

## PRESENTATION AT ADVANCED AUTOMOTIVE BATTERY CONFERENCE

**BRISBANE, AUSTRALIA, 26 June 2025:** AnteoTech Ltd (ASX:ADO) (**AnteoTech** or the **Company**) is pleased to release a copy of the presentation that is being delivered by Manuel Wieser, Chief Technology Officer at the 15<sup>th</sup> International Advanced Automotive Battery Conference (**AABC**) Europe in Mainz, Germany, today, Thursday 26 June 2025.

The presentation titled “Maximising high silicon anode performance” presents how AnteoTech’s products; Anteo X™, a cross-linker that works with binders to improve anode integrity and performance and Ultranode™, a fully integrated silicon anode technology, are supporting customers to deliver the next generation of high-silicon anodes which are lighter, smaller, and more powerful, into batteries.

### About the 15<sup>th</sup> International Advanced Automotive Battery Conference Europe

Each year, AABC Europe<sup>1</sup> brings together a global audience of battery technologists working in the Automotive industry and their key suppliers for a must-attend week of development trends, breakthrough technologies and predictions of the market for years to come. As European nations and international automotive OEMs invest in their commitment to vehicle electrification and eMobility, the 2025 event in Mainz will help propel that momentum forward, presenting unparalleled coverage of the research and development that helps drive outcomes and supports the next generation of electric vehicle batteries

This announcement has been authorised for release by the Board of AnteoTech Ltd.

**- ENDS -**

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For further information, please check our website [www.anteotech.com](http://www.anteotech.com)

### About AnteoTech - (ASX:ADO)

AnteoTech is a supplier of advanced material solutions to the battery materials and life sciences markets. We leverage our market leading binding chemical platform technology to develop and commercialise material solutions for our global customer base. From our patented cross linker and binder product AnteoX™ to our next-generation high silicon anode formulations, Ultranode™, our Advanced Battery Technology division is applying its unique engineering expertise to address the growing demand for high performance, low cost, sustainable materials within the global battery market. Our Life Sciences division supplies advanced activation materials through our Anteobind™ suite of products to leading developers of diagnostic tests which enable faster, more reliable and accurate test results wherever needed.

### AnteoTech - Social Media Policy

AnteoTech is committed to communicating with the investment community through all available channels. Whilst ASX remains the prime channel for market sensitive news, investors and other interested parties are encouraged to follow AnteoTech on LinkedIn. Subscribe to AnteoTech Latest News emails - visit our website at

<sup>1</sup> AABC Europe | 23-26 June 2025 | Mainz, Germany | Advanced Automotive Battery Conference

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### Forward Looking Statements

This Announcement may contain forward-looking statements, including estimates, projections and other forward-looking information (**Estimates** and **Projections**). Forward-looking statements can generally be identified by the use of forward-looking words such as “expect”, “anticipate”, “likely”, “intend”, “should”, “could”, “may”, “predict”, “plan”, “propose”, “will”, “believe”, “forecast”, “estimate”, “target”, “outlook”, “guidance” and other similar expressions within the meaning of securities laws of applicable jurisdictions and include, but are not limited to, indications of, or guidance or outlook on, future earnings or financial position or performance of AnteoTech. The Estimates and Projections are based on information available to AnteoTech as at the date of the Announcement, are based upon management’s current expectations, estimates, projections, assumptions and beliefs regarding future events in respect to AnteoTech’ business and the industry in which it operates which may in time prove to be false, inaccurate or incorrect. The Estimates and Projections are provided as a general guide and should not be relied upon as an indication or guarantee of future performance. The bases for these statements are subject to risk and uncertainties that might be out of control of AnteoTech and may cause actual results to differ from the Announcement. No representation, warranty, or guarantee, whether express or implied, is made or given by AnteoTech in relation to any Estimates and Projections, the accuracy, reliability, or reasonableness of the assumptions on which the Estimates and Projections are based, or the process of formulating any Estimates and Projections, including that any Estimates and Projections contained in this Announcement will be achieved. AnteoTech takes no responsibility to make changes to these statements to reflect change of events or circumstances after the release.

