SICONA
Battery Technologies

Advanced Battery Materials to power the energy transition

September 2022

Sicona is using its advanced battery materials in existing lithium-ion batteries to:

Increase the range of electric vehicles (increase by 20 – 50%).

Reduce the time it takes to charge an electric vehicle (<15min).

Reduce the upfront cost of electric vehicles (reduce by US$5k).

Deliver sustainable, low impact & secure supply chains localized in each major market.

Our mission is to increase the speed of EV adoption so that ALL passenger vehicles on the road are powered by batteries & electricity before 2050.

Taking gigatonnes of CO2 out of the atmosphere & helping save thousand of lives through cleaner air.

SICONA
Battery Technologies

Highlights

Validated product market fit with battery producers & Auto OEMs globally with interest in **SiG anode materials** confirmed and evaluation testing commenced.

01

Advancing **44 patent** applications in various jurisdictions and developing additional IP. Core Australian patents recently accepted.

02

Designed and built a **2.5tpa** pilot plant and cell prototyping lab for SiG anode materials with co-funding from the Australian Federal Government.

03

Initial testwork results of **SiG450™** showcasing excellent capacity retention of >80% 1C^ capacity after 1,300 cycles and excellent fast charging capability.

04

Commercial scale production **planned for USA and Sweden**.

Bechtel, one of the largest EPC companies in the world as engineering and construction partner.

