



**TRITON**  
MINERALS

**An Industrial Minerals Company**

**Corporate Presentation (ASX:TON)**

# Disclaimer & Competent Person's Statement

## Competent Person's Statement

The information in this report that relates to the Mineral Resource estimate at Nicanda Hill is based on, and fairly represents, information which has been compiled by Mr James Ridley. Mr Ridley is a Principal Geologist at Jorvik Resources Pty Ltd, who is an independent consultant to Triton Minerals Ltd (**Triton** or the **Company**) and a Member of the Australasian Institute of Mining and Metallurgy. Mr Ridley has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Ridley consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

The information in this presentation that relates to Exploration Results on Balama North project is extracted from the reports entitled ASX Release "Mozambique Graphite Concentrate Market Research" dated 20 March 2015, ASX Release "TMG is Expandable" dated 20 March 2015, ASX Release "Triton Forms Strategic Alliance with AMG Mining" dated 31 March 2015, ASX Release "Triton Secures Two Billion Dollar (USD) 20 Year Binding Off-Take Contract", dated 1 April 2015, ASX Release "Mozambique Projects Update", dated 13 July 2015, ASX Release "Mozambique and Chinese Projects Update", dated 14 August 2015, ASX Release "Battery Grade Spherical Graphite Produced", dated 20 August 2015, ASX Release "Jumbo Flake Graphite at Nicanda Hill" dated 28 August 2015, ASX Release "TMG Produces Graphene", dated 11 September 2015, ASX Release "Triton Mozambique Development Strategy" dated 14 September 2015, ASX Release "Successful Commercial Manufacture of Enhanced Graphite Products using TMG Concentrate", dated 7 October 2015, ASX release "Substantial Graphitic Mineralisation Confirmed at Ancuabe" dated 18 September 2015, ASX Release "Positive Metallurgical Results For P66 (Nicanda Hill) and Ancuabe", dated 14 October 2015, ASX Release "Nicanda Hill Resource Upgraded" dated 30 October 2015, and ASX Release "Nicanda West (P66) – Positive Results" dated 13 November 2015 is available to view on [www.tritonminerals.com](http://www.tritonminerals.com) The reports were issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Exploration Results on Ancuabe project is extracted from the reports entitled ASX Release "High Grade Large Flake Graphite Identified at Ancuabe Project" dated 31 October 2013, ASX Release "Mozambique Projects Update", dated 4 February 2015 and 26 February 2015, ASX Release "Mozambique Projects Update", dated 2 April 2015, ASX Release "Extraordinary Metallurgical Results - Ancuabe Project", dated 29 April 2015, ASX Release "Substantial Graphitic Mineralisation confirmed at Ancuabe", dated 18 September 2015, and ASX Release dated "Ancuabe T12 – Positive Exploration Drilling Results Continue" dated 20 November 2015 is available to view on [www.tritonminerals.com](http://www.tritonminerals.com) The reports were issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

## Forward-Looking Statements

This document may include forward-looking statements. Forward-looking statements include, but are not necessarily limited to, statements concerning Triton's planned exploration program and other statements that are not historic facts. When used in this document, the words such as "could", "plan", "estimate", "expect", "intend", "may", "potential", "should" and similar expressions are forward-looking statements. Although Triton believes that its expectations reflected in these are reasonable, such statements involve risks and uncertainties, and no assurance can be given that actual results will be consistent with these forward-looking statements.



# Triton's Vision 2020



## Our Business

Triton is well positioned with world class assets

## Our Organisation

Triton will support our global community to achieve advanced industrial and green energy solutions

## Our People

Our team is highly motivated and experienced in the delivery of minerals to global markets

## Vision 2020

Triton's vision to 2020 is to harness the increasing demand from the industrial and domestic markets for minerals used in advanced technological applications and renewable energy storage.

Triton seeks to position itself as a world class supplier of industrial minerals in the energy storage industry and also move downstream into end user industrial products.

## Values and Goals

We are a responsible corporate organisation who aims to have a positive, safe and sustainable impact on all our stakeholders and communities in which we operate.

In building shareholder wealth, Triton's goal is to add value to our projects and to produce a high quality product for the global markets.

## Capability

Our people have many decades of international business experience in the mining sector and have a long association with Africa.

Our people are well qualified in their areas of expertise and bring a high standard of excellence and commitment to the Company.

# Company Highlights

- Triton has the **World's Largest High Grade Graphite Flake Deposit** at Balama North in Mozambique.
- **New highly credential and experienced Board and Management team** to take the Company forward.
- **Rapid development** of Balama North and Ancuabe flagship projects.
- The Balama North and Ancuabe Projects are **close to major enabling infrastructure**.
- **Strong strategic alliance** in Mozambique with major German graphite manufacturer, AMG Graphit Kropfmühl (GK).
- The Management team have **strong networks in Africa, Australia, Europe, North America and China**.
- Triton has a **20 year binding offtake agreement** with a well established Chinese graphite product manufacturer.