# Maximising high silicon anode performance

26 June 2025

Manuel Wieser – CTO

Mainz, Germany – 15<sup>th</sup> International AABC Europe



# Disclaimer



## AABC Europe 2025 – Mainz, Germany

### **IMPORTANT INFORMATION**

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# Leading in high silicon anode technology



ANTEOX<sup>TM</sup>

BINDER  
ADDITIVE  
"CROSS LINKER"  
TECHNOLOGY

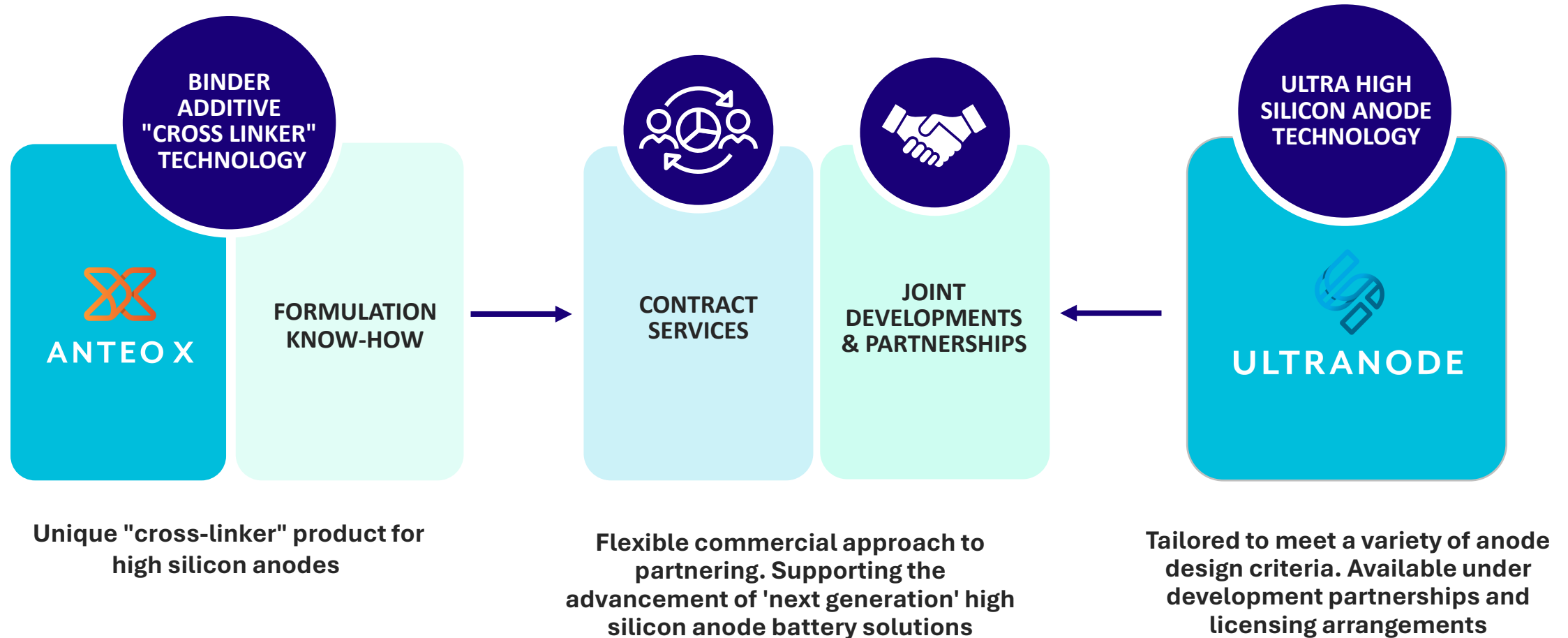


ULTRANODE<sup>TM</sup>

ULTRA HIGH  
SILICON ANODE  
TECHNOLOGY

# Technology Platforms & Commercial Engagement Frameworks

Combining AnteoTech's silicon-enabling products and anode design know-how we create pathways to smaller, lighter and cheaper Lithium-ion Batteries (LiB) for our customers