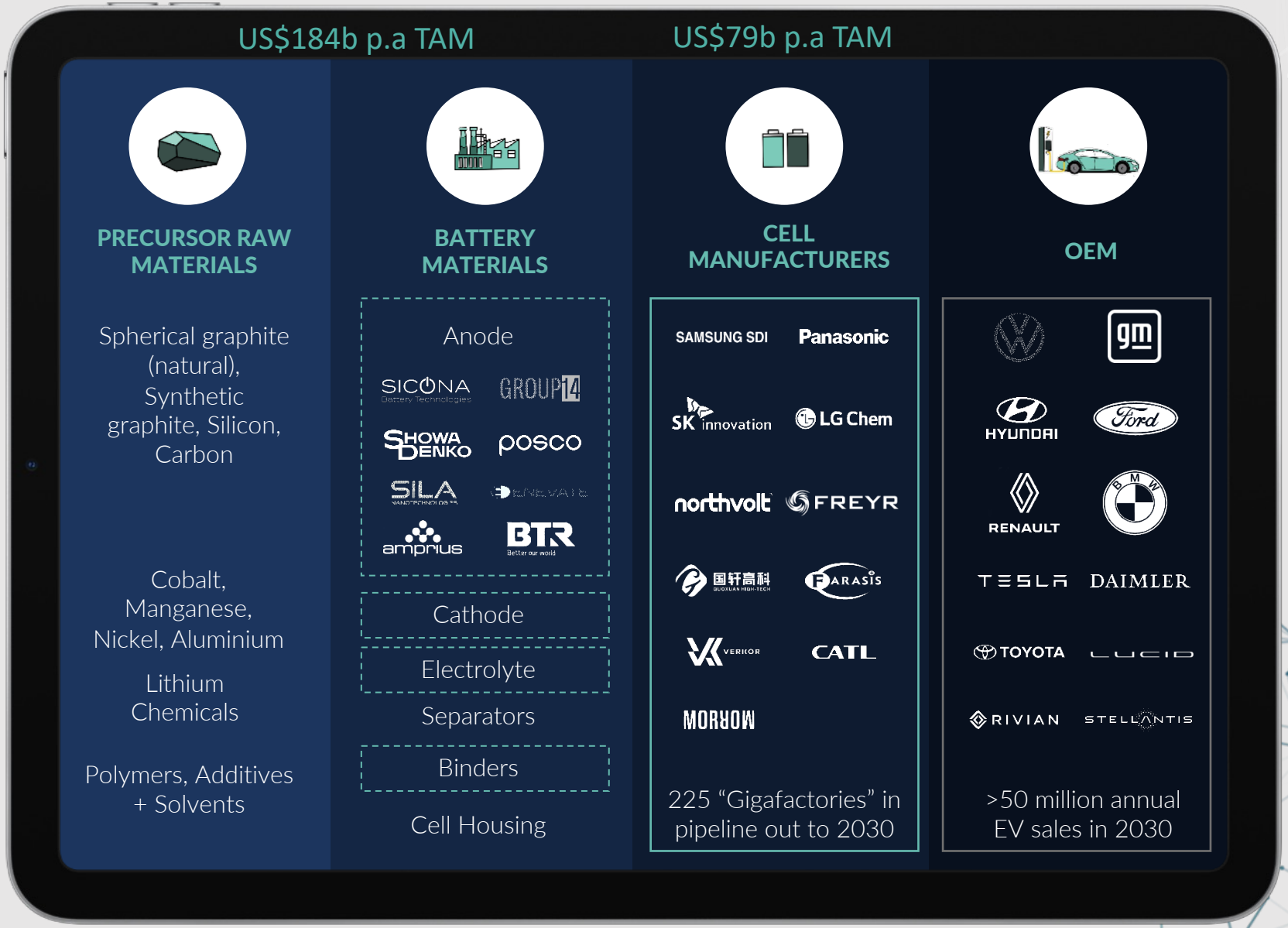
05

Joint Development Agreement with a US based Auto OEM to develop high energy density cells using Sicona SiG anode materials.

06

*EPC = engineering, procurement and construction
^ 1C = charge and discharge the battery in 1 hour

