

# Talga Group Ltd is a fully integrated battery materials and technology company



## Natural AAM

Technology for fast charge Li-ion cells natural active anode material using Swedish natural graphite



## Silicon – Graphene AAM

Technology for Li-ion cells active anode material using silicon and graphene



## Recycled AAM

Technology for Li-ion cells active anode material using recycled graphite



## Lithium Project

Greenfields discovery in Norrbotten with ~50km strike pegmatites

## Cautionary Statement and Disclaimer

Talga Group Ltd ACN 138 405 419 (the Company) is the issuer of this presentation.

### **Niska Scoping Study**

The Niska Scoping Study is a preliminary technical and economic study of the potential viability of developing the Nunasvaara North, Niska South and Niska North graphite deposits by constructing an integrated mining and refining operation to produce Talga's anode products for Li-ion batteries. It is based on low level technical and economic assessments that are not sufficient to support the estimation of ore reserves or to provide assurance of an economic development case. Further evaluation work and appropriate studies are required before the Company will be in a position to estimate any ore reserves or to provide any assurance of an economic development case or certainty that the conclusions of the Niska Scoping Study will be realised. The Niska Scoping Study is based on the material assumptions outlined in the announcement of 7 December 2020. These include assumptions about the availability of funding. While Talga considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the Niska Scoping Study will be achieved. To achieve the range of outcomes indicated in the Niska Scoping Study, funding in the order of US\$1,000 million plus contingencies may be required. Investors should note that there is no certainty that the Company will be able to raise that amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of the Company's existing shares. It is also possible that the Company could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the project. If it does, this could materially reduce the Company's proportionate ownership of the deposits covered by the Niska Scoping Study. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Niska Scoping Study.

### **Forward-looking statements**

This presentation contains forward-looking statements. Those forward-looking statements reflect views held only as at the date of this presentation. Any such statement is subject to inherent risks and uncertainties. Actual events or results may differ materially from the events or results expressed or implied in any forward-looking statement, and such deviations are both normal and to be expected. Recipients must make their own assessment about the likelihood of a matter, about which a forward-looking statement is made, occurring. The Company makes no representation about the likelihood of a matter, about which a forward-looking statement is made, occurring. The Company and its directors, employees, agents, advisers and consultants: give no representation or warranty to a recipient of this presentation as to the accuracy or completeness of the statements contained in this presentation or in relation to any other matter; and to the fullest extent permitted by law, disclaim responsibility for and have no liability to a recipient of this presentation for any error or omission in or for any statement in this presentation, including any liability arising from negligence.

### **Reliance on presentation**

A recipient of this presentation must make their own assessment of the matters contained herein and rely on their own investigations and judgment in making an investment in the Company. This presentation does not purport to contain all of the information required to make an informed decision whether to invest in the Company. Specifically, this presentation does not purport to contain all the information that investors and their professional advisers would reasonably require to make an informed assessment of the Company's assets and liabilities, financial position and performance, profits, losses and prospects.

### **Not a recommendation or financial advice**

The information in this presentation is not a recommendation to subscribe for securities in the Company and does not constitute financial advice. Any person who intends to subscribe for securities must conduct their own investigations, assessment and analysis of the Company and its operations and prospects and must base their investment decision solely on those investigations and that assessment and analysis. Prospective investors should consult their own legal, accounting and financial advisers about an investment in the Company.

### **Photographs and images**

Photographs, maps, charts, diagrams and schematic drawings in this presentation are owned by and have been prepared or commissioned by the Company, unless otherwise stated. Maps and diagrams used are illustrative only and may not be drawn to scale. Unless stated otherwise, all data contained in charts, graphs and tables is based on information available at the date of this presentation.

# Talga Group Highlights

A strategic, developing Li-ion battery anode technology and product company

## Battery technology



Integrated graphite anode and recycling process tech, silicon and next gen anode

## Low emission product



Powered by renewable electricity. LCA show 92% less GHG emissions than current producers

## Strategic mineral



Largest graphite resource in Europe and 2nd highest grade in the world

## European production



Stable Tier-1 jurisdiction and ownership/control of entire supply chain

## Strong fundamentals



Low production costs, underpinned by low-cost power, infrastructure and high processing yields

## Global accreditations



EVA plant, pilot and R&D facilities secured ISO 45001, ISO 9001, ISO 14001 certifications

## Advanced studies



Scale & economics validated by DFS, FEED and Scoping Studies (high-grade, long-life asset)

## Robust finance



€560m CAPEX (ex-contingency). 60% debt gearing syndicate, cornerstoned by EIB €150m

