







Talga Resources Ltd Annual General Meeting

Perth, Australia
25 November 2016



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Introduction - what we do





Talga CTO Dr Siva Bohm with graphene dispersions at Talga Advanced Materials GmbH, Germany

- Talga is an **advanced materials** company that owns the **highest grade** graphite mineral resource in the world # and has developed an innovative **process** to make the **mass production** of quality **graphene** possible.
- Talga is a listed public company on the Australian Stock Exchange (**ASX:TLG**) with operations in Sweden, Germany and UK.
- Rapidly developing value-added product pipeline and IP.
- Talga is positioning to play a large role in the emerging trend towards low emission **energy** production/storage and a host of technology applications enabled by graphite and graphene.

Operations





Talga Resources Ltd talaa Australia - Corporate HQ



Part of Talga team at Phase 2 pilot plant commissioning in Rudolstadt, Germany

Talga Mining Pty Ltd Filial Sweden - graphite source

Talga Technologies Ltd UK - product development

> Talga Advanced Materials GmbH Germany - pilot process facility

Commercial Advantages



- Vertically integrated with in-house product expertise value-adding to raw materials
- Pilot plant operational & successfully scaling up
- **✓ Product pipeline** across multiple large technology and bulk sectors
- Process technology enables bulk high quality graphene production
- Low cost 'no crush/grind' & low enviro-impact process

Quodiucts **Highest grade** graphite Source resources in the world

ADVANTAGES

- Large and unique 'electrode' style ore deposits
- Top class jurisdiction Sweden



Annual Review - Operations



This financial year we have:

Test Mined

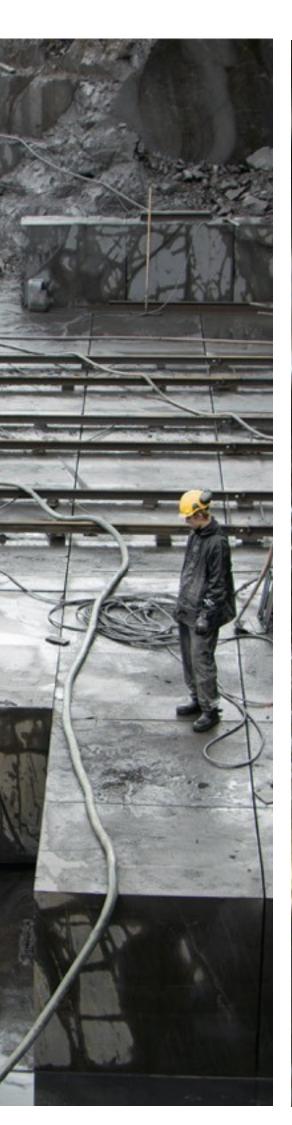
- ▶ Produced ~5,000 tonnes low cost ore 'electrodes'
- Opened up our ore bodies
- Expanded resources

Built and Operated a Pilot Plant

- Provided new source graphene and micrographite to market
- Demonstrated potential supply scale to customers
- Developed key insights towards full scale project

Produced graphene and graphite products

- Validated in-house expertise with peer-reviewed test results
- Gained market knowledge and customers across target markets







Annual Review - Commercial & Corporate





This financial year we have:

- ► Raised ~ \$13.2m capital including rights issue and options exercise (ASX: TLGOA now \$0.08)
- ▶ Introduced European cornerstone and strategic investors
- Opened up access to future funding/support
- Strengthened board and management with key appointments;
 - Manager Europe Operations Martin Phillips (ex-Commercial Manager Iluka Resources)
 - Chief Technology Officer Dr Siva Bohm (ex-Tata)
 - Manager R&D Dr Sai Shivareddy (ex-Cambridge Graphene Centre)
 - Board addition Steve Lowe (ex-Chairman Sirius Resources)
- Setup potential sales with value add products & raw materials
- Maturing commercial relationships (watch this space!)

Corporate Snapshot



Capitalisation Summary 23 Nov 2016 (AUD\$)	
Shares on issue TLG	181.9M
Listed Options TLGOA (\$0.45 : 31 Dec 18)	44.9M
Unlisted Options ¹	34.7M
Market Capitalisation (undiluted @ \$0.26)	\$47M

Board
Managing Director - Mark Thompson
Chairman - Keith Coughlan
Non-Executive - Grant Mooney
Non-Executive - Stephen Lowe

Cash end Sept 2016 ~\$10.3 million. Nil Debt.

Top 5 Shareholders ²	
Smedvig G P Ltd	11.3%
Lateral Minerals Pty Ltd (M.Thompson)	7.8%
Kamberg Investments Ltd	3.3%
Yandal Investments Pty Ltd (M. Creasy)	3.0%
Pelmer Securities S A	2.5%



Board and Management





Mark Thompson

Managing Director

+25 years international industry experience in minerals-mining management. Member of the Australian Institute of Geoscientists and the Society of Economic Geologists, guest Professor in Mineral Exploration Technology at Chengdu University of Technology and the Southwest University of Science and Technology in China. Mr Thompson currently serves as a Non-Executive Director of Phosphate Australia Ltd.



Keith Coughlan *Non-Executive Chairman*

+30 years' experience in stockbroking/funds management. Largely involved in the funding and promoting of resource companies listed on the ASX, AIM and TSX. Advised various companies on the identification/acquisition of resource projects and previously employed by one of Australia's then largest funds management organisations.

Mr Coughlan is currently the managing director of ASX listed European Metals Holdings Limited.



Grant Mooney *Non-Executive Director*

Mr Mooney has extensive experience in resources and technology markets. Has served as Director and Company Secretary to several ASX listed companies including Director of renewable energy developer, Carnegie Wave Energy Ltd, Barra Resources Ltd, Phosphate Australia Ltd and Wild Acre Metals Limited. Mr Mooney is a member of the Institute of Chartered Accountants Australia.



Stephen Lowe
Non-Executive Director

Mr Lowe's background is in business management and taxation and he has over 18 years' experience consulting to a range of corporate and high wealth clients. Mr Lowe is currently a non-executive director of Corizon Resources Ltd and Windward Resources Ltd and a former Chairman and non-executive director of ASX 200 company Sirius Resources NL. Mr Lowe is a Fellow of the Taxation Institute of Australia and a Member of the Australian Institute of Company Directors.