SICONA Battery Technologies



Sicona in the US$525b p.a battery supply chain

Denotes Sicona Market segment participation

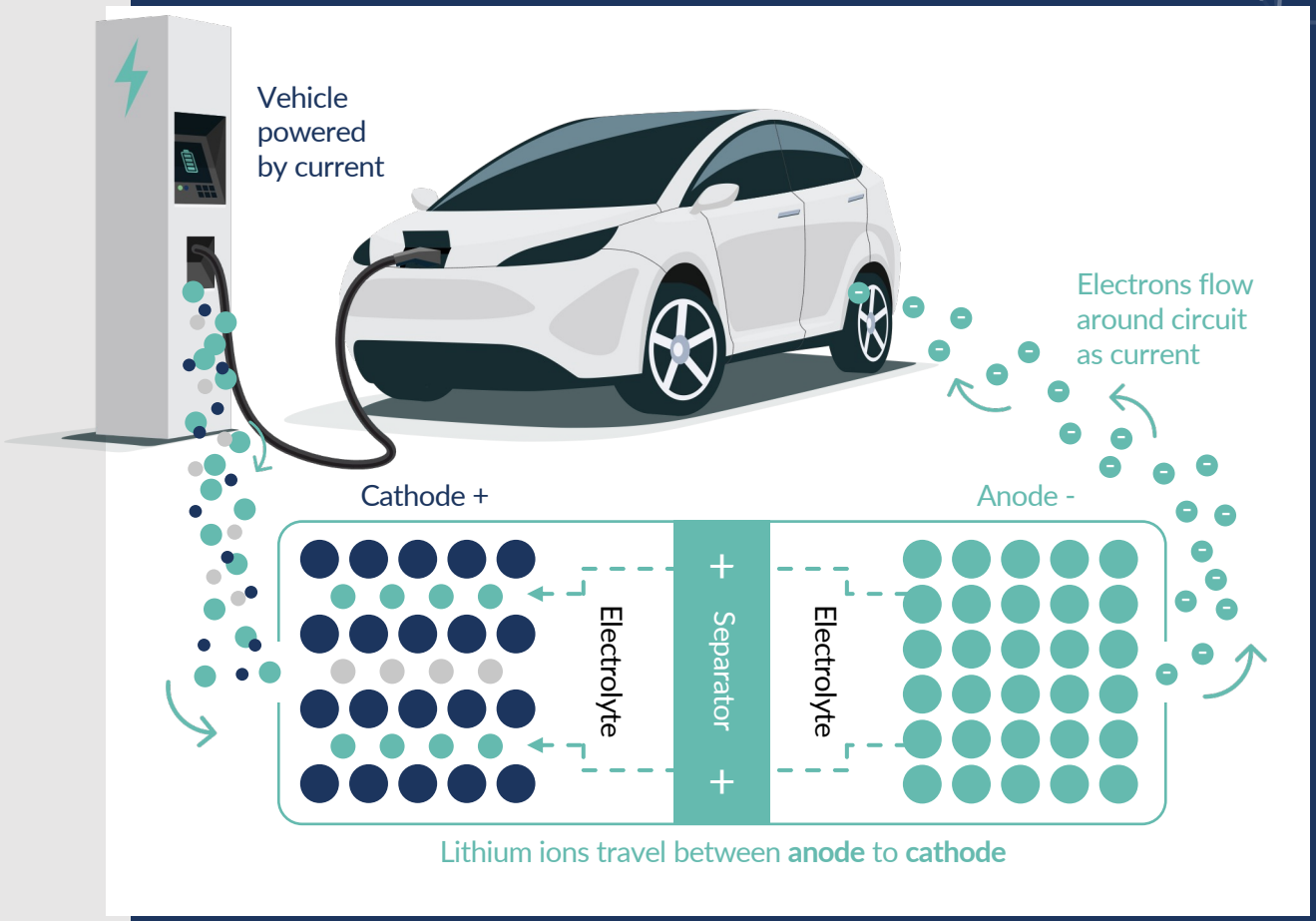
Denotes Sicona's primary customers

Denotes Sicona's secondary customers

SICONA Battery Technologies

Lithium Batteries & Silicon Anodes

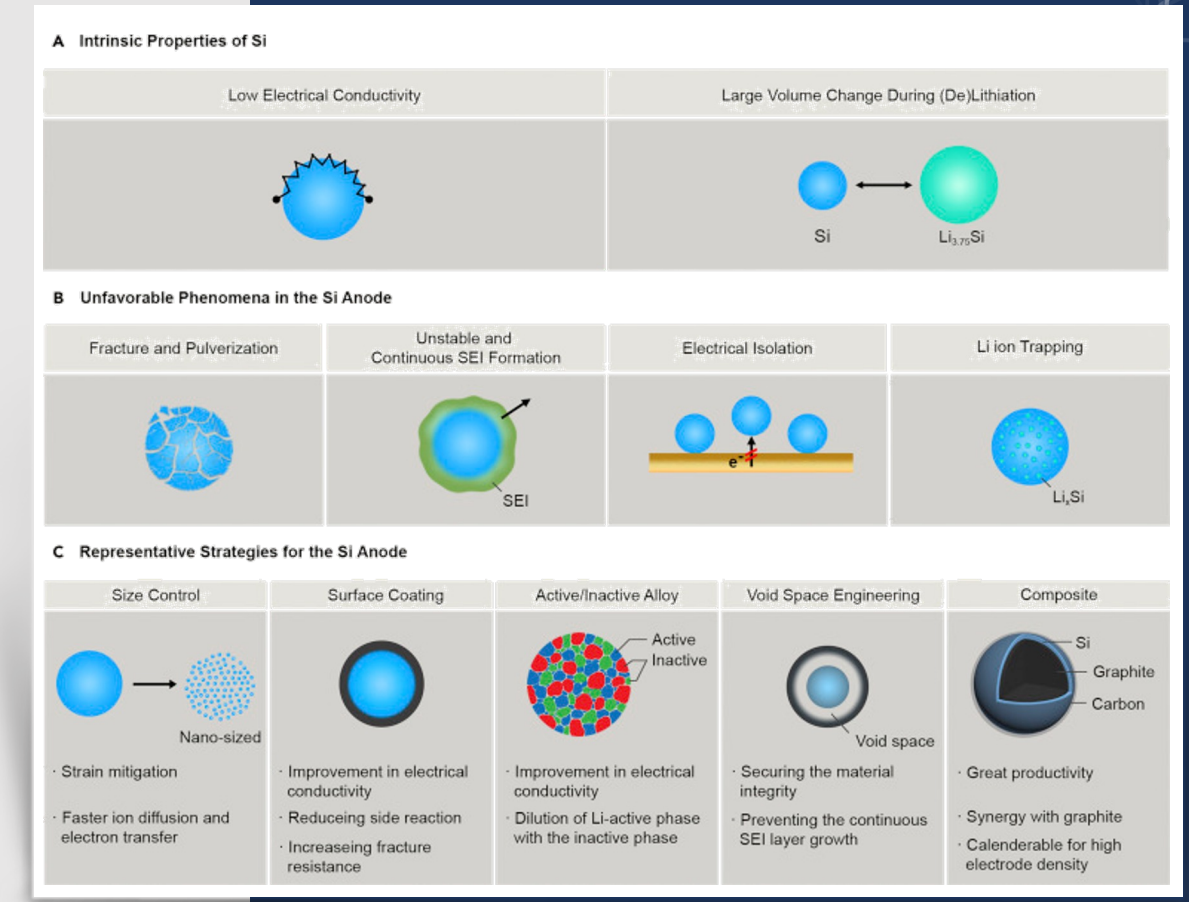
- Battery operation is based on the simple concept of Li-ion flow between the anode and cathode
- Creates energy that flows externally as electrical current powering a connected device
- The cathode is the source of lithium and the anode the storage bucket
- Graphite is the current anode material, very stable over repeated cycling with limited swelling. “Bucket size” of 372mAh/g (capacity units)
- Putting silicon in the anode enables high energy density without changing the architecture of the battery
- Silicon anodes can be “dropped into” existing gigafactories and their supply chains and enable a step change in EV range, cost and charge time