## Strong global leadership



Decades of cumulative experience across wide range of business areas and industries



# 100% European anode operations

Talga has four main operations in Europe. Mining resources and anode production in Sweden, a Battery R&D centre in UK and process scaleup/pilot facility in Germany



**Graphite Mining**  
Kiruna, Sweden

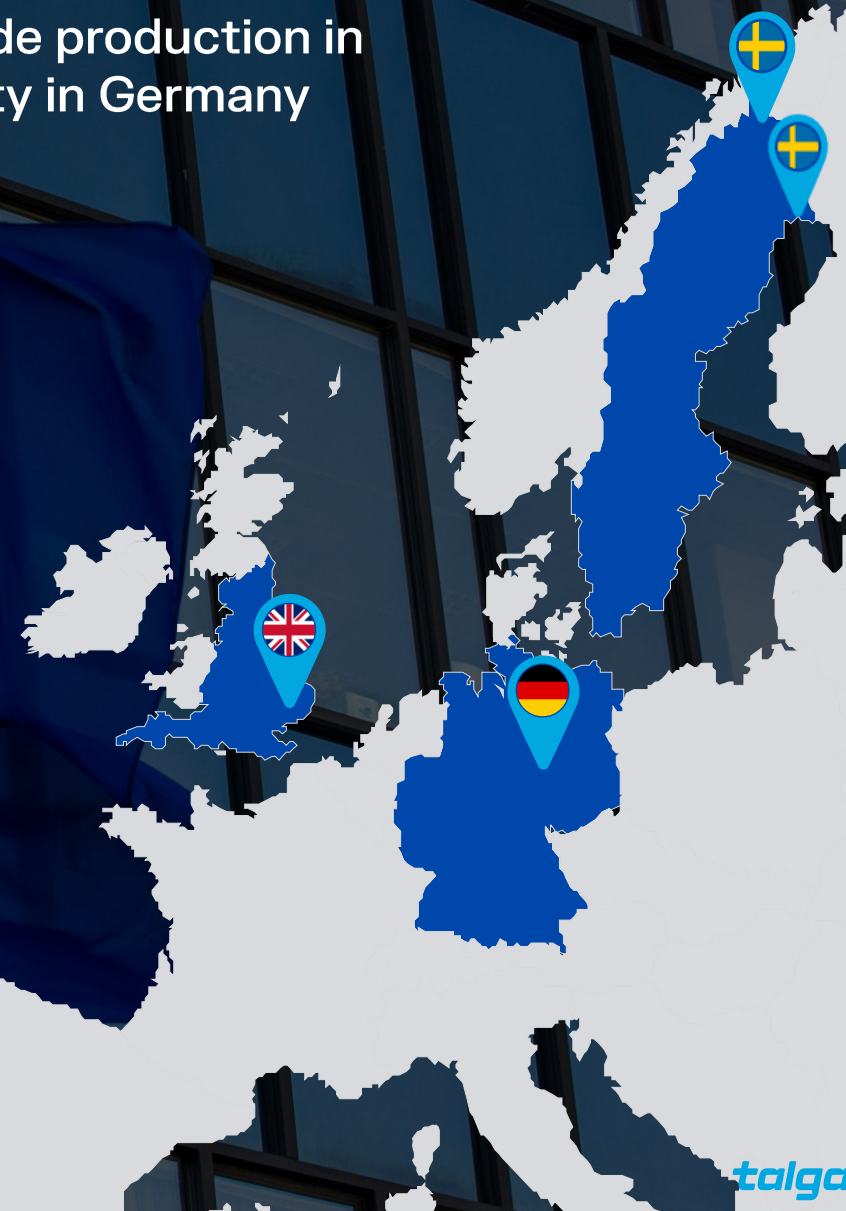
**Anode Production**  
Luleå, Sweden



**Battery Technology Centre**  
Cambridge, UK



**Advanced Material Processing Facility**  
Rudolstadt, Germany





# Integrated downstream role **in supply chain**

Core technology produces anode materials from 100% owned natural graphite or recycled feedstocks





# Project: Permitting status

Advanced stage integrated project fully permitted and ready to go



## Vittangi Graphite Mine



## Luleå Anode Refinery

- **Oct 2024:** Exploitation concession approved
- **Oct 2024:** Environmental permit in force
- **Current:** Mine fully permitted

- **Mar 2023:** Building permits in force
- **Jun 2023:** Environmental permit in force
- **Current:** Refinery fully permitted



# Talga Group: Updates

Receives recognition by European Commission

## European Support

- Swedish Government recognized as vital for the green and digital transition, strengthening Europe's self-sufficiency in critical raw materials
- The European Commission granted Strategic Project status to our graphite mine under the Critical Raw Materials Act.