# Corporate Snapshot

- Triton is an **Australian domiciled company** and is listed on the Australian Stock Exchange – (ASX:TON).
- Projects are located in the **investor friendly** African country of Mozambique.
- **Vending into 8 significantly sized licenses** in Northern Mozambique near the port city of Pemba – currently earning a 90% interest.
- 8 exploration **licenses which are in good standing**.
- The region is **highly prospective** for high quality jumbo flake graphite.
- **Two major project areas**, Balama North and Ancuabe being developed.
- Currently completing a **Definitive Feasibility Study (DFS)** on Balama North Project.



# Corporate Snapshot

Share Price 28 January 2016:	A\$0.09
Shares on Issue (ASX:TON):	421m
Options and performance rights:	66m
<b>Market capitalisation (undiluted):</b>	<b>A\$37m</b>
Cash (28 January 2016):	A\$4m
Debt:	Nil

Share Price Performance – Past 12 Months



## Board – Successful record in developing mines

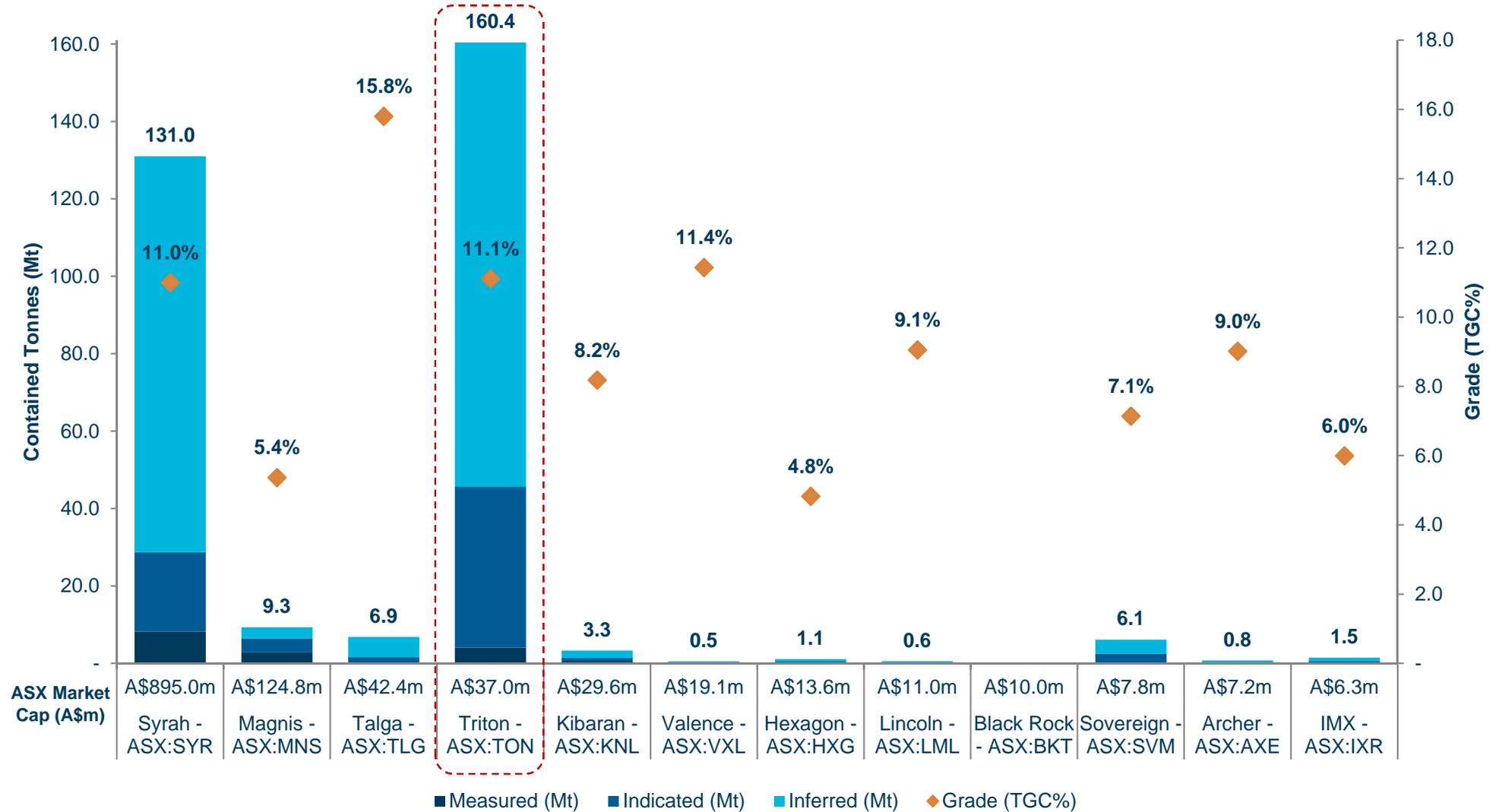
<b>Christopher Catlow</b>	<i>Non Executive Chairman (Resource Finance Executive)</i>
<b>Garth Higgo</b>	<i>Managing Director and CEO (Engineer and Project Development)</i>
<b>Rodney Baxter</b>	<i>Non Executive Director (Engineer and Resource Executive)</i>
<b>Alfred Gillman</b>	<i>Executive Technical Director (Geologist)</i>
<b>Alan Jenks</b>	<i>Non Executive Director (Investment Management)</i>
<b>Paula Ferreira</b>	<i>Non Executive Director (Finance)</i>

