



enabling future energy



The summary information contained herein has been provided by Magnis Resources ("Magnis Resources" or the "Company"). No representation, expressed or implied, or warranty as to the accuracy or completeness of the information contained herein is made by any party and nothing contained herein shall be relied upon as a promise or representation as to the future. In all cases, recipients should conduct their own investigation and analysis of Magnis Resources.

The information is neither an offer to sell nor a solicitation of an offer to buy any securities. The contents of this presentation are confidential and must not be copied, published, reproduced, distributed in whole or in part to others at any time by recipients. This presentation is being provided to recipients on the basis that they keep confidential any information contained herein or otherwise made available, whether oral or in writing, in connection with the Company.

All statements in this presentation, other than statements of historical facts, which address future production, reserve or resource potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward looking statements. Although the Company believes the expectations expressed in such statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in forward-looking statements.

Forward-looking statements involve and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company and/or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include, among others, general business, economic, competitive, political and social uncertainties; the actual results of current exploration activities and feasibility studies; assumptions in economic valuations which prove to be inaccurate; possible variations of ore grade recovery or rates; climatic conditions; political instability; insurrection or war; arbitrary decisions by governmental authorities; delays in obtaining governmental approvals or financing or in the completion of development or construction activities.

To the extent permitted by law, the Company accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Recipients should make their own enquiries in relation to any investment decisions.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended. Forward-looking information contained herein is current as at the date of this presentation and the Company disclaims any obligation to update any forward-looking information, whether as a result of new information, future events or results otherwise. There can be no assurance that forward-looking information or statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information or statements. Accordingly, readers should not place undue reliance on forward-looking statements.

Corporate Overview

Capital Structure	
ASX code	MNS
ASX share price (28 August 2017)	A\$0.48
52 week Low - High	A\$0.475 - 0.985
Shares on issue	549.7 million
Market Capitalisation	A\$264 million
Unlisted Options (various strike)	19.75 million
Average daily volume (100 days)	1.02 million
Cash	A\$7.0M
Debt	A\$0.0M

Analyst Coverage



Major Shareholders		
Shareholder	Shares (M)	Ownership
Mazzdel Pty Ltd	50.5	9.2%
Pershing Aust. Noms	26.2	4.8%
Citicorp Noms	21.3	3.9%





Board and Management

Frank Poullas

Non-Executive Chairman

Distinguished Professor M. Stanley Whittingham

Non-Executive Director

Dr Ulrich Helmut Bez

Non-Executive Director

Marc Voqts

Non-Executive Director

Peter Tsegas

Non-Executive Director

- Over 20 years in investment markets, technology and engineering sectors
- Partner in a successful IT firm.
- Involved in successful ventures within the mining industry
- Key figure in the invention of the Lithium-ion battery technology and nominated for the Nobel Science Prize.
- Has headed large projects for the US Department of Energy, Exxon and Schlumberger.
- Distinguished Professor of Chemistry at Binghamton University, part of State University of New York
- Over 40 years experience in the automotive industry, with role of Chairman and CEO for Aston Martin between 2000-2014
- Led the design and development of the Porsche 911 Turbo whilst at BMW created the Technik GmbH division
- Held director roles with companies such as Daewoo
- Lectured at leading institutions including Harvard, Columbia and Kings College
- Marc is a project executive with +40 years experience in major mining projects in South Africa, Madagascar, Australia, Canada, Chile, Indonesia, Papua New Guinea and USA. Previous roles include Project Director for the QMM Project in Madagascar for Rio Tinto, Vice President for Project Management for BHP Billiton and Vice President for all Uranium Projects including Olympic Dam for BHP Billiton
- Chief Executive Officer at the John Grill Centre for Project Leadership at the University of Sydney
- 15+ years experience in Tanzania engaging both private and public sectors on projects; Tanzanian resident
- Previous consulting roles to the Tanzanian government and to a number of mining companies including Rin Tinto



