

ASX: TLG

TALGA RESOURCES

*A Path to Industrial Scale Graphene
Supply and Commercialisation*

Graphene Malaysia 2017

10 July 2017 | Kuala Lumpur




talga
unearthing tomorrow

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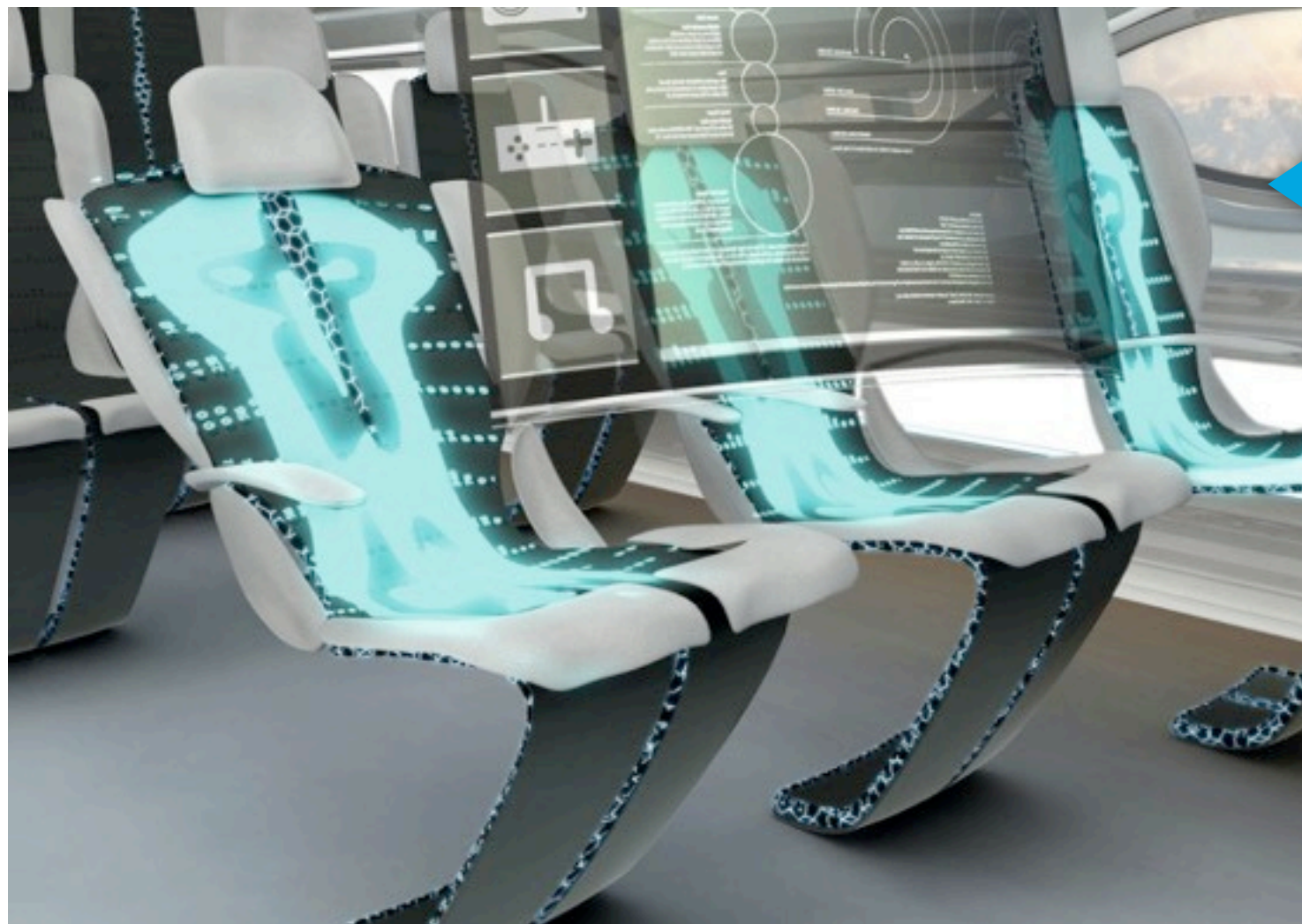
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INTRODUCTION

“Planes will be made from the wonder material graphene in 10 years”
Richard Branson

- ▶ Graphene is rarely, by itself, a product per se
- ▶ Technical community knows this, but some of public (including stakeholders) are still confused
- ▶ There is no ‘killer app’ for graphene so far, ***nor does there need to be one***
- ▶ Talga’s industrial scale graphene manufacture is all about creating ***additives*** that enhance existing materials



PUBLIC

SCIENTIST



TALGA OPPORTUNITY



Technology minerals company commercialising the worlds highest grade natural graphite project to mass produce graphene and related products



- ▶ Own 100% of a unique and large graphite source in tier 1 mining and technology materials destination - Sweden
- ▶ Mining doesn't require drilling or blasting of ore – 100% owned processing technology
- ▶ Not constrained to one market - big value proposition to remove a supply and pricing bottleneck across multiple large markets
- ▶ Business model revolves around making real world products perform better and with new functionality today
- ▶ End users currently validating the products and strategy to deliver business case
- ▶ Talga's markets totally different to flake graphite players with exception of batteries
- ▶ Talga is doing it now, not just talking about it

CORPORATE SNAPSHOT



FINANCIAL INFORMATION

Share price (ASX code TLG) (07-July-17)	A\$0.63
52 week low / high	A\$0.24/ A\$0.92
Shares outstanding ^{1,2}	202.4m
Market Capitalisation	A\$127.5m
Cash (30-Jun-17)	A\$16.3m
Debt (30-Jun-17)	Nil
Enterprise value	A\$111.2m

Source: IRESS, company filings. As at 07 July 2017.

¹ Excludes 44.9m listed options (TLGOA) with exercise price A\$0.45 and expiring 31 Dec 2018

² Excludes 30.7m unlisted options (mostly employees and directors) with exercise price range A\$0.35-A\$1.00 and expiry date range

4 Oct 2018 to 17 Dec 2020

SHARE PRICE PERFORMANCE

Share price (A\$) 12 months

Volume (m)



MAJOR SHAREHOLDERS

Smedvig - <i>Scandinavian based family office</i>	12.6%
Mark Thompson - <i>Managing Director</i>	7.0%
Pelmer Securities	3.8%
HSBC Custody Nominees (Australia)	3.6%
Citicorp Nominees	3.3%
Kamberg Investments	3.1%
Yandal - <i>investment entity associated with Mark Creasy</i>	3.0%

BOARD AND MANAGEMENT

Substantial commercialisation experience with some of Australia’s best known innovation and development projects



Terry Stinson
Non-Executive Chairman

Former President & CEO of Synerject LLC, and Vice President Manufacturing of Fortune 500 company, Outboard Marine
Current Managing Director and CEO of Orbital Corp (ASX: OEC)



Mark Thompson
Managing Director

Founder and former Director of Catalyst Metals (ASX: CYL), Current Non-Executive Director of POZ Minerals (ASX: POZ)
Member of Australian Institute of Geoscientists and the Society of Economic Geologists



Grant Mooney
Non-Executive Director

Current Director of Carnegie Energy (ASX: CCE), Barra Resources (ASX: BAR) and POZ Minerals (ASX: POZ)
Wealth of senior management experience in resources and technology markets



Steve Lowe
Non-Executive Director

Current business manager for Creasy Group and Non-Executive Director of Coziron Resources (ASX: CZR)
Former Chairman and Non-Executive Director of Sirius Resources (formerly ASX: SIR)



Managed the manufacturing division of the outboard marine propulsion products for a privately held US\$1bn multinational.



Oversaw the evolution of Carnegie Wave Energy from 2008 as it developed innovative renewable energy solutions in Australia.



Oversaw the company during the discovery and development of one of the largest Cu/Ni discoveries in Australia in the last 30 years.



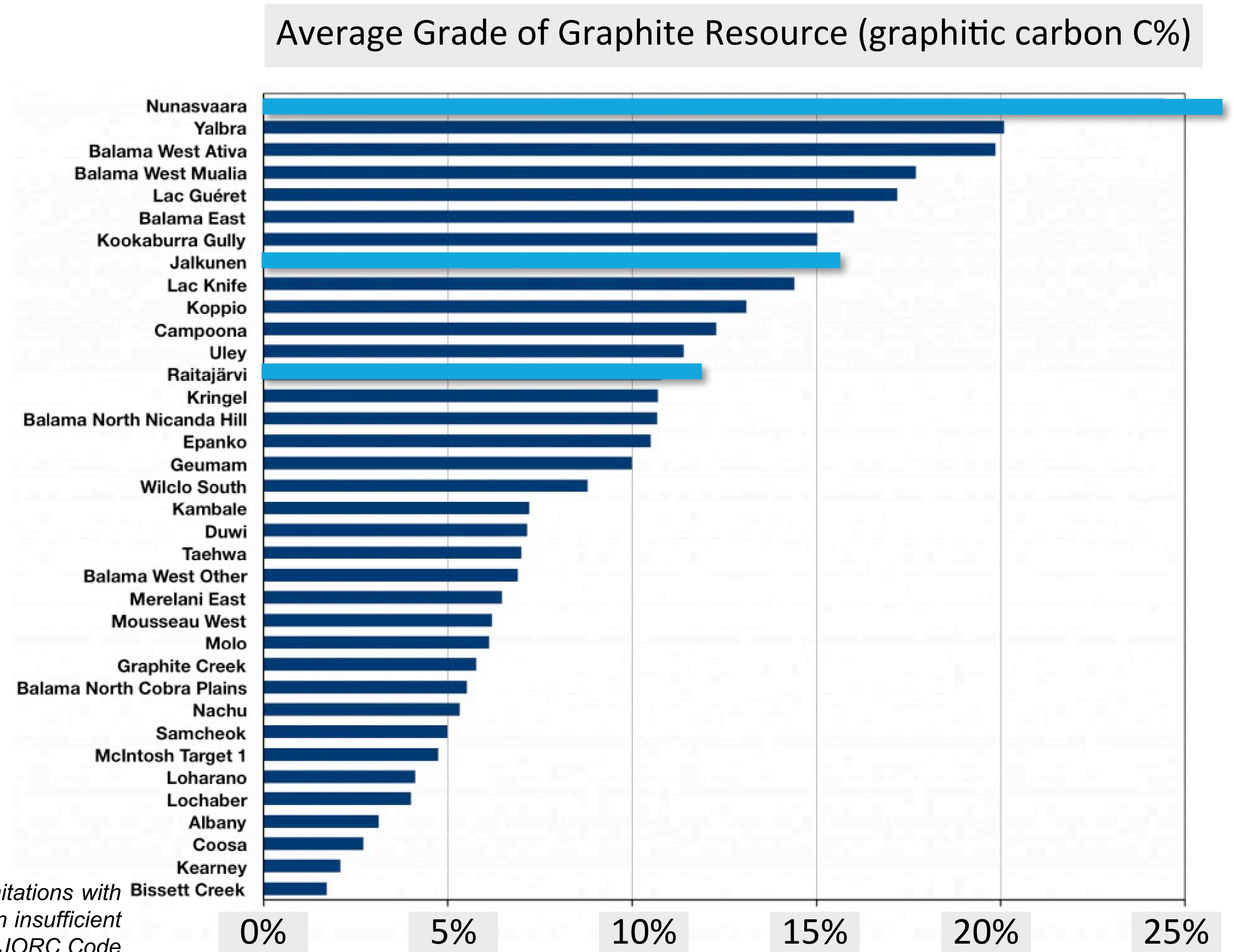
Managed the company from 2000 to 2002 including the introduction of several new sales products.



Has led Orbital since 2008 and successfully secured a breakthrough deal with Insitu Inc. (Boeing) for the supply of global unmanned aerial vehicle propulsion systems worth up to A\$120m over a 3 year period.

TALGA OWNS 3 OF THE WORLD'S TOP 10 GRAPHITE RESOURCES*

- ▶ Talga has pipeline of high grade graphite deposits where nature has paid for the crystallising of the carbon
- ▶ Largest graphite resources in Europe
- ▶ Lower eco-footprint than standard deposits and close to existing infrastructure in safe Tier 1 investment destination - Sweden
- ▶ Focus is on margins and massive natural or technical advantage, not resource tonnes for tonnes sake



Note: The Exploration Target is based on a number of assumptions and limitations with the potential grade and quantity being conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource Estimate in accordance with the JORC Code and it is uncertain if future exploration will result in the estimation of a Mineral Resource.

WHAT IS GRAPHENE?

Graphene is an extraordinary material whose commercialisation pathway has been constrained only by volume and cost of production, not applications.