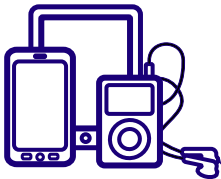


# Partnerships and Customer Relationships currently in progress



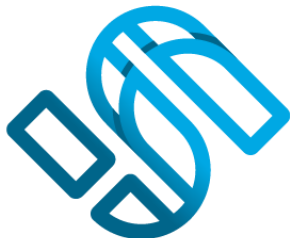
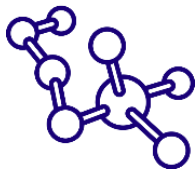
Our partnerships span the value chain from advanced materials to application OEMs

**3C Battery  
Manufacturer**



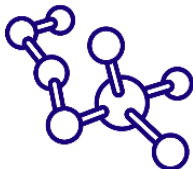
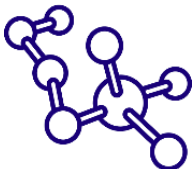
**Automotive OEM**

**Global Speciality  
Chemical Company**



**WYON**  
SWISS BATTERIES

**CNT Company**



**Separator Coatings**



**Defence battery  
manufacturer**



# Anteo X™ – A cross-linking additive product for high silicon anodes AnteoTech

Anteo X cross-links binders to create uniform 3D network structures improving the electrochemical and mechanical performance of batteries

## Safe and Versatile

- Non-hazardous, water-based and PFAS free
- Compatible with a large range of commonly used binders
- Easy to integrate into manufacturing processes

## Delivering Increased performance

- Increased capacity retention by up to 5% <sup>1</sup>
- Improved cycle life (in excess of 35% achieved) <sup>1</sup>
- Reduced expansion by up to 40% achieved <sup>2</sup>

## Potential for improved cost efficiencies

- Reduction and/or optimisation in binder content by >2wt.% <sup>3</sup>
- Reduction and/or optimisation in CNT content by 50% <sup>1</sup>

<sup>1</sup>Demonstrated in full coin cells with a 20% Si/C containing anode at 80% of original anode coating capacity

<sup>2</sup>Demonstrated in AnteoTech's proprietary Ultranode™ design at cycle 100 at cycling capacity of 1,300mAh/g (C/2)

<sup>3</sup>Demonstrated by external party in 80% SiO<sub>x</sub> anode for eVTOL applications



WITH  
ANTEO X



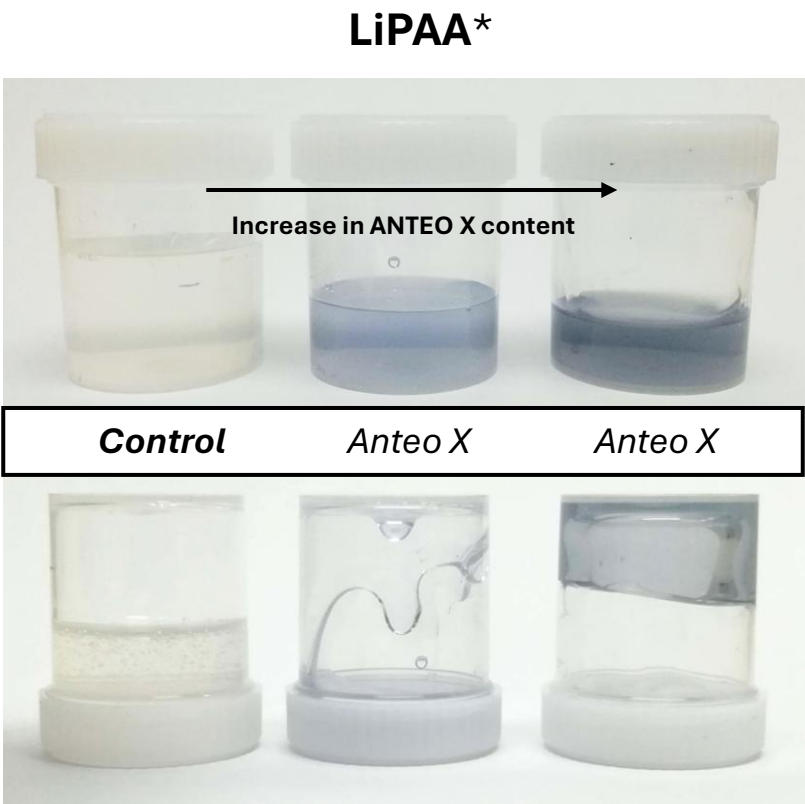
Unique cross-linking technology  
supporting battery binding