Board and Management continued

Peter Sarantzouklis

Non-Executive Director

Johann Jacobs

Non-Executive Director

Dr Frank Houllis

Chief Executive Officer

Shailesh Upreti

Lead battery consultant

Rod Chittenden

Head of Operations

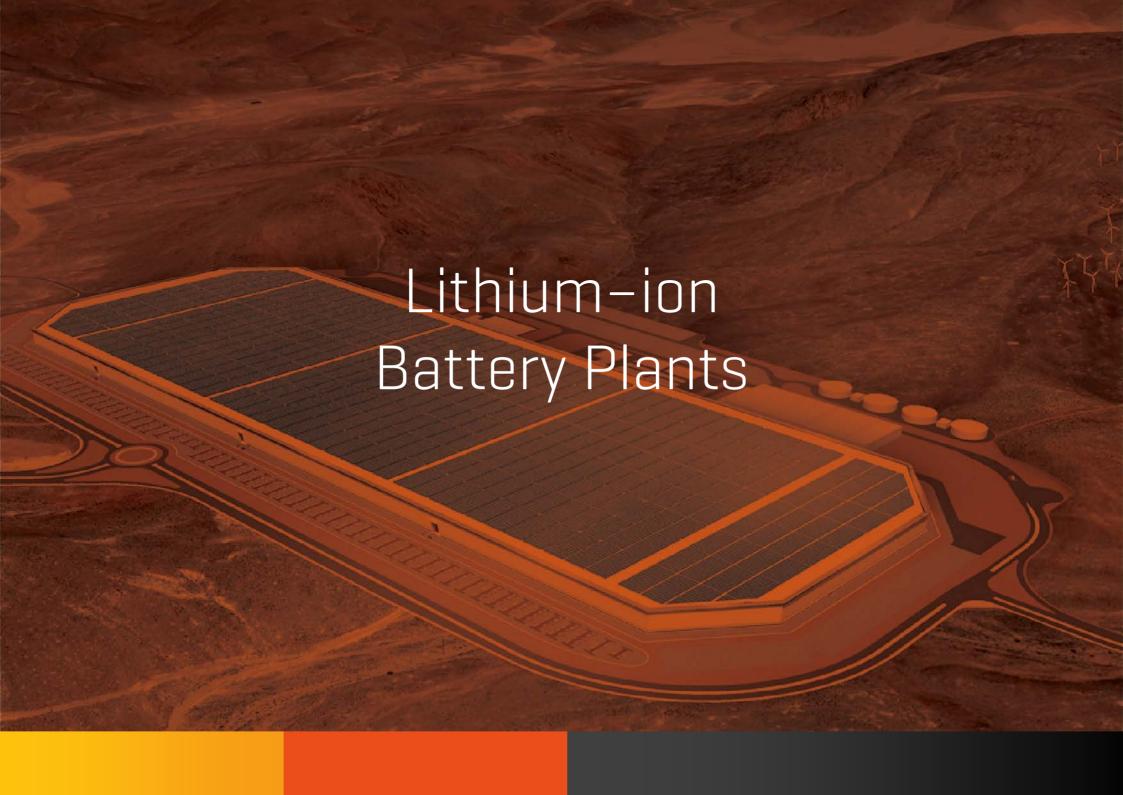
- Peter has held executive roles within the banking industry with wide ranging experiences over the past 22 years. Peter worked as the Chief Financial Officer and Head of Strategy, for the St George Banking Group for 3 years and also worked as Chief Product Officer at Westpac Bank
- Strong skills around products, financing, project management and governance
- 30+ years experience in the resources sector
- Managed established companies and acquisitions, including project expansions and start-up mining operations in Australia, South Africa and Indonesia
- 20 years practical experience in development and engineering of metallurgical process
- Deep process experience across a wide range of commodities; led process development teams at ANSTO [process manager, 2008-2014], BHP Billiton [principal engineer, 2005-2008] and Intec Ltd [1995-2005]
- 16+ years experience in lithium-ion battery technologies
- Strong track record in product development and commercialisation
- 5 year PostDoc completed under the supervision of Professor Stan Whittingham, one of the leading pioneers in development of Lithium-ion batteries with over 40 years experience in the field
- 30 years experience, metallurgist with a strong track record in project development; has worked in Australia, Europe, Africa
- Detailed involvement in metallurgical testing, feasibility studies, process design and commissioning for projects with Newcrest Mining, Barrick Gold, Paladin Energy and Mantra Resources