## Senior Management

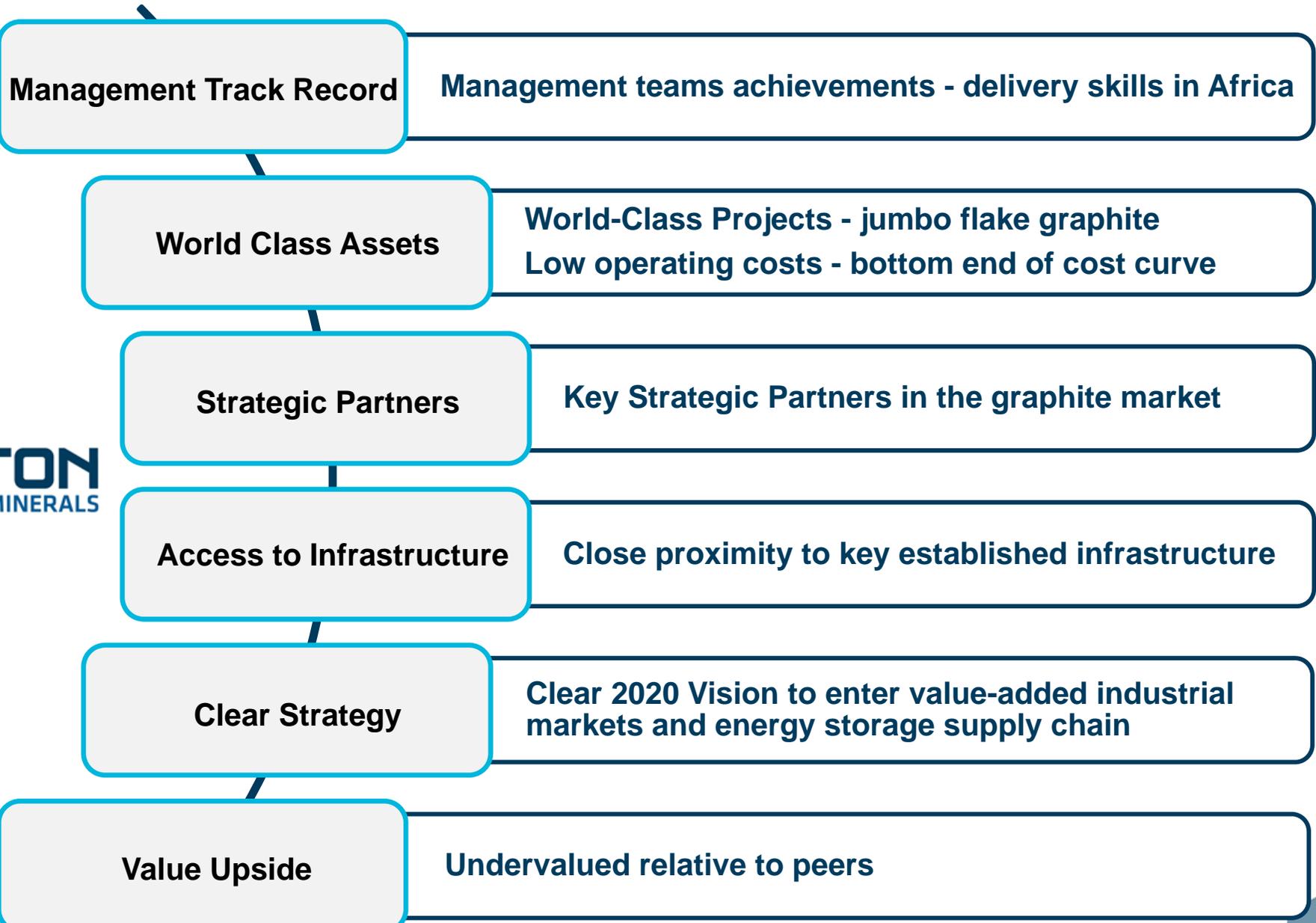
<b>Patrick Ellis</b>	<i>Chief Operating Officer</i>
<b>Richard Jarvis</b>	<i>Chief Financial Officer</i>
<b>Paige Exley</b>	<i>Company Secretary</i>
<b>Gidião Mbanze</b>	<i>Project Manager - Mozambique</i>

# ASX Graphite Peers - Triton Has Significant World Class Assets

ASX Listed Graphite Companies – Mineral Resources



# Key Differentiators – Why are we Different



# Our Strategic Partners – AMG Graphit Kropfmühl

- GK is a majority owned, publicly listed subsidiary of AMG. Based on its secure raw material sources in Africa, Asia and Europe, GK is a specialist in the extraction, processing and refining of natural crystalline graphite for a wide range of energy and industrial applications.
- GK is developing additional graphite deposits to increase its own raw material supply, including ongoing exploration in Mozambique.
- GK provides high purity natural graphite to the global market. Utilising its 140 years of experience, GK is developing additional applications for high purity natural graphite including energy saving insulation materials and batteries for the electric car industry.
- Triton has a binding strategic alliance with GK to explore, identify and develop graphite occurrences of the Ancyabe region, Mozambique.