## Innovation Fund Success

- Talga Group secured a €70 million grant from the EU Innovation Fund to develop its low-emission natural graphite anode material, Talnode-C
- The grant will support Talga's Luleå Anode Refinery, which is part of its Vittangi Anode Project in Sweden.

## Binding Offtake

- Talga Group has signed a binding offtake agreement with Nyobolt, a leader in ultra-fast battery charging technology.
- The agreement covers multi-year supply of Talga's Talnode®-C graphite anode from its Vittangi Anode Project in Sweden.



# Active anode production since 2022

Electric Vehicle Anode (“EVA”) Qualification Plant, Luleå, Sweden



Operating expertise  
and ISO accreditation



In-house battery  
labs and QA



Underpins customer  
audits and negotiation



# Anode Refinery **construction ready**

Portside location in Luleå, Sweden adjacent to green steel and REE developments



**100% owned and fully permitted industrial site**



**Groundbreaking and initial siteworks completed**



**Direct road and rail access to European customers**





# Talga Product Portfolio



Talnode®-C  
**Power Series**



Talnode®-Si  
**High Energy Series**



Talnode®-C  
**EV Series**



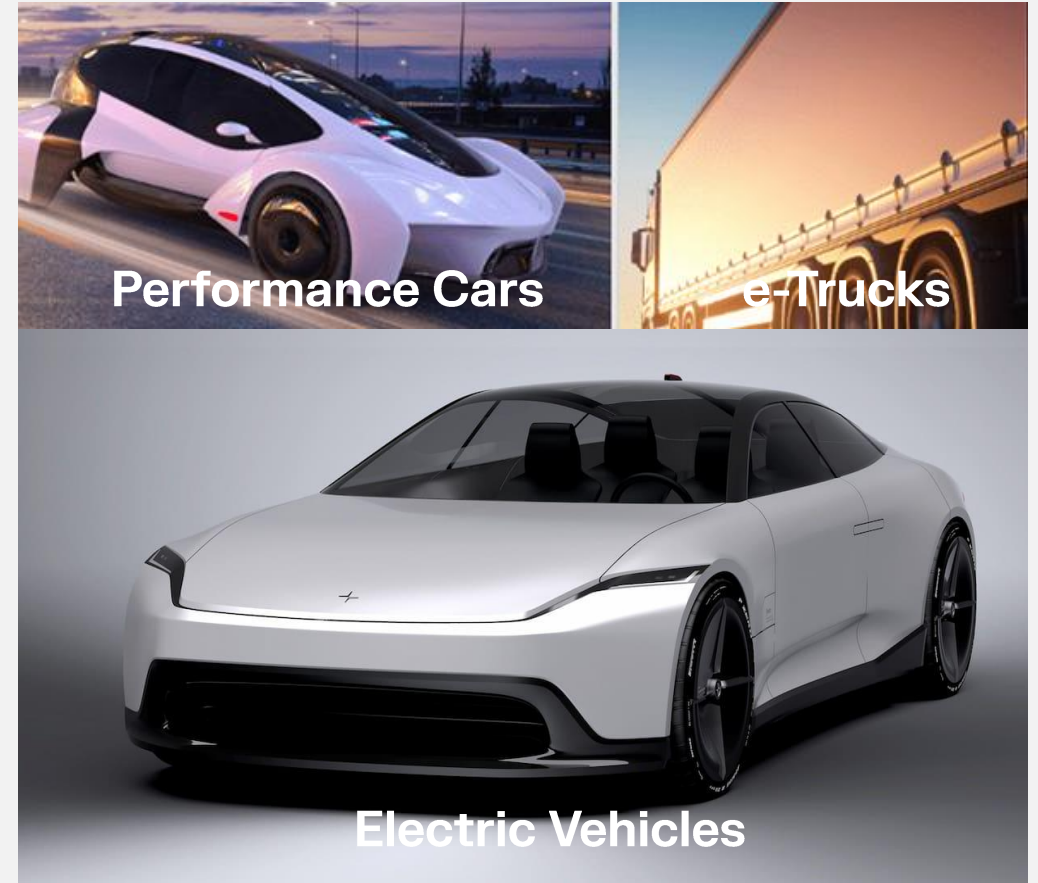
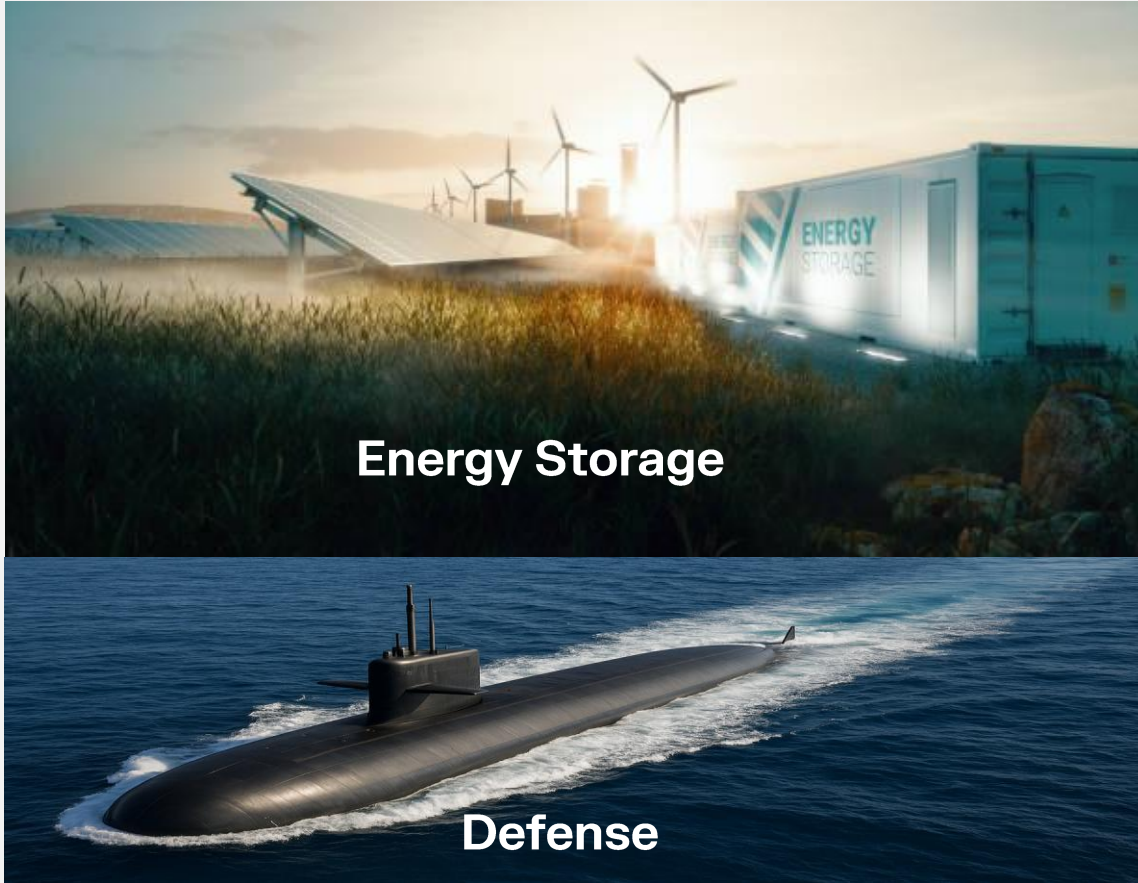
HSA & UHSA  
**Conductive Additives**



Talnode®-R  
**Recycled Series**



# Customer Applications of Our Products





# Conductive additives

Talphite®, Talphene®, Talcoat®



**Opportunities to derive further efficiency and commercial gains from Vittangi**

- **Advantages**

Low-cost scalable production of graphene and high surface area graphite products

Improves conductivity and processability in cathodes

Strengthens, lightens and adds conductive functionality to concrete, coatings, plastics, metals and fibres