6 Investment Highlights

- Magnis has established itself as a pivotal
 Consortium Member and owner in developing
 Lithium-ion battery plants globally three
 announced with others pending
- Consortium participation underpinned by anode materials and technologies
- Highly experienced and credible Board of Directors with unrivalled capabilities and expertise in the Lithium-ion battery sector
- Owner and operator of World Class Nachu Graphite
 Deposit in Tanzania with an initial 15 year ROM at
 240kt graphite concentrate
- Magnis to unlock value through growth strategies take Nachu into production and progressively develop Lithium-ion battery plants





Lithium-ion Batteries – growing target markets

Lead Acid

- Automotive Starter > 250 GWh market with significant growth potential due to adoption of start-stop technology
- Forklift, Cart, Rickshaw >75 GWh market using larger packs
- UPS ~40 GWh market for applications such as mobile towers and also using larger packs

Global Battery Market GWh





• Energy Storage

- Renewables Annual new investment US\$260B exceeds that for fossil fuels
- Remote and Standby Standalone and hybrid systems competitive with diesel and gas
- Networks Load balancing and frequency modulation



Townsville Lithium-ion Battery Plant – further validation

- 15 GWh Lithium-ion Battery Plant to be located in Townsville, Australia
- Supported by Global LIB Consortium including participation from Eastman Kodak Company [NYSE:KODK]
- Strong state and local government support
- Scoping Study completed
- Woodstock site selection completed 400 hectares offered for small equity stake in project
- Site contains all major infrastructure including rail, power and close access to Port of Townsville







New York Lithium-ion Battery Plant – underpinning off take

- 15 GWh Lithium-ion Battery Plant to be located in Huron Campus the birthplace of IBM in Upper State New York
- Supported by New York State Government and leading Global Consortium of Lithium-ion Battery specialists
- Facilities previously produced high technology equipment by IBM
- Speed to production key
- Advanced Offtake and Financing discussions
- Scoping Study completed









Global Lithium-ion Battery Consortium









Imperium3

Charge CCCV(C4V)



C4V is a Lithium-ion battery material IP Company based in Binghamton, New York.
C4V has a wide range of patents to produce
Lithium-ion batteries focusing on current and future technologies.

Key discoveries include extending battery life, increasing performance and adding safety applications.

Boston Energy and Innovation



Chaired by Mr Bill Moss AO, BEI is an ethical investment house specialising in the establishment of sustainable energy storage solutions in an environmentally sustainable manner to curb future energy problems faced by countries worldwide.

Magnis Resources



Battery materials with its Nachu Graphite project. The company brings expertise in the production of anode materials and technologies.



Germany Battery Plant – Supply of raw materials

- Magnis has signed a MoU to supply raw materials for the planned gigafactories
- Initial Production by the end of 2019
- 34 GWh cell manufacturing lithium-ion battery plant
- 18 Major German Companies and institutes in the consortium
- Consortium includes companies throughout the Lithium-ion battery supply chain

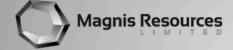






The Battery Plant opportunity is significant for Magnis – Case example: CATL Batteries

- CATL Batteries second major capital raising in October 2016 valued the company at US\$11.5b, with 7.5GWh of current production.
- Hon Hai Group purchases a 1.19% stake in CATL Batteries for US\$175m in March 2017 which values CATL at US\$14.7b.
- CATL has plans to increase to 50GWh of production in 2020, work and construction yet to begin.
- Most recent valuation for CATL at approx.
 US\$2b per GWh of current production.
- Magnis currently involved in plants with ownership for 30GWh of future production with plans to increase to over 100GWh in the near future.