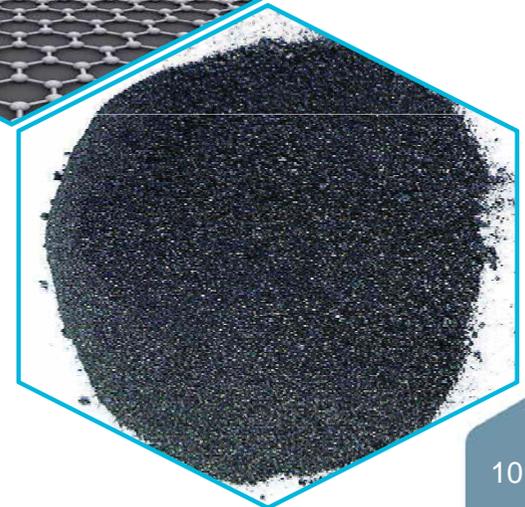
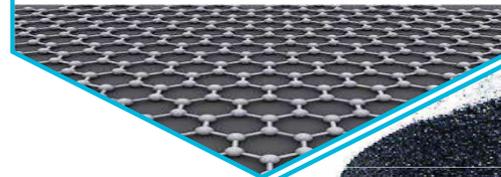
# What is Graphite?

- Graphite is a soft, crystalline form of elemental carbon. Graphite is a grey to black, opaque mineral with a metallic lustre.
- Graphite occurs naturally in metamorphic rocks such as marble, schist, gneiss and phyllite. It is usually found as veins, lenses, pockets and as thin laminae disseminated in metamorphic rocks.
- Depending on the mode of occurrence and origin, graphite is graded into three forms: flake, crystalline (lumpy) and cryptocrystalline (amorphous).
- Graphite exhibits both metallic and non-metallic properties making it suitable for many industrial applications.
- Natural graphite is in demand, for a number of conventional applications including refractories, lubricants, crucibles, coatings, gaskets, consumer electronics, pencils and advanced polymer systems. Furthermore there are emerging applications and green initiatives in graphene, nuclear energy, fuel cell and Lithium Ion battery (**LIB**) technologies.



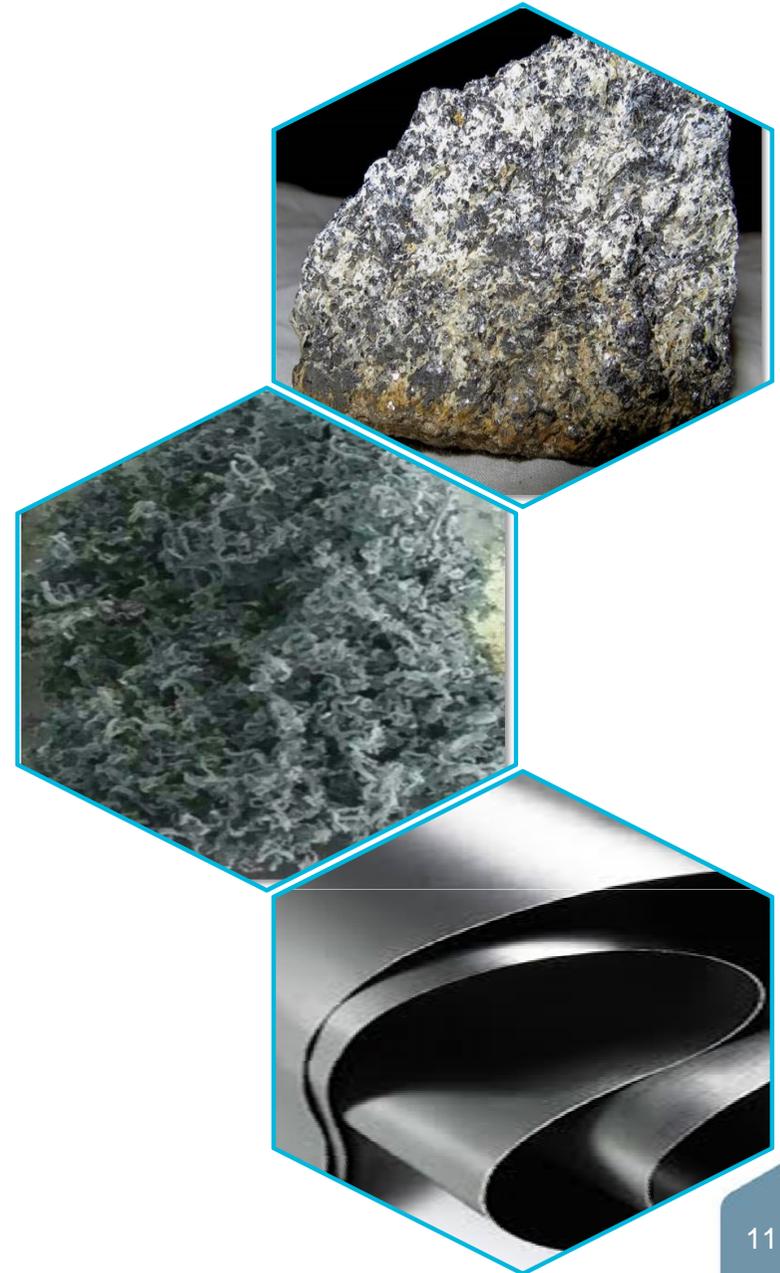
Structure of graphene

Graphene is an atomic-scale honeycomb lattice made of carbon atoms. Graphene is the basic structural element of graphite, carbon nanotubes and fullerenes. In short 'Graphene' is the super thin super strong, transparent, conductive and self-repairing material is poised to revolutionize the future by not only by super-charging batteries but also by giving flexible semiconductors and much more