- ▶ **Graphene** is the thinnest substance ever made - atomic layers of crystalline carbon which constitute **graphite**
- ▶ When small particles of graphene are used as an **additive** (mixed into a material) it can impart superior **strength, lightness, conductivity** or enhance **functionality**
- ▶ But technical specification is less relevant than **how it works in a product**
- ▶ Once standards or performance demonstrated, industry wants production volume reality, repeatability and a sustainable long term source with a 'clean' supply chain

TALGA OPERATIONS



Vertically integrated operations provide economic advantages

1. Upstream

Source

- ▶ 100%-owned graphite project near Kiruna in Northern Sweden
- ▶ World's highest grade graphite resource (JORC/NI43-101)
- ▶ Unique ore able to be used directly as anode in electrochemical exfoliation process

2. Midstream

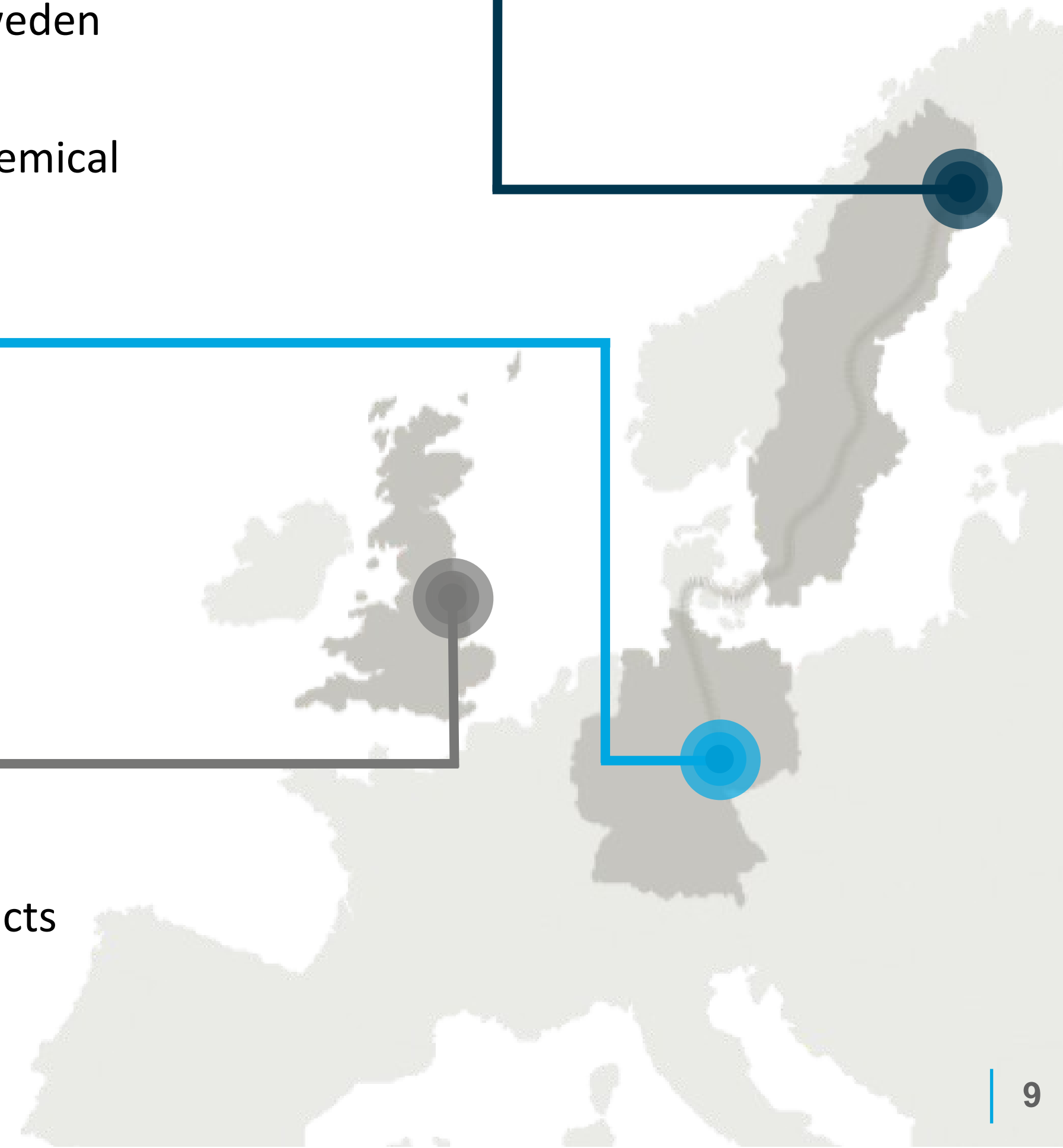
Processing

- ▶ 100%-owned test facility in Rudolstadt, Germany
- ▶ Expanding proprietary scalable process
- ▶ Current ore treatment capacity of ~30tpa

3. Downstream

Product Development

- ▶ Product development team based in Cambridge
- ▶ In-house technology and skills to create 'value-add' products
- ▶ Accelerates commercialisation process



1 UPSTREAM SOURCE: UNIQUE GRAPHITE ORES



100%-owned upstream asset which is the world's highest grade JORC/NI43-101 graphite mineral resource

- ▶ Talga flagship Vittangi graphite project located 20km east of LKAB's iron ore mine and railhead at Svappavaara, Sweden
- ▶ World's highest grade JORC/NI43-101 compliant graphite resource, Nunasvaara
- ▶ Wide, uniform mineralisation starts at surface – can support >20 year mine life and more for industrial scale production

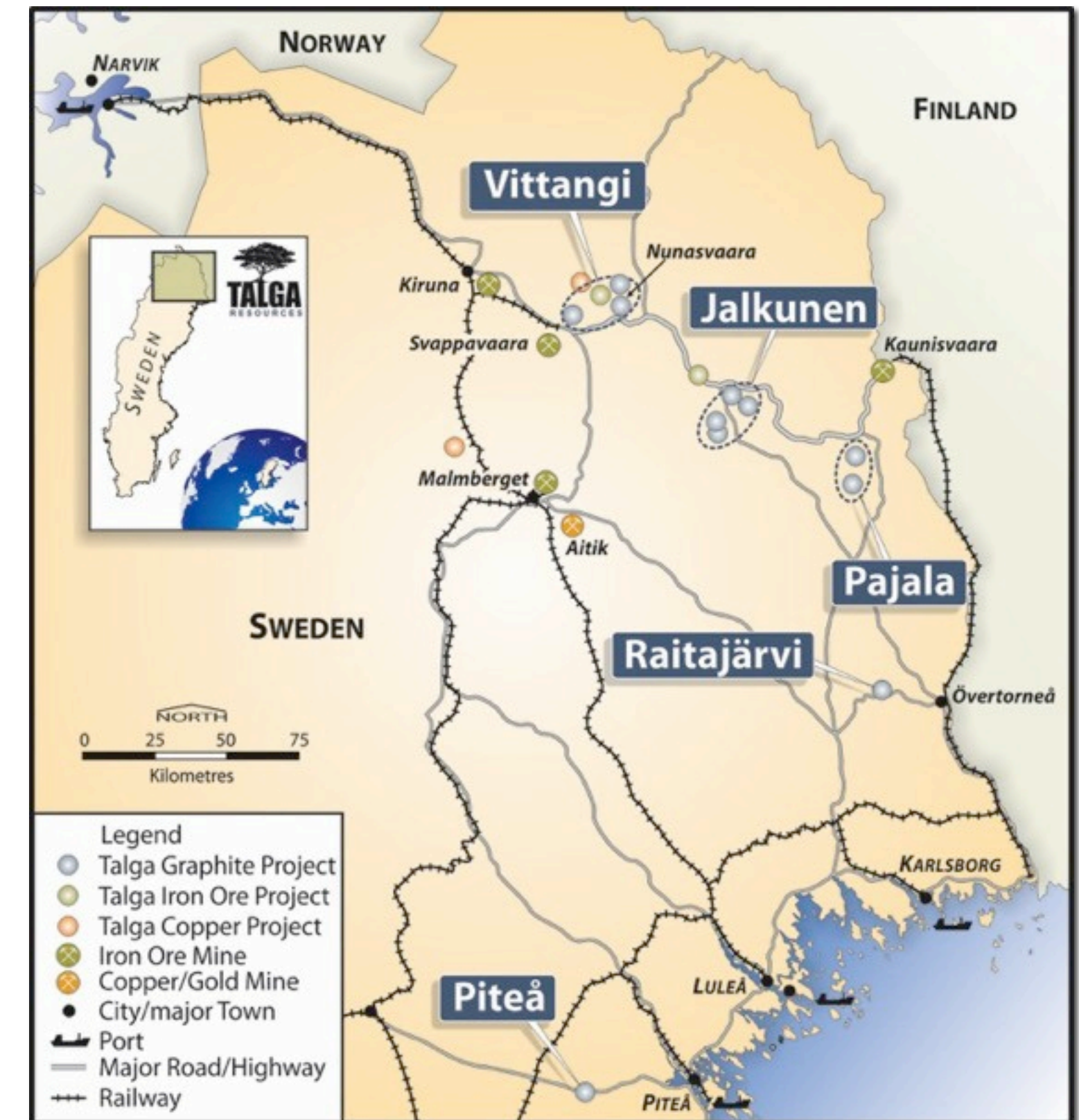
JORC compliant Mineral Resources

Project	Tonnes	Graphite Grade
Vittangi	9,800,000	25.3 %Cg
Jalkunen	31,500,000	14.9 %Cg
Raitajärvi	4,300,000	7.1 %Cg

JORC compliant Exploration Targets

0-100m Depth	Tonnes	Graphite (%Cg)
Total	136-250,000,000	18-25

Note: The Exploration Target is based on a number of assumptions and limitations with the potential grade and quantity being conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource Estimate in accordance with the JORC Code and it is uncertain if future exploration will result in the estimation of a Mineral Resource.