SICONA Battery Technologies

Silicon Anode Challenges

- Silicon can **store ~9x more lithium ions than graphite** enabling higher cell energy density and faster charging
- BUT silicon swells **>300%** causing premature battery failure
- Key is to find a workable, scalable and cost-effective way to use silicon in a battery

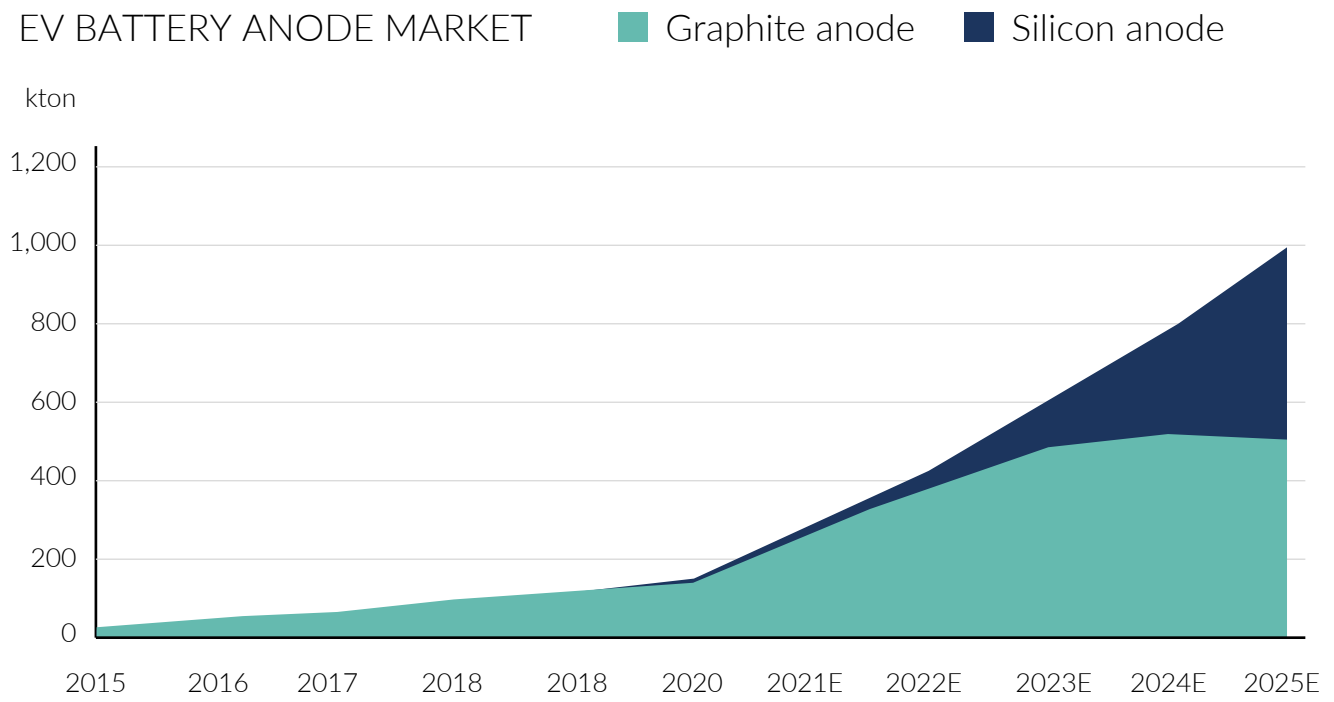


This is what Sicona's anode materials deliver

SICONA Battery Technologies

Silicon Anode Market Opportunity

Silicon containing anodes projected to catch up with graphite anodes by 2025



Source: Morgan Stanley Research, Nov 2021

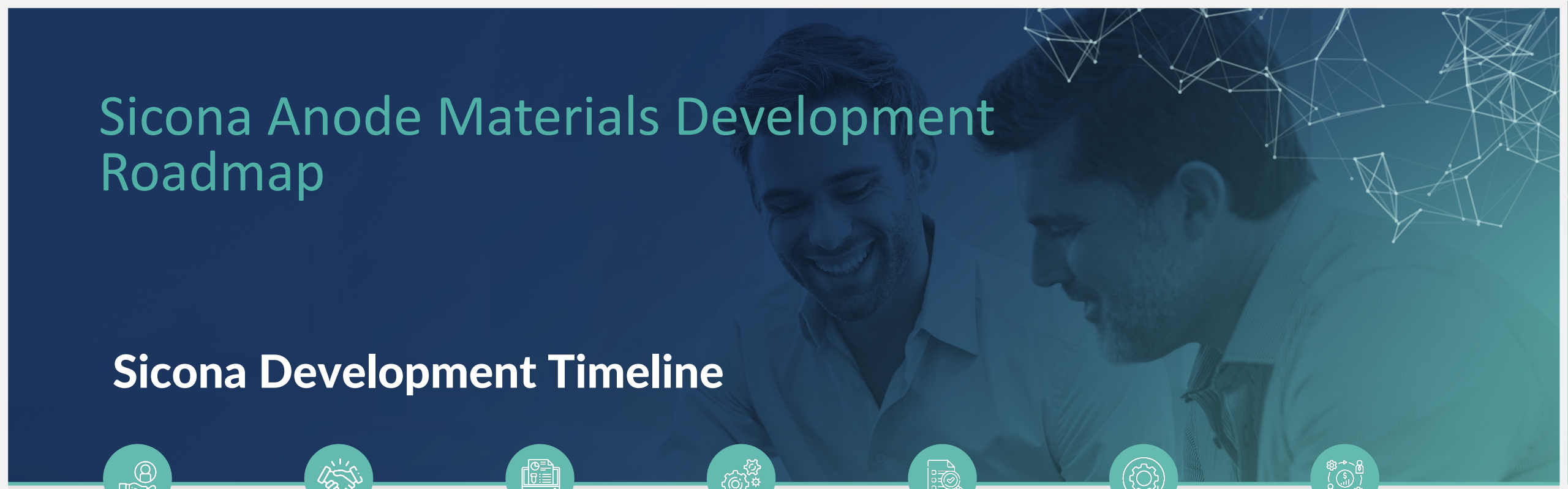
- **Morgan Stanley estimates 50% market penetration** of silicon-based anodes by 2030
- **10x increase** from 2021 market penetration (5%)
- By 2025 **graphite and silicon anode** supply forecasted to be equal
- Approx. **500ktpa** each
- Silicon based anodes growing to **>1Mtpa** by 2030
- Assuming **$15k/t** (conservative) average sales price = **$15bn p.a** silicon based anode TAM

SICONA Battery Technologies

Sicona's global presence

SICONA
Battery Technologies

Sicona Anode Materials Development Roadmap



Sicona Development Timeline

Sep 22

Operate 2.5tpa pilot – samples to customers

1st Customer joint development agreement(s)