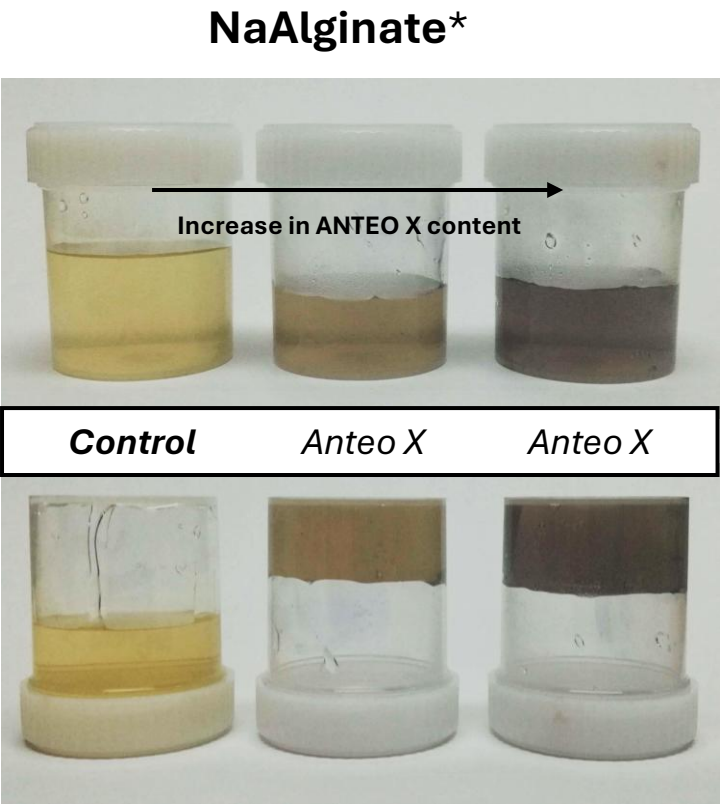
# Anteo X™ – A cross-linking additive for high silicon anodes



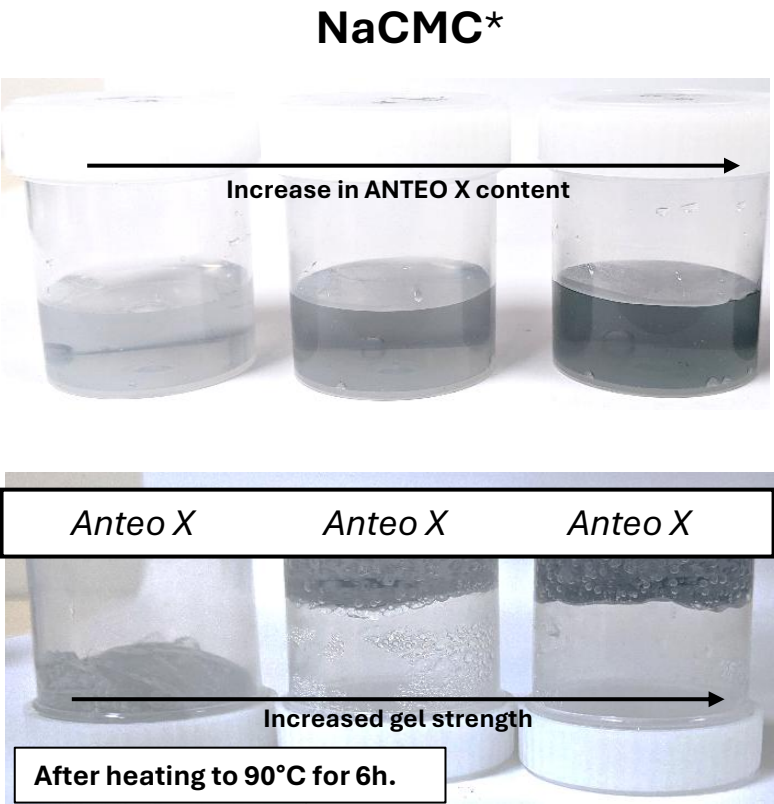
➤ *Cross-linking chemistry that can be paired with a range of binder materials*



