



ADDITIVE MANUFACTURING AT INDUSTRIAL SCALE

ANNUAL GENERAL MEETING  
28 JANUARY 2021

2020  
AGM

# THE LEADERSHIP TEAM

## Board



Dr. Andreas Schwer  
INDEPENDENT NON-EXECUTIVE CHAIRMAN



Jeff Lang  
EXECUTIVE DIRECTOR/ CHIEF TECHNOLOGY OFFICER



Professor Richard Fox  
NON-EXECUTIVE DIRECTOR



Dag W.R. Stromme  
INDEPENDENT NON-EXECUTIVE DIRECTOR



Humphrey Nolan  
INDEPENDENT NON-EXECUTIVE DIRECTOR



Richard Willson  
INDEPENDENT NON-EXECUTIVE DIRECTOR

## Executive Management



Norbert Schulze  
INTERIM CEO



Joanna Walker  
INTERIM CFO



Chris Healy  
INTERIM LEGAL COUNSEL



Jeff Lang  
EXECUTIVE DIRECTOR/ CHIEF TECHNOLOGY OFFICER



Peter Vaughan  
COMPANY SECRETARY

**NEW**

# ONLINE ATTENDEES – QUESTION PROCESS



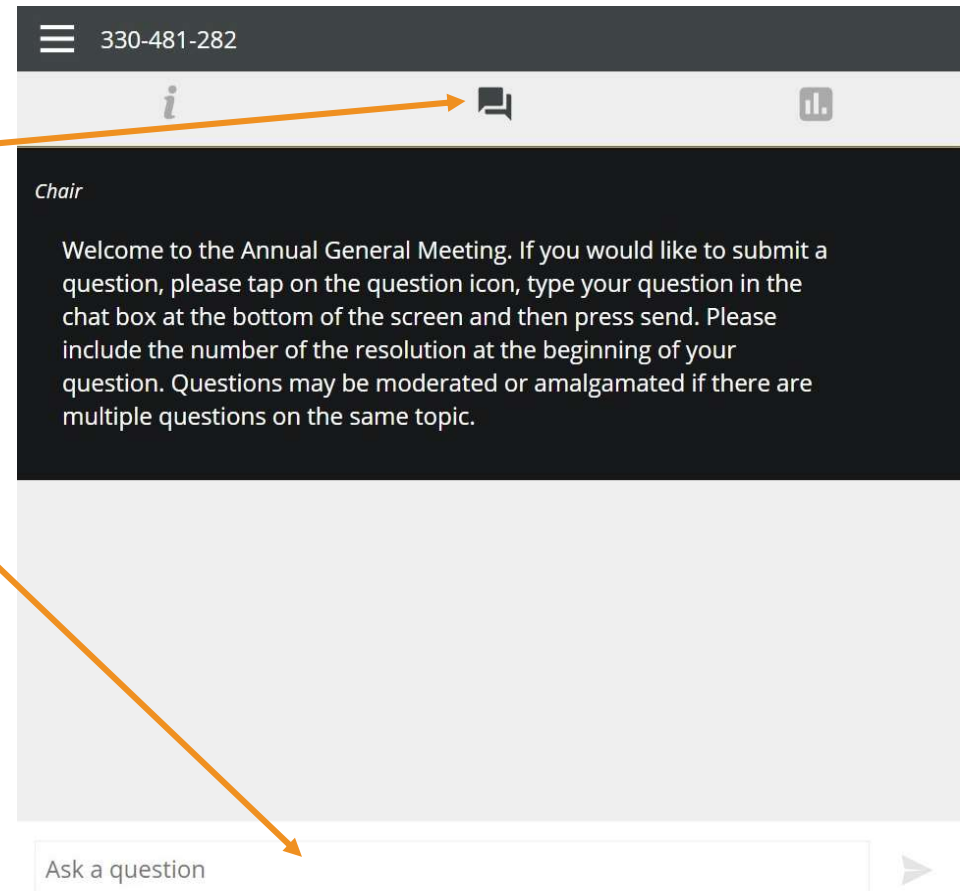
When the Question function is available, the Q&A icon will appear at the top of the app



To send in a question, click in the 'Ask a question' box, type your question and press the send arrow



Your question will be sent immediately for review



# ONLINE ATTENDEES – VOTING PROCESS



When the poll is open, the vote will be accessible by selecting the voting icon at the top of the screen



To vote simply select the direction in which you would like to cast your vote. The selected option will change colour

For	Against	Abstain
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There is no submit or send button, your selection is automatically recorded. You can change your mind or cancel your vote any time before the poll is closed

