



# FY2024 Results Presentation

The world's leading provider of cold spray technology

(ASX:TTT)

30 August 2024



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# Executive summary



Titomic has been on a recent journey of foundational growth and transformation

Core technology	<ul style="list-style-type: none"><li>• Titomic Kinetic Fusion® drives our high-pressure solutions and our ability to cold spray high end metals for component manufacturing</li><li>• Suite of low and medium pressure solutions with ability to cold spray most metals for coating &amp; repair</li></ul>
Commercial strategy	<ul style="list-style-type: none"><li>• The aim is for Titomic to become a component manufacturer of choice with large aerospace and defense primes, manufacturing high-end metal components using high-pressure cold spray technology</li><li>• Grow adoption of coating &amp; repair solutions, further expanding our installed base of low and medium pressure cold spray machines across various industries</li></ul>
Financial snapshot	<ul style="list-style-type: none"><li>• Cash at end June \$2.7m</li><li>• Q1FY2025 underpinned by \$2.6m July/August cash receipts from key customer orders</li><li>• Over \$10.0m orders in FY2024 (over \$8.0m of orders from 1 March 2024 through August 2024)</li></ul>
Key customers (since July 2023)	<ul style="list-style-type: none"><li>• Over \$7.1m of high-pressure cold spray systems orders across four solutions to Sabanci University (Aug-23), Triton Systems (May-24), OMIC R&amp;D (Jul-24) and Repkon (Jul-24)</li><li>• Over \$3.3m of low and medium pressure cold spray systems orders for coating and repair solutions to customers including French Navy, Airbus, EPCOR, Volvo, Royal Netherlands Army, CTME, and Woodside Energy</li><li>• Over \$1.0m of orders from a large aerospace and defense prime reflecting a relationship in the qualification phase spanning several years</li></ul>

# Titomic primed for commercial growth

- ✔ At the centre of Titomic's business is Titomic Kinetic Fusion® our, innovative, patented cold spray technology
- ✔ Two clearly defined business operations transforming multi-billion-dollar industries, being:
  - Additive metal manufacturing for high-performance components, and
  - Advanced coatings & metal repairs
- ✔ Large and expanding aerospace & defense markets in which Titomic has a growing global foothold
- ✔ Significant recent advancements in securing customer interest in Titomic systems and technology across multiple industry segments including aerospace, defense, oil & gas, mining and traditional manufacturing
- ✔ Multiple streams of revenue stemming from system sales, ongoing support services, consumables sales and long-term strategic component manufacturing contracts
- ✔ Defining new and novel applications where cold spray demonstrates enhanced metal integrity as well as significant cost-reduction benefits
- ✔ Strong growth outlook towards profitability



Titomic is providing new manufacturing capabilities to some of the world's leading providers in energy, defense, and aerospace, and continues to penetrate these large markets.