\* sourced from Sigma Aldrich – 6wt.% in H<sub>2</sub>O, 80% neutr. with LiOH



\*sourced from Sigma Aldrich – ≥2,000 cP, 2 % (25 °C), 2 wt.% in H<sub>2</sub>O



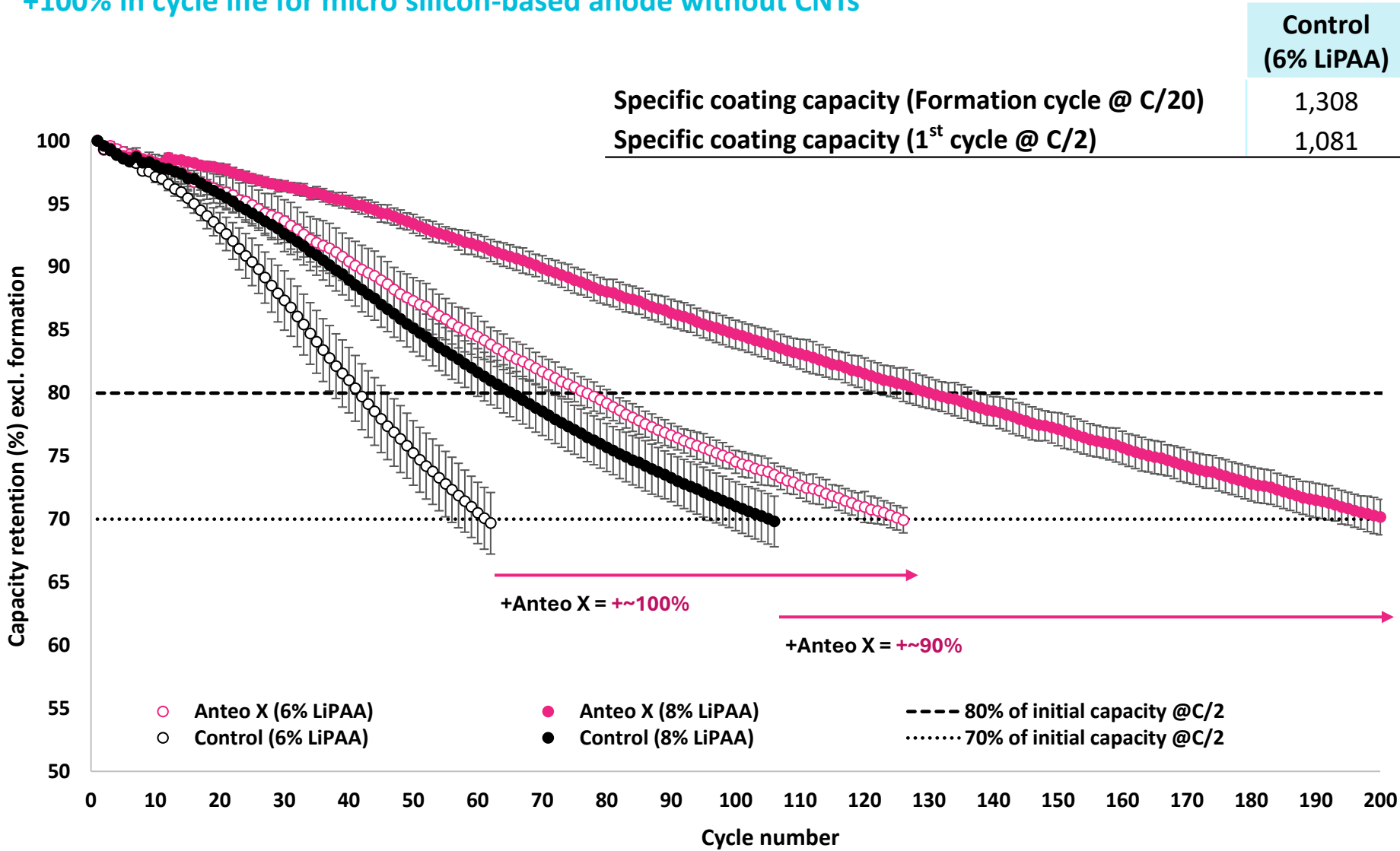
After heating to 90°C for 6h.