330-481-282

You have voted on 0 of 2 items

**Resolution 1: Adoption of the Remuneration Report**  
*Select a choice to send.*

For	Against	Abstain
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CANCEL

**Resolution 2: Approval of issue of securities under the Short-Term Incentive Plan**  
*Select a choice to send.*

For	Against	Abstain
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CANCEL



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ANNUAL GENERAL MEETING  
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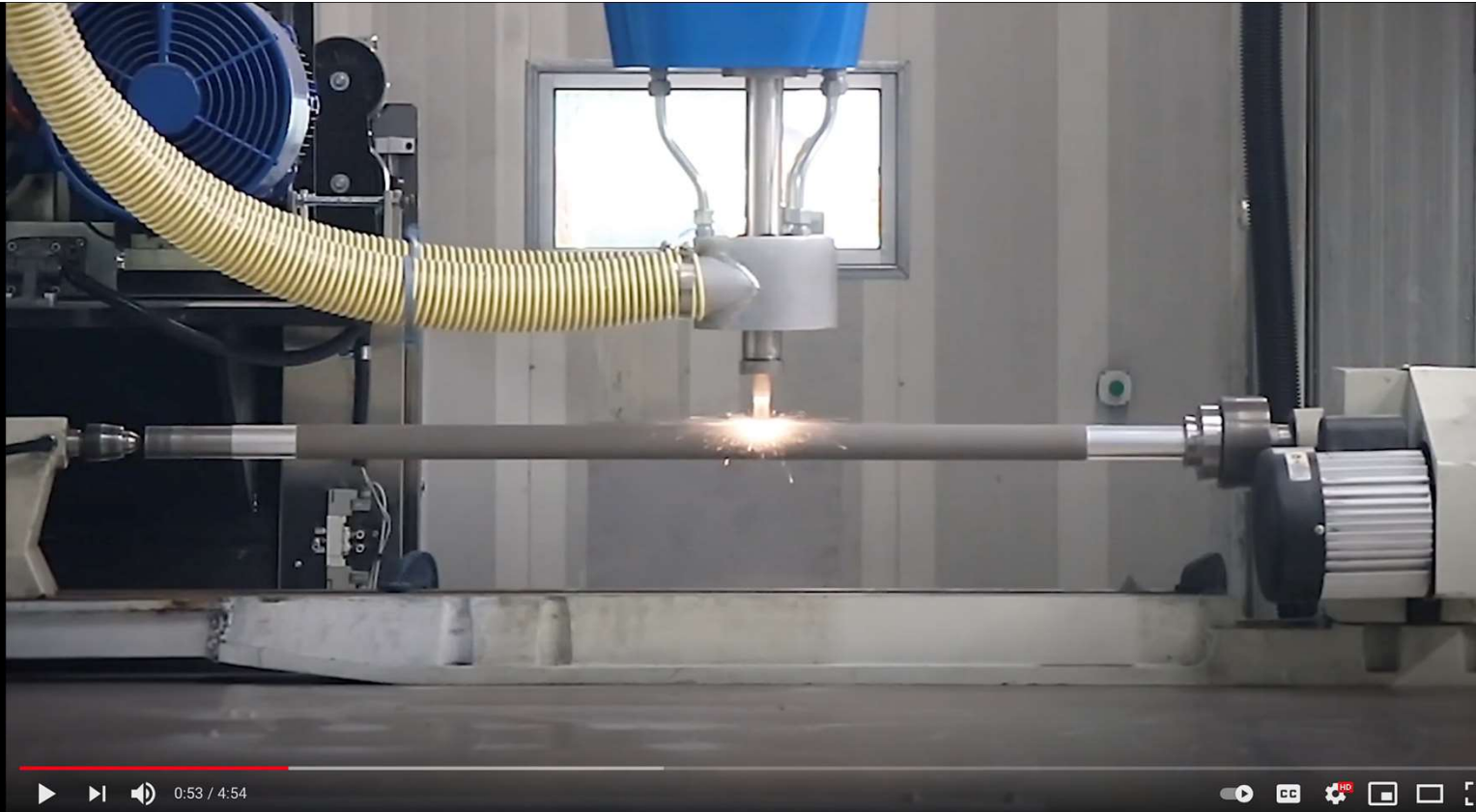
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**TITOMIC**  
**Kinetic Fusion®**  
Patented and proven,  
superior additive  
manufacturing  
technology.

**ADDITIVE MANUFACTURING AT INDUSTRIAL SCALE**  
Faster, smarter and more efficient

# KEY FIGURES

## 12 month Share Price

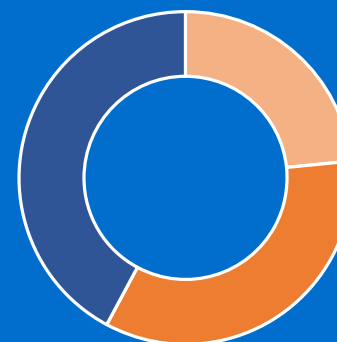
Feb 2020 to JAN 25<sup>th</sup> 2021



## Ownership Breakdown (31 Dec 2020)



Balance of Shareholders  
42%



Founders & Directors  
24%

Remainder of Top 20  
34%

Capital Structure (31 <sup>st</sup> December 2020)	Shares
Shares on Issue	153,249,669
Director & Employee Performance Rights Shares	2,663,804
Listed Options (Exercisable at AUD\$2.50 on or before 10 July 2021)	2,058,839
Unlisted Options (Exercisable at various prices and dates)	8,100,000
Market Capitalisation (31 Dec 2020)	AUD \$78.2M
Cash Balance (30 Sept 2020)	AUD \$14.9M



**TITOMIC**



**YEAR IN REVIEW**

# STRENGTHENED LEADERSHIP IN 2020



## Board



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TECHNOLOGY OFFICER



Peter Vaughan  
COMPANY SECRETARY

**NEW**

- › Enhanced mix of Board skill with global industry and capital markets experience
- › Senior management restructure and additions

DRIVING THE CHARGE TO FULL COMMERCIALISATION.