Operational progress



GEOLOGY ADVANTAGE

Ore blocks are conductive enough to use as electrodes without processing



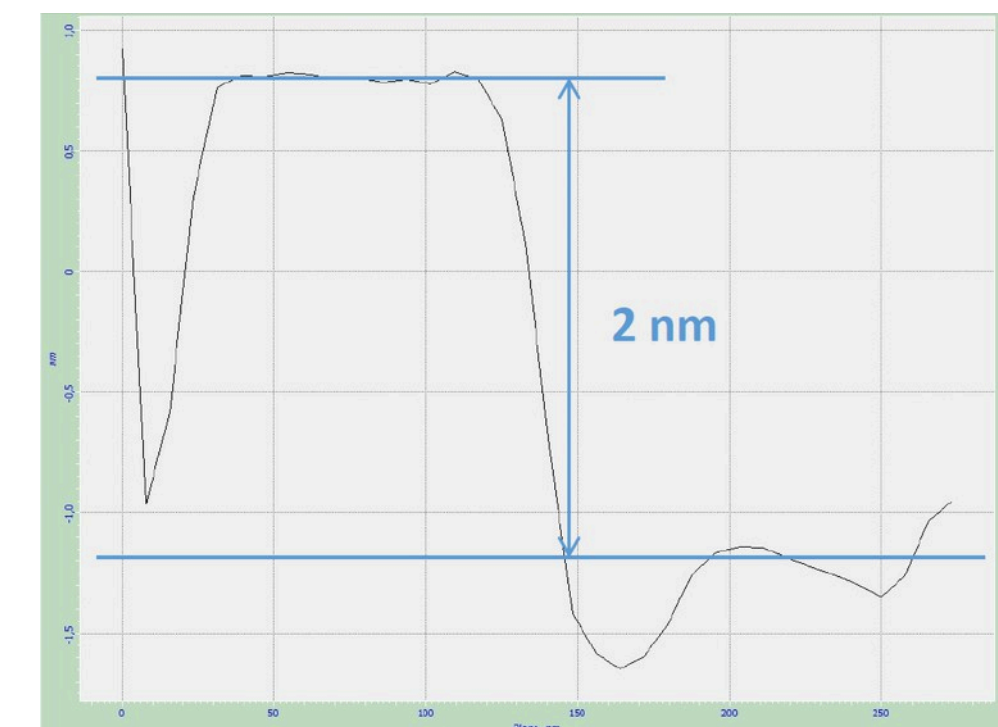
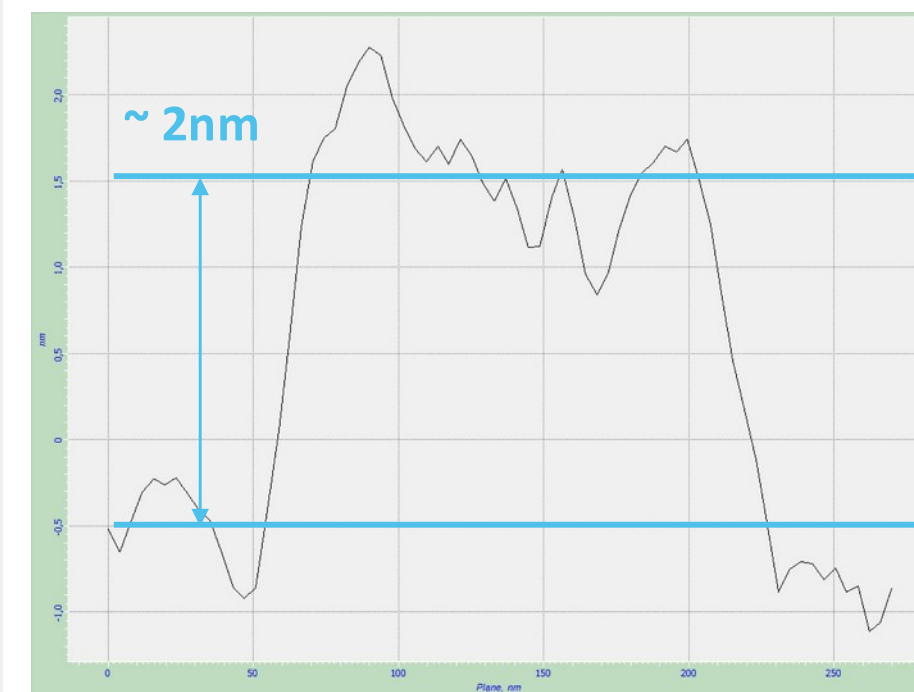
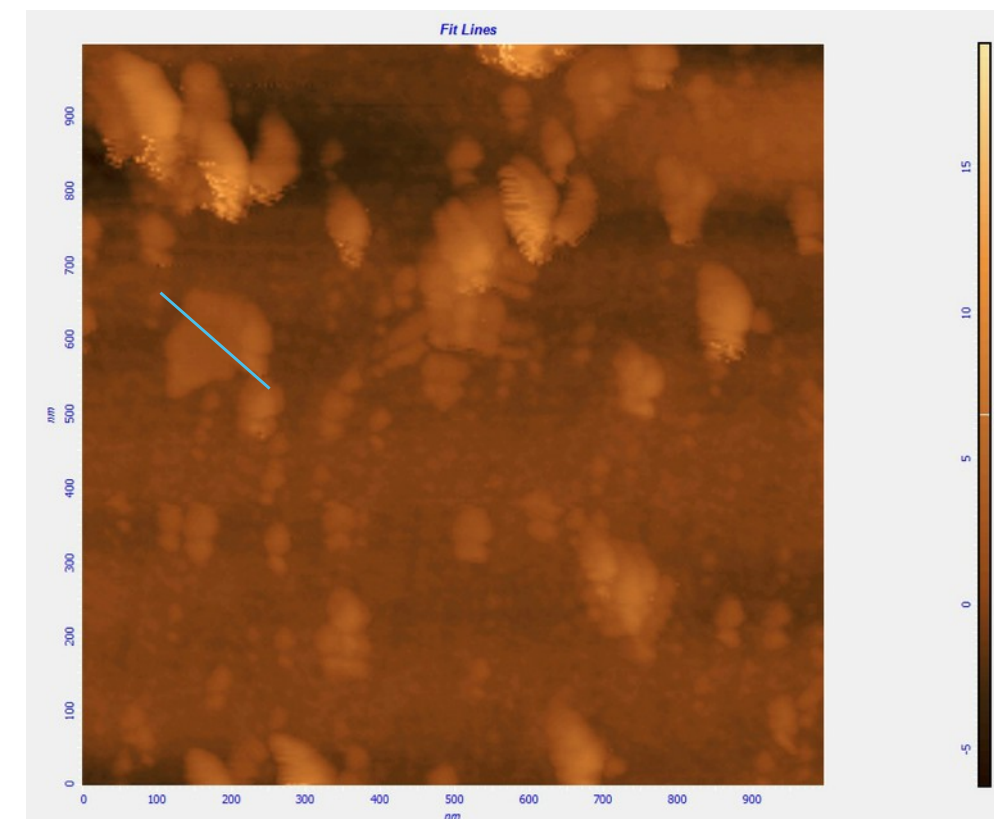
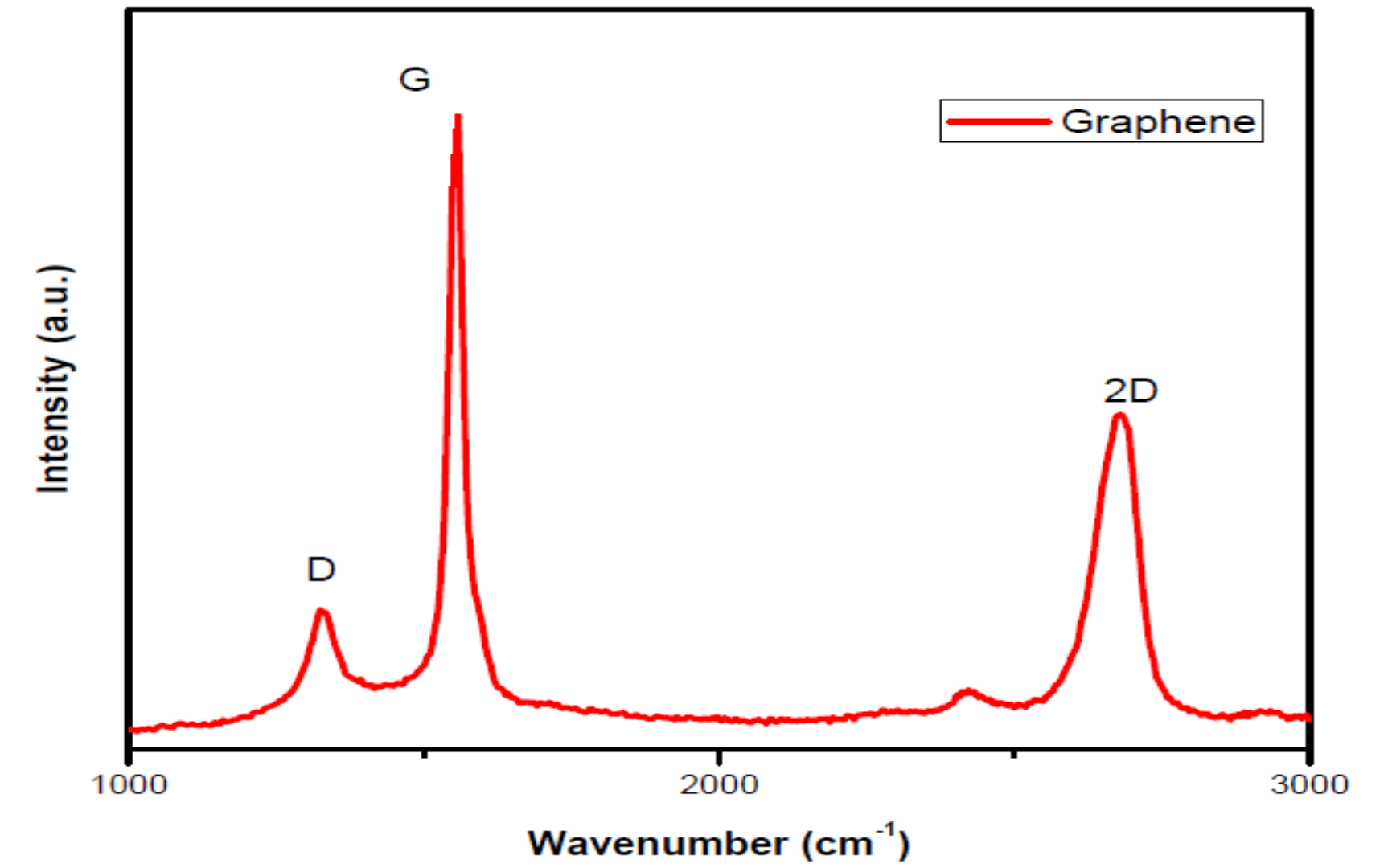
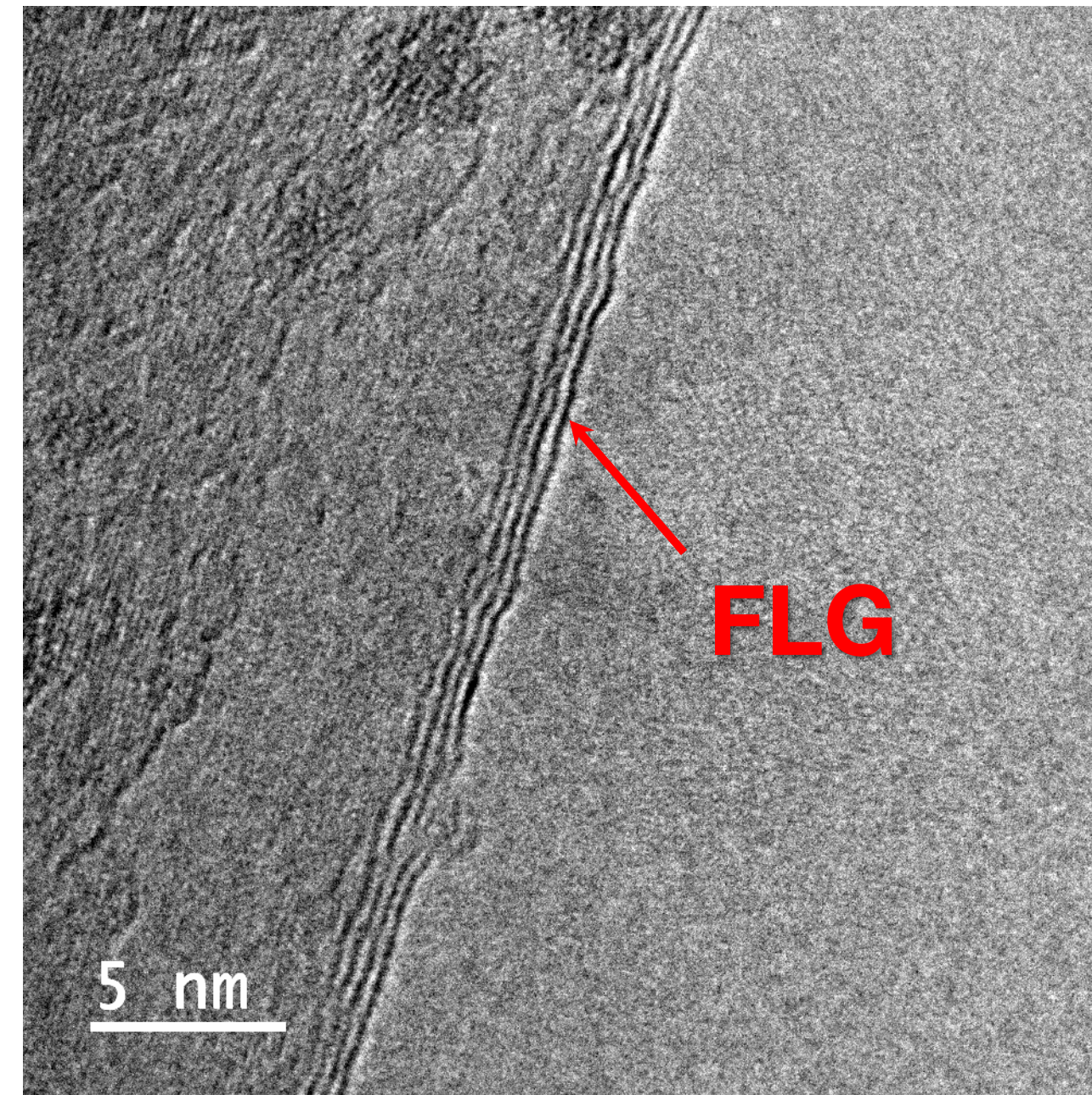
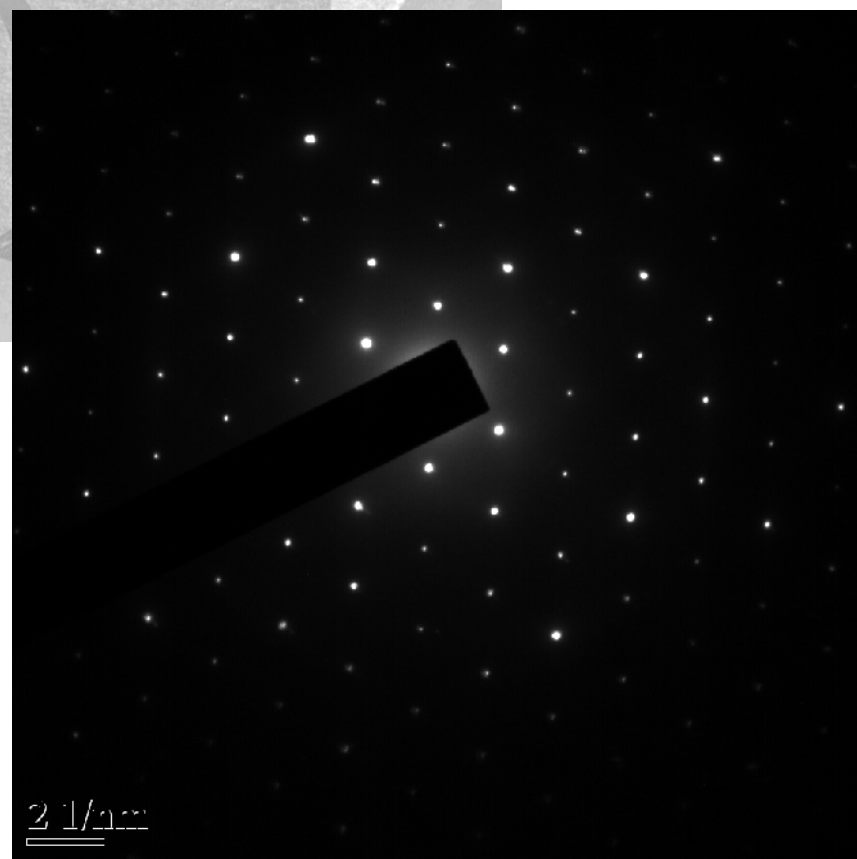
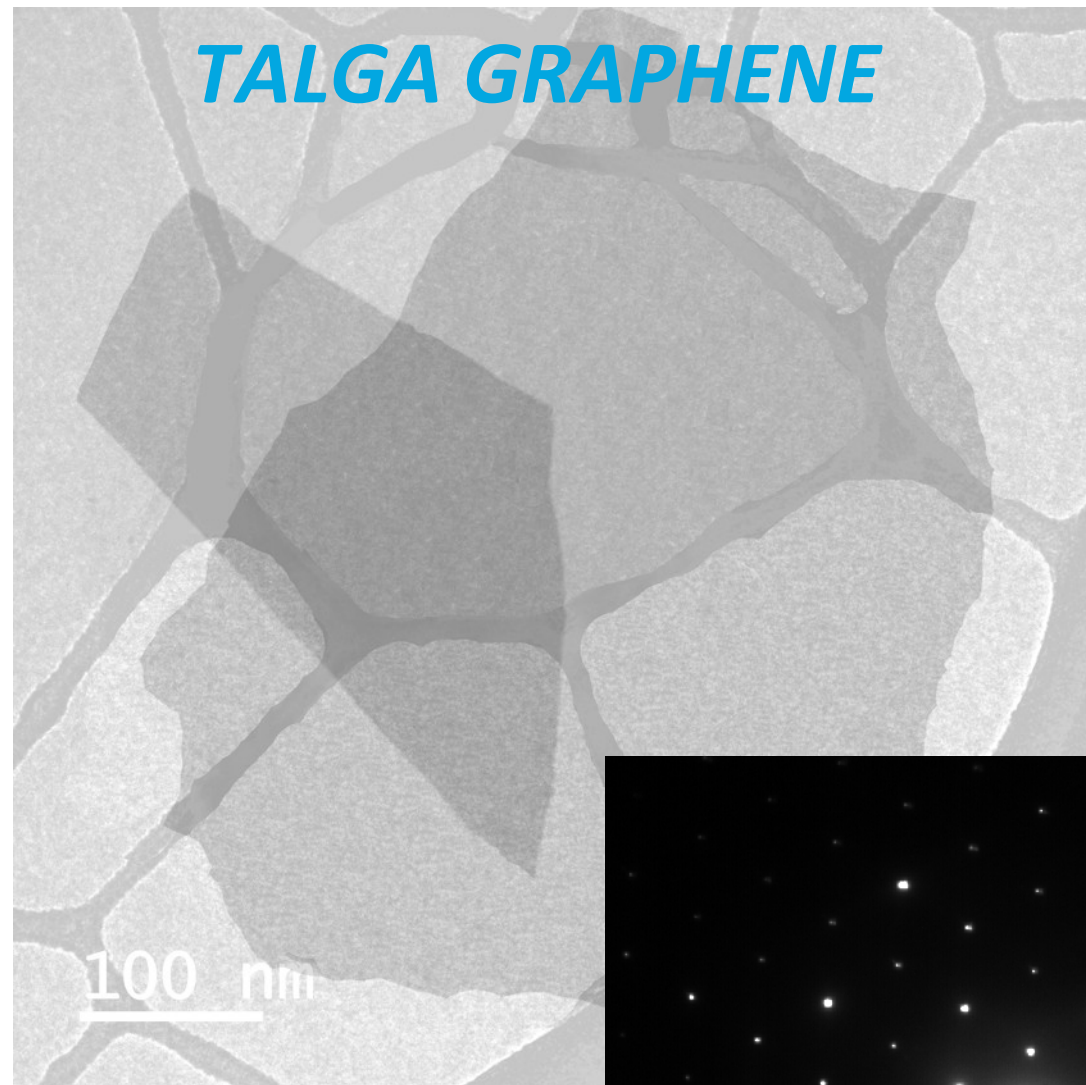
2 MIDSTREAM: GEOLOGY MEETS TECHNOLOGY

