Materials							
C09	Conductive Coating		Validate so	lution efficacy						
	Radiation	Award of Space	Grant	Сс	ommercial customer	S				
Shielding		Demo an	d test Rad. Shielding	1s	t parts delivered	First parts launched	t			



Barrels

Targeting the Defence Industry

Armaments

Titomic enabling high performance barrels

Value Proposition

- Unique manufacturing solution for high performance barrels
- The process combines the TKF system and Repkon's patented free flowforming technology
- Enabling better material selection for:
- Improved erosion and corrosion resistance
- Improved strength to weight ratios
- Higher velocity rounds



Repkon's flowforming technology

Progress

- Repkon JV signed
 - Demonstrator barrels supplied
 - Qualification of demonstrators underway
 - Machine 1 design completed
 - Machine 2 design in progress
- Further JVs to be explored globally

- Revenue will be in the JVs (equity accounted)
 - Likely to commence from late 2023
- Revenues of up to \$50 55m to FY27







Ballistic Protection

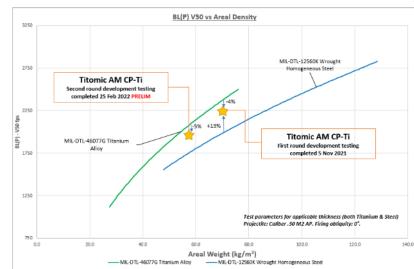
Targeting the Defence Industry

Ballistic Protection

Titomic enabling lighter, monolithic protection

Value Proposition

- Affordable and lightweight titanium armour
- Near net shape manufacturing
- Monolithic structures weldless assembly
- Tailored performance with multi-material architectures
- Weight reduction enables
 - Increased speed, range and space



Progress

- STANAG and MIL standard benchmark testing
- Mechanical performance optimization
- Engaged with 2 defence primes on projects

- New and upgrade of
 - Armoured vehicles
 - Naval vessels
 - Lightly armoured aircraft/helicopters



Manufacturing made sustaina

Structures

Exploiting Titomic's technology and cost benefits for lightweight, rapidly manufactured solutions

Structures

For lighter stronger titanium components

Value proposition

- Affordable titanium structures
- Near-net shape manufacturing
- Low-cost HDH titanium powder
- Melt-free manufacturing process
- Energy, emissions & environmental benefits

Progress

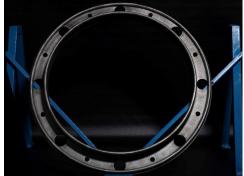
- Material optimisation completed for CP Titanium
- Engineering projects underway for technical and manufacturing processes
- · High value-added applications identified
- Samples with major customer for application approval

Market

- High end steel manufacturing
- Existing Titanium manufacturing

Titanium Ring Partially machined





Titanium Ring 1.4m diameter

Seamless Titanium Tank



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Tooling

Targeting the Aerospace & Defence Industries

Tooling

Titomic enabling a simplified supply chain

Value Proposition

Offers numerous benefits for our partners and customers

- Improved lead times
- Near net shape Minimal post-production and machining
- TKF process makes Titanium tooling a viable option (stronger, thinner, lighter, corrosion resistant)
- Reduced welding, assembly and lead times
- Multi-material solutions, for improved heat distribution
- Ability for embedded sensors, heating and cooling

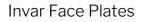
Progress

- Neos JV agreement signed
 - Demonstrator faceplates supplied
- Machine design completed and quotation submitted
- Further JVs being explored globally (4 additional players already in pipeline)

Market

- Revenue will be in the JVs (equity accounted)
 - Likely to commence from mid 2023
- Revenues of up to \$55-65m to FY27





Invar Repair



Titanium Tooling

Finished Surface

Repaired Surface

Worn Surface Coating and Repair

Targeting Mining, Oil & Gas, Transport and Marine Industries

Coating & Repair

Titomic extending asset life

Value Proposition

- Unique material solutions for repair
- Ability to restore geometries
- Repair in-situ
- Cold solid state repair process no hot work
- Increase of functionality



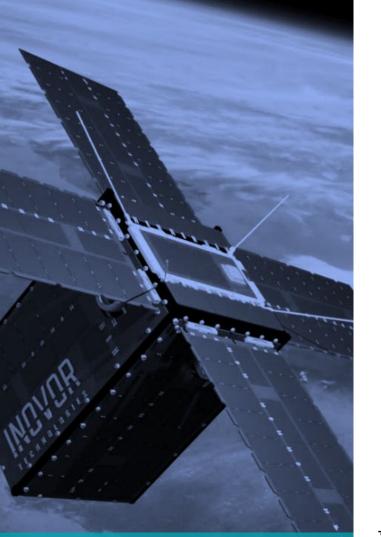


Progress

- Proven process and materials
- Mature solutions platform
- Global sales network with off-the-shelf solution
 - Growing quickly with resellers added regularly

- Corrosion costs the global economy up to an estimated \$2.5
 trillion annually
- The cost of corrosion remediation in Australia is estimated at \$78b annually