Products Strategy



- Produce value added graphene products to complement supply of raw graphene & graphite
- Pursuit of revenue prior to full-scale production through licensing and royalties
 - plus sale of raw materials
- Initially aim to replace additives in existing products with better performing ones ('new products' not required)

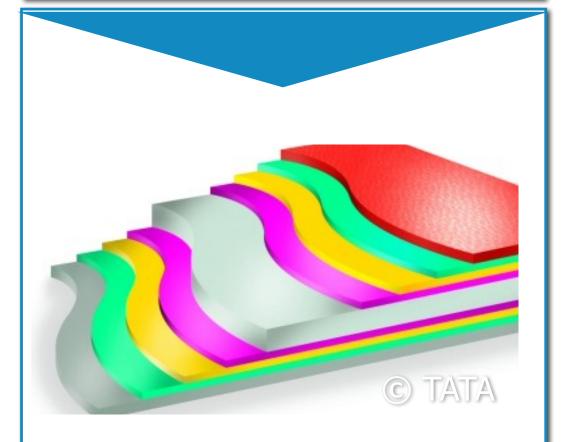


Test samples of TalpheneTM graphene dispersion product for customer

Product - Sector Targets



Coatings



Corrosion Protection

Market Size: \$11B (2013)

- Anti-corrosion & antifouling coatings
- Electric and thermally conductive inks
- Battery and fuel cell coatings
- Current market 40Mt/a

Energy



Batteries & Membranes

Market Size: \$24B Batteries, \$17B Membranes

- Li-ion batteries
- Flow batteries
- Fuel cells
- Solar panels
- Printable batteries and circuits

Conductives



Conductive Ink

Market Size: \$18B (2015)

- Flexible conductive plastics
- Stronger, lighter plastics and carbon fibre materials
- 3D printing inks

Construction



Concrete

Market Size: \$450B (2012)

- Lighter, stronger cement
- Higher performance insulation materials
- Functional (electrical or thermally conductive) glass and building materials

Current Collaborations









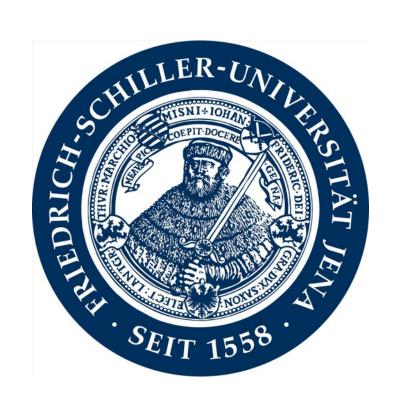






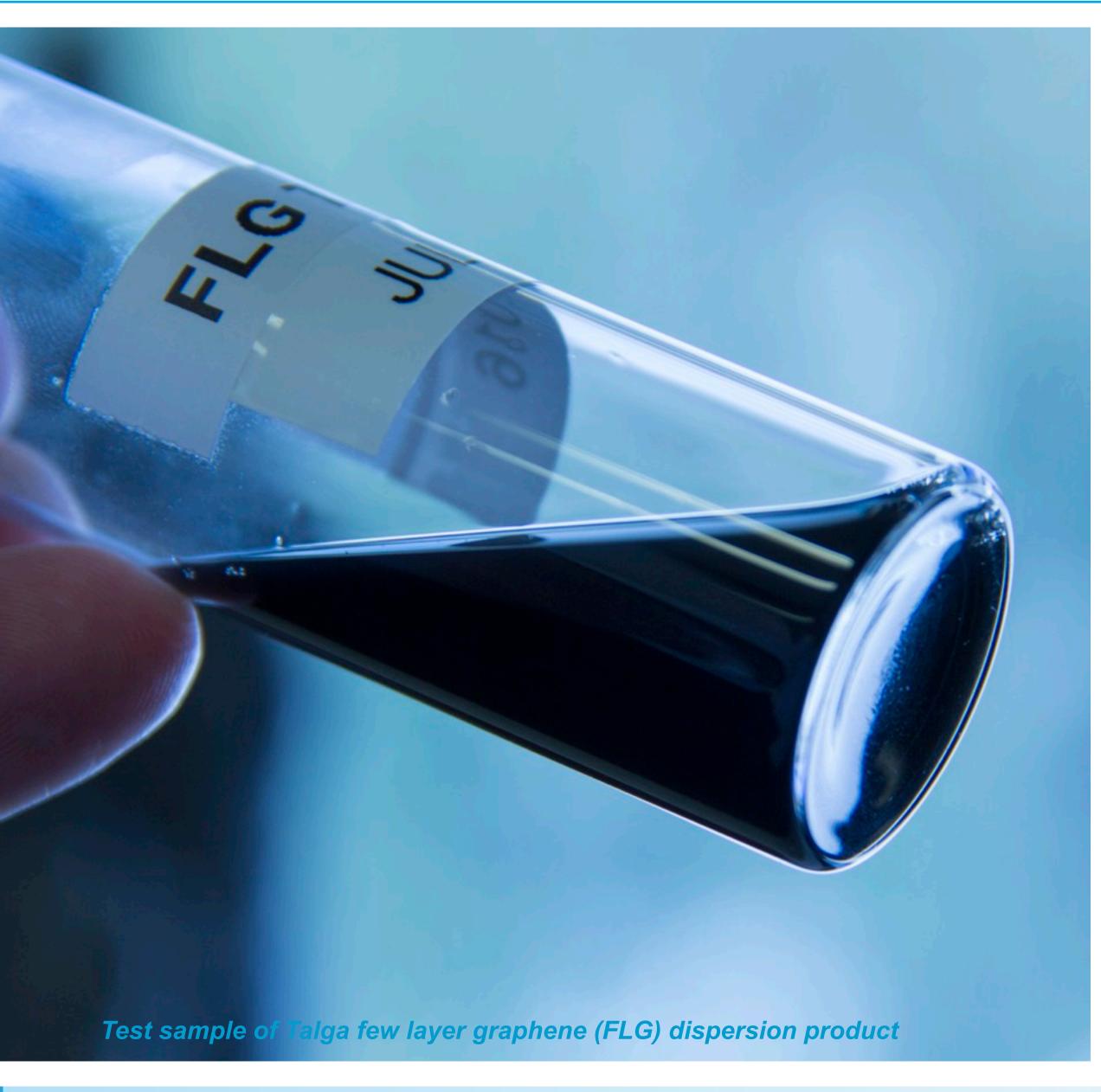






Where Talga 'Fits In'