\* sourced from MTI – 400,000 g/mol, 1.5 wt.% in H<sub>2</sub>O

# Anteo X™ – Performance results in full coin cells



+100% in cycle life for micro silicon-based anode without CNTs



Control (6% LiPAA)	Anteo X (6% LiPAA)	Control (8% LiPAA)	Anteo X (8% LiPAA)
1,308	1,300	1,291	1,290
1,081	1,080	1,074	1,074

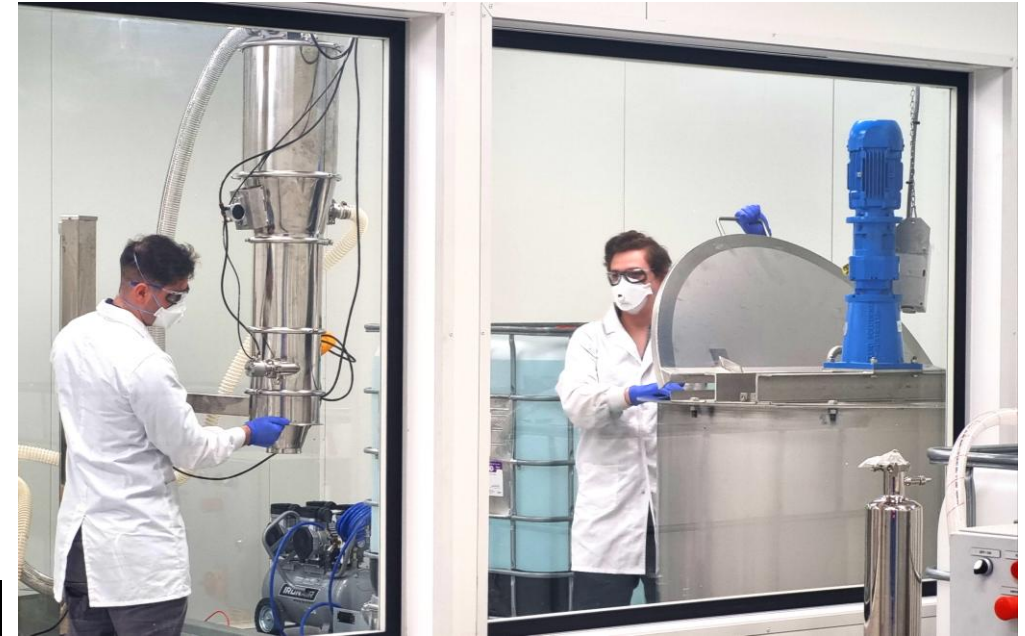
**EXPANSION STUDY**  
Capacity @ C/20 ~1,600 mAh/g  
Capacity @ C/2 ~1,300 mAh/g