# CORPORATE HIGHLIGHTS



- 1** Titomic has Intellectual Property rights to patented Titomic Kinetic Fusion® (TKF) additive manufacturing technology.
- 2** Progress in proving TKF capabilities and benefits to our customers in specific industry sectors.
- 3** Leadership team expanded and enhanced with additional board members, a new CEO and other new senior executives, in preparation for moving through commercialisation phase.
- 4** TKF additive manufacturing technology has an industry leading capability to print large metal parts and components.
- 5** TKF is a true multi-metal additive manufacturing solution, with the agility to build parts from several metals, bond dissimilar metals and utilise varying grades of powder.
- 6** Immediate target industries include aerospace, defence and mining.

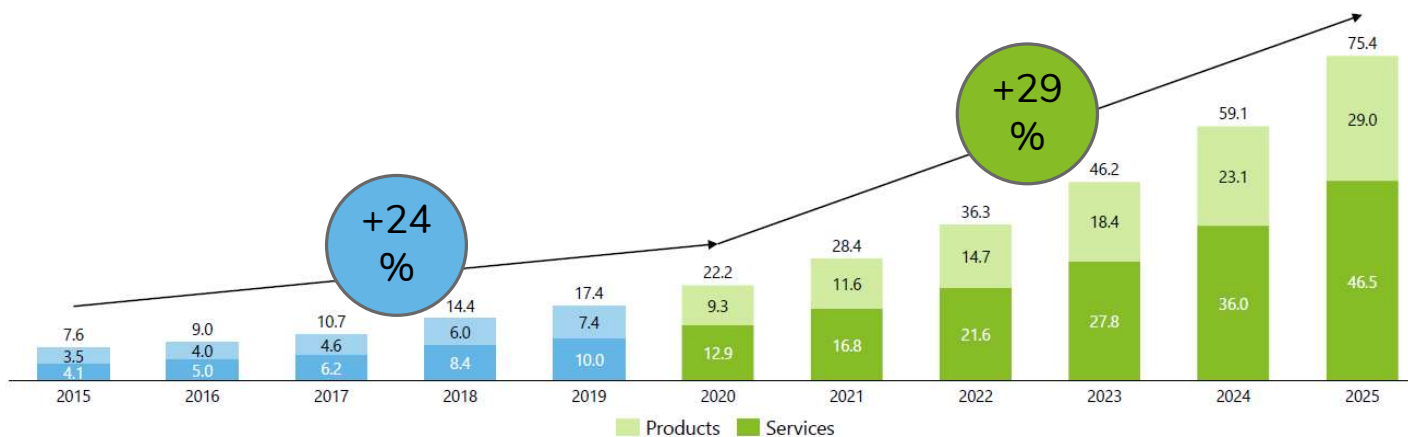
TRANSITIONING TO COMMERCIALIZATION

# RIGHT TECHNOLOGY, RIGHT TIME

ADDITIVE MANUFACTURING | MARKET GROWTH

Additive manufacturing estimated global market size (between 2015–2025, in \$bn)

Extract from Deloitte Strategic Review Report – December 2020



Evidenced strong growth with 24% CAGR in past 5 years

AM services (including engineering, design, services production facilities) expected to generate greatest growth over next 5 years of 29% CAGR.



## MARKET GROWTH

- ▶ Sustained growth supported by increasing AM adoption.
- ▶ AM is transforming OEM's business models & value propositions.
- ▶ More product design engineering to realise full advantage of AM – increased production, agility, productivity, supply chain consolidation and resilience, speed to market, and zero waste.

## RIGHT TIME, RIGHT TECHNOLOGY.

Produce metal parts at industrial scale



2-5 times faster than competitors



Reduced lead-times



Combine unique metals



Near net shape accuracy (less than 10% machining) without thermal stresses



Non-spherical powders to create more competitive priced products



Print high tensile steel parts



**TITOMIC KINETIC  
FUSION®**

Unlocking the  
benefits of Additive  
Manufacturing  
at Scale.