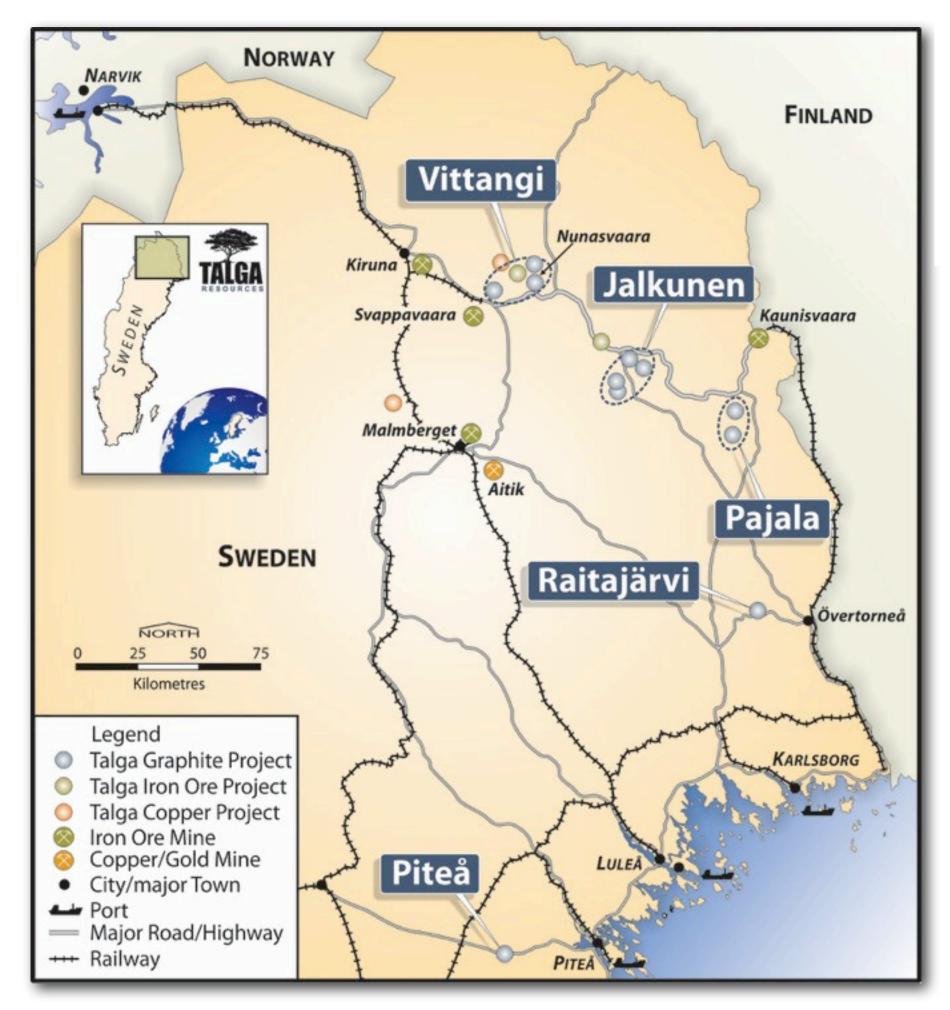




- Products enhanced with graphene & micrographite are being used now (not distant possibility) - no need to re-tool manufacturing lines in target products
- ▶ Real world products with addressable markets
- Aim to remove the **supply volume** and **pricing** bottleneck to enable rapid industry uptake
- Disrupt graphene market even during pilot plant phases

Source - Sweden





- **100% ownership** of **five** graphite projects in Sweden containing **three resources and over 25 deposits**
- Full range of graphite flake sizes from micro to jumbo flake
- Current 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

Current 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.

Source - Vittangi Project Trial Mine 2016





- Innovative graphite ore mining technique
- Extracts ore as direct use "electrodes"
- No 'drill and blast' of ore = less dust and noise/ minimise environmental impact
- Trial of larger, tailor-made and automated ore block cutting equipment successful

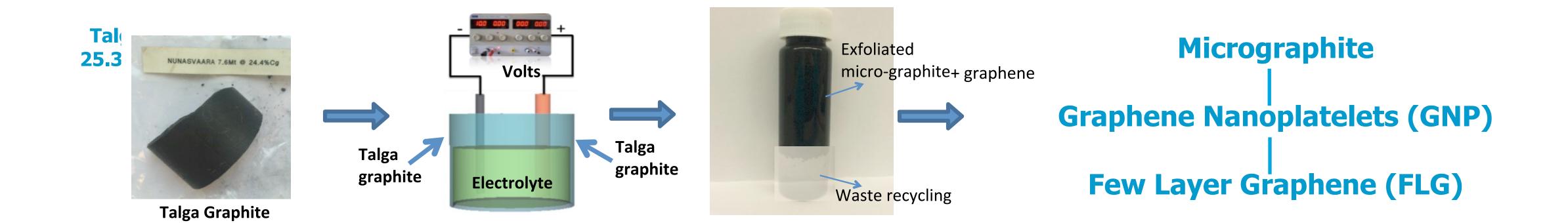
Source - Vittangi Project Trial Mine 2016