- **Stage**

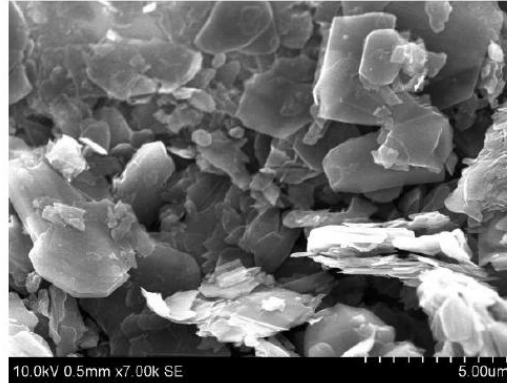
Customer demand production and sales



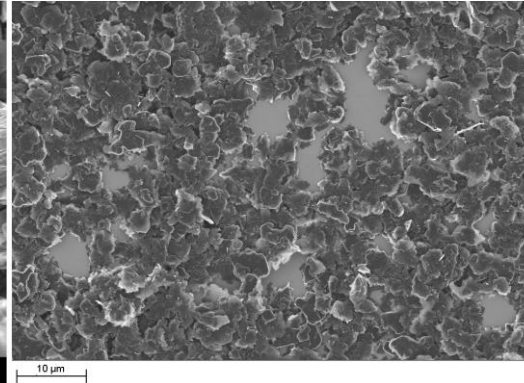
# TALGA ADDITIVES SPECIFICATION

Detailed Characterization of Talga's additive grades

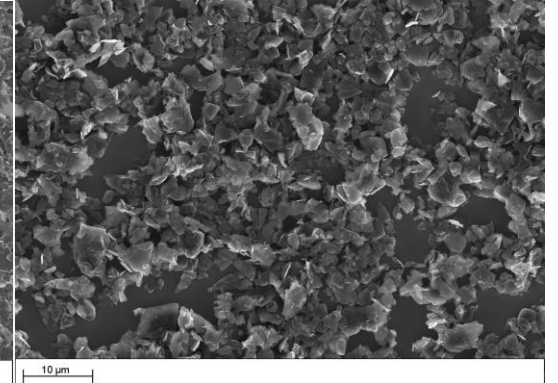
SAMPLE NAME/PROPERTY	Fine Flakes (Talphite-Fines)	High surface area flakes (Talphite-HSA)	Ultra-high surface area flakes (Talphite-UHSA)
Carbon Purity	>99.95%	>99.95%	>99.95%
Particle Size (Average $\mu\text{m}$ )	3-4	3.7	4.9
Particle Size ( $D_{90}$ $\mu\text{m}$ )	7	7.5	8.3
Bulk Density ( $\text{g}/\text{cm}^3$ )	0.1	0.1	0.08
Surface area ( $\text{m}^2/\text{g}$ )	9-10	25-30	40-60



**Fine Flakes  
(Talphite-Fines)**



**High surface area flakes  
(Talphite-HSA)**



**Ultra-high surface area flakes  
Talphite-UHSA**



# Flagship natural graphite anode

Talnode®-C Power Series



## Coated active anode with excellent capacity and ultra-low CO<sub>2</sub>

- Excellent power density and low resistivity
- Maintains capacity at low to freezing temperatures
- Low swelling - similar to artificial graphite
- EU origin and demonstrates ESG compliance
- Use 100% or blended depending on the battery application