**Size.**

**Speed.**

**Agility.**

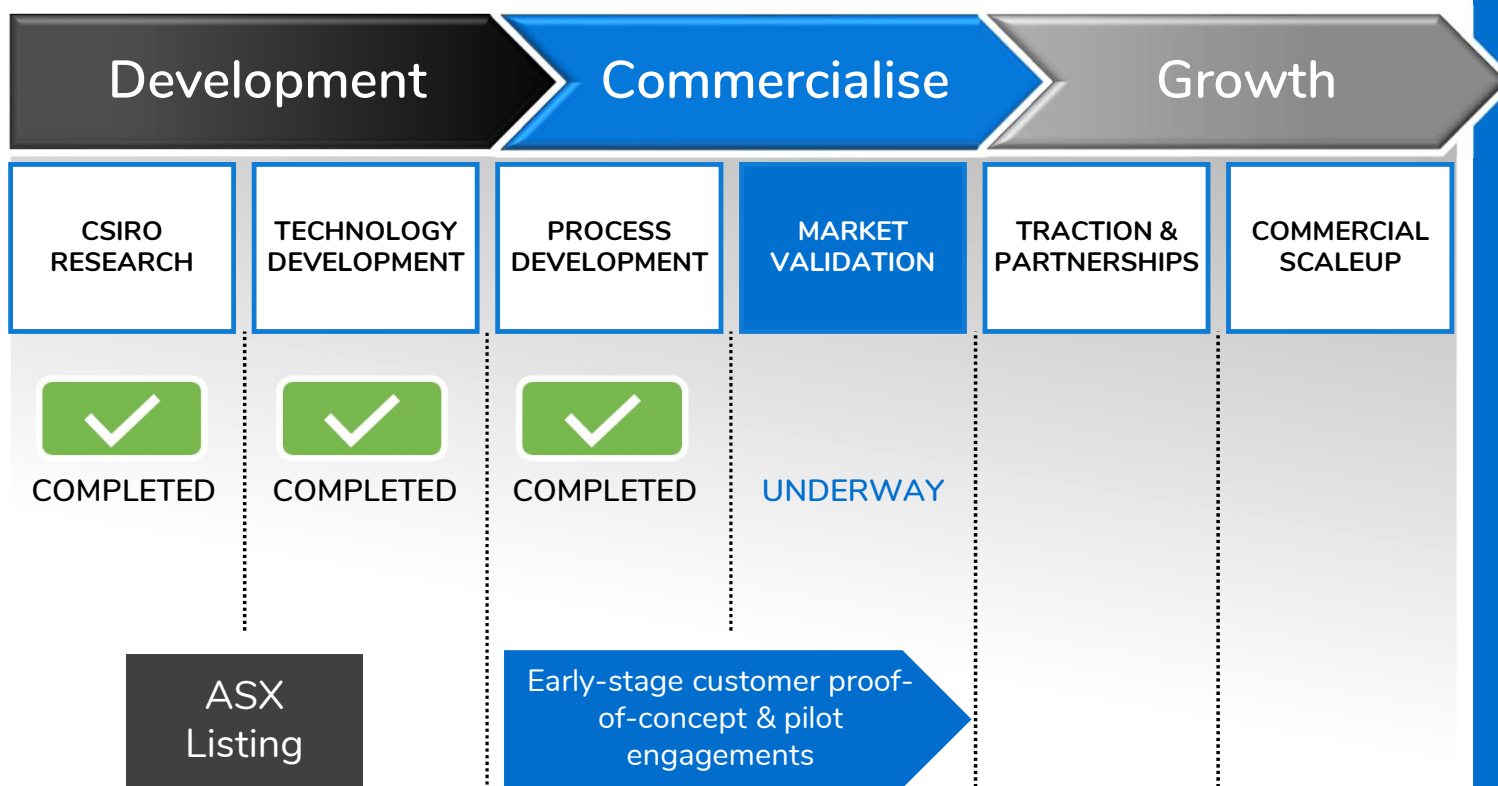
**Performance.**

**Productivity.**

## 2020: COMMERCIALISATION / MARKET VALIDATION



### COMMERCIALISATION 2020



- › Good market validation progress despite Covid-19.
- › Multiple pilot projects undertaken with early adopter customers.
- › Focus on Defence and Aerospace for the 1<sup>st</sup> step

## STRATEGIC REVIEW

An independent Strategic Review was conducted by Deloitte into Titomic's emerging strategic direction, status and trends in the additive manufacturing market and our commercialisation roadmap.

It was confirmed that Defence and Aerospace are the primary markets to focus on. Meaning the development of techniques to use high tensile steel in the TKF<sup>®</sup> process is the right direction.

It will be followed by Mining, Rail and Automotive at a second step.



- ▶ This independent technology assessment has proven the uniqueness of the TKF<sup>®</sup> technology and its competitive advantage.

# MARKET ADAPTATION

TARGETING NEW MATERIALS  
AND APPLICATIONS

## DEFENCE & AEROSPACE

Primary

### Defence

- › Ballistic- and Mine-Protection Structures
- › Primary armoured structural elements
- › Gun Barrels
- › Ammunition Casing
- › Special Coating

### Aerospace & Space

- › Tool molds
- › Aerospace structural parts
- › Turbine/Engine coatings
- › Special coatings

## MINING, TRANSPORT & ENERGY

Secondary



**Aerospace industry is a victim of Covid-19 travel restrictions!**



- › Titomic had to focus on developing new material applications.
- › Applications in high tensile steel for the Defence industry.
- › This cost a lot to time and effort in 2020, but was successful in the end.



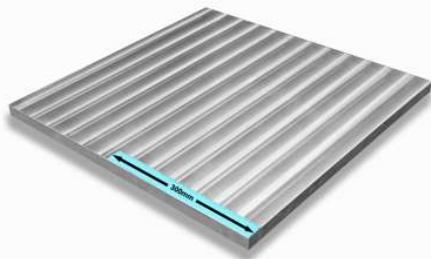
# PROVING INDUSTRIAL SCALE CAPABILITY

Focusing on commercialisation of the TKF® technology and manufacturing of full-scale prototypes for new defence prime customers and existing clients in other industry sectors.