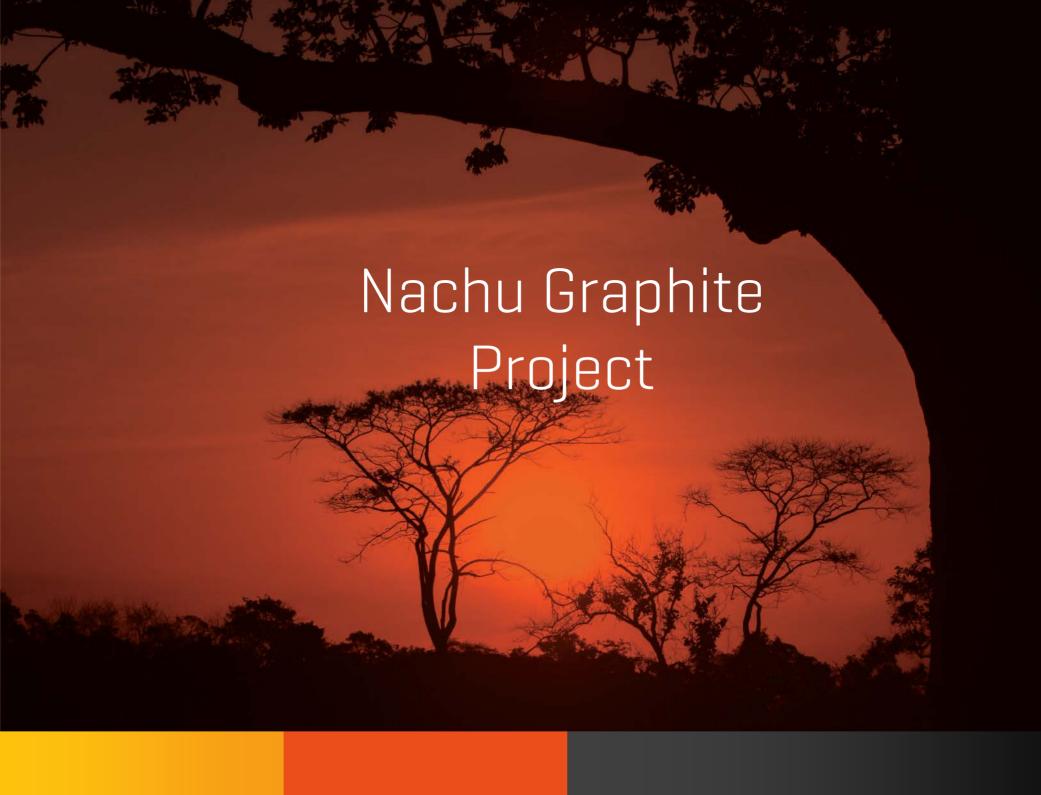
MNS has a differentiated graphite industry strategy



We are focused on providing an alternative to the spherical graphite supply chain through a greener, more cost effective and secure route to market.

- Not all graphite is created equal and the market for graphite is not homogenous
- Concentrate, purity and a 'sustainable' flowsheet to produce coated spherical graphite are key drivers in the lithium-ion battery market
- Thickness and ordered crystal structure of Nachu natural graphite flake supports sustainable production of high value products including spherical graphite to Lithium-ion battery specifications without any chemical or thermal purification
- Capitalise on the significant divergence in graphite end markets by focusing solely on growing and high value product markets:
 - Avoid exposure to traditional graphite markets with clear future oversupply risk in fine grain, lower purity products
 - Produce a high quality spherical graphite product for use in lithiumion battery anodes
- Leverage unique qualities of Nachu graphite in a manner that will allow full value capture for the high purity Nachu ore body
- Board and management teams with leading high calibre technical experts in LIB manufacture and automotive





Nachu Graphite Project shovel ready

- Located west of the coastal city of Lindi and ~220km by road from port city of Mtwara in south east Tanzania
- One of the most advanced graphite projects of scale globally
- Annual production of ~240kt graphite concentrate for an initial 15 year LOM
- BFS completed
- ESIA completed in accordance with Equator Principles guidelines
- Power solution, water and port access
- Land valuation complete and compensation for re-settlement of households nearing finalisation
- Special Economic Zone (SEZ) granted for production of value added graphite products
- Clear strategy and process route to produce a high quality spherical graphite product
- Project development integrated to downstream LIB manufacturing to leverage competitive advantage from quality of graphite and security of non-China supply chain