Radiation Shielding

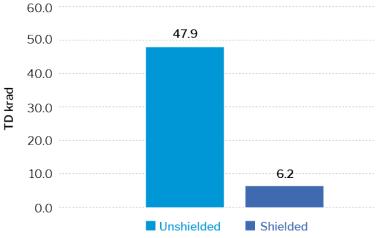
Targeting the space industry

Radiation Shielding

Titomic creating tailored, cost-effective shielding

Value Proposition

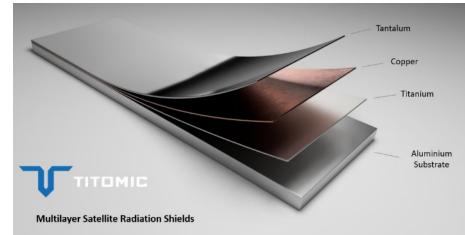
- Extending life of satellites
- Mission specific tailored designs
- Weight efficient shielding
- Cost-effective



Progress

- Capability to analyse and model missions
- Design shields for corresponding dose requirements
- Proven manufacturing capability
- First satellite with Titomic radiation shielding to be launched early 2023

- Applications across a broad range of satellite platforms
 - High growth area





Glass Equipment Coatings

Targeting glass manufacturing industries

Wear Resistance

Titomic maximising uptime

Value Proposition

- Extending the life of equipment
- Restoring damaged parts to original
- Replacing worn-out or corroded metal parts
- Portable in-field repairs in compact areas



Progress

- Installation of first automated commercial production machine
- Extending material portfolio to expand applications to adjacent use cases
- Engagement of more customers globally

- Glass packaging industry worth \$51b growing at CAGR 4.4%
- Revenue will flow from sales of powder, nozzles, consumables and servicing

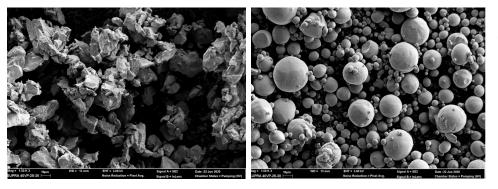


Unique powder supply for lower cost titanium

Cost effective and clean

Our TKF process can use hydride-dehydride (HDH) titanium powders to cut the cost and boost the performance of titanium parts.

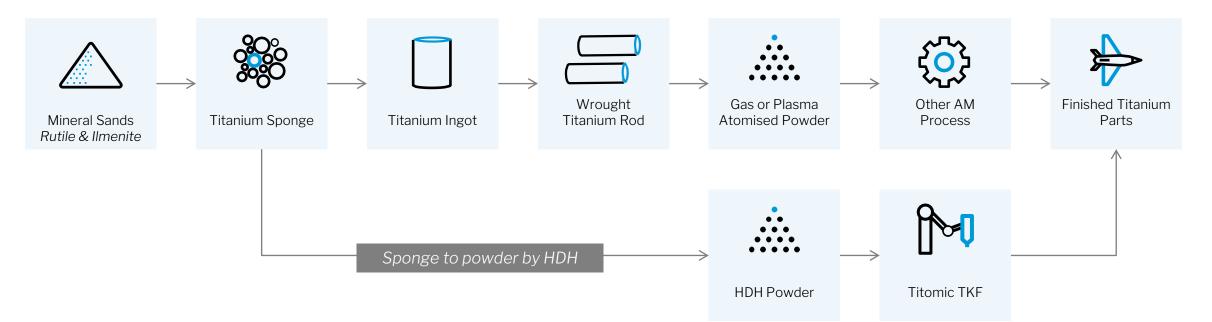
This clean hydrogen technology has low carbon emissions as compared to gas atomised powders and wrought titanium products.



SEM micrographs

Right: Spherical titanium powder

Left: Irregularly shaped HDH titanium powder



Unlocking unprecedented potential

Large & expanding market

- Strong tailwind with additive manufacturing market set to grow by 29% to 2025¹
- Buoyed by rapid prototyping, faster turnaround, less waste and lower emissions²
- Reduced costs and risks fuelling fourth industrial revolution

Global foothold

- Transitioning to formal **joint venture partnerships** with shared risks and rewards
- Set to scale globally across aerospace, defence and other high-value markets
- Expansion underway with signed agreements in the US, Europe, Middle East and Australia

Unparalleled expertise

- New board of directors and management team with strong industry, government and capital markets experience
- Deep scientific pedigree including Technical Advisory Committee with world-renowned scientists

Proven process & industry leading technology platform

- Pioneering patented technology co-developed with the CSIRO, Australia's national science agency
- Strong cost advantage within Titanium alloys with patent protection
- **Overcomes challenges** like long lead times, limited scalability and excess waste seen in traditional manufacturing

Compelling business model with attractive financial business profile

- Partnership manufacturing model with clients to deliver attractive unit economics with added benefit of sale of consumables and services
- Unique powder supply to reduce risk as well as cost of titanium parts while **boosting performance**
- Operating leverage will drive profitability

¹ AMPower Report 2021 ² CSIRO study of Cold Spray vs Electroplating



TITOMIC

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