Additive manufactured High Tensile Steel part for Defence project

**Size:** 450 mm D X 400 mm H X 50 mm WT.  
**Weight:** 131 Kg



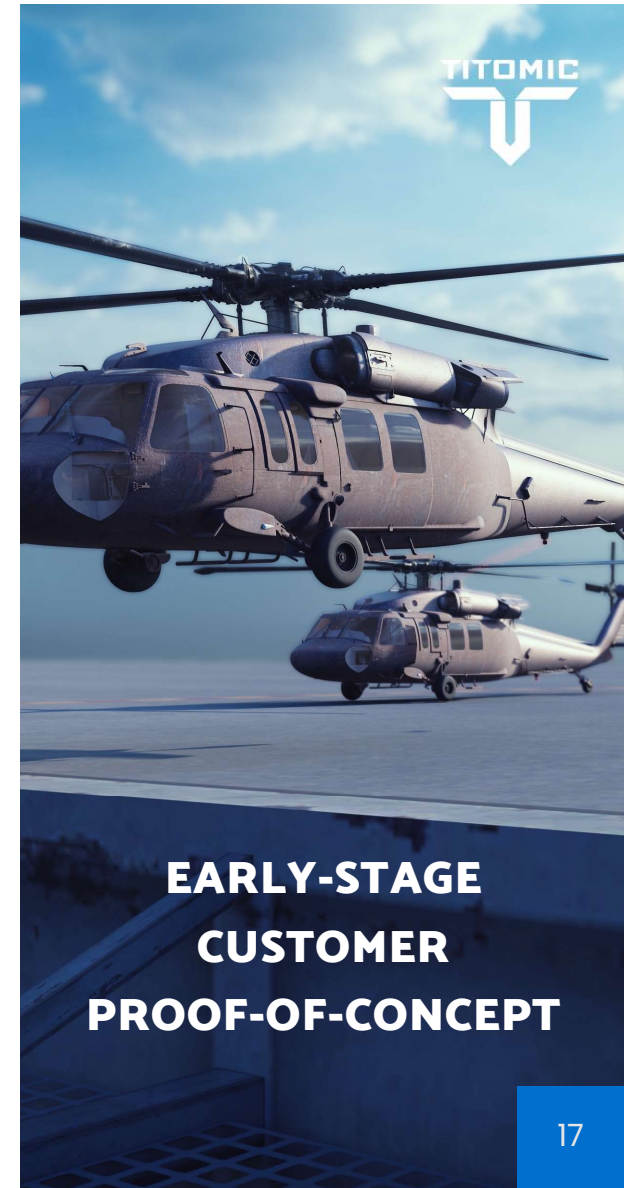
Additive manufactured Titanium Grade 2 part for Defence project

**Size:** 600 mm D X 600 mm L X 50 mm WT.  
**Weight:** 82 Kg



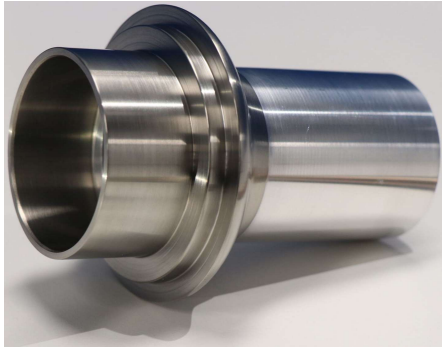
Additive manufactured Invar tool for Aerospace project

**Size:** 800 mm L X 500 mm W X 450 mm H.  
**Weight:** 83 Kg



**EARLY-STAGE  
CUSTOMER  
PROOF-OF-CONCEPT**

# PRODUCT HIGHLIGHTS



**Pipe and Flange**  
Titanium flange on  
Titanium pipe



**Rifle Barrel**  
Titanium on Copper on  
rifle barrel mandrill



Titanium on Ultem1010  
transparent polyetherimide  
(PEI) plastic



Titanium on Aluminum on  
Copper on Aluminum  
tube



Copper on Aluminum  
tube



TKF1000 SYSTEM (Gen2)