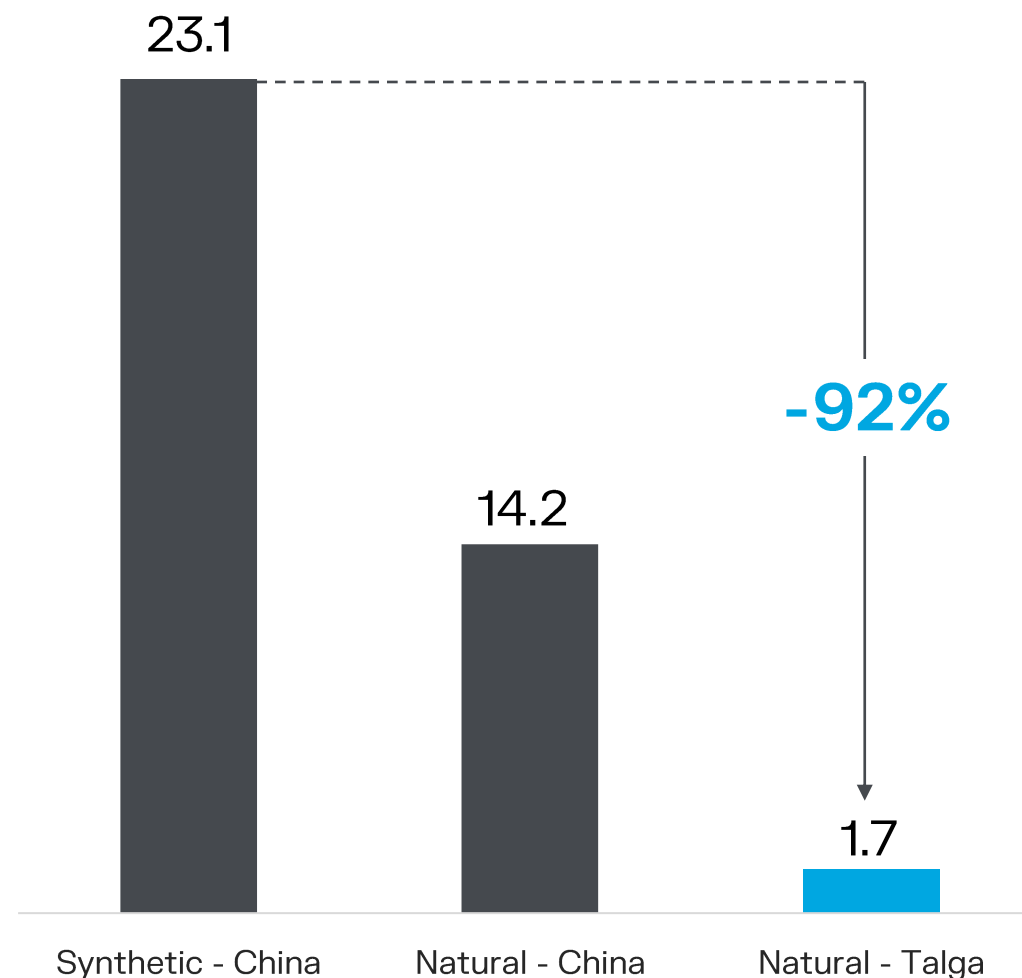
# Cleaner anode production

↓ -92% less emissions

Super *high-grade* graphite, *renewable* energy and high-yield *processing technology* result in ultra-low carbon footprint

The peer-review LCA was conducted according to ISO 14040:2006 and ISO 14044:2006 standards

CO<sub>2</sub>-eq per kg of anode active material



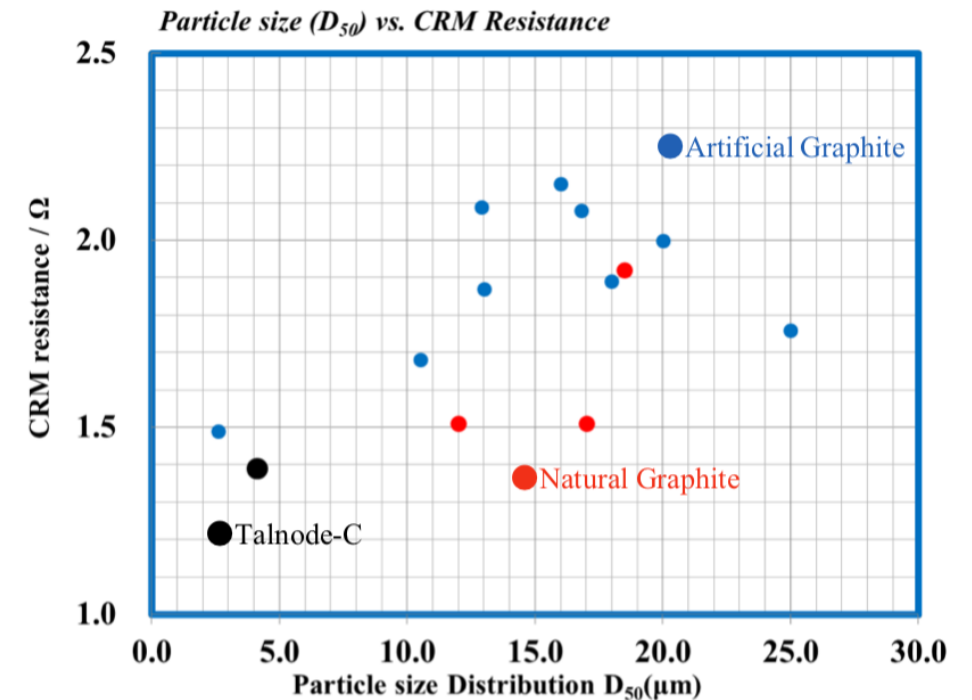


# Low Electrical Resistance

## Talnode-C

- Small particle size in Talnode®-C Power enables exceptional resistance characteristics,
- CRM (DC) resistance achieved at  $< 1.4 \Omega$ .
- Outperforms both natural and artificial graphite in terms of resistance levels,
- The low resistance characteristics enhance rate performance and enable rapid charging.