Process - Advantages

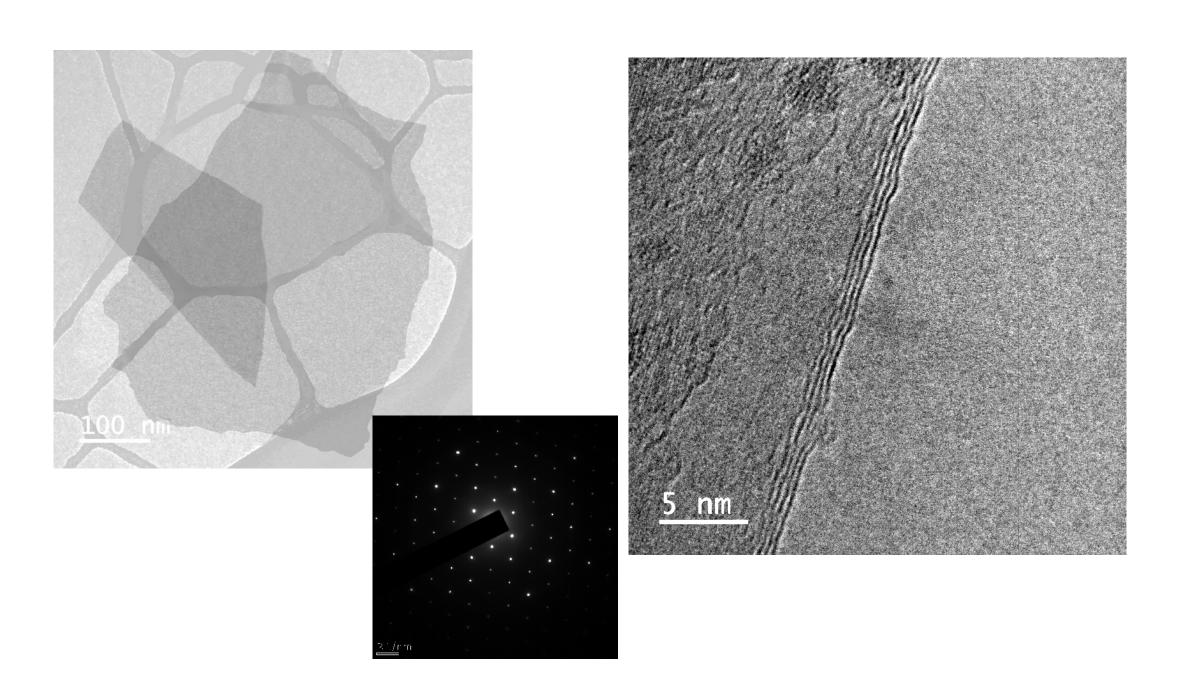




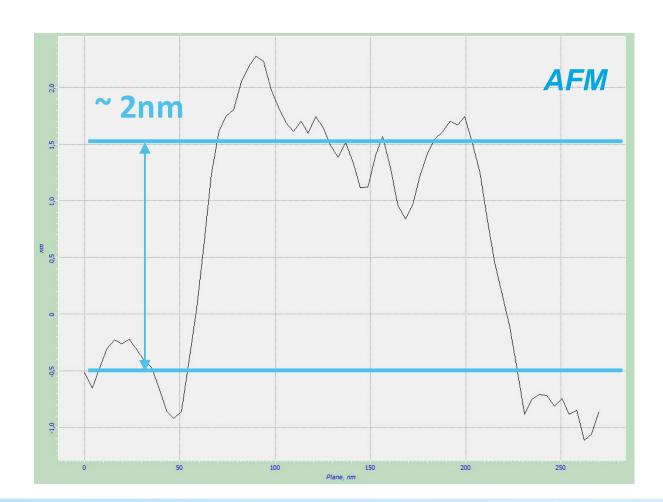
- Process liberates graphene and micrographite directly from raw ore
- Requires no crushing, no grinding, no jet milling
- Makes ultrafine and ultrathin size particles, a type of material not previously available economically at this scale
- Lowers energy, costs and emissions of graphene production
- Higher performance in applications

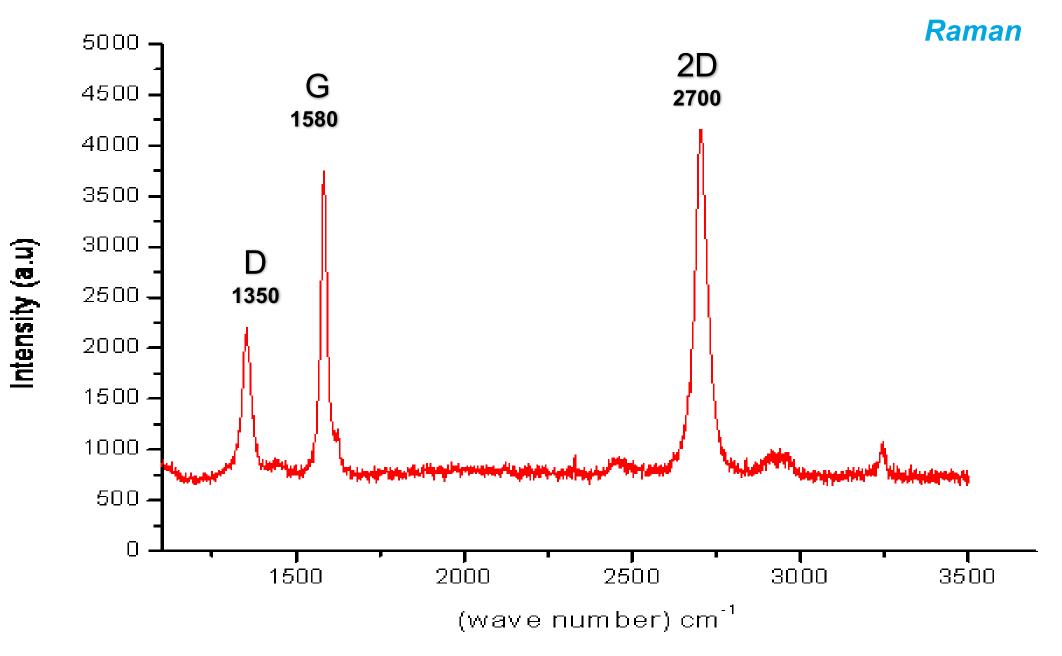
Product - TalpheneTM High Quality Graphene





HR-TEM and other tests confirm high quality, 1-4 layer graphene.

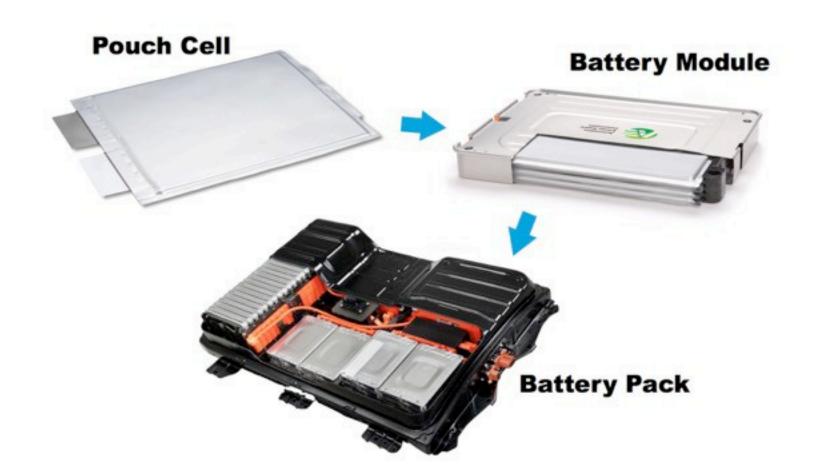




Raman spectrum shows a high quality graphene as indicated by the very symmetrical 2D peak with a lorentzian profile centred at 2692 cm⁻¹. Note the higher 2D peak intensity compared to the G peak for LPE graphene.

Products - Energy: Li-ion Batteries







Talga Li-ion anode preparation

- Talga can produce graphite for Li-ion battery anodes:
 No grinding, micronising and shaping costs
- Recent tests support previous **breakthrough results** (ASX:TLG 17 Feb 2016)
- Results show excellent stability and greater than 99.7% efficiency without capacity fade
- Tests underway on larger scale programs at EIC Warwick UK and with battery manufacturer in USA
- Data supports commencing industrial Li-ion 'pouch' cell testwork and commercial-style roll to roll anode formulations