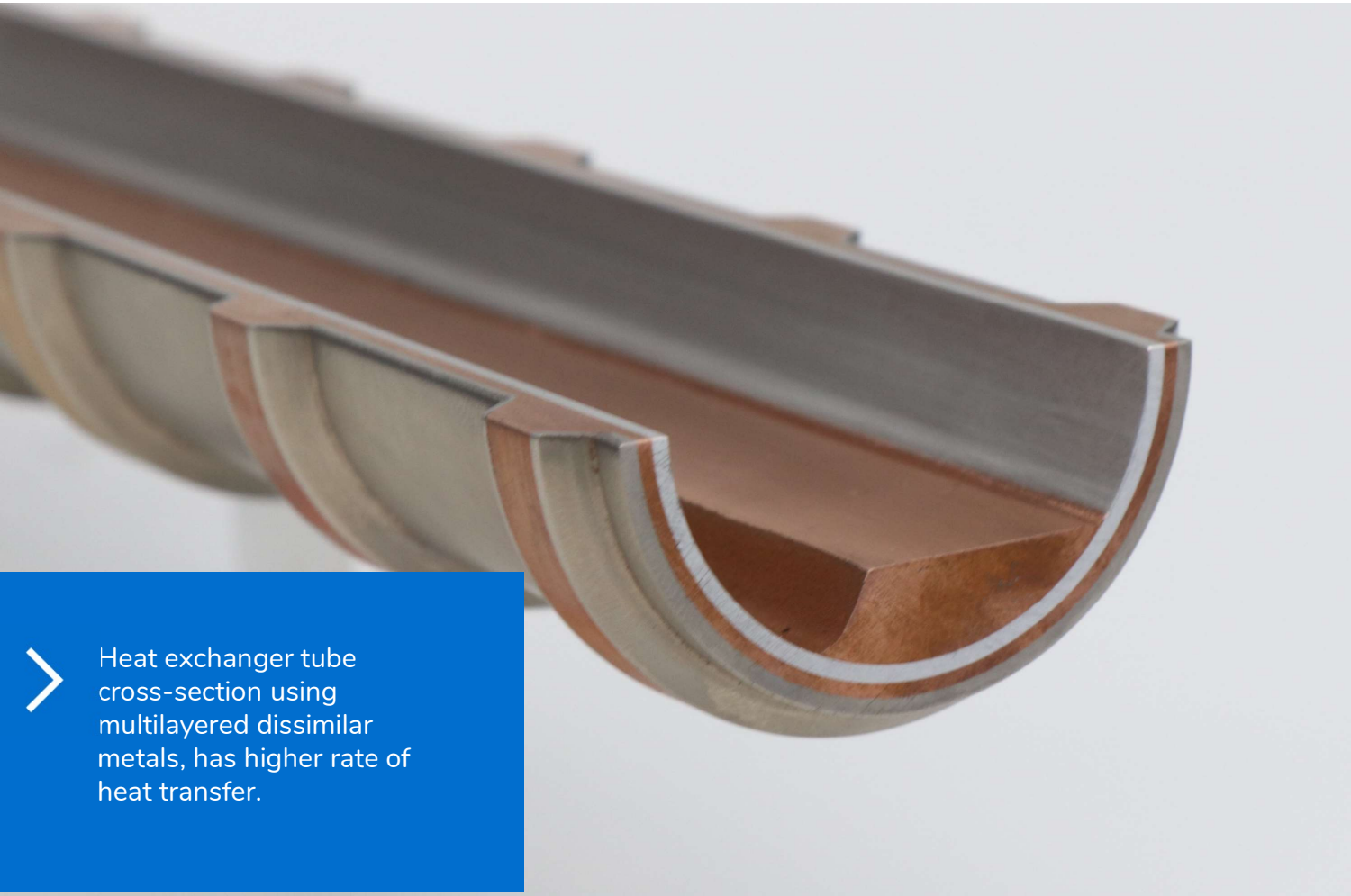
## We print your requirement

- › Products in all shapes and sizes
- › Material combinations previously unheard of
- › Now possible with TKF®



# UNIQUE, DEPLOYABLE INTELLECTUAL PROPERTY

NEW PATENTS



## PATENTS APPLIED FOR:

- ▶ Heat Exchanger (pictured)
- ▶ Metalisation of composite materials
- ▶ Gradient materials

**PROTECTING  
OUR  
COMPETITIVE  
POSITION**



Heat exchanger tube cross-section using multilayered dissimilar metals, has higher rate of heat transfer.

# ENHANCED EXECUTION CAPABILITY

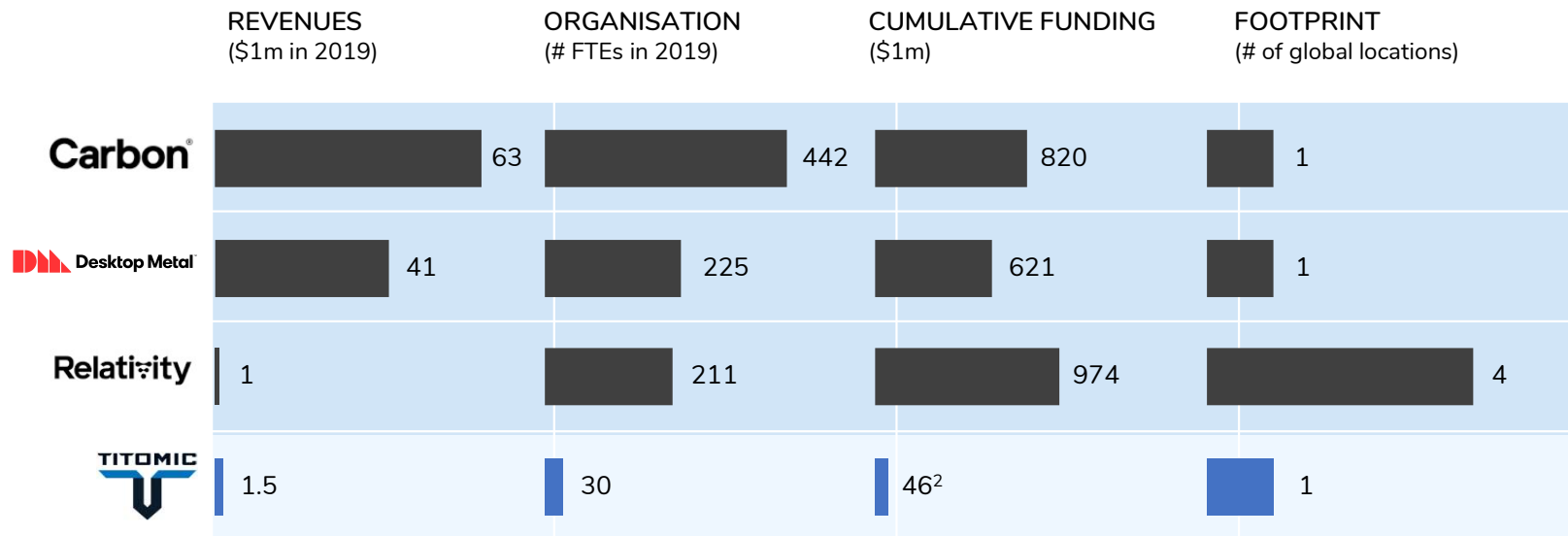
## STANDARDS AND CERTIFICATION

Improving the quality, efficiency and security of our operations, will underpin success with demanding customers in key target markets.