Reduction in expansion @ cycle 100

8% PAA	-8%
6% PAA	-32%
4% PAA	-43%

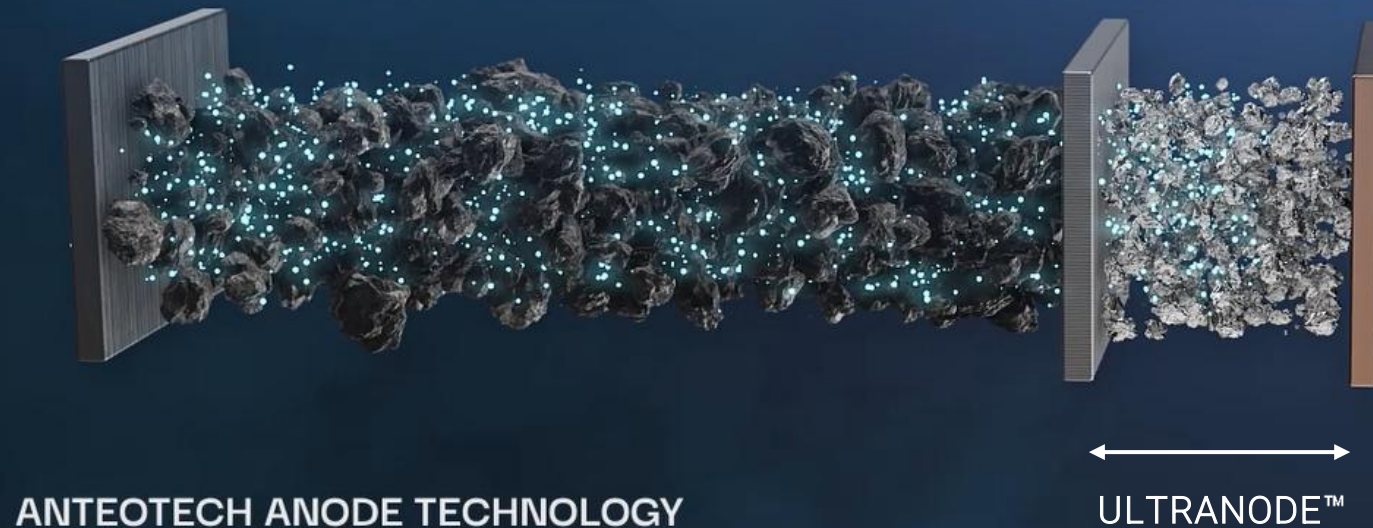
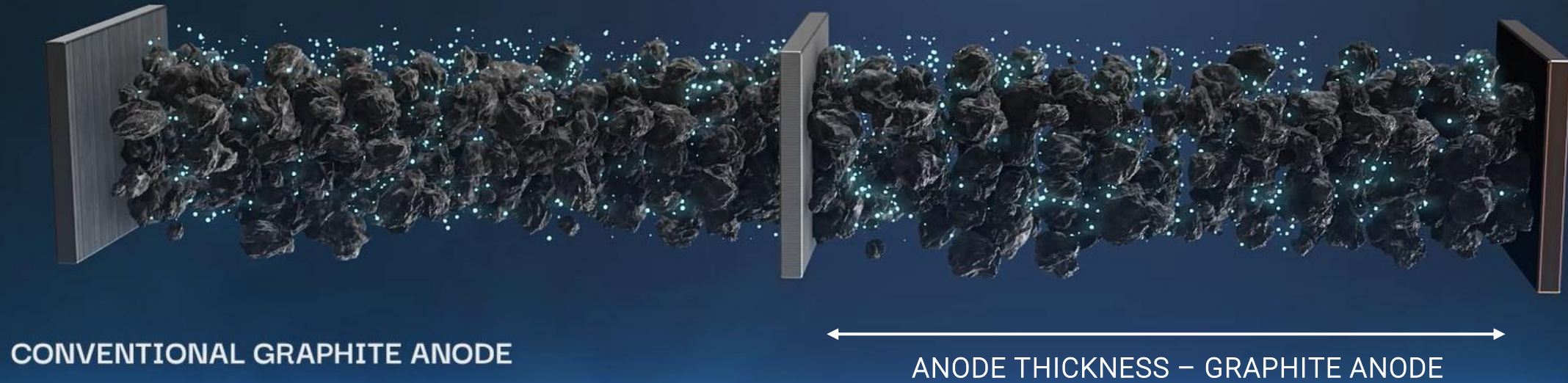
# Anteo X™ – Production facility

- Anteo X manufacturing facility located at AnteoTech's HQ in Brisbane
- Production capacity of 20,000 liters/year
- With the capacity to expand to 80,000 liters/year





# Ultranode™ – Concept



## ULTRANODE™

- >70-95% silicon active material
- Crude micron-sized elemental silicon particles
- Available up to ton-scale in every geography





# Ultranode™ – Maximum Capacity

Highly customisable anode configuration using scalable and cost-effective components and processes

## Ultranode 95

- Maximum capacity anode coatings of 1,800-2,400mAh/g @ C/20
- “Low” cycle life 250 to 380 cycles @ 80%

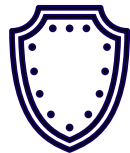
## Ultranode 70

- Medium capacity anode coatings of 600-1,200 mAh/g
- Intermediate cycle life of up to 670 cycles @ 80%