# Expandable Graphite

- If the graphite possesses the required physical properties, the graphite is normally expanded by immersing the natural flake graphite concentrate, usually at a grade of 95% to 99% Total Graphitic Carbon (**TGC**), in a bath of chromic acid, then concentrated sulfuric acid, which forces apart the crystal lattice planes, thus expanding or increasing the flake graphite surface area from 500 to 1,000 times in size.
- The expanded graphite is processed to produce flexible graphite sheets and foils which are subsequently used for manufacturing high-performance gasket material for high-temperature use, packaging and other sealing materials in critical applications of high pressure environments.
- Expanded graphite is an extremely valuable and highly sought after material and is a critical component in the battery market.



# Demand for Graphite from Lithium Ion Batteries (LIB)

- Graphite is one of the primary components of LIB and there is substantially more graphite than lithium in the battery.
- Demand for LIB is growing rapidly, due to LIB being more powerful, smaller and lighter than traditional batteries.
- Annual growth is estimated at 20%+ and total graphite demand 100,000tpa which is already 20% of the flake market.
- The demand for LIB has grown significantly due to properties which make them a superior alternative for use in electric vehicles.



# Graphite to Deliver into Global Technology Growth

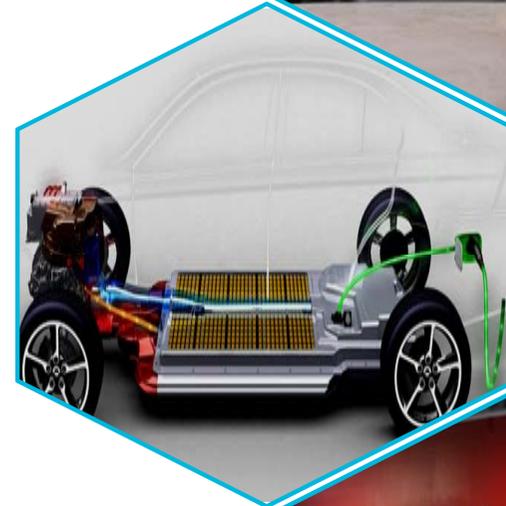
- **Graphite innovation** driven by new technological applications.
- **Strong growth forecast in graphite products** in industrial and domestic uses (expandable, battery, and graphene).
- **Supply challenges** as demand for environmentally friendly graphite grows.
- Demand from battery energy storage sector **set to grow at 20-30%** for a significant period.
- **Significant growing markets** for energy storage and input minerals such as graphite and lithium.
- Graphite required for all LIB – **no current substitute.**
- Significant future **demand for high grade jumbo flake graphite.**
- **Demand for home and grid energy management systems** and **growth in electric vehicles** set to boost demand for graphite and lithium.



# Battery Storage - Electric Vehicles

- Tesla Motors recently announced plans to build a "gigafactory" for the production of 35 GWh of battery capacity.
- This capacity will be enough to service the needs of 500,000 Tesla electric vehicles per year by the end of this decade.
- Tesla expects to reduce the kilowatt hour (kWh) cost of their battery pack by more than 30%.
- With the significant increase in production by the Tesla gigafactory, there will be an expected substantial increase in the demand for graphite.

Source: [https://www.teslamotors.com/en\\_AU/gigafactory](https://www.teslamotors.com/en_AU/gigafactory)



# Our Mozambique Graphite Projects

## Balama North

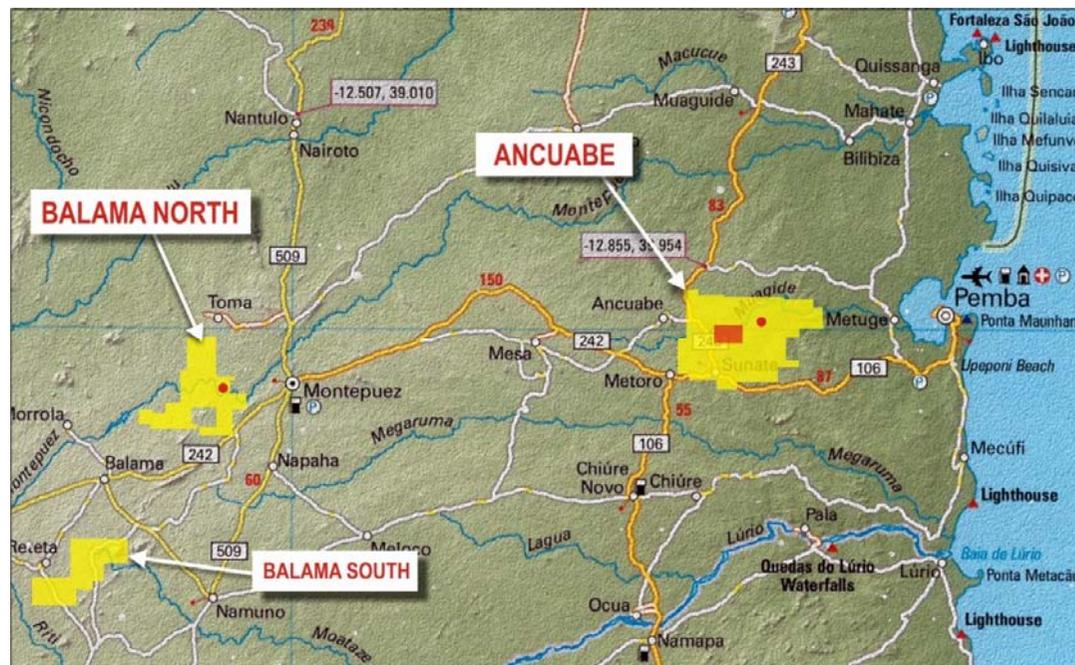
- Balama North is a globally significant resource -1.44Bt at 11.1%TGC
- Progressing expanded DFS to incorporate Nicanda West jumbo flake deposit - due for completion in mid-2016
- 20 year offtake agreement with a Chinese graphite manufacturer