Compelling BFS Results

- BFS confirms Nachu as a robust, high returning graphite project with premium product quality
- Average 220ktpa graphite concentrate produced over an initial reserve-backed 15 year mine life
 - 240ktpa over first 12 years
- Strong further high grade resource conversion potential
- Post-tax NPV_{10%} of US\$1.69b and project IRR of 98%
- 12.5x mine life to payback ratio
- Outstanding forecast operating margin of US\$1,791/t
- Projected basket price of US\$2,350/t reflects high value products exceptional purity and flake size
- Increased pre-production capex relative to PFS driven by larger plant capacity (3.6mtpa PFS)

1. Refer Magnis ASX release on 31 March 2016 (Bankable feasibility study finalised).

Key Project Parameters	BFS (March 2016) ¹
Resources	174mt at 5.4% TGC
Reserves	76mt at 4.8% TGC
Initial life of mine (years)	15.2
Total mined ore (mt)	76.3
Strip ratio (LOM avg)	1.5
Plant throughput (mtpa)	5.0
Feed grade (% TGC, LOM avg)	4.8%
Recovery (LOM avg)	92%
Graphite concentrate production (ktpa, LOM avg)	220
Average concentrate purity (% TGC)	98%
Cash cost (US\$/t conc FOB Mtwara, LOM avg)*	559
Pre-production capital (US\$m)	269
Sustaining capital (US\$m)	71
Weighted average basket price (US\$/t conc FOB)	2,350
Free cash flow (US\$m pa, LOM avg)	255
NPV _{10%} (US\$m, post-tax)	1,686
Project IRR (post-tax)	98%
Payback period (years)	1.2
* Excludes production royalty (3%)	



Supply Chain and IP

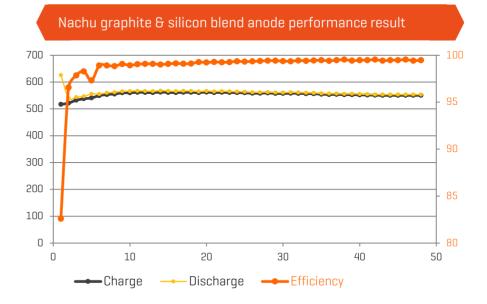
Magnis Flakes From Mine ~ 180 Micron (d50) (Purity 99.2%) **Spheroidisation** ~75 % Yield (Purity 99.95%) Coating/ Ultra Specification (Purity 99.95+%)

- Magnis Resources' supply chain has significant flexibility to meet customers indicated specifications
 - This starts and finishes with the quality of the in-situ graphite at Nachu
- Co-location potential of downstream facilities for efficiency, reduced cost and rapid scale up potential to meet end user demand
 - Establishment of a higher quality and consistent non Chinese supply source
- Magnis may supply both coated and uncoated spherical graphite subject to customer requirements
 - Coated and Uncoated Spherical Graphite @ >99.95% C
- Industry leading infrastructure and IP
 - Team with cumulative 50+ years of Li-ion industry experience
- Access to IP to continue product evolution



Results validate R&D commitment

- Graphite and silicon anode blend is an area receiving significant attention from battery makers and car manufacturers for the next generation of high performance anode material
 - Magnis team experience allows for parallel development of the silicon blend with delivery of coated spherical graphite material from the Nachu project
- Testwork conducted for a 10% silicon additive blended with Nachu coated spherical graphite
- Initial results from coin cell testing include
 - First charge capacity of 587+ mAh/g, a 65% improvement over the energy density of ~355mAh/g for current industry standard graphite anode
 - First cycle efficiency >86%
 - More than 98% capacity retention after 38 cycles
- Potential to deliver significant increase in mileage and power
 - The 65% increase in anode capacity translates to 20-30% increase in mileage for current battery pack sizes