Feb 23

Initial product qualification complete

PFS level engineering

Jun 23

BFS level engineering for commercial scale plant

Aug 23

Final product qualification complete

Oct 23

Procurement & construction starts

Q4 2024

1st Commercial plant operations start

SICONA Battery Technologies

Sicona Pilot Plant & Cell Prototyping lab, NSW Australia

Design capacity of

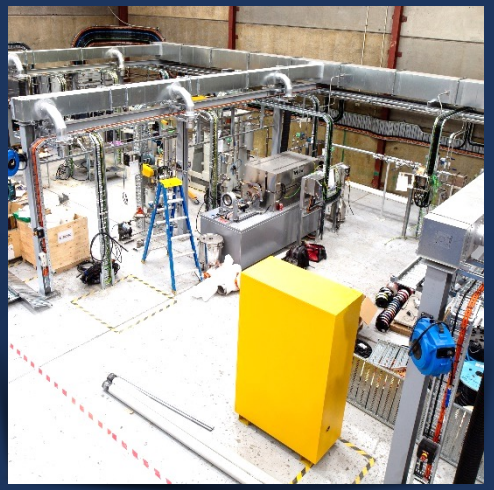
2.5tpa

pilot manufacturing plant + pouch cell prototyping lab

Producing in

7kg – 25kg

batches of SiG anode materials for full cell testing (internal & external) and customer qualification.



SICONA
Battery Technologies

Customer engagement to date

Product market fit validated & interest confirmed

Joint Development Agreement (JDA) with US Auto OEM kicking off in Q4-2022

Initial sample provided and tested by Asian Auto OEM

Next steps:

- Send larger qualification samples (2kg+)
- Share additional testing data
- Kick off 1st JDA and negotiate others
- Produce and send additional samples

Large Auto EV Company

New Auto EV Company (under NDA)

New Auto EV Company (under NDA)

Large Auto EV Company (under NDA)

Tier 1 Korean cell producer

Tier 1 Japanese cell producer

New Gigafactory (under NDA)

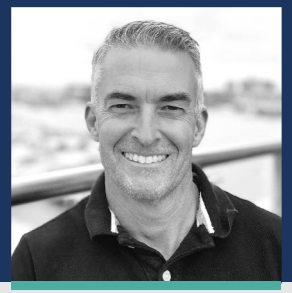
New Gigafactory (under NDA)

SICONA Battery Technologies

Sicona Core Team

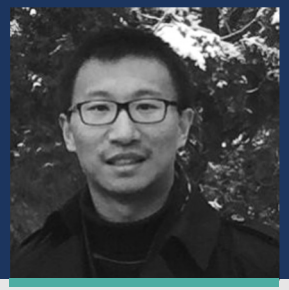
Christiaan Jordaan
Founder & CEO

- Former CEO of ASX listed graphite company
- Developed energy and mining projects in Africa
- 10 years experience as entrepreneur and CEO
- Deep battery supply chain knowledge



Andrew Minett
Co-Founder & CTO

- PhD in electro-chemistry
- Max Planck institute under Nobel Prize winner
- MIT Medialab
- Finished academic career as Prof of Chemical Engineering
- Materials expert
- Scaled up inventions for multiple startups



Tan Xing
Head of Research & Develop.

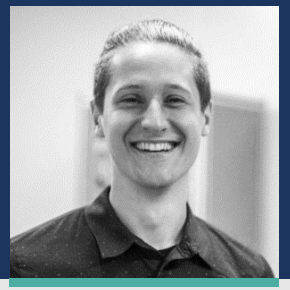
- PhD Nanomaterials in Energy Storage from Deakin
- Battery scientist for novel 3D electrode startup
- Systems engineering and R&D lead for 2 satellite companies

Nikan Nurb
Senior Process Engineer

- PhD in Chemical Engineering
- Lead research engineer for ASX listed Hazer Group
- Experienced process engineer
- Expert in process scale up & design

Derwin Lau
Battery Material Scientist

- PhD in Silicon anodes for next gen batteries
- UNSW research assistant
- Silicon expert



Thomas Rowe
Research Scientist

- Research scientist for TSX listed Nano One Materials
- Cathode materials expertise
- Experienced research professional

Anthony Tse
Advisor

- Former CEO of Galaxy Resources (now Allkem) a $3bn global lithium chemical company
- Board member & early investor Li-Cycle (NASDAQ LICY)
- Active investor in LiB supply chain

REGIUS · NEW ENERGY MINERALS · THE UNIVERSITY OF SYDNEY · HazerGroup · DEAKIN UNIVERSITY · COMMSAT 九天微星 · THE UNIVERSITY OF SYDNEY · HazerGroup · UNSW SYDNEY · nanoOne · Allkem · Li-Cycle

SICONA Battery Technologies

Select Partners, Collaborators & Investors

Engineering

KEMPLANT

BECHTEL

Major equipment

BÜHLER

ONEJOON

GEA

Raw materials

Ferroglobe

LEADING EDGE MATERIALS

HANWA

THE WESTERN PRODUCER

*confidential

MASON GRAPHITE INC.