AIRBUS



REPKON

BAE SYSTEMS

Triton Systems

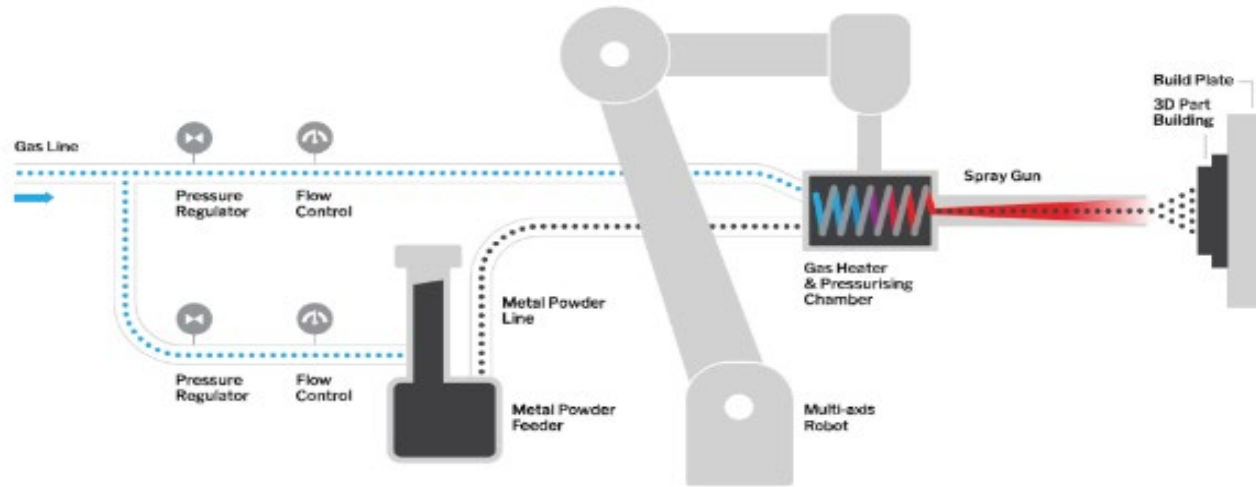


# Technology Overview

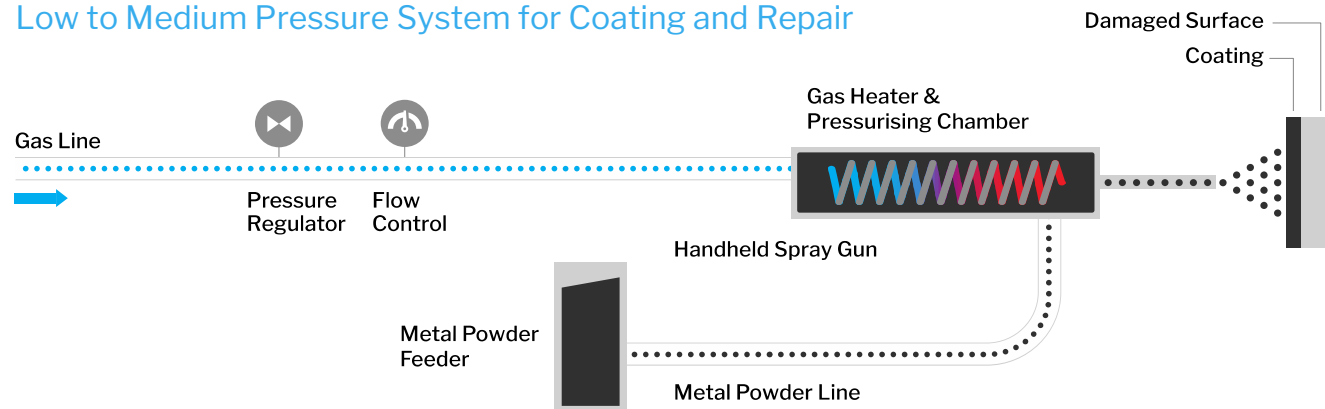
# Titomic's cold spray process

At the centre of Titomic's business is Titomic Kinetic Fusion® - our innovative, patented cold spray technology.

## Robotic High-Pressure System for Additive Manufacturing



## Low to Medium Pressure System for Coating and Repair



## 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 (high-pressure suited to high-end metals)
- Unique ability to combine different materials in a single part

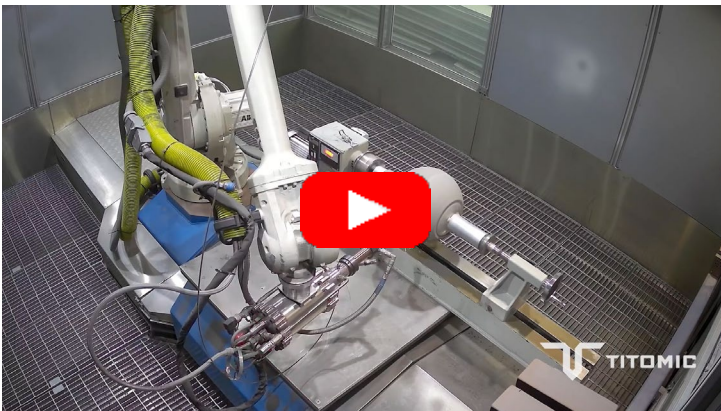


# Titomic Kinetic Fusion® enabling new capabilities for high-value industries

Put simply, the inherent characteristics of Titomic Kinetic Fusion® - a high-speed, no-melt metal deposition method – are enabling novel and improved processes for coatings, manufacturing, and repairs of metal parts. These capabilities are offering reduced downtime, reduced material costs, and reduced replacement costs to companies within aerospace, defense, mining, energy, and many more high-value industries.

## Large-scale manufacturing

The below video demonstrates Titomic's unique capability of manufacturing large titanium parts at industry-leading speed and size, depicting a **27kg pure titanium part being manufactured in 4.5 hours** using our TKF 1000 machine in our Melbourne Bureau.



Video: 27kg titanium valve manufactured in 4.5 hours; Directly accessible via: <https://vimeo.com/896418967?share=copy>

## Cold spray solutions for functional coatings and repairs

The same characteristics of Titomic Kinetic Fusion® that make the technology uniquely advantageous for manufacturing also provide novel capabilities for coatings and repairs, including:

1. Repair of metal parts without heat; a major challenge in remanufacturing and restoration within automotive, aerospace, and defense.
2. The creation of multi-metal coatings, enabling lightweight and consolidated solutions for satellite radiation shielding, wear and corrosion resistance within oil and gas, ballistics protection, and much more.



Video: D523 low-pressure cold spray for repair; Directly accessible via: <https://vimeo.com/1003149487?share=copy>



# Offering diverse, versatile cold spray systems



Titomic offers the world’s largest and most diverse product line of cold spray systems, offering novel capabilities for many industries. This includes handheld coatings and repairs, all the way through to advanced additive manufacturing for aerospace and defense.

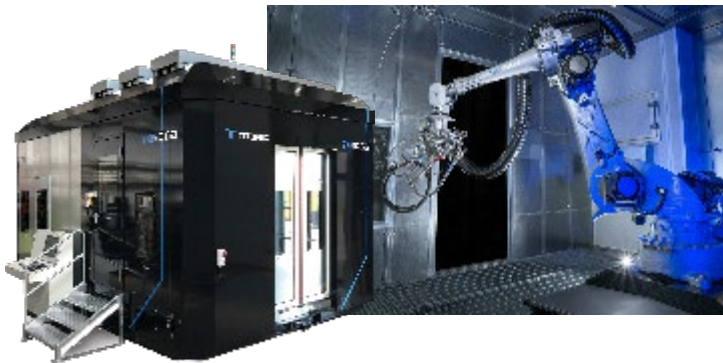
## For Additive Manufacturing of Component & Coatings



TKF 9000



TKF 3250



TKF 1000

This diverse range of cold spray systems enables new metal manufacturing opportunities, including the creation of multi-metal parts and advanced coatings for aerospace and defense.