Concept demonstration of Talga exfoliating graphene direct from its Swedish graphite ore



QUALITY GRAPHENE FOR BULK VOLUME MARKETS

Multi-academic partners and institutions confirm high quality FLG for bulk volume additives



TALGA OPERATIONS SUMMMARRY ON VIDEO



3 DOWNSTREAM: PRODUCT DEVELOPMENT



Talga has in-house 'value added' product development capabilities – starts with internal prototype testing followed by external validation with end users

Product Development

- ▶ Talga's UK team, based in Cambridge, focuses on developing value-added graphene and micrographite products for key end-user markets
- ▶ Products developed by Talga are important to unlock value-add margins (as distinct from 'raw' graphite and graphene revenue)
- ▶ Talphene™, is the brand of Talga graphene enhanced products



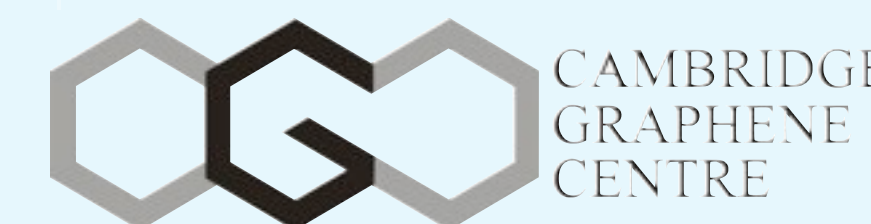
Talphene™ enabled liquid dispersion products

Partners

- ▶ Talga's product development team collaborates with industry leading partners to accelerate the commercialisation of its graphene and micrographite products
- ▶ Resources are shared and various intellectual property agreements are in place to ensure commercial protection of Talga's developments



now part of BASF Group



MARKET OPPORTUNITY FOR GRAPHENE



In addition to raw materials, Talga is focused on the manufacture and commercialisation of targeted products across 4 key industry sectors



Construction additives

Advantages

- Improves strength, durability and impermeability
- Imparts electric and thermally conductive properties
- Reduces concrete used and decreases industry CO2 emissions
- Enables underground power transmission cables, underfloor heating, road and bridge snow melting and de-icing

Immediate market opportunity
US\$17bn specialty concrete



Energy storage (batteries)

Advantages

- Enables higher performance and lower cost Li-ion, flow and alkaline batteries.
- Flexible, printable batteries for 'Internet of Things' and 'Wearable' devices
- Lower toxic footprint by enabling water-based battery chemistry
- Lower cost fuel cells

Immediate market opportunity
US\$24bn battery market



Talphone™ enhanced coatings

Advantages

- Eco-friendly alternative to toxic chromium based coatings
- Lower cost and superior performance with reduction in zinc, copper, phosphate, zirconia
- Corrosion protection increased by up to 74% for mild steel
- Eco-friendly marine anti-fouling

Immediate market opportunity
US\$22bn corrosion protection sector within global US\$120bn



Carbon fibre composites/resins

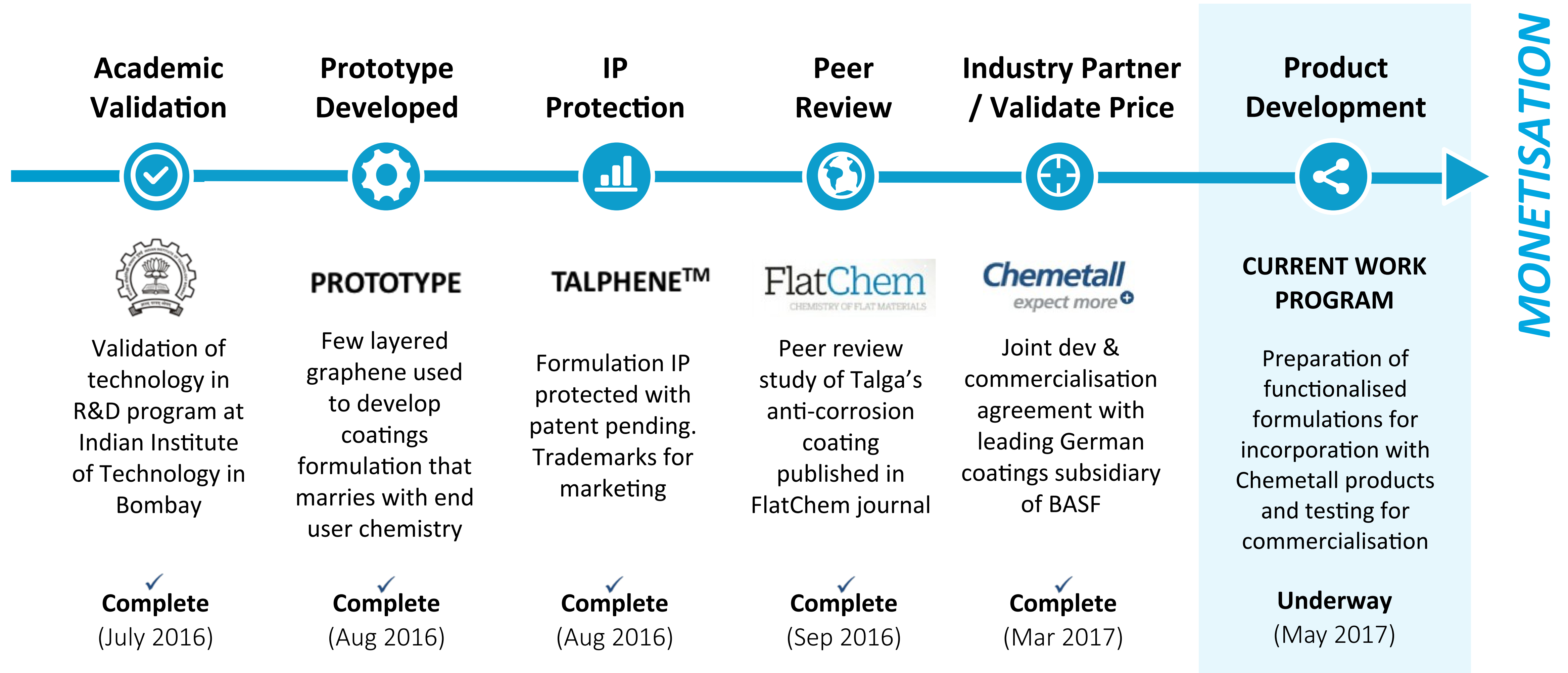
Advantages

- Stronger and lighter epoxy resin systems for carbon fibre and polymer composites
- Enables lightning strike protection and EM shielding in carbon fibre planes and EV's
- Replaces copper heating elements/wires to reduce weight of EV's

Immediate market opportunity
US\$18bn composites sector

STRATEGY IN ACTION: ROADMAP FOR COATING PRODUCTS

Talga's most advanced product development highlights the Company's ability to execute on its strategy of targeting large end users and securing commercialisation agreements