Internal view of silicon composite particle





Advantageous product streams and pricing

240ktpa Flake Graphite Concentrate (average 98.6% TGC)*

22ktpa Super Jumbo Flake

Size: +500 microns, +35 mesh

Purity: 97% – 98.5% TGC

Key markets: Aerospace, composites

and niche markets

Current pricing: US\$4,000-6,000/t

CFR**

77ktpa Jumbo Flake

Size: 300-500 microns, +50/-35 mesh

Purity: 97.5% – 99% TGC

Key markets: Expandable graphite,

composites and electronics

Current pricing: US\$2,500-3,000/t

CFR**

141ktpa Battery Feedstock

Size: Sub 300 microns. -50 mesh

Purity: 99.5% TGC

Key markets: Spherical graphite for

use in Li-ion battery anodes

Current pricing: +US\$2,100/t FOB**

- Premium pricing due to purity, absence of halides and terminal product performance
 - Spherical graphite produced from Nachu Battery Feedstock delivers superior performance to leading synthetic graphite
- Downstream margin capture
 - Toll processing (spheronising and coating) to produce spherical graphite

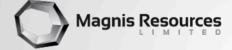
- Strong market outlook for all Nachu product streams
 - In contrast, clear future oversupply risk in fine grain, lower purity products
 - Large flake sizes provide significant marketing flexibility
- * Concentrate production rate over first 12 years of initial mine plan
- ** Current pricing based on industry sources and end user discussions



Potential Lithium-ion Battery Plant Offtake

Plant	Size	Spherical Graphite (tpa)	Magnis Graphite Concentrate (tpa)
New York	15GWh	15,000	20,000
Townsville	15GWh	15,000	20,000
Germany	34GWh	34,000	45,000
TOTAL	64GWh	64,000	85,000

- Offtake Agreements being negotiated with all consortiums
- Further plants to be announced during 2017
- Current pricing for high performing Spherical Coated graphite at \$8,000 \$12,000t
- Magnis cost for high performing Spherical coated graphite at \$2,900t



Targeting an Exponential Market Growth

- Volkswagen strategy highlights the structural shift towards electric vehicles
- Target of 20-25% of group sales in 2025, implies annual sales of 2-3m "e-cars" v 2015 Volkswagen global total sales of 9.93m
 - Compares to broker/industry forecasts of EV sales representing ~2.5% of new cars sales by 2020
- To support strategy Volkswagen anticipates fleet requirement of ~150Gwh by 2025
 - Equates to ~150ktpa anode material or ~150ktpa spherical graphite
 - At current Chinese flake yields into spherical graphite estimated at 30-40%, equates to ~450ktpa of natural graphite
 - Nachu graphite test work has indicated spherical graphite vields of ~75%
- EV are no longer the domain of Silicon Valley companies
 - EVs represent 'product innovation' of a staple of civilisation not revolution which drive the potential for "hyper adoption" scenarios that significantly exceed market forecasts

VOLKSWAGEN

The electrification initiative of the Volkswagen Group

Goal: to position Volkswagen as a driving force behind the expansion of electro-mobility; e-car to become a new hallmark of the Group 30 new pure-electric vehicles by 2025 Annual unit sales of 2 to 3 million e-cars by 2025, equivalent to 20–25 percent of total sales

A dynamic and potentially rapidly growing market



Source: Citi Research



Timeframe on next steps





Investment Summary

- Downstream Lithium-ion battery manufacture with existing manufacturing supply chain partners and government support
- Gigafactories using sustainable supply chains bypassing China route
- Ownership in highly lucrative Lithium-ion Battery Gigafactories
- High calibre board and management teams with expertise in all project facets from mine development to LIB manufacture to downstream industries including automotive business
- Nachu is a high quality, long life graphite resource which is development ready with outstanding returns
- Industry first with no downstream chemical or thermal purification required leading to strong green credentials and the lowest cost producer of spherical graphite above 99.95%TGC purity









Australia Head Office

Suite 9.03, Aurora Place

88 Phillip Street

Sydney NSW 2000 Australia

E: info@magnis.com.au

T: +61 2 8397 9888

W: www.magnis.com.au

ASX: MNS

enabling future energy