<ul style="list-style-type: none"><li>• High pressure AM and coatings</li></ul>	<ul style="list-style-type: none"><li>• High pressure AM and coatings</li></ul>	<ul style="list-style-type: none"><li>• High pressure AM and coatings</li></ul>
<ul style="list-style-type: none"><li>• Demonstration of Titomic’s ability to engineer and construct bespoke AM systems</li></ul>	<ul style="list-style-type: none"><li>• Optimised for spherical and rotational builds – ideal for aerospace.</li></ul>	<ul style="list-style-type: none"><li>• Designed for prototyping and low volume production tasks</li></ul>
<ul style="list-style-type: none"><li>• 31.5 cubic metre build envelope</li></ul>	<ul style="list-style-type: none"><li>• Builds parts 3.25 metres in length</li><li>• 5.7 cubic metre build envelope</li></ul>	<ul style="list-style-type: none"><li>• 1 cubic metre build envelope</li></ul>
<ul style="list-style-type: none"><li>• Deployed in the Titomic Melbourne Production Bureau</li></ul>	<ul style="list-style-type: none"><li>• Titomic’s most advanced system, currently in use in aerospace and defense projects.</li></ul>	<ul style="list-style-type: none"><li>• 2<sup>nd</sup> generation systems installed at Titomic and TWI UK with installation to be made at Repkon Titomic.</li></ul>



Titomic’s Manufacturing & Innovation Facility located in Melbourne, Australia.



# Offering diverse, versatile cold spray systems



Titomic offers the world’s largest and most diverse product line of cold spray systems, offering novel capabilities for many industries. This includes handheld coatings and repairs, all the way through to advanced additive manufacturing for aerospace and defense.

## For Coating and Repair



ISB Series



D523 & D623

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Low-to-medium pressure cold spray coatings with D523 or D623 system</li></ul>                | <ul style="list-style-type: none"><li>• Low and medium pressure cold spray coating</li></ul>         |
| <ul style="list-style-type: none"><li>• Robotic or linear coating system</li></ul>   | <ul style="list-style-type: none"><li>• Designed for robotic or manual repair and coatings</li></ul> |
| <ul style="list-style-type: none"><li>• Automated loading and unloading of parts</li></ul>   | <ul style="list-style-type: none"><li>• Deployable for in-field repairs</li></ul>                    |
| <ul style="list-style-type: none"><li>• Ideal for R&amp;D deployment or as a base for customised automated coating systems</li></ul> | <ul style="list-style-type: none"><li>• Modular portable repair system</li></ul>                     |



Containerised Mobile Repair Unit – a fully-integrated, on-site repair solution for field deployment displayed at the Belgian Defense Expo 2023.



‘Backpack’ D523 prototype, designed for enhanced portability for in-field repair and coatings.



# Component Manufacturing

# Clearly defined business operations with multiple revenue streams



## Component Manufacturing

Contract manufacturing of armaments, tooling and additive manufactured structures targeting the global ballistics, aerospace and armaments sectors

Titanium Ring Partially machined



Titanium ring - 1.4m diameter



Seamless Titanium Tank



81mm Inconel mortar barrel



Lighter, stronger, components with high performance rapid manufacturing

Competitive Advantage	Fast production of affordable near-net shape parts from Inconel, Titanium, Stainless Steel and more. (Build at 4-6kg per hour, compared to kilograms per day in melt-based methods)
Materials	Cost-effective pure Titanium, Inconel 625, Invar, Steel, Copper, Tantalum and other refractory metals
Revenue Profile	As Titomic manufactured components are qualified for their use case by the customer, Titomic expects to receive long term, high volume, sticky recurring orders. Titomic also earns revenue from R&D and prototyping engagements
Recent Success	Several ongoing defense and aerospace qualification projects with customers such as Boeing, Repkon, BAE systems and other confidential customers



# Commercial benefits of Titomic cold spray

Titomic's manufacturing process has many advantages over traditional forging & casting, which also enables integration into supply chains within the aerospace, defense, oil & gas, maritime and energy sectors. The below statistics relate to cold spray benefits working with Titanium.



## Performance

Titomic Kinetic Fusion® is the world's only technology capable of building multi-metal parts, exploiting the strengths of numerous metals in a single, one-piece structure. Relevant to all high-value industries.



## Density

Titomic's manufacturing can achieve extremely high densities, up to 99.9% for pure Titanium parts, exceeding the density of cast metal parts. Titomic Kinetic Fusion® is also capable of creating parts that meet or exceed the strength of cast or forged parts, dependent on application.



## Time & Material Efficient

Titomic Kinetic Fusion® provides 'near net shape' manufacturing that requires only 5-10% of the final part to be machined away, compared to traditional manufacturing which often requires 90% of billet material to be removed. This saves a significant amount of material costs and manufacturing time.



## Cost-effective

The reduction in wastage, machining hours and supply chain efficiencies results in a cost-effective outcome for our customers. Further, Titomic's cost-effective cold spray powders are making Titanium a commercially viable endeavor for all industries.



## Waste

Titomic's 'near net shape' manufacturing results in a significant reduction in material waste of up to 90%, stemming from the elimination of machining away excess material seen in subtractive manufacturing.