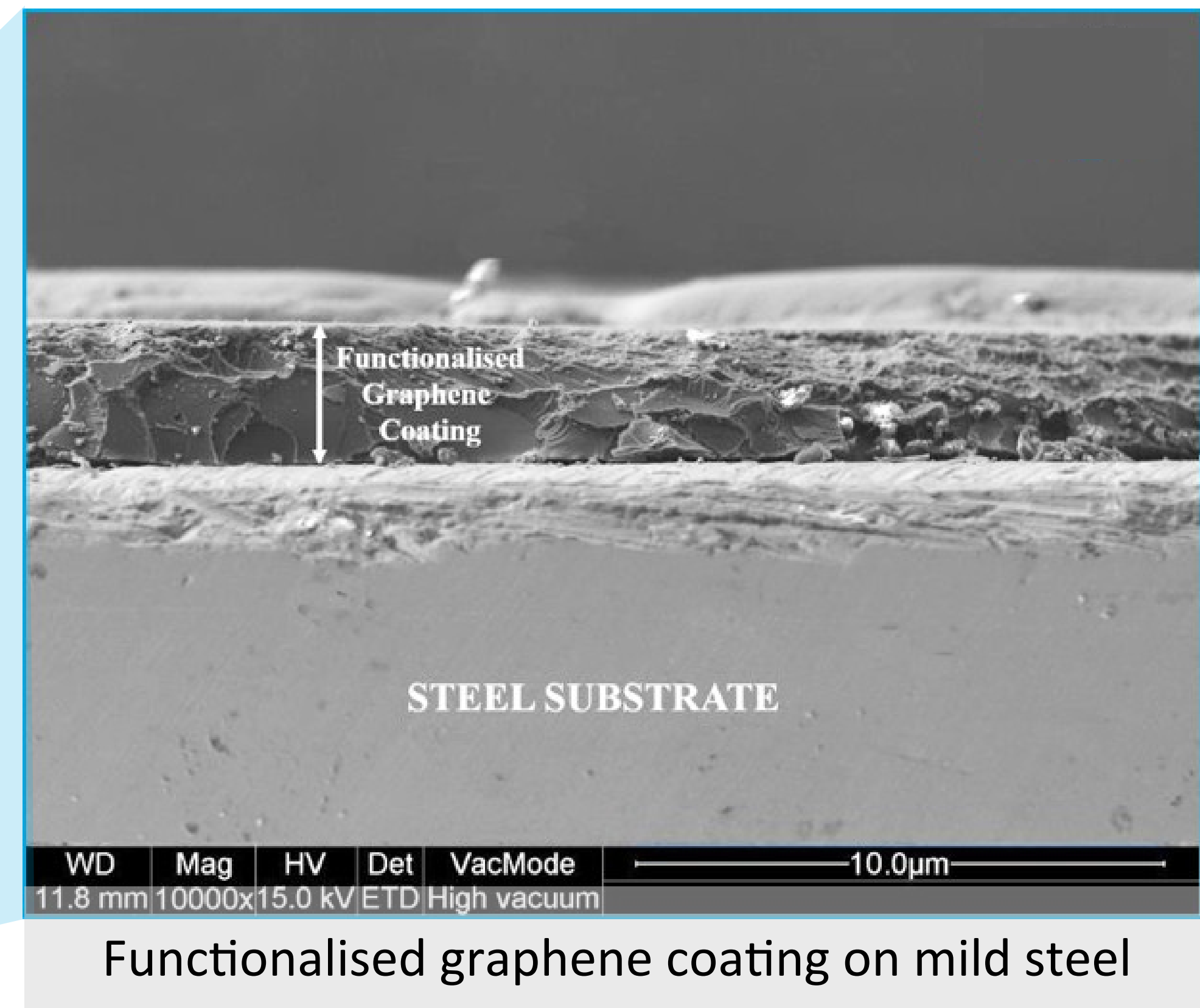
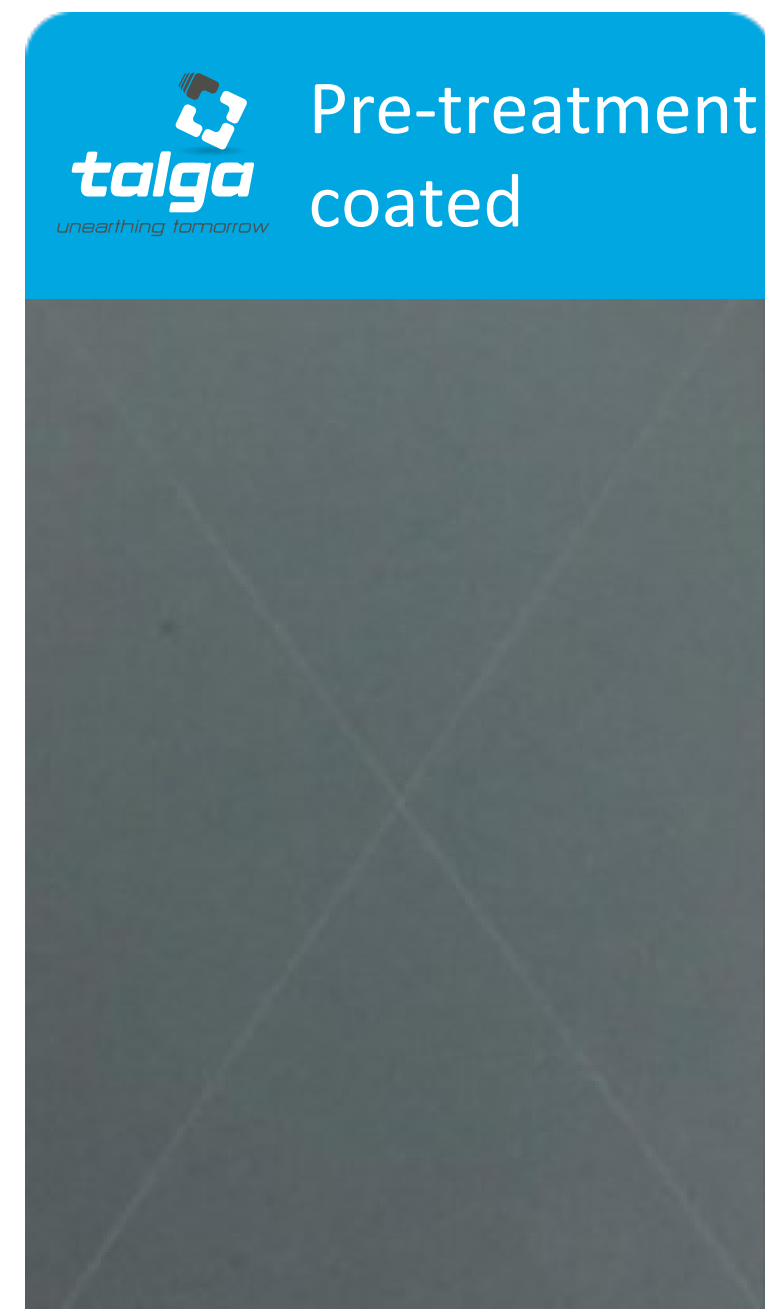
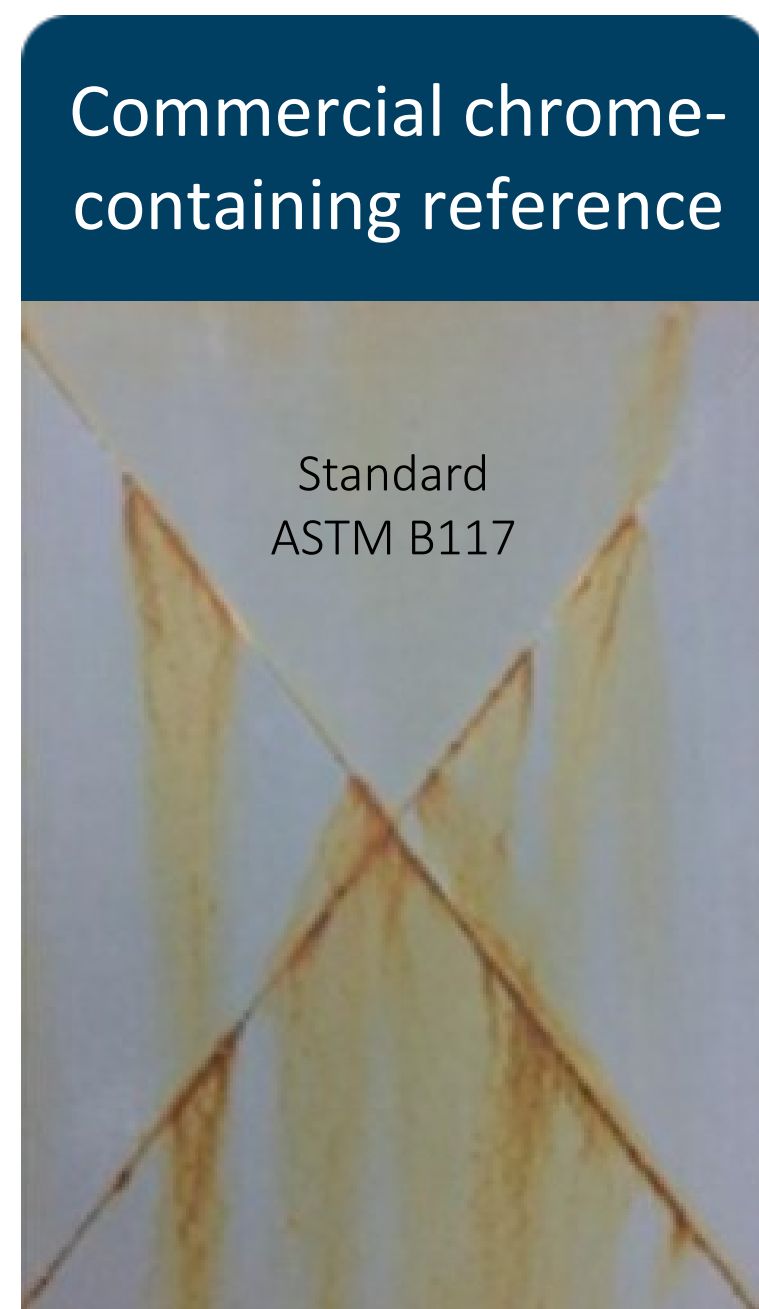
COATING PRODUCT - ANTI CORROSION



In ASTM-standard salt exposure tests Talga graphene formulation improves performance over chrome-containing reference



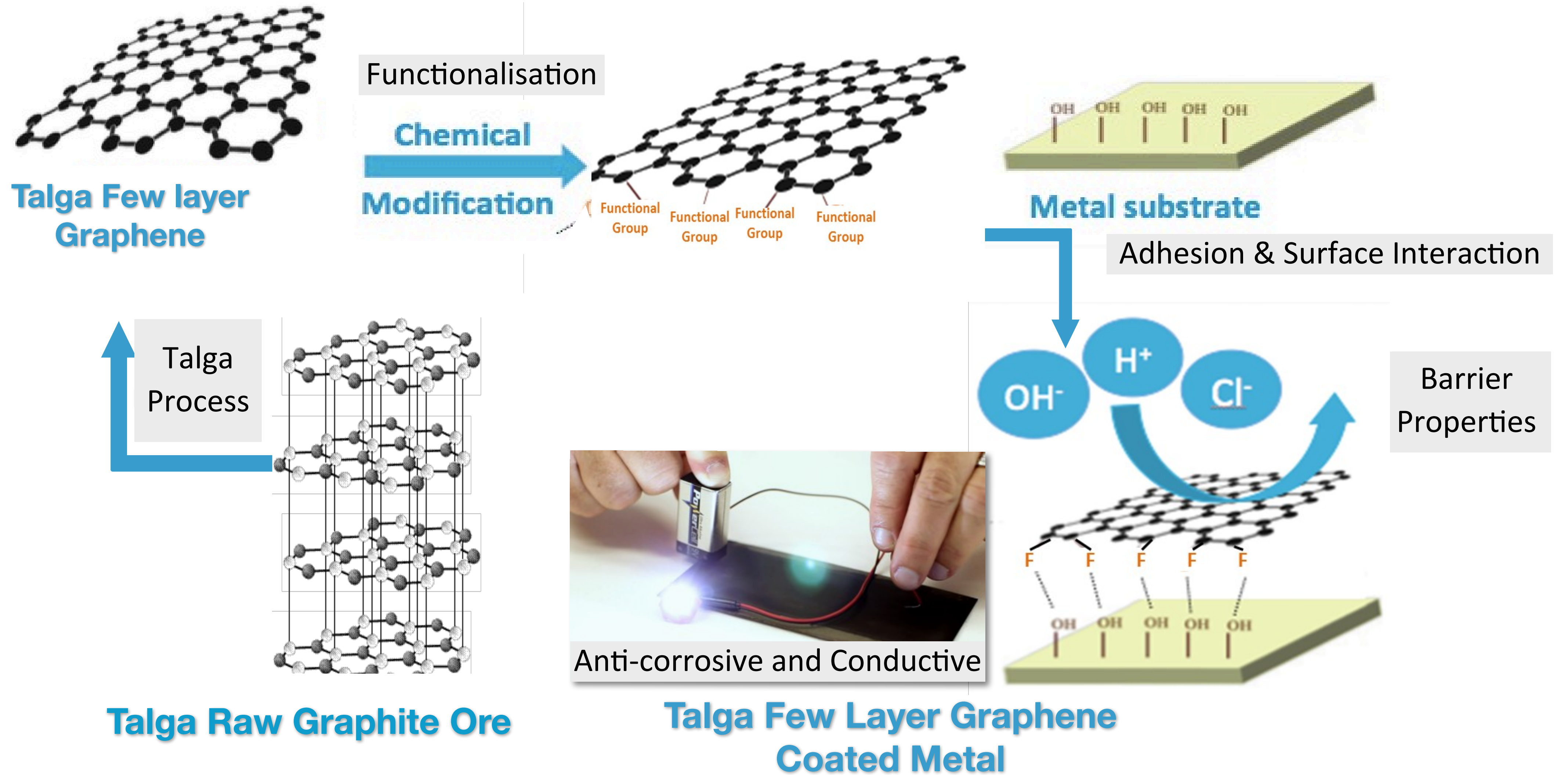
After 1,500hrs accelerated corrosion (salt spray)