- › [ISO9001](#) Quality Assurance. (Certified)
- › [ISO27001](#) Information Security and Cyber. (Certified)
- › [AS9100D](#) for Aerospace and Defence Quality Manufacturing. (In process)



# INDUSTRY COMPARISON

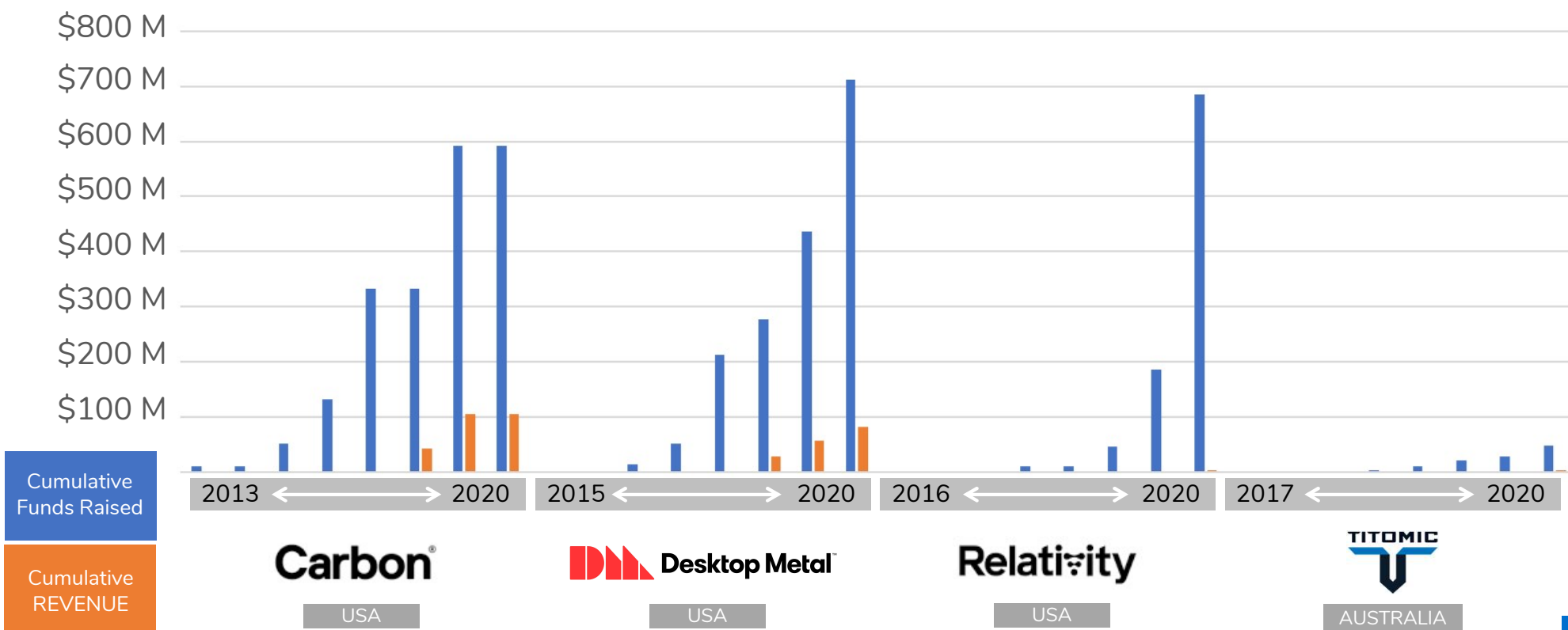


# FUND RAISING COMPARING THE JOURNEYS



Compared to Additive Manufacturing peers, Titomic has punched well above its weight in terms of company building achievements for the amount of cumulative funding.

We are focused on accelerating the commercialisation pace and leverage our first mover advantage.



**TITOMIC**



**NEXT STEPS**

# COMMERCIAL ROADMAP



	HORIZON 1 COMMERCIALISE FOUNDATIONS	HORIZON 2 BUILD ADJACENT BUSINESSES	HORIZON 3 CREATE A VIABLE FUTURE
<b>Applications</b>	3-5 priority applications at relative scale	<ul style="list-style-type: none"> <li>› Industrial scaling, priority applications</li> <li>› Identify 3-5 adjacent opportunities</li> </ul>	<ul style="list-style-type: none"> <li>› Industrial scaling, 8-10 applications</li> <li>› Identify 3-5 adjacent opportunities</li> </ul>
<b>Industries</b>	DEFENCE & AEROSPACE	<p>Primary DEFENCE &amp; AEROSPACE</p> <p>Secondary MINING, TRANSPORT &amp; ENERGY (Reactive)</p>	<ul style="list-style-type: none"> <li>› Deepen engagement with DEFENCE &amp; AEROSPACE and secondary markets</li> <li>› Opportunistically in other markets</li> </ul>
<b>Value Chain &amp; Business Model</b>	<ul style="list-style-type: none"> <li>› JV Opportunities for Production at Customer location</li> <li>› TKF machines at Research Institutes</li> <li>› Establish digital architecture</li> </ul>	<ul style="list-style-type: none"> <li>› Establish Production Facilities in JVs and Cooperation's for Priority applications</li> <li>› Expand TKF® solution sales</li> <li>› Secure local raw material supply</li> <li>› Customise digital architecture</li> </ul>	<ul style="list-style-type: none"> <li>› Establish additional production facilities to meet additional demand</li> <li>› Sell TKF® machines as stand alones</li> <li>› Secure long-term supply of metal powder</li> <li>› Explore open-loop digital platform</li> </ul>
<b>Target Regions</b>	Establish Production capabilities	Expand footprint in secondary regions	Scale geographic presence in target markets