KOPPERS

Financial Modelling & Grants

pwc

Major investors

artesian

Spring Capital

bandera capital

CHAOS VENTURES

RIVER STONE

Australian Government

*Grant funding

SICONA Battery Technologies

Contact

Christiaan Jordaan

christiaan@siconabattery.com

+61 (0) 42 438 4668

SICONA
Battery Technologies

SICONA
Battery Technologies

Disclaimer

This presentation is issued by Sicona Battery Technologies Pty Ltd ('Sicona' or the 'Company') for information purposes only. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in any jurisdiction. This presentation may not be distributed in any jurisdiction except in accordance with the legal requirements applicable in such jurisdiction. Recipients should inform themselves of the restrictions that apply in their own jurisdiction. A failure to do so may result in a violation of securities laws in such jurisdiction. This presentation does not constitute financial product advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments.

NOT AN OFFER

The Presentation Materials do not comprise a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with the Australian Securities and Investments Commission) or any other law. The Presentation Materials also do not constitute or form part of any invitation, offer for sale or subscription or any solicitation for any offer to buy or subscribe for any Securities nor shall they or any part of them form the basis of or be relied upon in connection therewith or act as any inducement to enter into any contract or commitment with respect to Securities. In particular, this presentation does not constitute an offer to sell, or a solicitation of an offer to buy, securities in the United States or to any "US person" (as defined in Regulation S under the Securities Act of 1993, as amended (the "US Securities Act")). The securities in any proposed offering have not been and will not be registered under the US Securities Act, or under any securities laws of any state or jurisdiction of the United States. Accordingly, the securities in any proposed offering may not be offered, or sold, directly or indirectly, within the United States or to, or for the account of benefit of, US persons, except in a transaction exempt from, or not subject to, the registration requirements of the US Securities Act and applicable US state securities laws.