## Ancuabe

- Formal strategic alliance with GK
- Ancuabe initial Mineral Resource estimate expected in Q1, 2016
- Ancuabe early stage feasibility work commenced

## Balama South

- Highly prospective for graphite mineralisation



# Mozambique Graphite Projects – Integrated Operations

Source	Flake Size	Micron	Mesh	Market	Triton Testwork	Commercial Appeal	Key Application
Ancuabe	Super Jumbo	>500	+35	Expandable graphite	world leading performance confirmed	high margin products	foils, insulation, fire retardant
Ancuabe, Balama North	Jumbo	300-500	+50	Expandable graphite	world leading performance confirmed	high margin products	foils, insulation, fire retardant
Ancuabe, Balama North	Large	180-300	+80	Expandable graphite	world leading performance confirmed	high margin products	foils, insulation, fire retardant
Balama North	Medium	150-180	+100	Battery grade spherical graphite	spheroidisation suitability confirmed through jet milling	large volume, unequivocal strong growth profile	lithium ion battery
Balama North	Fine	75-150	+200	Battery grade spherical graphite	spheroidisation suitability confirmed through jet milling	large volume, unequivocal strong growth profile	lithium ion battery
Balama North	Fine	75-150	+200	Graphene - future technologies	graphene oxide produced	very high margin – paradigm shift in world economy	under research

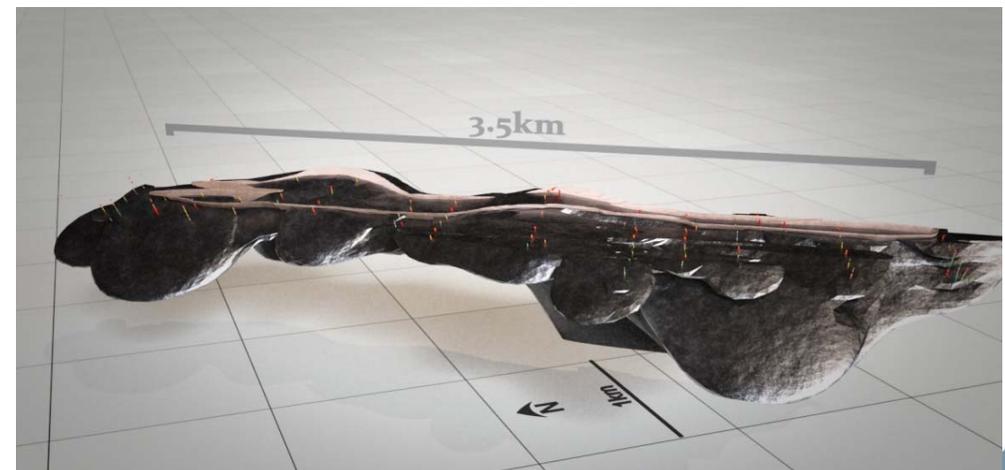
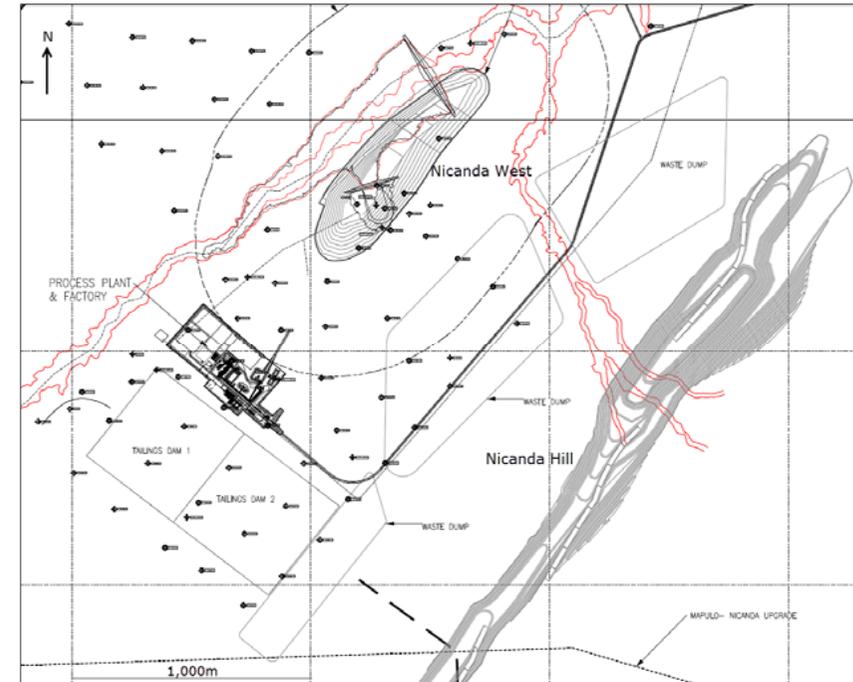
# Balama North - Overview