# INVESTMENT SUMMARY



## Right Place, Right Time

- › Sustainable growth opportunities supported by increased AM adoption
- › More products designed to take full advantage of AM benefits

## Right Time, Right Technology

- › Production of metal parts at industrial scale
- › Adaptation of the system to use high tensile steel powders for TKF<sup>®</sup> system

## Looking Forward

- › New management to drive commercialisation
- › Targeting new high value markets in Defence and Aerospace
- › Early-stage customer proof-of-concept engagements
- › Retain and leverage first mover advantage
- › Accelerate Roadmap to Full Commercialisation

### **Titomic Investor Day**

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› *Join us on*  
Friday 26<sup>th</sup>  
February 2021

\* Time and access  
details to be advised

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## Contact Us



[info@titomic.com](mailto:info@titomic.com)



[www.titomic.com](http://www.titomic.com)



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## **2020 ANNUAL FINANCIAL REPORT**

To receive and consider the Company's financial report and the reports of the Directors and the Auditor for the financial year ended 30 June 2020.



## **RESOLUTION 1.**

### **Adoption of 2020 Remuneration Report**

That the Company adopt the Remuneration Report for the year ended 30 June 2020 in accordance with 250R(2) of the Corporations Act.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
30 million	90.25 %	9.75 %

## **RESOLUTION 2.**

### **Election of Non-Executive Director – Mr Andreas Schwer**

That, for the purposes of ASX Listing Rule 14.4, clause 19 of the Constitution and for all other purposes, Dr Andreas Schwer, being eligible, be elected as a Non-Executive Director of the Company.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.5 million	99.63 %	0.37 %

## **RESOLUTION 3.**

### **Election of Non-Executive Director – Mr Dag WR Stromme**

That, for the purposes of ASX Listing Rule 14.4, clause 19 of the Constitution and for all other purposes, Mr Dag WR Stromme, being eligible, be elected as a Non-Executive Director of the Company.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.5 million	99.56 %	0.44 %

## **RESOLUTION 4.**

### **Election of Non-Executive Director – Mr Humphrey Nolan**

That, for the purposes of ASX Listing Rule 14.4, clause 19 of the Constitution and for all other purposes, Mr Humphrey Nolan, being eligible, be elected as a Non-Executive Director of the Company.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.5 million	99.60 %	0.40 %



## **RESOLUTION 5.**

### **Ratification of Prior Issue of Shares to Investors**

That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, Shareholders approve and ratify the issue of 23,750,000 Shares to investors on 10 March 2020.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.4 million	99.56 %	0.44 %

## **RESOLUTION 6.**

### **Ratification of Prior Issue of Options to Evans & Partners**

That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, Shareholders approve and ratify the issue of 500,000 options to Evans & Partners on such terms and conditions more particularly described in the Explanatory Memorandum accompanying this Notice.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.4 million	99.21 %	0.79 %

## **RESOLUTION 7.**

### **Ratification of Prior Issue of Options to Composite Technology**

That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, shareholders approve and ratify the issue of 7,500,000 Options to Composite Technology and, on such terms and conditions more particularly described in the Explanatory Memorandum accompanying this Notice.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.4 million	98.69 %	1.31 %

## **RESOLUTION 8.**

### **Approval of issue of options to Evans & Partners**

That, for the purposes of ASX Listing Rule 7.1 and for all other purposes, Shareholders approve the issue of 500,000 options to Evans & Partners, on such terms and conditions more particularly described in the Explanatory Memorandum accompanying this Notice.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.2 million	99.17 %	0.83 %

## **RESOLUTION 9.**

### **Approval of issue of options to Composite Technology**

That, for the purposes of ASX Listing Rule 7.1 and for all other purposes, Shareholders approve and ratify the issue of 7,500,000 options, on such terms and conditions more particularly described in the Explanatory Memorandum accompanying this Notice.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.2 million	98.79 %	1.21 %

## **RESOLUTION 10.**

### **Approval of issue of Performance Share Rights**

That, for the purposes of ASX Listing Rule 10.14, Chapter 2E and sections 200B and 200E of the Corporations Act and for all other purposes approval is given for the granting of 6,050,000 Performance Share Rights to the directors of the Company, as set out in the Explanatory Memorandum.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
29.8 million	97.32 %	2.68 %

## **RESOLUTION 11.**

### **Approval of Additional Capacity to Issue Shares under ASX Listing Rule 7.1A**

That, pursuant to and in accordance with ASX Listing Rule 7.1A and for all other purposes, Shareholders approve an additional capacity of the Company to issue equity securities of up to 10% of the issued capital of the Company (at the time of the issue) calculated in accordance with the formula prescribed in ASX Listing Rule 7.1A.2 and on the terms and conditions in the Explanatory Statement.

The Proxy Results are as follows:

TOTAL VALID PROXIES RECEIVED	FOR	AGAINST
60.4 million	97.93 %	2.07 %

**THANK YOU!**



**Titomic Investor Day**

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*Join us on*  
Friday 26<sup>th</sup>  
February 2021

\* Time and access  
details to be advised