COATING PRODUCTS - TALGA TECHNOLOGY



In ASTM-standard salt exposure tests Talga graphene formulation



COATINGS PRODUCT DEAL - CHEMETALL



Talga is advancing higher performance coatings with graphene as eco-friendly alternative to chromium, zinc and copper for giant global coatings market

- ▶ Joint Development Agreement (“JDA”) with **Chemetall**, a global business unit of **BASF** Coatings Division, to co-develop and commercialise graphene-enhanced coatings
- ▶ Aim for eco-friendly, high performance, corrosion resistant surface treatments (estimated addressable market size c. USD\$10.4B)

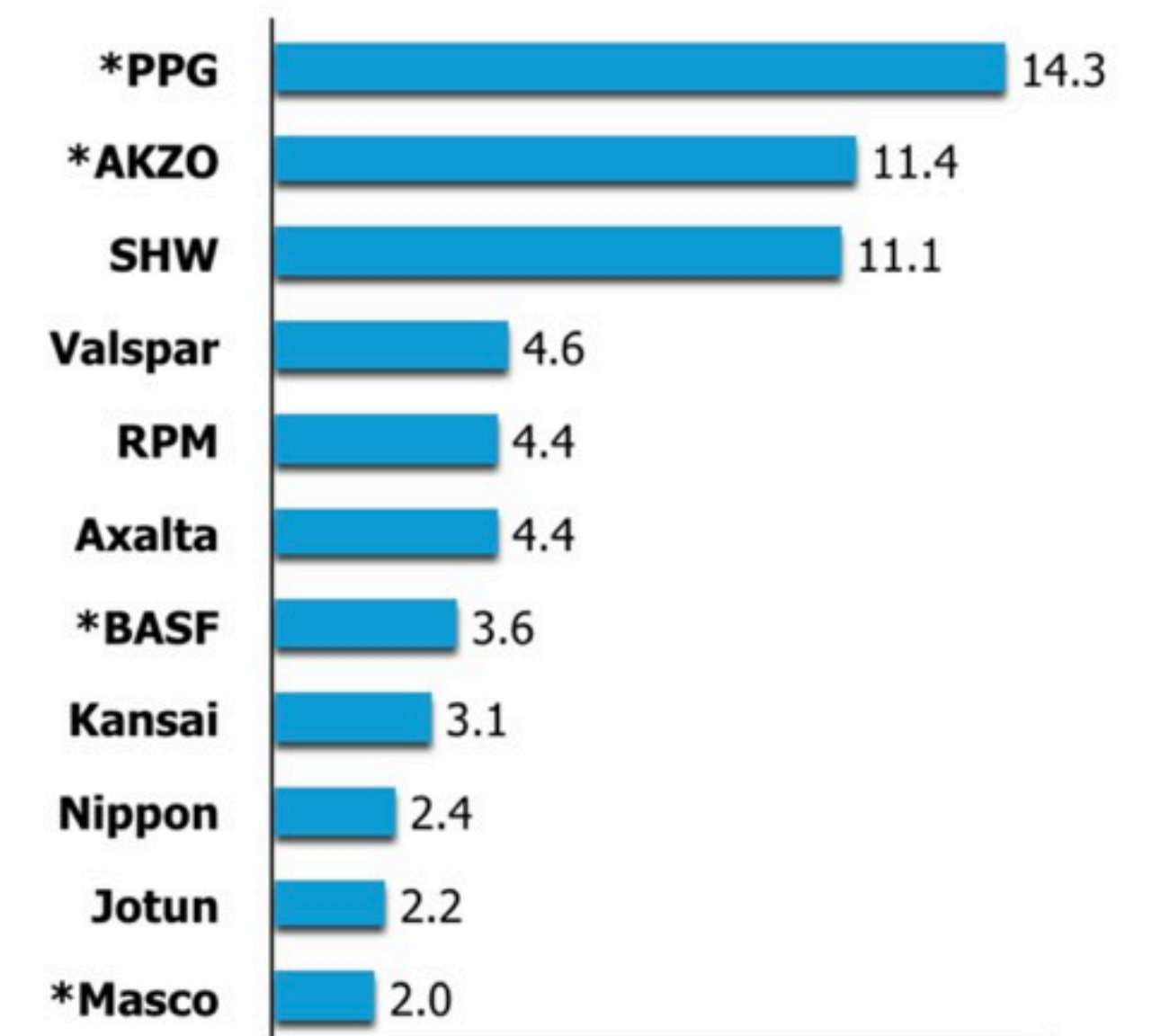


Disclosable terms to the Agreement:

- 2 year product development phase
- 5 year exclusive graphene supply arrangement

Paints and Coatings Market Leaders US\$/annum.

Global Leaders by Sales (\$Billion)



Source: Jan 2016 Valspar Investor Presentation & Company reports.
* Excludes non-coating sales

ENERGY PRODUCTS – LITHIUM ION BATTERIES



Talga is positioning to supply higher performance/lower cost conductive additives and materials for Li-ion, flow and alkaline batteries with more eco-friendly manufacturing

ROLL-TO-ROLL MANUFACTURE OF LI-ION BATTERY ELECTRODES



Global market

Li-ion market growing rapidly with government legislation and consumer trend to eco-friendly power and transport

Talga micrographite

and GNP's in Li-ion batteries requires less harmful processing steps

Targeting improved

Li-ion with less toxic eco-impacts by enabling water-based chemistry and lower manufacturing inputs

Industrial style

Li-ion 'pouch' cell testwork and commercial-style roll to roll anode formulations underway

Test programs

for new-gen Li-ion batteries to be pursued

Li-ion Anode Processing Steps

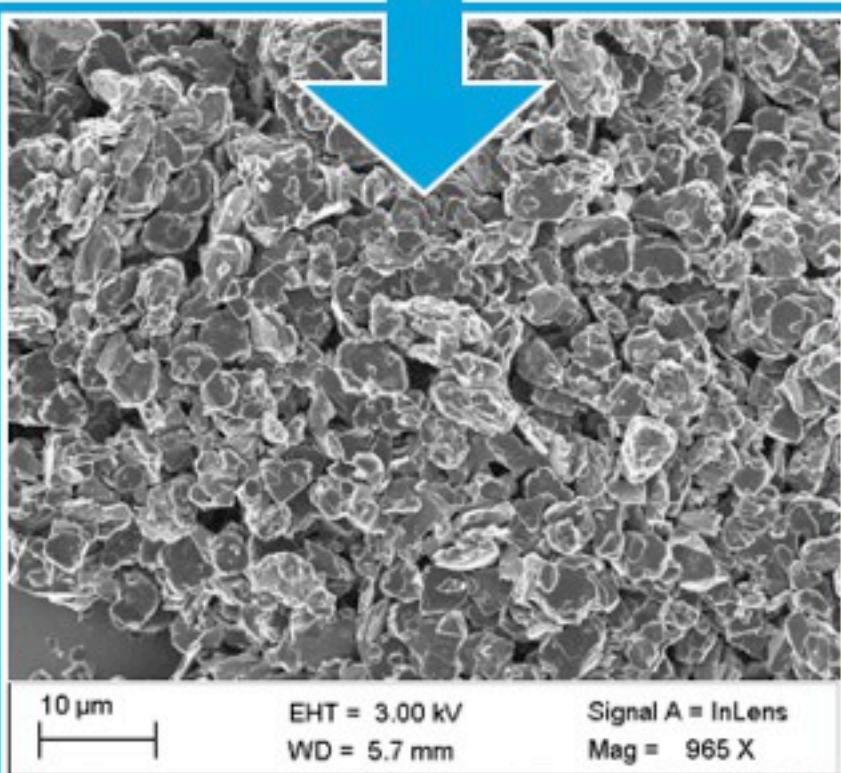
Talga Graphite

Exfoliate

Concentrate

Purify

Binder & Dispersant



Talga anode capacity
420 mAh/g

Flake Graphite

Crush

Grind

Concentrate

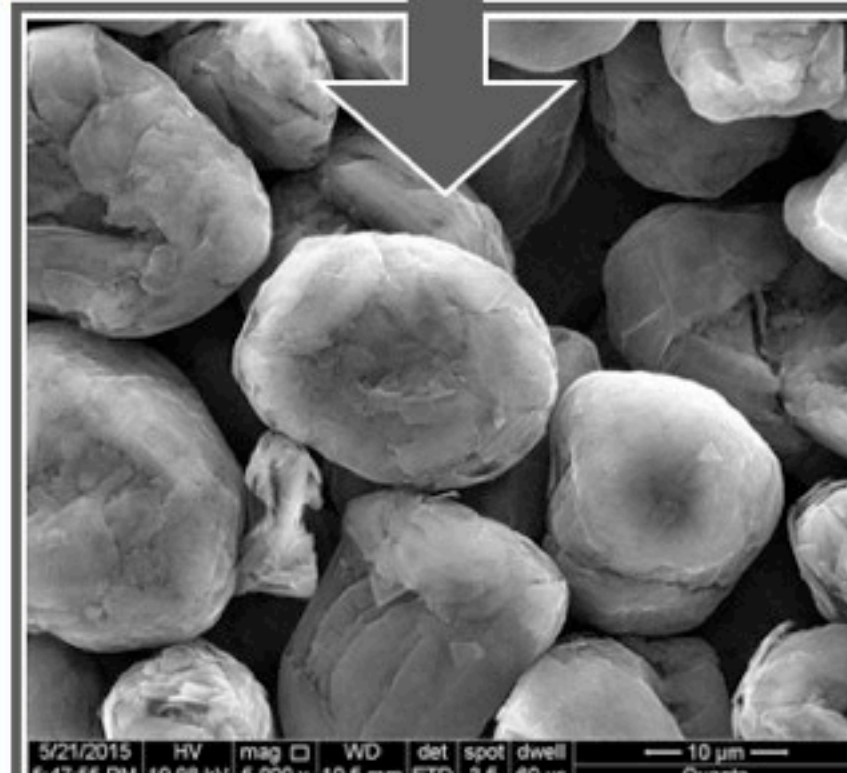
Micronise

Purify

Spheronise

Coating

Binder & Dispersant



Peer anode capacity
360 mAh/g

PROCESS ADVANTAGE - BATTERIES

Talga's patent pending technology liberates conductive material from raw graphite ore, skipping processing steps required by peers

higher performance with less manufacturing steps = lower eco-impact

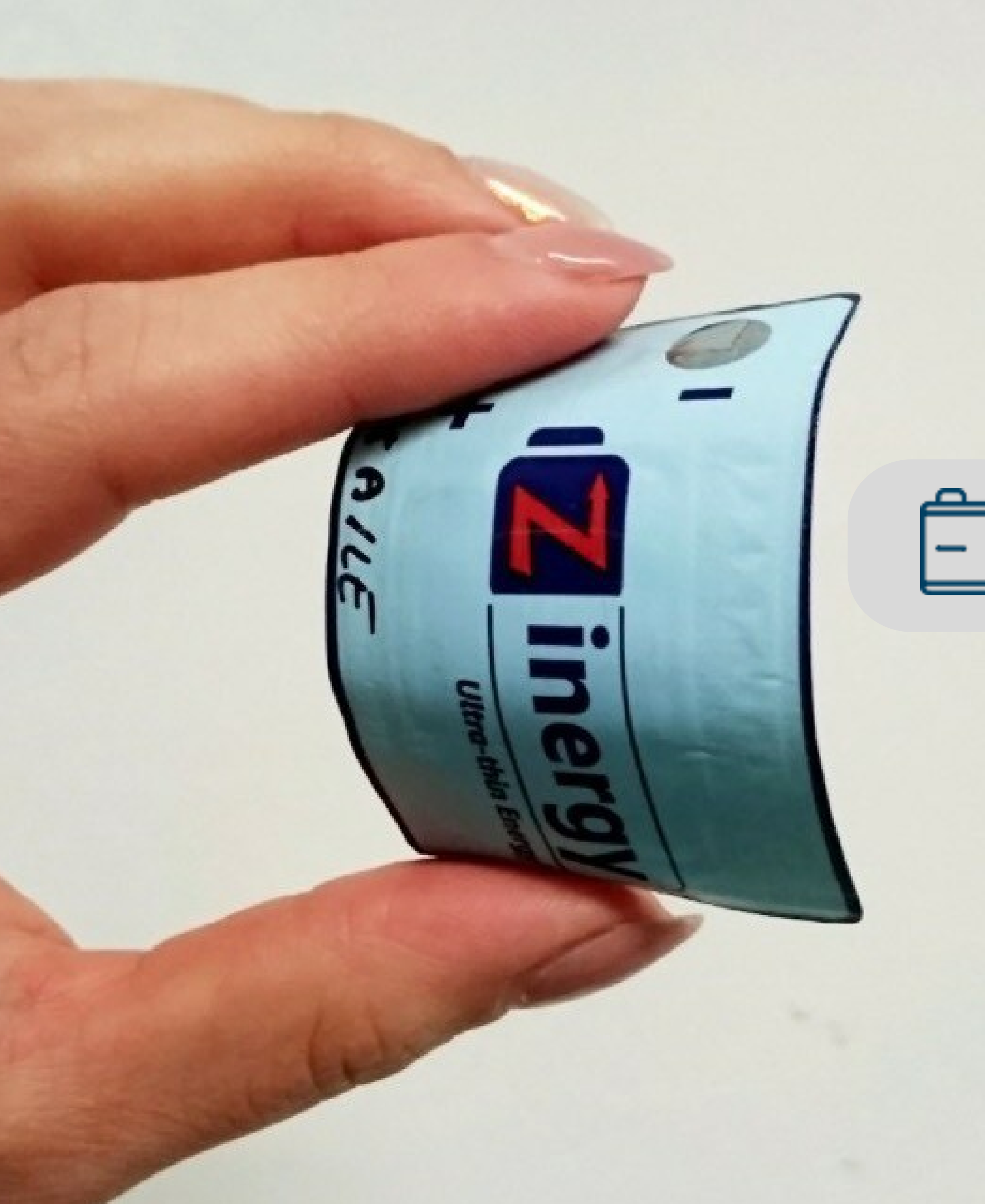


Unmilled Talga graphite shows promising results of 420mAh/g, higher capacity than graphite theoretical limit 372mAh/g

Excellent stability with 99.9% coulombic efficiency and low capacity loss (reversible capacity >99.5%)

Graphene is more conductive than graphite, enabling faster charging and longer life cycle, and will play a large role in batteries going forward.