- Balama North is located 230km by road west of the port of Pemba, in northern Mozambique.
- DFS, which is due for completion in mid-2016, is focussed on scalable and staged production ranging from initial 50,000tpa to 200,000tpa at full steady-state operation
- Balama North is a globally significant resource
  - 1.44Bt at 11.1%TGC
- Strip ratio ~1:1 over scoping study LOM
- Initial mining grades of ~14%TGC anticipated



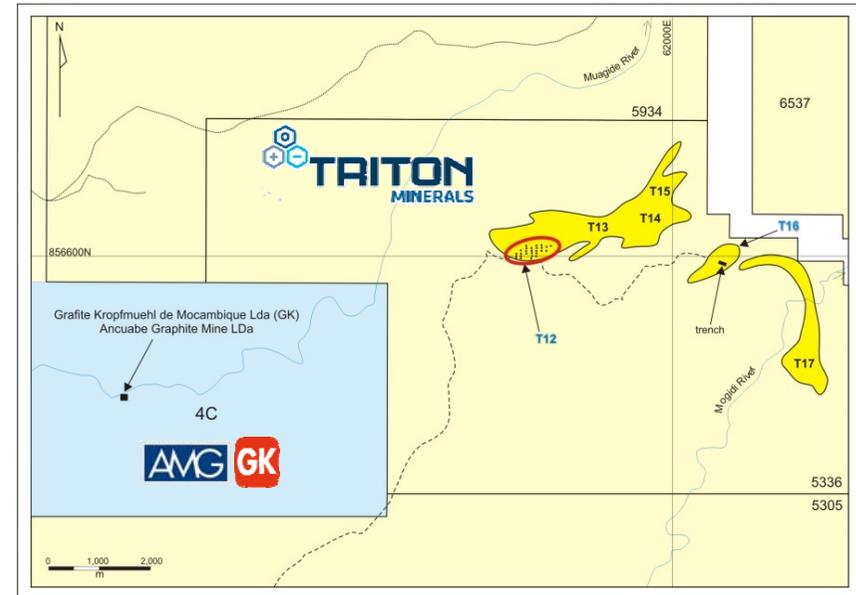
# Balama North Project – DFS Progress

- Expanded DFS to incorporate Nicanda West jumbo flake deposit
- Engineering/Design (ongoing)
  - Flotation test work (SGS)
  - Flowsheet
  - Design
  - Enquiry documents (OPEX/CAPEX)
- Hydrology/Geotechnical/Tailings (ongoing)
  - Tailings Storage Facility (**TSF**)
  - Hydrology
  - Plant site geotech
  - Open pit geotech
- Environmental and Social Impact Study
  - Wet/Dry Season studies complete
  - Community engagement complete
  - Final Environmental Pre Viability Report and Scope Definition (**EPDA**) submitted
  - DUAT process well advanced



# Ancuabe Project - Overview

- Ancuabe project is located approximately **90km by road west of Pemba**, in northern Mozambique.
- Licences surround the historic Ancuabe graphite mine, which is currently held by GK.
  - Triton has a formal strategic alliance with GK to explore, identify and develop the graphite occurrences of the Ancuabe region.
  - GK has a graphite production plant, mining and production infrastructure located within the greater area of Triton's exploration licenses.
- **Initial exploratory drilling program completed.**
- Significant graphite mineralisation confirmed by drilling from surface to vertical depths of 105m.
- Mineralisation dominated by super jumbo flake graphite.
- Only 700m on the western margins of a 4km long target has been drill tested.



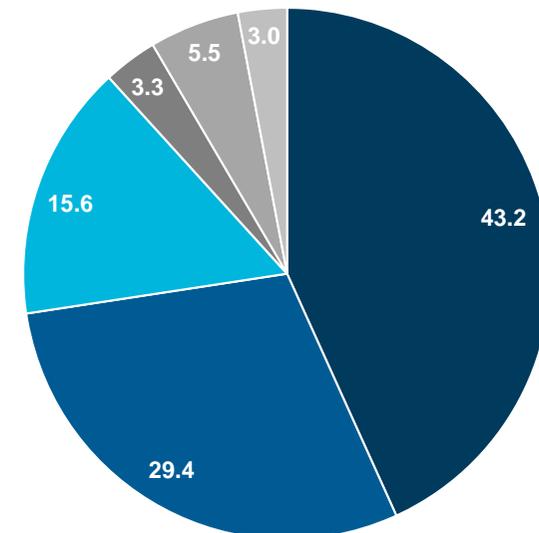
# Ancuabe Project – Metallurgical Properties