## Talnode-C Gen 1





# Recycled graphite anode

Talnode®-R



Increases European self-reliance and circularity

Lowers carbon footprint and battery waste landfilling or burning

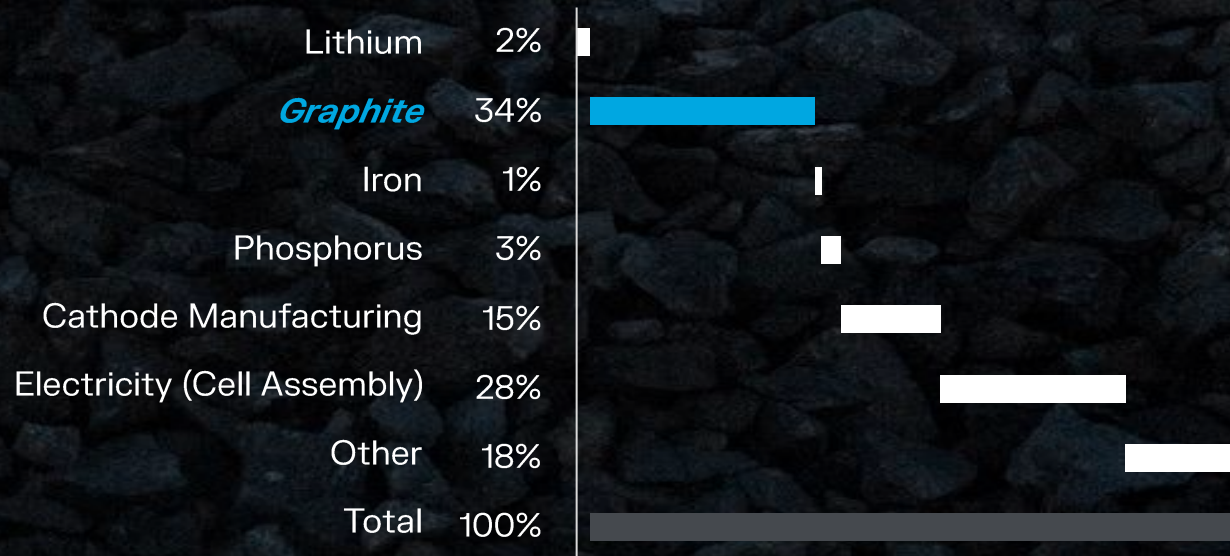
Meets 25% of material consumption goal from domestic recycling by 2032

Pilot Scale Trials commenced Q1 2024 using Talga purification and coating know-how



# The Case for Graphite Recycling in Li-on Batteries

Graphite is largest CO<sub>2</sub> contributor to battery



## Lower emissions



Recycling graphite allows automotive OEMs to reduce their CO<sub>2</sub> footprint and expand their recycling ambitions

## Cost savings



Reduces raw materials costs and reliance on mining. Lower energy costs. Supply chain stability