# Commercial focus – component manufacturing

Titomic aims to become a trusted supplier of high-performance metal components, serving world-leading aerospace and defense companies. Titomic has generated significant demand in FY2024 from global aerospace and defense primes, including Boeing and Airbus among others.

## Titomic has made significant progress in FY2024

- Our ability to manufacture large component parts from high-end metals is unmatched
- Over \$1.0m orders received in last 12 months from global aerospace and defense primes for qualification of titanium manufactured components
- Have built relationship with various global aerospace and defense primes over the last 2-3 years and currently in qualification stages
- Aim is to become key part of supply chains for these business – not just a machine sale – Titomic aims to become a large-scale manufacturer
- In Jul-24, Titomic announced a \$2.3m order for a TKF 1000 from joint venture partner, Repkon, to commence manufacturing operations which aim to revolutionise barrel manufacturing
- Sales of high-pressure cold spray solutions to key global R&D leaders will continue to promote Titomic and our solutions and showcase Titomic's capabilities on the world stage





# Coating & Repair





# Cold spray repair and coating

Titomic's ultimate value proposition is to extend the life of assets that would be expensive to replace, both upfront and in terms of opportunity cost

## Repair

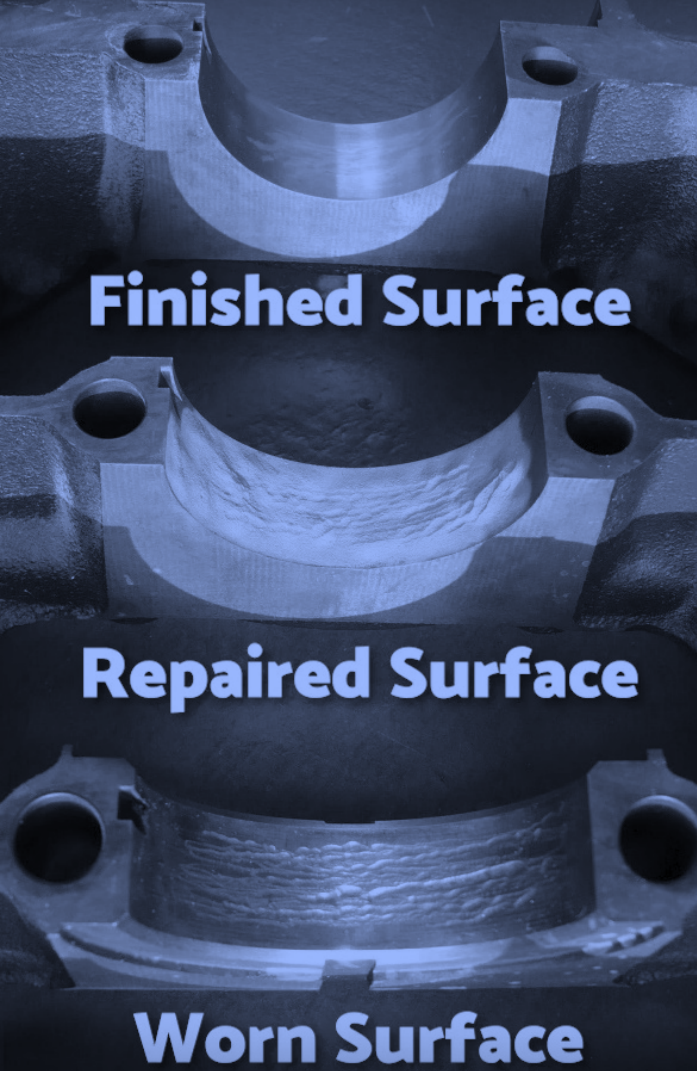
### Value Proposition

1. Unique material solutions for repair caused by impact, wear, erosion and corrosion
2. Ability to restore geometries and potential structural degradation
3. Repair in-situ – no time-consuming disassembly needed
4. Cold solid state repair process – no hot work avoiding cracking, annealing, or warping
5. Increase of functionality
6. Significant reduction of equipment downtime
7. Significant reduction in life cycle (i.e. repair not replace)

## Functional Coatings

### Value Proposition

1. Exploiting the beneficial traits of multiple metals in heterogeneous coatings for corrosion, wear, radiation, and heat resistance
2. Create coatings directly onto existing parts for reconditioning or second-phase manufacturing
3. Utilise refractory metals such as Tantalum, Titanium, and more



## Coating and Repair

Targeting Mining, Oil & Gas, Transport and Marine Industries

# Introducing the D623

Titomic offers the world's largest and most diverse product line of cold spray systems, offering novel capabilities for many industries. This includes handheld coatings and repairs, all the way through to advanced additive manufacturing for aerospace and defense

## Key Capabilities

- Create strong, thick coatings for restoration of wear and corrosion remediation
- Deposit dissimilar metals, such as aluminium onto steel, or nickel onto cast iron
- Repair heat-sensitive parts, not exceeding 90°C
- Highly portable systems enable on-site repairs

## Key Benefits

- Minimal heat transfer, avoiding cracking and other heat-related damage
- Enables rapid repairs, reducing downtime and replacement costs
- Allows repairs without the need to disassemble parts or assemblies, further reducing downtime
- Versatile handheld systems, and robotised systems for automated operation
- Does not produce harmful gases, unlike welding
- Deposit strong layers of metal with high adhesion strength



## Cutting edge capability



Restore metal parts, saving them from the scrap heap



Spray metal in seconds. Restore in minutes



No excess heat, avoiding cracking and warping



Deposit layers of metal with above 99% density



Well-suited for university R&D, as well as production environments



Deposit dissimilar metals

# The D623 is successfully in market

Working with leading companies, Titomic has successfully introduced the D623 for university R&D and education, and aerospace MRO

New system, new clients, and new capabilities.