See ASX:TLG 10 Oct 2016

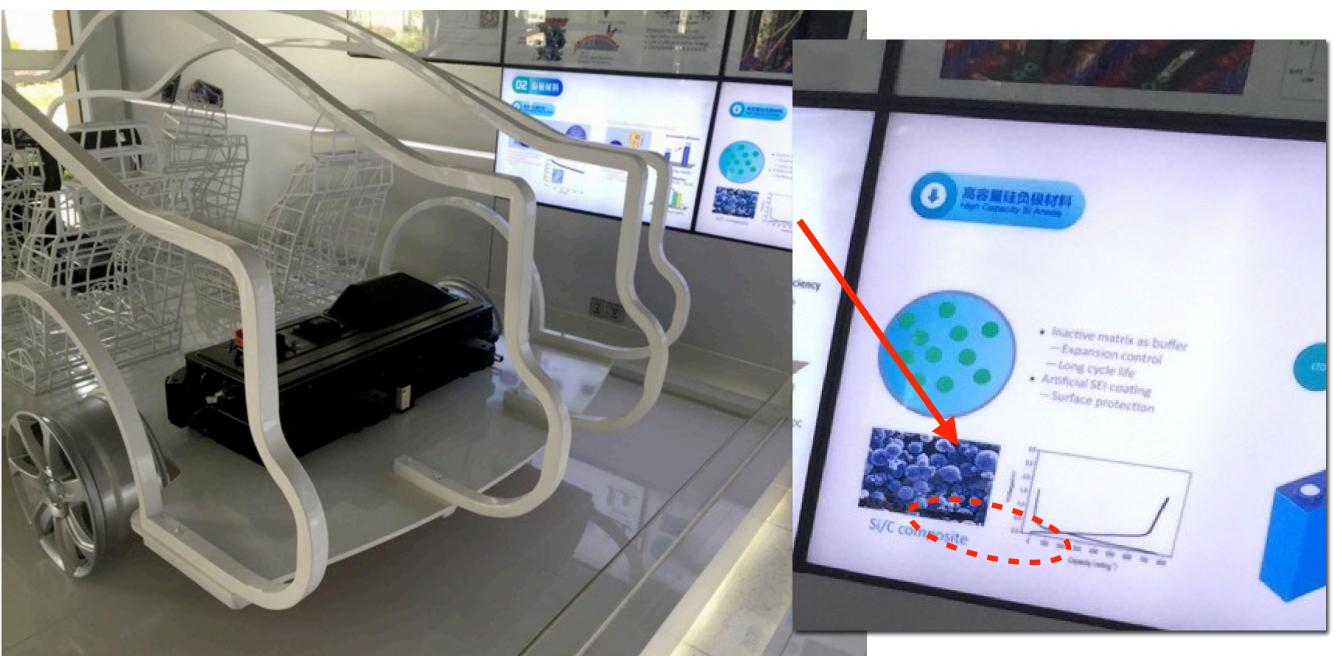
Products - Energy: Battery technology



Live-in factory facilities of global leading Li-ion battery manufacturer, China

- Graphene as an additive can improve charging speed, capacity and other performance criteria.
- Graphene is more conductive than graphite so suits **current** and **emerging** battery technologies:
 - Silicon-graphene in Li-ion
 - Li-Sulphur
 - Li-Aluminium
 - Li-Air
 - Flow batteries
 - Printable batteries
- Major battery makers are testing and preparing the next generation materials no technology trap





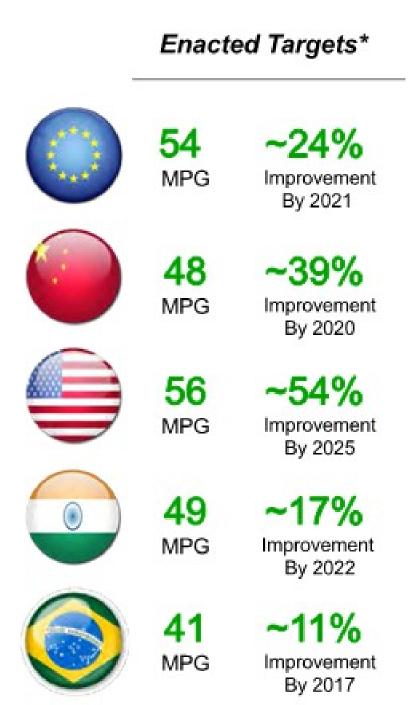
Silicon-graphene anode technology advertised as part of development

Product - Energy, Coatings, Conductives



- Automotive emission regulations becoming even tougher
- Supply of raw material crucial to meeting objectives
- Driving both 'Electrification' and 'Lightweighting' focus
- Sizeable market for graphene applications across automotive material chain including bodies, wiring, fluids, tires and coatings





Product - Energy, Coatings, Conductives



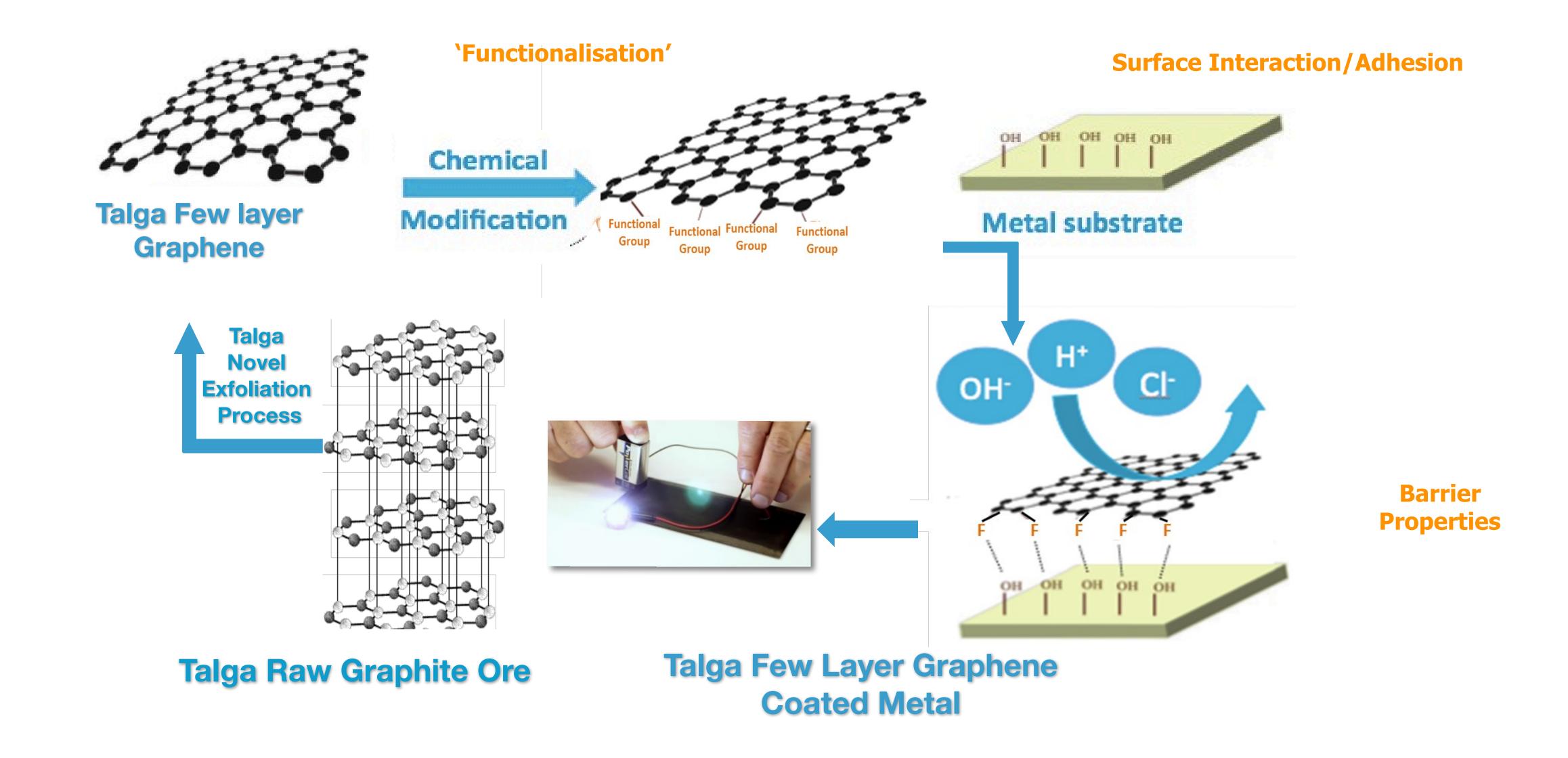
Graphene produces opportunity to deploy our products more widely