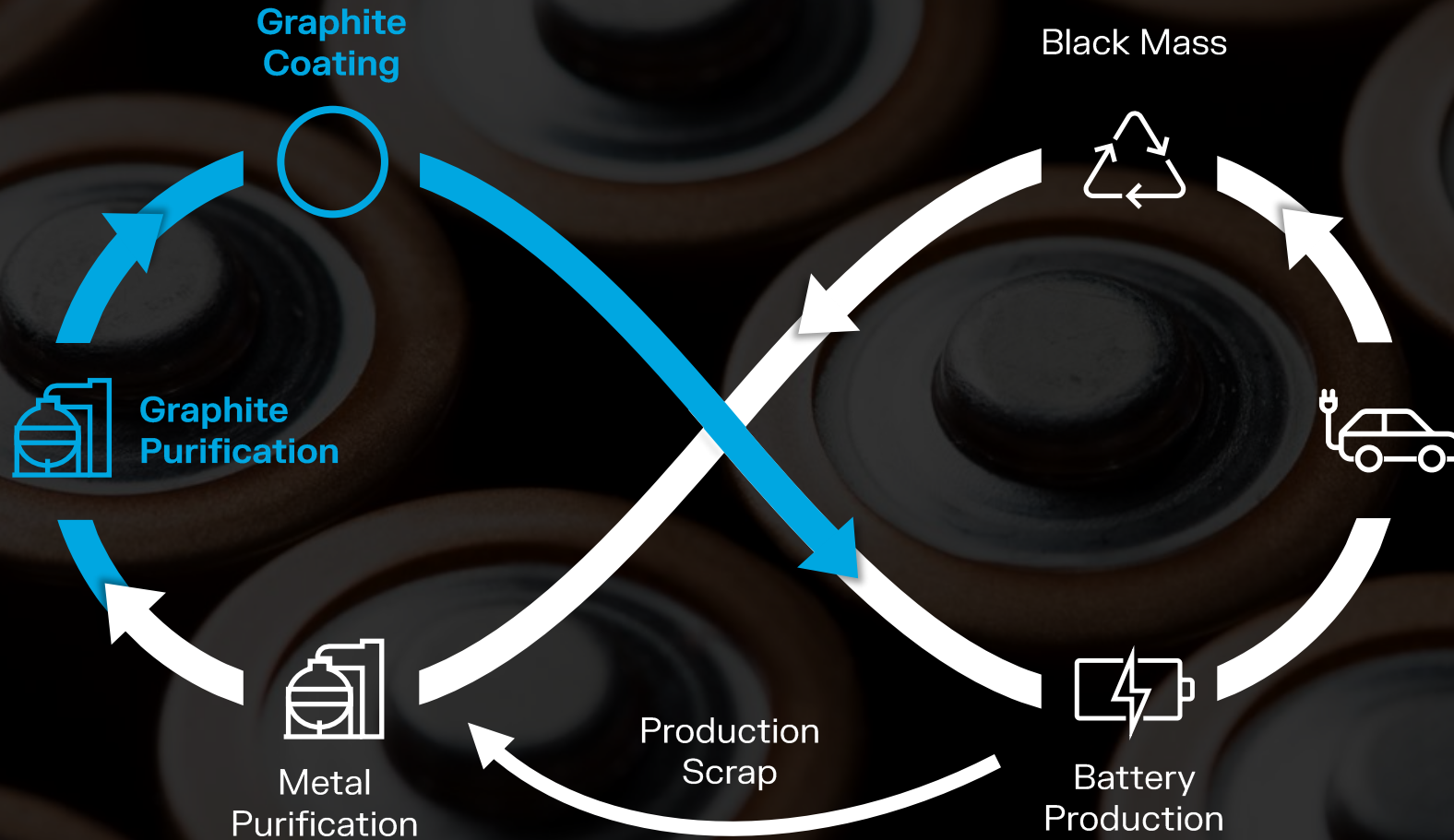
## Technical feasibility



Talga's proprietary Process outputs meet performance requirements.  
Capacity >345mAh/g; FCE >95%



# Talga battery anode **recycling process flow**



Mass Used Batteries Production Scrap Battery Production Talga's innovative purification process and anode production technologies applied to battery black mass supply

Strong drivers from auto OEMs and battery manufacturers facing recycling regulations

Battery testing in progress, early development showing strong potential

**100% owned technology**



Talga  
battery  
anode  
recycling  
process  
outputs

	Carbon Residue		High purity graphite		Battery Grade graphite
Production Scrap	90-95% Cg		>99.9% Cg		Capacity >345mAh/g FCE >95%
Residual Carbon from Black Mass	80-95% Cg		>99.9% Cg		Capacity >345mAh/g FCE >95%



# Silicon anode

Talnode®-Si High Energy Series



**Composite silicon-graphite additive with ~50% silicon  
for high energy density drop-in additive**

- Industrially scalable process and competitive cost
- A versatile design that allows for tuning to meet the desired battery characteristics
- Localised supply chains, with the possibility of sourcing 100% of chemicals from Europe
- Engineered to ensure the correct porosity and expansion space, enhancing battery longevity

## **Stage**

- Pilot operating, customer testing advanced
- Engineering and financial feasibility studies under way for commercial plant



New supply chains of **critical minerals ex-China** are underway, enhancing sustainability of battery materials







## Sweden

Talga AB & Talga Battery Metals AB  
Södra Kungsgatan 5B  
972 35 Luleå, Sweden  
t: +46 (0) 10-303 71 00  
e: [kontakt@talga.se](mailto:kontakt@talga.se)

Stockholm Office  
Skeppsbron 26  
111 30 Stockholm, Sweden  
e: [kontakt@talga.se](mailto:kontakt@talga.se)

## Australia

Talga Group Ltd  
Suite 3.03, Level 3  
46 Colin Street  
West Perth, Western Australia 6005  
t: +61 8 9481 6667  
e: [info@talgagroup.com](mailto:info@talgagroup.com)

## United Kingdom

Talga Technologies Limited  
Conqueror House  
Chivers Way  
Histon, Cambridge, CB24 9ZR, England  
t: +44 1223 420416  
e: [info.uk@talgagroup.com](mailto:info.uk@talgagroup.com)

## Germany

Talga Advanced Materials GmbH  
Prof.-Hermann-Klare-Str. 25  
07407 Rudolstadt, Germany  
t: +49 3672 4766930  
e: [info.de@talgagroup.com](mailto:info.de@talgagroup.com)