# Commercial focus – coating and repair

Titomic aims to further expand our installed base of low and medium pressure cold spray machines across various industries

## Titomic continues coating and repair market penetration in FY2024

- Global installed base of low pressure and medium pressure machines stands at 148.
- Since 1 July 2023 (up to the date of this report), Titomic's installed base grew by 27 systems, two Integrated D623 Spray Booths (Perron038 and EPCOR), one D623 (Airbus), and 24 D523 systems.
- Leverage installed base for consumable sales (powder) – achieved \$1.1m in FY2024
- Largest order for Titomic received in FY2024 with 10 D523s sold to Royal Netherland Army (delivered Jul-24) (order value \$1.3m)
- Aim to become qualified repair method enabling increased larger scale orders and scalability across different sectors or related organisations
- Leased first D523 to Woodside via Monadelphous in Jun-24
- Expecting growth in lease model as corporates rather OPEX over CAPEX solutions
- Titomic can offer full-service leasing model (machine, servicing, consumables (powder) and cold spray technical assistance)
- Focused effort on large scale coating & repair industries such as aerospace, defense, oil & gas, mining and automotive





# Financial Overview

# Strong outlook towards profitability following significant recent success



Date	Counterparty	Industry/Use	Type	Value
14 Aug 2024	Undisclosed aerospace and defense prime	Defense Sector	Undisclosed	\$577k
18 July 2024	Repkon (Joint Venture)	Defense Sector	TKF System Sale	\$2,300K
1 July 2024	OMIC R&D	Research	TKF System Sale	\$1,200K
14 June 2024	Undisclosed aerospace and defense prime	Defense Sector	Undisclosed	\$476K
11 June 2024	Woodside via Monadelphous	Oil and Gas	D523 Lease Agreement	>\$50K p.a
7 May 2024	Triton Systems	Manufacturing	TFK System Sale	\$1,200K
16 April 2024	CTME	Research	D523, D623 and Integrated Spray Booth Sale	\$495K
26 March 2024	Royal Netherlands Army	Ukrainian Frontlines	D523 Sale	\$1,280K
6 February 2024	Volvo Group	Maintenance, Repair, and Overhaul (MRO) Sector	D523 Sale	\$91K
7 December 2023	Western Australian and Texas mining (Undisclosed Companies)	Mining	D523 Sale	\$199K
21 November 2023	EPCOR (a subsidiary of Air France Industries and KLM Engineering & Maintenance)	Aircraft MRO sector	Integrated Spray Booth Sale	\$517K
16 October 2023	Airbus Group	MRO Sector	TKF System Sale	\$645K
23 August 2023	French Ministry of Armed Forces (French Navy)	Defense MRO Sector	D523 Sale	\$99K
10 August 2023	Sabancı University	Research	TKF System Sale	\$2,400K
<b>Total</b>				<b>\$11,529K</b>

## Strong sales pipeline and pathway to profitability

Left: The last twelve months of announced sales contracts reflecting sales conversion picking up pace

- Recent forays further into strategic markets – including the US defense sector (Triton, OMIC, Repkon, defense primes)
- Targeting high value industries such as defense, aerospace, ballistics, mining and natural resources
- Strong growth in component manufacturing, capital asset sales as well as consumables
- Company is maintaining a strict cost discipline while seeing a stronger top line, order growth and cash flow expansion for FY2025

[ASX announcements are available on the Titomic website](#)



# Profit and loss



Profit & loss highlights	FY2024 (\$'000)	FY2023 (\$'000)	% Movement
Revenue			
<b>Revenue from customers</b>	<b>5,924</b>	<b>2,619</b>	<b>126%</b>
Other revenue	1,773	1,869	(5%)
<b>Total revenue</b>	<b>7,697</b>	<b>4,488</b>	<b>71%</b>
Expenses			
Production and related	(4,935)	(3,419)	44%
Corporate and administrative	(6,962)	(7,144)	(3%)
Sales, marketing and promotion	(2,461)	(2,638)	(7%)
Share based payments	(4,061)	(1,889)	115%
Impairment	(914)	(2,688)	(66%)
<b>Total expenses</b>	<b>(19,965)</b>	<b>(19,979)</b>	<b>-%</b>
Loss before income tax expense	(11,652)	(15,709)	(25%)
<b>Loss after income tax expense</b>	<b>(12,892)</b>	<b>(15,709)</b>	<b>(23%)</b>
Loss attributable to owners	(11,994)	(15,657)	(23%)

## Strong revenue growth in FY2024 whilst maintaining strict cost discipline

- Revenue in FY2024 underpinned by sale of a high-pressure cold spray system to Sabanci University (\$2.3m) and an integrated D623 cold spray booth to Perron038 (\$0.7m)
- Production and related expenses include all costs of production and show increasing utilisation
- Disciplined costs control across corporate and administrative and sales, marketing and promotion expenses reflecting benefits of cost optimisation program in May 2023
- Anticipate increased sales revenue in FY2025 given increasing order pipeline