Source: Johnson Controls 22

Product - Coatings

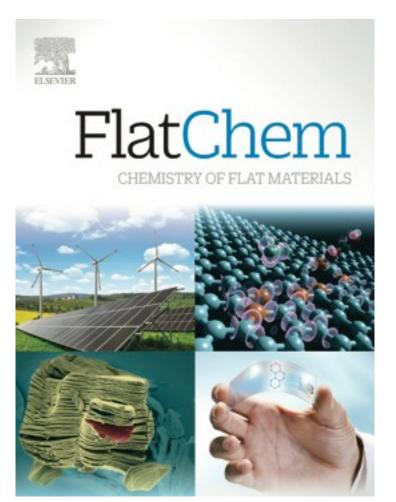




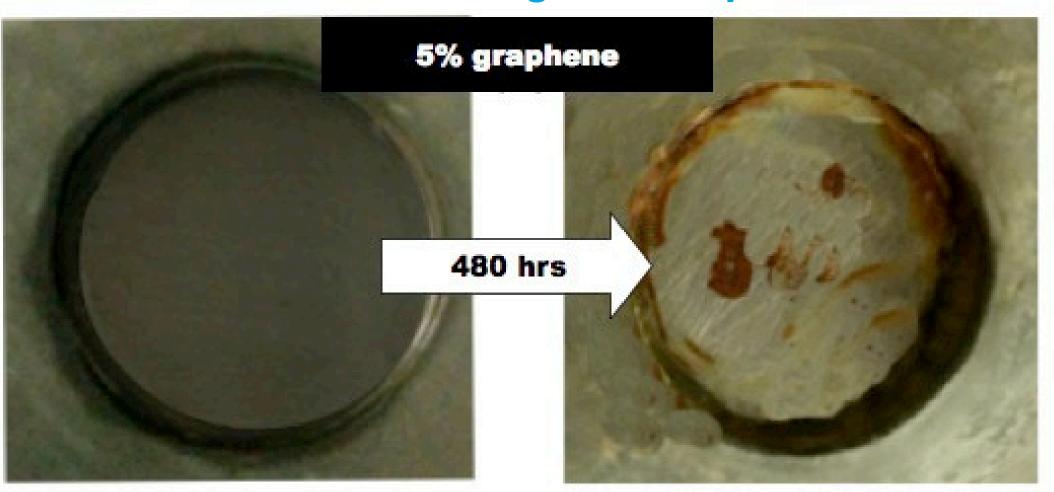
Product - Coatings

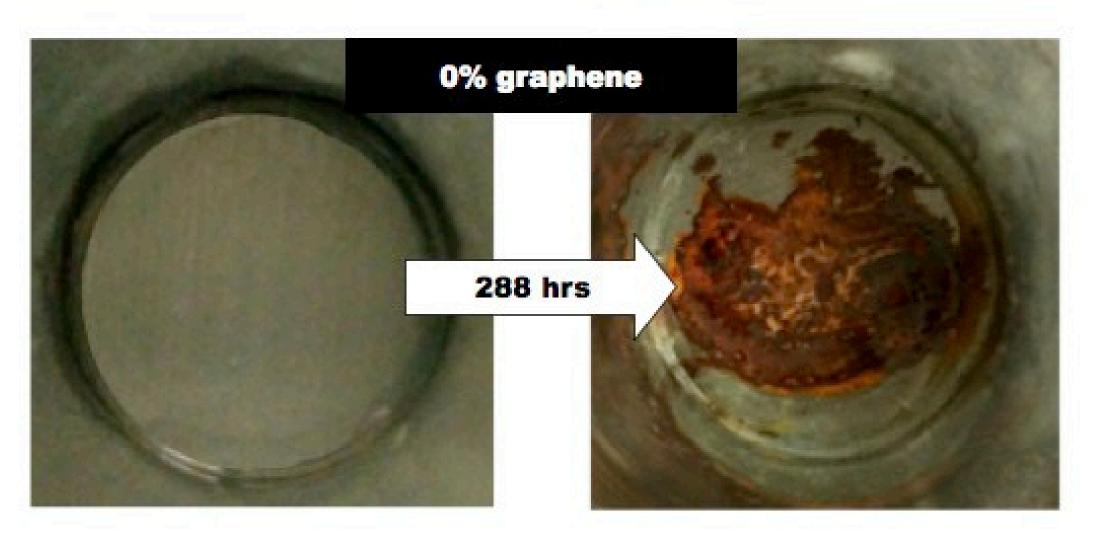


- ► Talga functionalised graphene "Talphene" anti corrosion coating **peer-review** Corrosion Evaluation
- Results show coating steel with Talga's graphene significantly increases corrosion **protection** by up to 74%
- Validates global potential of Talga products for large volume coatings sector