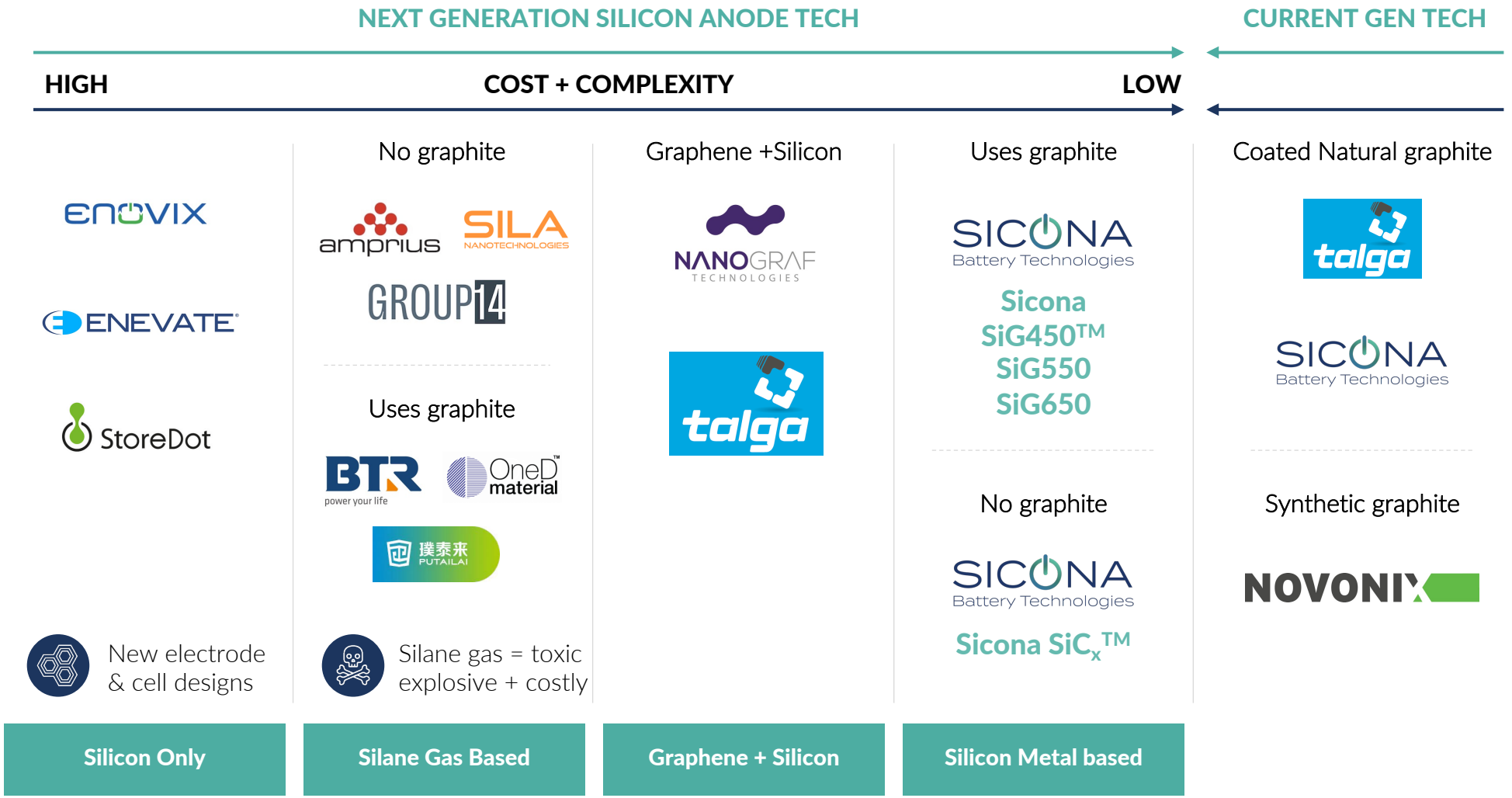
SUMMARY INFORMATION

The Presentation Materials do not purport to be all inclusive or to contain all information about the Company or any of the assets, current or future, of the Company. The Presentation Materials contains summary information about the Company and its activities which is current as at the date of the Presentation Materials. The information in the Presentation Materials is of a general nature and does not purport to contain all the information which a prospective investor may require in evaluating a possible investment in the Company or that would be required in a prospectus or product disclosure statement or other offering document prepared in accordance with the requirements of Australian law or the laws of any other jurisdiction, including the United States of America. The Company does not undertake to provide any additional or updated information whether as a result of new information, future events or results or otherwise. Forward-looking statements. Certain statements contained in the Presentation Materials, including information as to the future financial or operating performance of the Company and its projects, are forward looking statements. Such forward looking statements: are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the Company, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward looking statements; and may include, among other things, statements regarding estimates and assumptions in respect of prices, costs, results and capital expenditure, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions. The Company disclaims any intent or obligation to publicly update any forward looking statements, whether as a result of new information, future events or results or otherwise. The words "believe", "expect", "anticipate", "indicate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule" and similar expressions identify forward looking statements. All forward looking statements contained in the Presentation Materials are qualified by the foregoing cautionary statements. Recipients are cautioned that forward looking statements are not guarantees of future performance and accordingly recipients are cautioned not to put undue reliance on forward looking statements due to the inherent uncertainty therein.

NO LIABILITY

The Company has prepared the Presentation Materials based on information available to it at the time of preparation. No representation or warranty, express or implied, is made as to the fairness, accuracy or completeness of the information, opinions and conclusions contained in the Presentation Materials. To the maximum extent permitted by law, the Company, its related bodies corporate (as that term is defined in the Corporations Act 2001 (Commonwealth of Australia)) and the officers, directors, employees, advisers and agents of those entities do not accept any responsibility or liability including, without limitation, any liability arising from fault or negligence on the part of any person, for any loss arising from the use of the Presentation Materials or its contents or otherwise arising in connection with it.

Sicona uniquely positioned to leverage silicon metal to produce next gen anodes cost effectively at scale



SICONA Battery Technologies