# Balance sheet

Balance sheet highlights	FY2024 (\$'000)	FY2023 (\$'000)	% Movement
Cash and cash equivalents	2,729	1,471	
Trade and other receivables	644	409	
Inventories	3,463	2,733	
<b>Total assets</b>	<b>8,075</b>	<b>6,353</b>	<b>27%</b>
Trade and other payables	(1,713)	(1,009)	
Borrowings	(387)	(1,018)	
Other financial liabilities	(3,278)	(470)	
<b>Total liabilities</b>	<b>(7,045)</b>	<b>(7,068)</b>	<b>-%</b>
<b>Net assets</b>	<b>1,030</b>	<b>(715)</b>	<b>244%</b>

## Clean balance sheet ready for growth

- Inventories includes raw materials, work in progress (WIP) and finished goods and reflects material WIP (\$1.8m) on hand at year end partly for significant orders delivered in July/August 2025
- Borrowings relates to insurance loan at end FY2024
- Other financial liabilities mainly relates to CSIRO licensing (\$1.4m) and deferred revenues (\$1.3m)

# Cash flows



Cash flow highlights	FY2024 (\$'000)	FY2023 (\$'000)
Receipts from customers	6,305	3,640
Payments to suppliers and employees	(14,011)	(15,131)
Government grants and tax incentives	1,599	825
<b>Cash flows from operations</b>	<b>(6,231)</b>	<b>(10,719)</b>
Payment for property, plant, and equipment	(897)	(925)
<b>Cash flows from investing activities</b>	<b>(1,069)</b>	<b>(754)</b>
Proceeds from the issue of shares (net of costs)	9,495	4,755
<b>Cash flows from financing activities</b>	<b>8,576</b>	<b>5,784</b>
<b>Net cash flows</b>	<b>1,276</b>	<b>(5,690)</b>
Cash at the start of the year	1,471	7,108
<b>Cash at the end of the year</b>	<b>2,729</b>	<b>1,471</b>

## Improved operational cash flow performance

- Improved operational cash flows reflective of increased revenues from customers as well as disciplined cost control
- Q1FY2025 underpinned by \$2.6m July/August cash receipts received from customer deposit (OMIC) and final payments (Sabanci University, Royal Netherlands Army and EPCOR)
- Will continue to monitor cash position and sales orders whilst balancing the growth needs of the business and maintaining a strict cost discipline



# Summary

# Unlocking Titomic's potential

## Large & expanding market

- Strong tailwind with global defense and aerospace market set to grow by 41% to 2028<sup>1</sup>
- Strong tailwind with global cold spray market anticipated to reach \$2.6 billion by 2030<sup>2</sup>
- Set to scale globally across aerospace, defense and other high-value markets
- Buoyed by rapid prototyping, faster turnaround, less waste and lower emissions<sup>3</sup>

## Global foothold

- Direct US market entry with highly experienced sales executive Dr. Patricia Dare supported by additional technical sales/support as well as engineering partnership with DESE [Defense Contractor | Dese Research, Inc. | Huntsville](#)
- Expanding European foothold with new 3,000 sqm manufacturing facility in Holland to be operational in early 2025
- Established Asia Pacific presence with HQ and manufacturing in Melbourne, Australia
- Global network of resellers and distributors
- Expansion is underway with signed agreements in the US, Europe, Middle East and Australia

## Compelling business model for growth

- Partnership manufacturing model with clients delivering repeat revenue streams & attractive unit economics
- Large and smaller systems sales with added benefits of sale of consumables and services
- Unique powder supply to reduce risk as well as cost of Titanium parts while boosting performance

## 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



1. Research and Markets. (2024). Defense Electronics Global Market Report 2024. [online] Available at: <https://www.researchandmarkets.com/reports/5895402/defense-electronics-global-market-report-2024> [Accessed 25 Jul. 2024].
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3. CSIRO. (2024). Study of Cold Spray vs Electroplating. [online] Available at: <https://www.csiro.au/en/research/technology-space/advanced-manufacturing/cold-spray-vs-electroplating> [Accessed 25 Jul. 2024].

# Leadership with proven industry experience

Nearly two centuries of cold spray experience across the staff and board



## Board of Directors



**Dag W.R. Stromme**  
Chair of the Board



**Humphrey Nolan**  
Non-Executive Director



**Mira Ricardel**  
Non-Executive Director



**Richard Willson**  
Non-Executive Director



**Dr. Andreas Schwer**  
Non-Executive Director

## Leadership Team



**Herbert Koeck**  
Managing Director



**Geoff Hollis**  
Chief Financial Officer



**Chris Healy**  
Legal Counsel &  
Company Secretary



**Dominic Parsonson**  
Head of Sales & Marketing



**Neil Matthews AM**  
Senior Technical Fellow



**Klaas Rozema**  
General Manager - Europe



**Dr. Patricia Dare**  
Head of Aerospace and Defense



**Michael Rochford**  
General Manager - APAC



**Beau Lang**  
Business Operations



# Our growing, trusted global customer base



AIRBUS



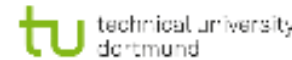
CIRI



FLEET

BAE SYSTEMS

CATERPILLAR®



SIEMENS



Flottweg



Ein Fach.  
Mehr.  
Sicherheit

CZL Tilburg bv  
Oppervlaktetechnieken



Lufthansa



VOLVO



SAAB



Revamo

INOVOR  
TECHNOLOGIES



MAHLE





# Appendix

# Australian origins, global ambitions



## Australian Origins

- Titomic Kinetic Fusion technology was co-developed with Australia's preeminent science body, the Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Australian installations include the TKF 9000, a TKF 3250 and a second gen TKF 1000 deployed in Melbourne, Australia
- Titomic manufactured components currently being delivered from Melbourne to the world