- Mineralisation dominated by super jumbo flake graphite (>500µm)
- 43% of the graphite flakes recovered greater than >500µm
- 73% of the graphite flakes recovered greater than >300µm
- 90% of the graphite flakes recovered greater than >150µm
- Purity from flotation alone of up to 98.2%TGC
- Metallurgical recoveries >90%



	Flake Size		Ancuabe Standard	Ancuabe Battery-spec
	Mesh	Micron	Mass %	Mass %
Super Jumbo	35	>500	43.2	42.6
Jumbo	-35 to +48	300-500	29.4	30.3
Large	-48 to +80	180-300	15.6	13.8
Medium	-80 to +100	150-180	3.3	2.5
	<b>Total</b>	<b>&gt;150</b>	<b>91.5</b>	<b>89.2</b>
Fine	-100 to +200	75-150	5.5	8.2
Very Fine	-200	<75	3.0	2.6
	<b>Total</b>	<b>&lt;150</b>	<b>8.5</b>	<b>10.8</b>
Recovery			95.8	92.0
Conc. Grade			<b>97.8</b>	<b>98.2</b>

Flake Size Distribution (%)



■ >500 ■ 300 - 500 ■ 180 - 300 ■ 150 - 180 ■ 75 - 150 ■ <75



# Project Status

Project	Deposit	Reconnaissance	Exploration	Resource	Scoping Study	DFS
Balama North	(Nicanda Hill)					Mid 2016
Balama North	(Nicanda West)				→	
Ancuabe	(T12)			Q1 2016		
Balama South						



# Infrastructure Considerations – A Key Consideration

## Cabo Delgado Province, Mozambique

- **Bitumen road** to Balama North mine gate.
- Ancuabe project located only 90km by road from an **operating deep water container port**.
- **110kV power line** adjacent to Ancuabe – Hydroelectricity delivers very competitive energy costs.
- **Abundant process water sources** on-site at Ancuabe from aquifer and stormwater management.
- Good **communications infrastructure**.
- Accommodation and housing for office and personnel.
- Deep water port at Pemba – further expansions planned for 2019/2020.



# Community Social Investment

Triton is committed to supporting its local communities in and around its project areas in Mozambique:

- Installation of clean Water Bores.
- Assistance with medical and school facilities.
- Approximately 150 local villagers employed.
- Utilises local service providers.
- Drilling/Logistics/Transportation/Supplies.
- Housing/Vehicle hire.
- Local Lawyers/Accountants/Customs Agents.
- Employment of Mozambique Geologists.
- Employment of Mozambique Field Hands/Labourers.



Typical Installed Water Bores

# Key Investment Thesis – Why Invest in Triton

## CORPORATE

- New Vision 2020 for growth into downstream industrial applications and energy storage markets
- Clear strategy to achieve increased shareholder value – TON currently undervalued
- New highly experienced Board and Management team

## QUALITY OF RESOURCES

- World's largest resource of high quality jumbo and super jumbo flake graphite
- At surface graphite ore body – very low strip ratio
- Easy to access topography – no major earthworks and related costs required

## LOCATION

- Close to major enabling infrastructure – clear path to mining and markets
- Project located in an investor friendly democratic country, Mozambique
- Adjacent to our strategic partner, GK, who are progressing to production in 2016

## MARKET DEMAND

- New markets opening for expandable graphite and energy storage technologies
- Industrial and domestic markets have increased demand for new graphite based products

# APPENDIX

# Balama North – Resource Statement

Classification	Tonnes	Grade	Contained Graphite	Grade	Contained V <sub>2</sub> O <sub>5</sub>
	(Mt)	(TGC%)	(Mt)	(V <sub>2</sub> O <sub>5</sub> %)	(Mt)
Measured	33	12.34	4.06	0.34	0.11
Indicated	375	11.08	41.51	0.29	1.10
Inferred	1,036	11.08	114.75	0.29	3.01
<b>Total</b>	<b>1,443</b>	<b>11.11</b>	<b>160.32</b>	<b>0.29</b>	<b>4.22</b>

**Table 1:** Balama North October 2015 Mineral Resource Estimate (reported using 5%TGC cut-off grade)

Cut Off	Measured			Indicated			Inferred		
	M Tonnes	TGC%	V <sub>2</sub> O <sub>5</sub> %	M Tonnes	TGC%	V <sub>2</sub> O <sub>5</sub> %	M Tonnes	TGC%	V <sub>2</sub> O <sub>5</sub> %
5	32.9	12.3	0.34	374.6	11.1	0.29	1,036	11.1	0.29
10	29.8	12.6	0.35	303.6	11.4	0.31	809	11.5	0.31
12.5	15.7	14.0	0.38	49.7	13.6	0.37	151	13.8	0.38
15	2.5	15.7	0.38	5.6	15.8	0.40	24	16.0	0.43

**Table 2:** Balama North deposit and detail of the graphite tonnage in the Measured, Indicated and Inferred classifications at various cut off grades (numbers rounded to significant figures)

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**Thank You**

**Triton Minerals Ltd**

**Garth Higgs**

**Managing Director & Chief Executive Officer**