TLG Graphene significantly reduces corrosion over longer time span



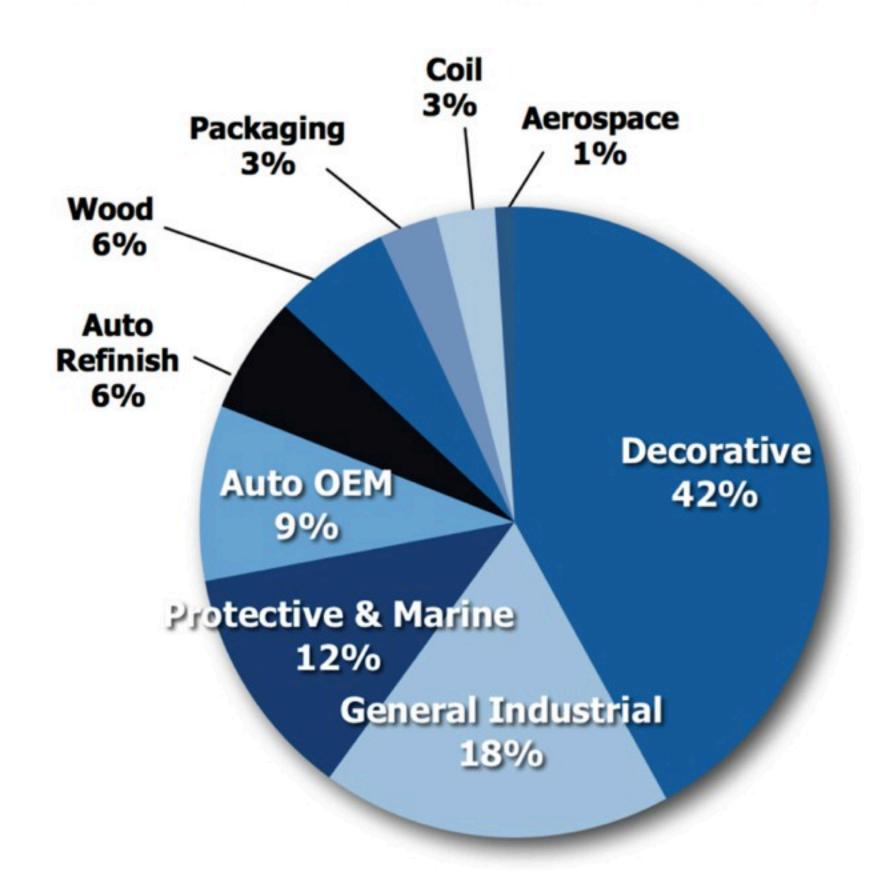


Product - Coatings market



Fig 1. Paints and Coatings Global Market US\$/annum.

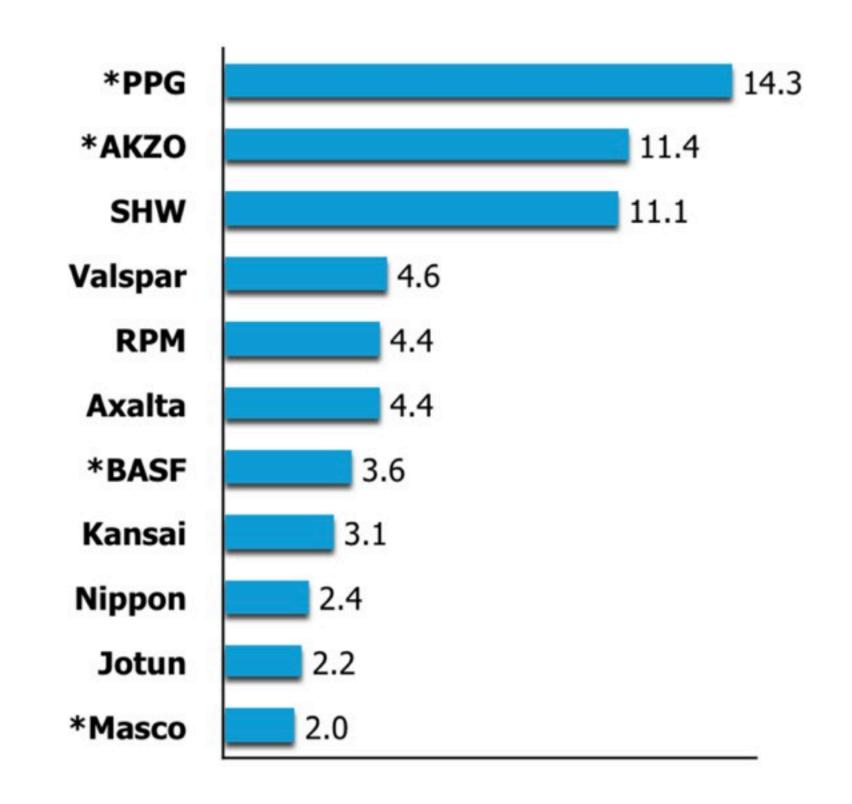
Total Paints and Coatings Market: \$120 Billion



Source: Jan 2016 Valspar Investor Presentation after 2013 Orr & Boss, Kusumgar, Nerlifi & Growney

Fig 2. Paints and Coatings Market Leaders US\$/annum.

Global Leaders by Sales (\$Billion)



Source: Jan 2016 Valspar Investor Presentation & Company reports.

* Excludes non-coating sales

Product - Conductives

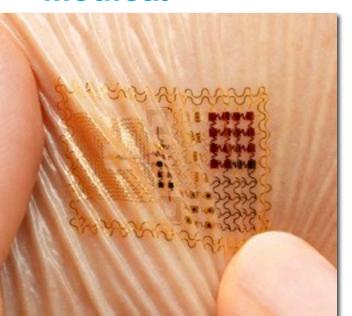


Printed conductive ink - PV Panels



Packaging Medical





Automotive



- Current conductive ink market relies on nano-silver and carbon black which are high cost
- Demand for silver in solar industry **78 million ounces** in 2015, **up 23%** over 2014*
- Graphene conductive ink can be lower cost and higher performing in some applications
 - Talga is developing a conductive ink targeting these markets in addition to making hybrid conductive polymers (plastic) to replace metal wiring in EV's, increasing range and performance
 - Preliminary tests with industry **promising**, expanded programs being scoped.

Product - Conductives





Municipal level road heating installation



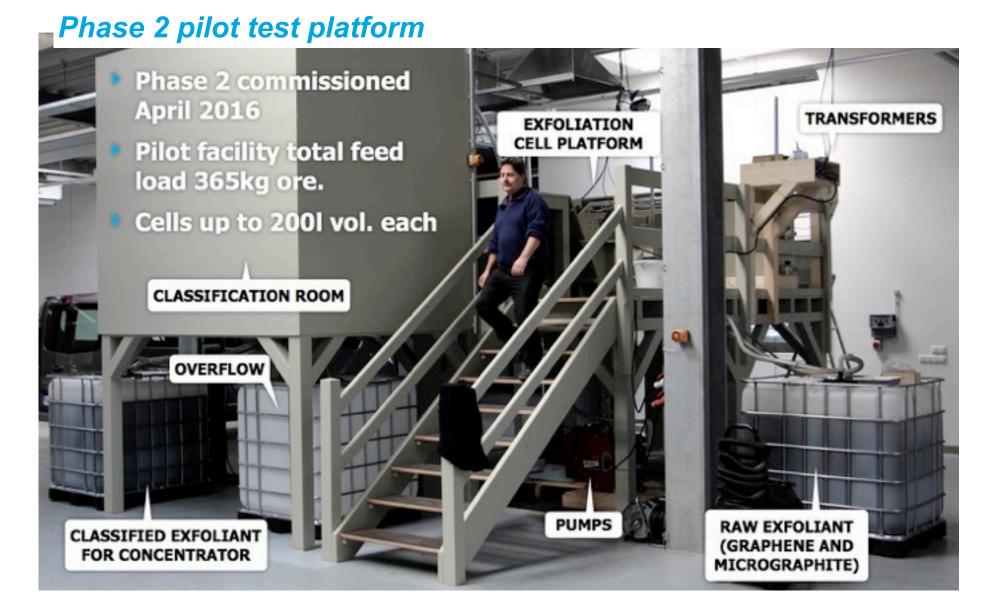
Domestic driveway heating installation

- Graphene additives can make concrete more electrically and thermally conductive
- Low voltage electric current can then warm the material without the need for high cost installation and high maintenance water-tubes and wired systems
- Large volume markets exist for ice and snow-free roads/ rail crossings, bridges, footpaths, outdoor stairs and airport aprons as well as underfloor heating and driveways
- Alternate markets exist for high performance concrete with increased **strength** similar to carbon nanotubes (eg, Edencrete) but using graphene oxide