## European Market Engagement

- Titomic has a manufacturing office in the Netherlands servicing EMEA
- European market focus has delivered contracts including EPCOR (a subsidiary of Air France & KLM), Airbus, Sabanci University and more
- Second Gen TKF 1000 installed at TWI (UK)
- Currently expanding operations into new 3,000 sqm facility (Q12025) to expand manufacturing capabilities in the region

## United States of America Market Engagement

- Titomic operates a US specific subsidiary - required to engage US Department of Defense and other sensitive defense engagements
- Engagements in the US include those whose disclosure to market is restricted by the International Traffic in Arms Regulations
- USA sales team being bolstered with high profile engagement of Dr Patti Dare (announced in July 2024)
- Board includes directors with a significant depth of expertise and active engagement with the USA defense sector
- Close cooperation with DESE on engineering key defense projects
- Future TKF 1000 and Custom TKF installations to be explored in the US to service specific domestic engagements

# Cold spray additive manufacturing (CSAM)



## Value Proposition

1. Fast production of affordable near-net shape parts from Inconel, Titanium, Stainless steel and more. (Build at 4-6kg per hour, compared to kilograms per day in melt-based methods)
2. Integrated manufacturing systems, designed specifically to add value to specific applications or for versatility
3. Post processing such thermal treatment and hot isostatic pressing to enhance material mechanical properties
4. Enabling new possibilities for part manufacture to achieve higher strength-to-weight and create simplified, one-piece, consolidated parts

## Applications

- Titanium structures
- Pressure vessels for satellites and rockets
- Ballistics protection
- Replacement of casted and forged parts
- High-performance functional coatings
- High performance barrels and cylindrical parts for aerospace and defense

## Proven to be effective in aerospace and defense with real-world applications

### Satellite mounting ring

- 60 kilograms
- 1.2 metre diameter
- Weight as built: 60 kg
- Final part weight: 56kg
- Buy-to-fly ratio: 1.08
- Build time: **12 hours**
- Material cost: \$3,000
- 50% lighter than steel



## World-leading CSAM capability

Titomic additively manufactures high-performance Titanium parts at a fraction of the cost of traditional methods

Titomic is enabling commercially viable production of Titanium at scale and speed which no other technology is capable of