Goldman Sachs estimate an Rmb6.3bn (US\$0.9bn) addressable market by 2025 for graphene in batteries



ENERGY PRODUCTS – PRINTED BATTERIES

Talga is co-developing supply of graphene conductive inks for electrodes in the world's thinnest, flexible printed batteries



ZINERGY PROTOTYPE
ULTRA-THIN FLEXIBLE BATTERY

Joint development agreement with Zinergy

The market for flexible, light weight,
and often disposable but eco-friendly batteries is growing rapidly

Flexible form and ultra-low weight,
smart packaging, portable electronics, wearables and sensors

The global thin film electronics market
estimated to be USD\$29.3 billion



Thermal concrete in underground power line application

CONSTRUCTION PRODUCTS - CONCRETE

Talga's successful trial of thermally conductive concrete shows promise with a fast growing and potentially bulk volume market



Graphene added to concrete enables electrical or thermal conductivity



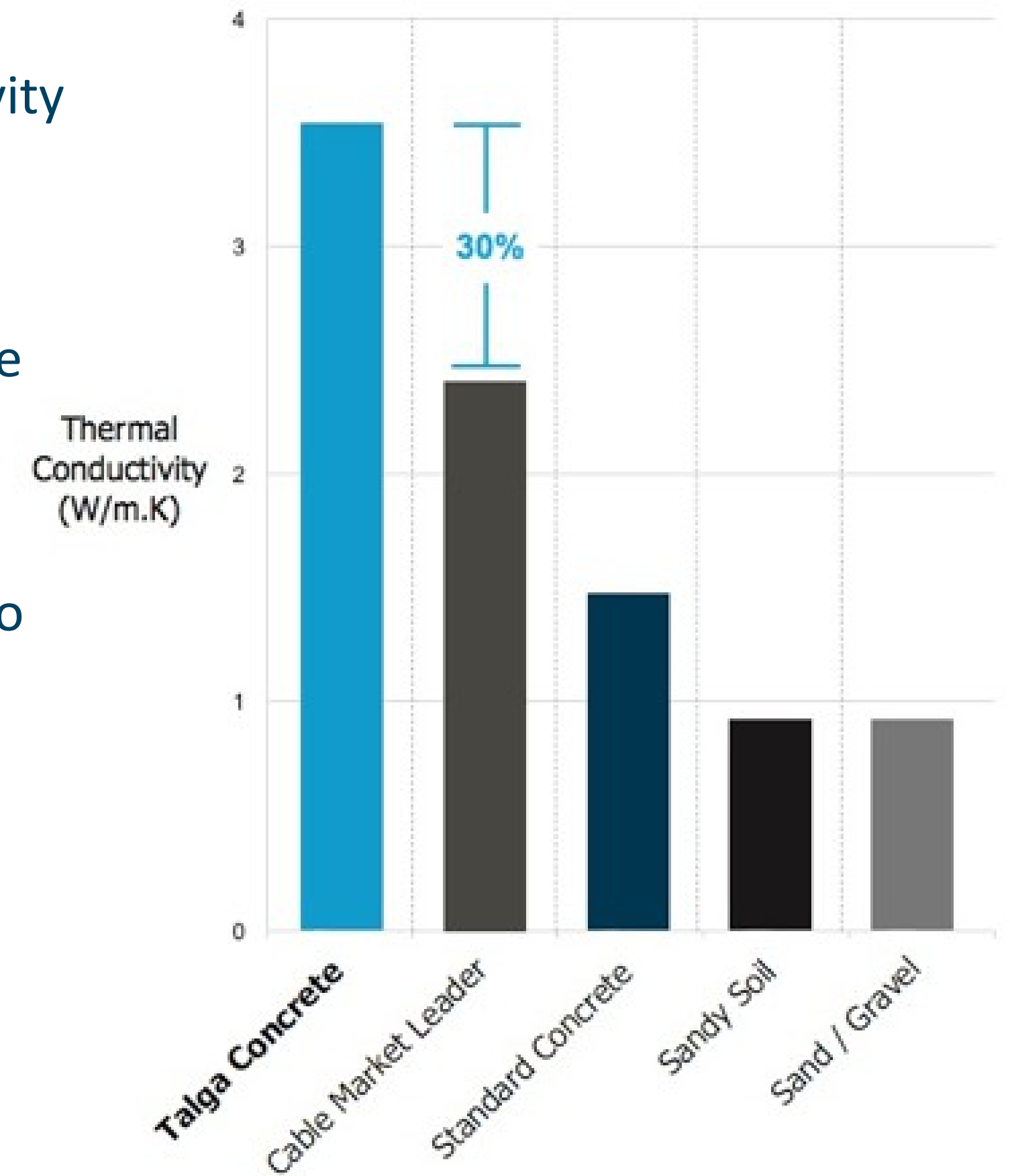
Applications: powerline heat dissipation, underfloor heating, ice-free road-bridge-tarmac areas



German government plans upgrades to >7,500 kilometres of high voltage electric power lines