Pilot Test Plant Expansion



- Pilot process test-work well advanced
- 3 phases to upscaling process
 - Phase 2 just commissioned
- High quality graphene output confirmed
- ▶ ~76% of input carbon converted to graphene
- Capacity scale up continues towards Phase 3
- Product outputs used to supply product feed, prototypes and customer samples



Portion of graphene coating product for customer test program, Talga Advanced Materials GmbH



Underway! Upcoming Catalysts





Drilling results and resource upgrade

Commercial partnerships

Industry test results

Product prototypes and patents

Pilot facility scale up

Feasibility/ Permitting advances Test revenue opportunities

Commercialise non-core assets (including cobalt and aold)

Appendix and Statements



References

- #) see http://www.techmetalsresearch.com/metrics-indices/tmr-advanced-graphite-projects-index/
- * see Industrial Minerals Natural Graphite report 2012, unpublished internal reports for Talga, and Scoping Study released to ASX 9 October 2014.
- NB) any data not specifically referenced is based on personal communications with industry participants where appropriate and/or unpublished technical research.

Cautionary Statement

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.

Competent Person's Statement

The information in this report that relates to Exploration Results and 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 Resource Estimation 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.

Graphene to Graphite Market on a Slide



PRODUCTS AND APPLICATIONS

GRAPHENE

vFLG = Very Few Layer Graphene (1-3 sheets)

Flexible electronics, Water membranes, Bio-tech

FLG = Few Layer Graphene (2-5 sheets)

Sensors, Conductive ink, Li-Air batteries

MLG = Multilayer Graphene (3-10 sheets)

Functional coatings, Composites, Plastics

GNP = Graphene Nano Platelets (10-150 sheets)

Functional coatings, Fuel cells, Cement and road additives

GRAPHITE

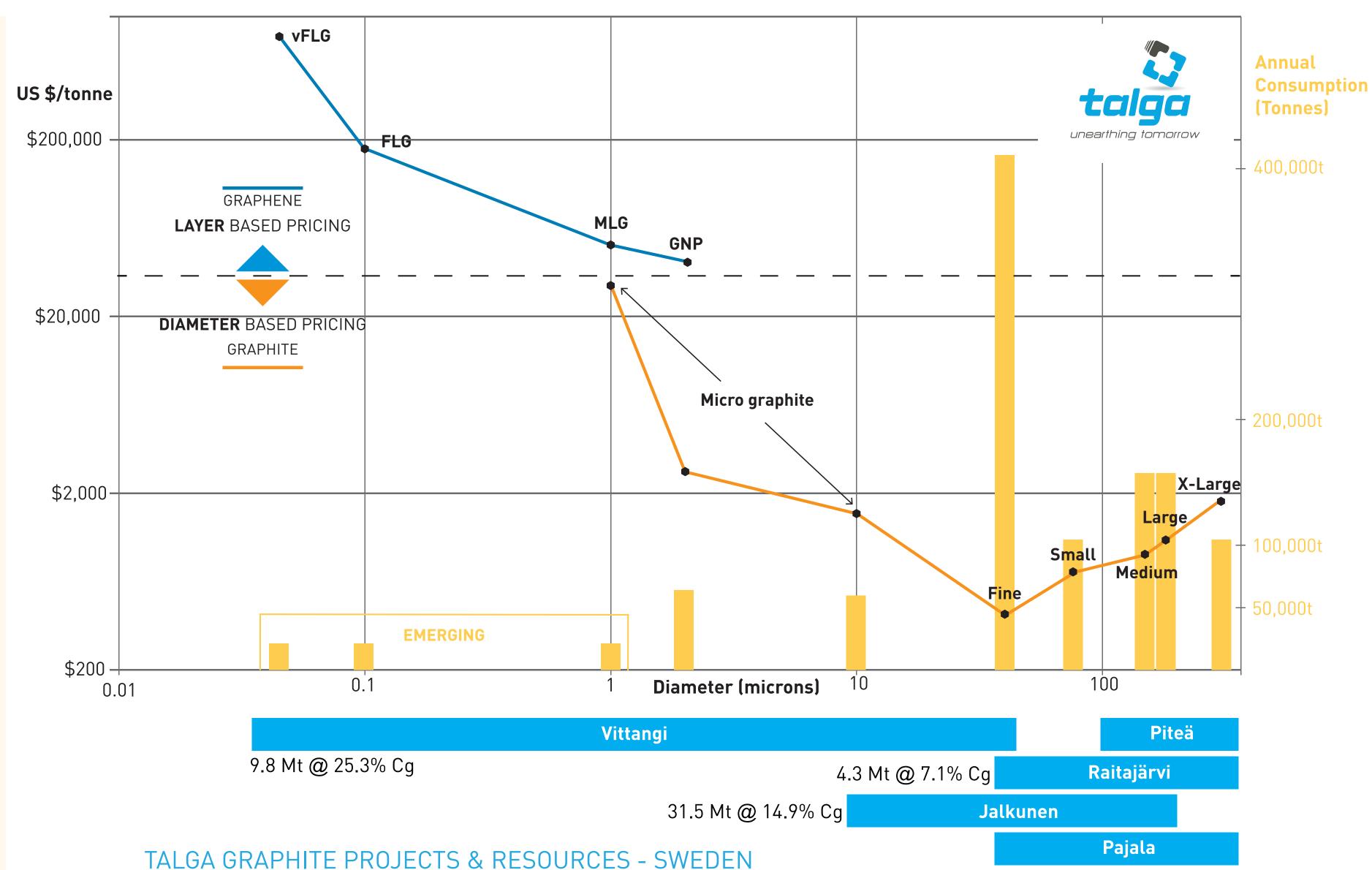
Micro to X-Large = Flake graphite (>3,000 sheets)

Micro - Insulation and construction products, Lubricants, Pencils, Flame retardants, Additives, Li-Ion batteries

Fine - Refractories

Small-Large - Recarburisers, Li-Ion batteries

X-Large - Various industrial uses



Graphite JORC Resources and Exploration Targets



Nunasvaara JORC (2012) Mineral Resource (10% Cg cut-off)

JORC 2012 Classification	Tonnes	Graphite (%Cg)
Indicated	6,900,000	24.2
Inferred	2,900,000	28.1
Total	9,800,000	25.3

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 Targets ² 0-100m Depth

Project	Exploration Target	Tonnes (0-100m Vertical Depth)			ohite 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.