World's fastest AM technology with minimal size limitations



Build multi-metal, single-piece structures



High performance Titanium parts at half the weight of Steel



Create large, freeform 3D structures

# Cold spray market expected to grow



## Service – Segment

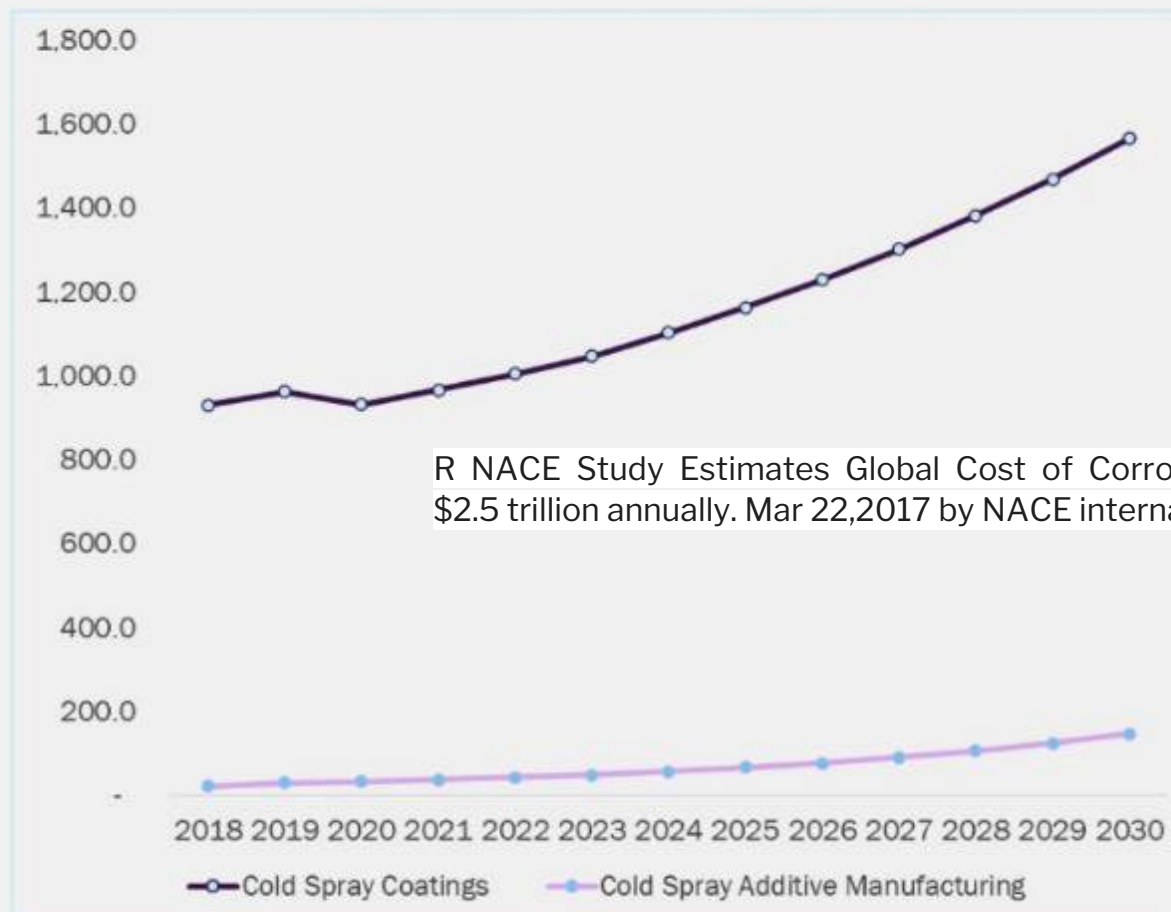
### Cold Spray Coatings

Market growth from 1,003.7 revenue in 2022 to 1,566.3 revenue in 2030

### Cold Spray Additive Manufacturing

Market growth from 42.6 revenue in 2022 to 146.8 revenue in 2030

## Key Segment Trends (Revenue, USD Million)

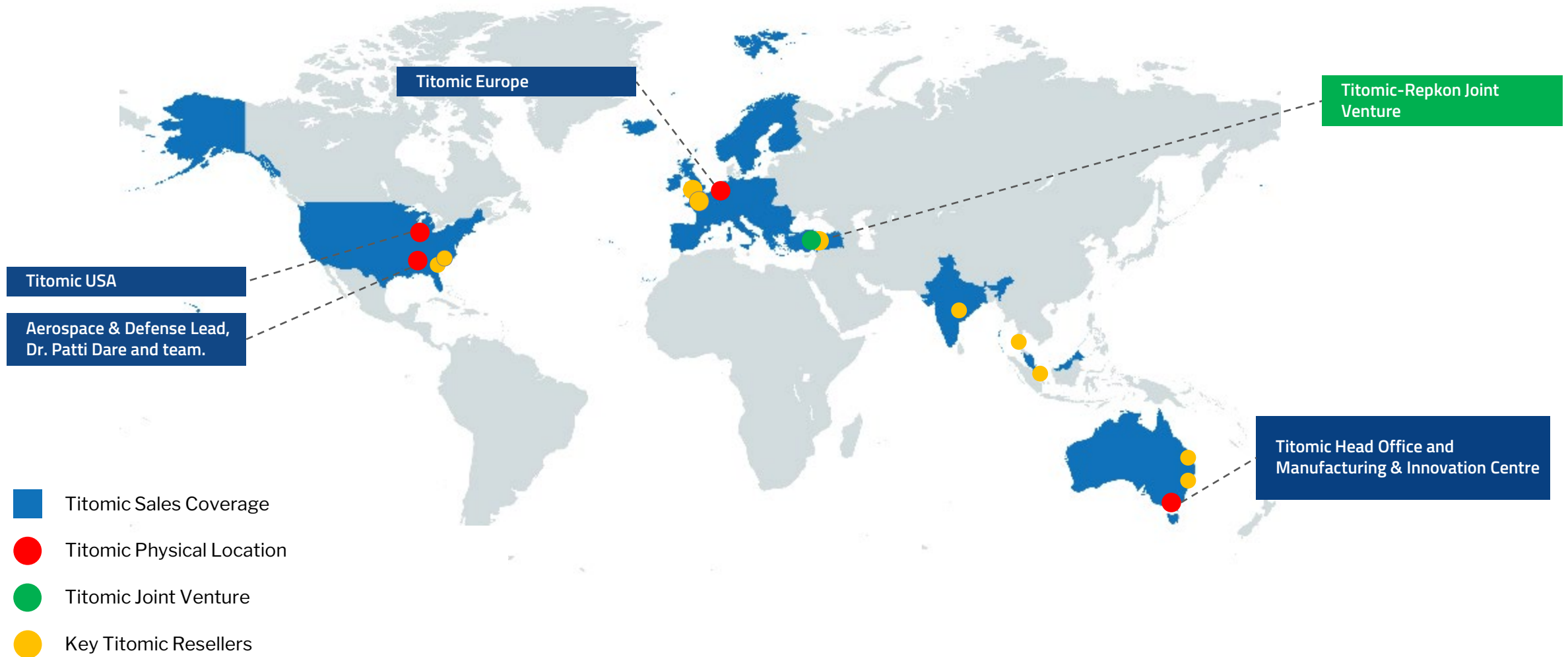


R NACE Study Estimates Global Cost of Corrosion at \$2.5 trillion annually. Mar 22,2017 by NACE international

# Taking our technology to the world



Global production, supply and service network to meet our customer's needs with 10 resellers across USA, Asia and Europe







FOR FURTHER INFORMATION

**TITOMIC LIMITED (ASX:TTT)**

e: [investors@titomic.com](mailto:investors@titomic.com)

**REIGN ADVISORY PTY LTD**

p: +61 2 9174 5388

e: [TTT@reignadvisory.com](mailto:TTT@reignadvisory.com)

**TITOMIC**

Titomic Limited, Ground Floor 365 Ferntree Gully Road, Mount Waverley, Victoria 3149, Australia  
PO Box 225, Mount Waverley, Victoria 3149, Australia

[info@titomic.com](mailto:info@titomic.com) | [titomic.com](http://titomic.com)