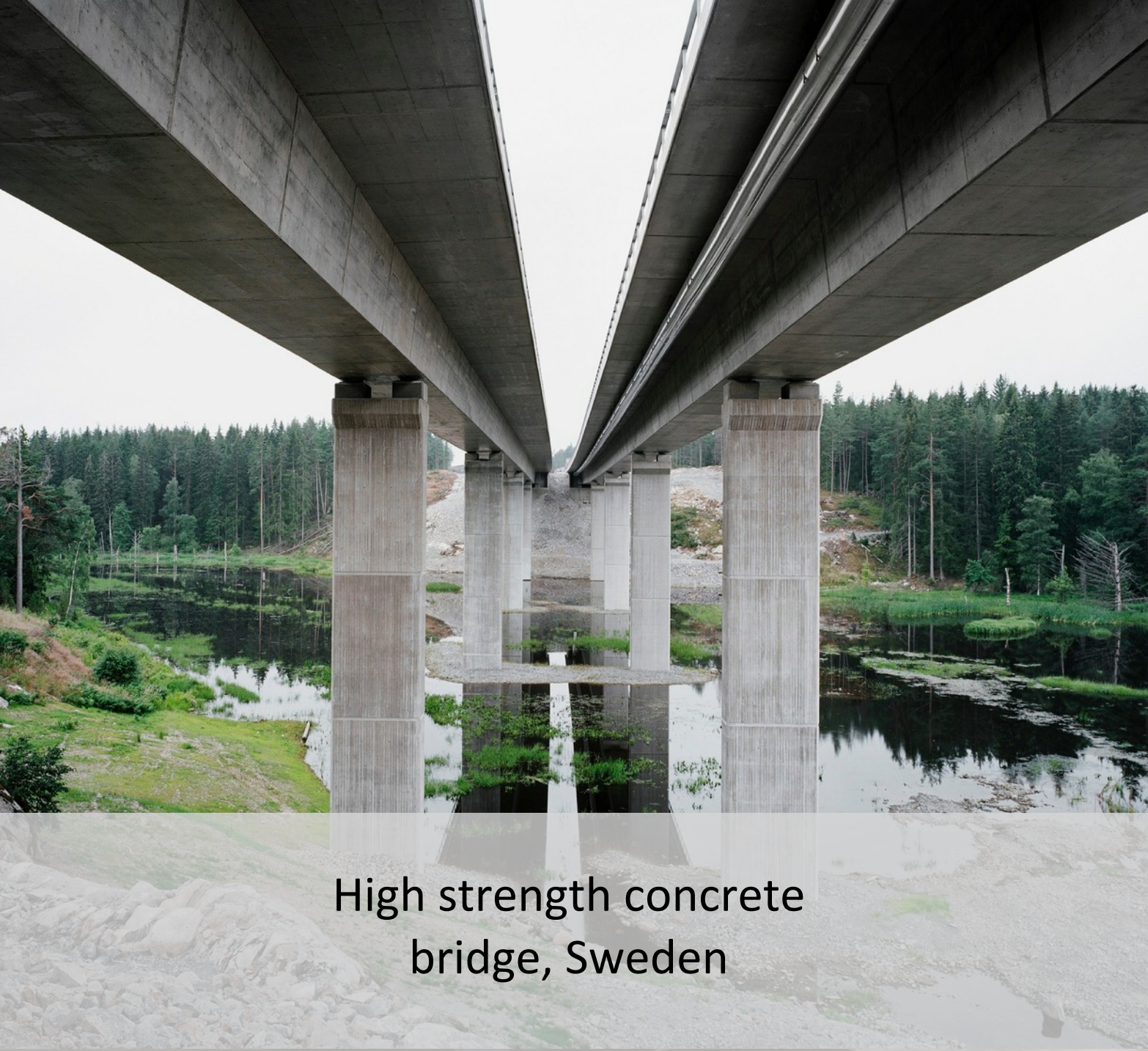


30% more thermal conductivity than market leader



CONSTRUCTION PRODUCTS - CONCRETE

High strength concrete



High strength concrete bridge, Sweden



Concrete graphene mix



Graphene added to concrete **improves strength**



Applications include high rise buildings, road and rail infrastructure

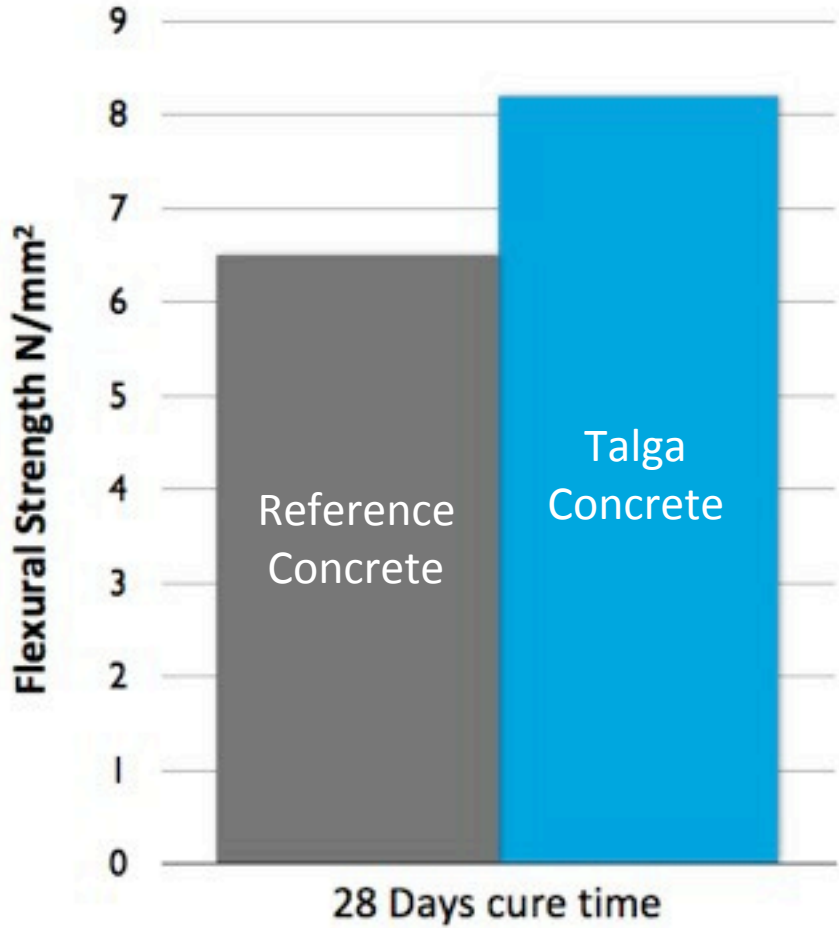


Urbanisation and requirements for lower volume/lower emissions is driving demand

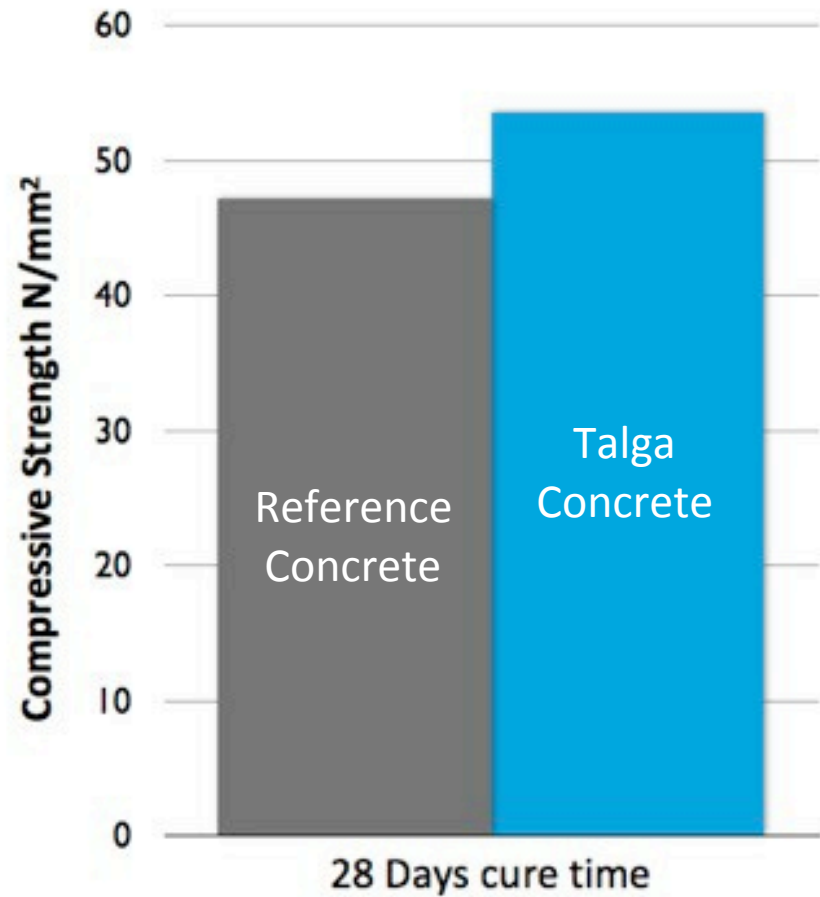


Strengthens concrete at **low loadings** so can be lower cost in some applications

26% INCREASE IN FLEXURAL STRENGTH
DIN 12 390-5



14% INCREASE IN COMPRESSIVE STRENGTH
DIN 12 390-3



COMPOSITES PRODUCTS

Stronger epoxy resins for carbon fibre composites also marine paint coatings



- ▶ Graphene additives are demonstrated to make epoxy resin systems stronger, lighter or more functional (conductive)
- ▶ Epoxy resins is used to make **carbon fibre composites**, a lightweight material widely used in aerospace, automotive and wind turbine sectors
- ▶ Current market looking for less weight (for less fuel use in planes) plus conductivity (for lightning protection, de-icing or EM shielding)
- ▶ **Anti-fouling marine coatings** market is looking for new epoxy based paint coatings amid growing environmental legislation against currently used toxic metals and chemicals
- ▶ Emerging markets in textiles, plastic and fibres for ‘wearable’ technologies & 3-D printing
- ▶ Talga prototype tests are underway

STRONGER, LIGHTER, FURTHER



Talga's opportunity to deploy graphene in EV's is larger than just batteries

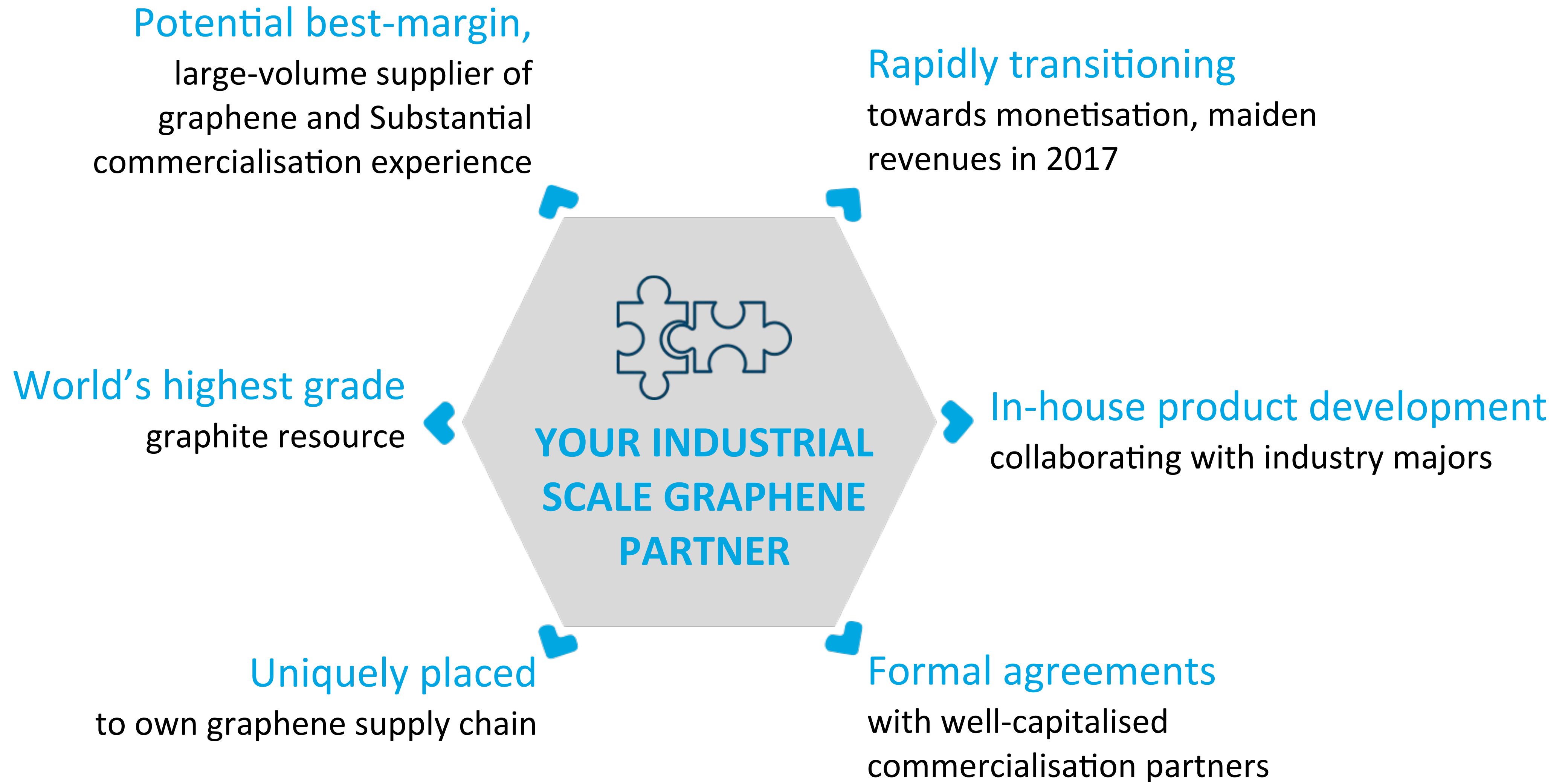
Lighter vehicles have increased range, a key point of both efficiency and marketing/sales



SUMMARY - TALGA OPPORTUNITY



Technology minerals company commercialising mass produced graphene and products



COMPANY DIRECTORY

Talga Resources Ltd has subsidiaries in UK, Sweden and Germany



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Talga Mining Pty Ltd Filial | Stockholm, Sweden

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Talga Advanced Materials GmbH | Rudolstadt, Germany

Prof.-Hermann-Klare-Str. 25, 07407 Rudolstadt, Germany



APPENDIX AND STATEMENTS



Competent Person's Statements

The information in this document that relates to exploration results is based on information compiled by Amanda Scott, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy (Membership No.990895). Amanda Scott is a full-time employee of Scott Geological AB. Amanda Scott has sufficient experience, which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which has been undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Amanda Scott consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

The information in this report that relates to Graphite Resource Estimation for the Vittangi Project is based on information compiled by Oliver Mapeto and reviewed by Albert Thamm. Both Mr Mapeto and Mr Thamm are consultants to the Company. Mr Mapeto is a Member of both the Australian Institute of Mining and Metallurgy (Membership No.306582) and Australian Institute of Geoscientists (Member No 5057) and MR Thamm (Member No 203217) is a Fellow Member of the AusIMM.

Both Mr Mapeto and Mr Thamm have sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this document and to the activity which both are undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("JORC Code"). Mr Mapeto and Mr Thamm consent to the inclusion in this report of the Matters based on this information in the form and context in which it appears.

The information in this report that relates to Exploration Targets is based on information compiled and reviewed by Mr Simon Coxhell, a consultant to the Company and a member of the Australian Institute of Mining and Metallurgy and Mr Mark Thompson, who is an employee of the Company and a member of the Australian Institute of Geoscientists. Mr Thompson and Mr Coxhell have sufficient experience which is relevant to the activity which is being undertaken to qualify as a "Competent Person" as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, mineral Resources and Ore Reserves" ("JORC Code"). Mr Thompson and Mr Coxhell consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Iron Ore Resource Estimation and Graphite Resource Estimation for the Jalkuen and Raitajärvi Projects is based on information compiled and reviewed by Mr Simon Coxhell. Mr Coxhell is a consultant to the Company and a member of the Australian Institute of Mining and Metallurgy. Mr Coxhell has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this document and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("JORC Code"). Mr Coxhell consents to the inclusion in this report of the Matters based on this information in the form and context in which it appears.

Cautionary Statement

Any data on the scoping study referred to in this report is based on low level technical and economic assessments, and is insufficient to support estimation and economic assessments, and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusion of the scoping study will be realised. The Company confirms that all material assumptions and technical parameters underpinning the scoping study results and projections in this release continue to apply and have not materially changed. The use of the word "ore" in the context of this report does not support the definition of 'Ore Reserves' as defined by the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. The word 'ore' is used in this report to give an indication of quality and quantity of mineralised material that would be fed to the processing plant and is not to assumed that 'ore' will provide assurance of an economic development case at this stage, or to provide certainty that the conclusion of the scoping study will be realised.

GRAPHITE JORC RESOURCES AND EXPLORATION TARGETS



Nunasvaara JORC (2012) Mineral Resource (17% Cg cut-off)

JORC 2012 Classification	Tonnes	Graphite (%Cg)
Indicated	10,700,000	25.7
Inferred	1,600,000	23.9
Total	12,300,000	25.5

Jalkunen JORC (2012) Mineral Resource (5% Cg cut-off)

JORC 2012 Classification	Tonnes	Graphite (%Cg)
Inferred	31,500,000	14.9

Raitajärvi JORC (2004) Mineral Resource¹ (5% Cg cut-off)

JORC 2004 Classification	Tonnes	Graphite (%Cg)
Indicated	3,400,000	7.3
Inferred	900,000	6.4
Total	4,300,000	7.1

Talga Graphite Exploration Targets² 0-100m Depth

Project	Exploration Target	Tonnes (0-100m Vertical Depth)		Graphite (% Cg)	
		Min.	Max.	Min.	Max.
Vittangi	Nunasvaara	62,400,000	93,600,000	20	30
	Kotajärvi	16,640,000	30,160,000	20	25
	Maltosrova	20,800,000	52,000,000	20	25
Jalkunen	Tiankijokki	2,600,000	5,200,000	15	25
	Nybrännan	5,200,000	10,400,000	20	30
	Suinavaara	2,600,000	5,720,000	15	25
	Lautakoski	26,000,000	52,000,000	15	25
	Subtotal	136,240,000	249,080,000	19	27
	Rounded Total	136,000,000	250,000,000	18	25

1 Note: This information was prepared and first disclosed under the JORC code 2004. It has not been updated since to comply with the JORC code 2012 on the basis that the information has not materially changed since it was last reported. The Company is not aware of any new information or data that materially affects the information included in the previous announcement and that all of the previous assumptions and technical parameters underpinning the estimates in the previous announcement have not materially changed.

2 Note: The Exploration Target is based on a number of assumptions and limitations with the potential grade and quantity being conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource Estimate in accordance with the JORC Code and it is uncertain if future exploration will result in the estimation of a Mineral Resource.