## Engagement mechanism - Sampling

- Sheets
- R2R coatings

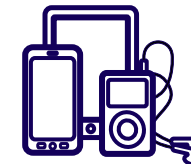
## APPLICATIONS



Niche/Defence



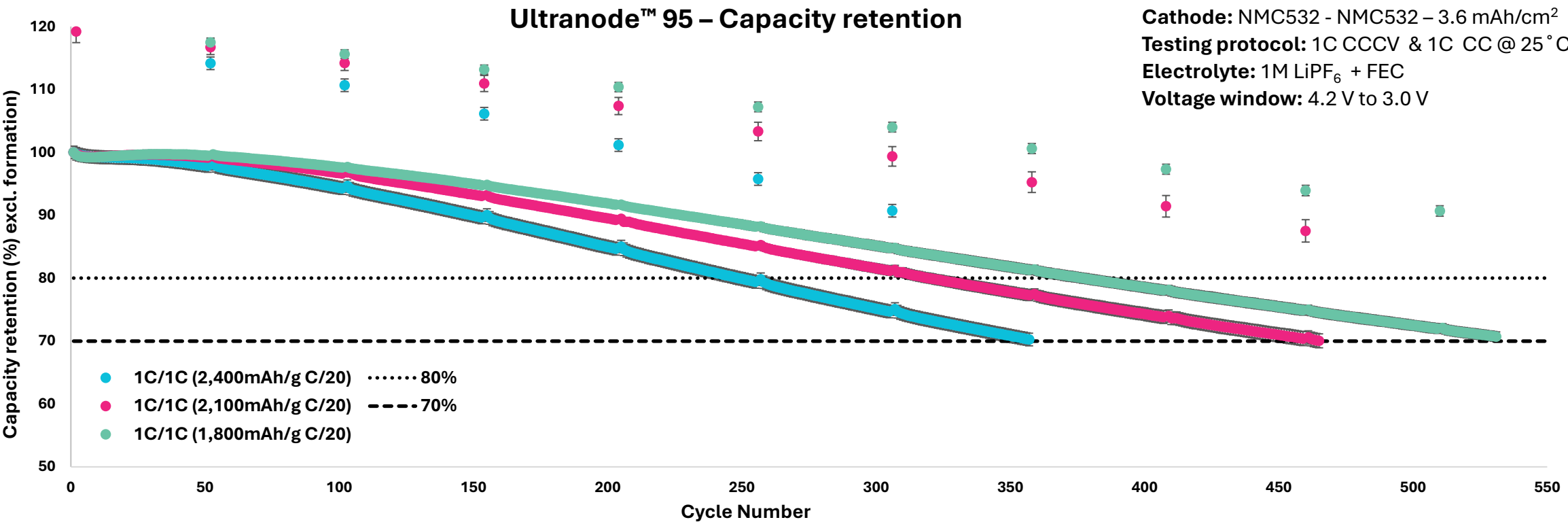
E-micromobility



3C Markets

# Ultranode™ 95 – Maximum Capacity

Delivers specific coating capacities of in between 1,800 to 2,400 mAh/g



Ultranode™ 95	Formation cycle discharge capacity @C/20 (mAh/g)	1 <sup>st</sup> cycle discharge capacity @1C (mAh/g)	Initial coulombic efficiency (%)	Cycle number at 80% capacity retention (excl. formation)	Cycle number at 70% capacity retention (excl. formation)
Ultranode 95	2,398	1,844	89.7	248	357
Ultranode 95	2,107	1,587	89.4	319	465
Ultranode 95	1,833	1,374	89.6	376	531

# Ultranode™ X – Maximum Cycle Life

Proprietary technologies and know-how to maximise cycle life for demanding yet cost sensitive applications

## Ultranode X

- Maximum cycle life for a given anode coating capacity target
- Specification driven by customer/partner requirements

## Currently achieves

- Coating capacities of in between 900 to 1,100mAh/g @C/20
- Up over 800 cycles at 1C/1C rates with roadmap to >1,000 cycles

## Engagement mechanism

- Partnerships
- JDAs

## APPLICATIONS

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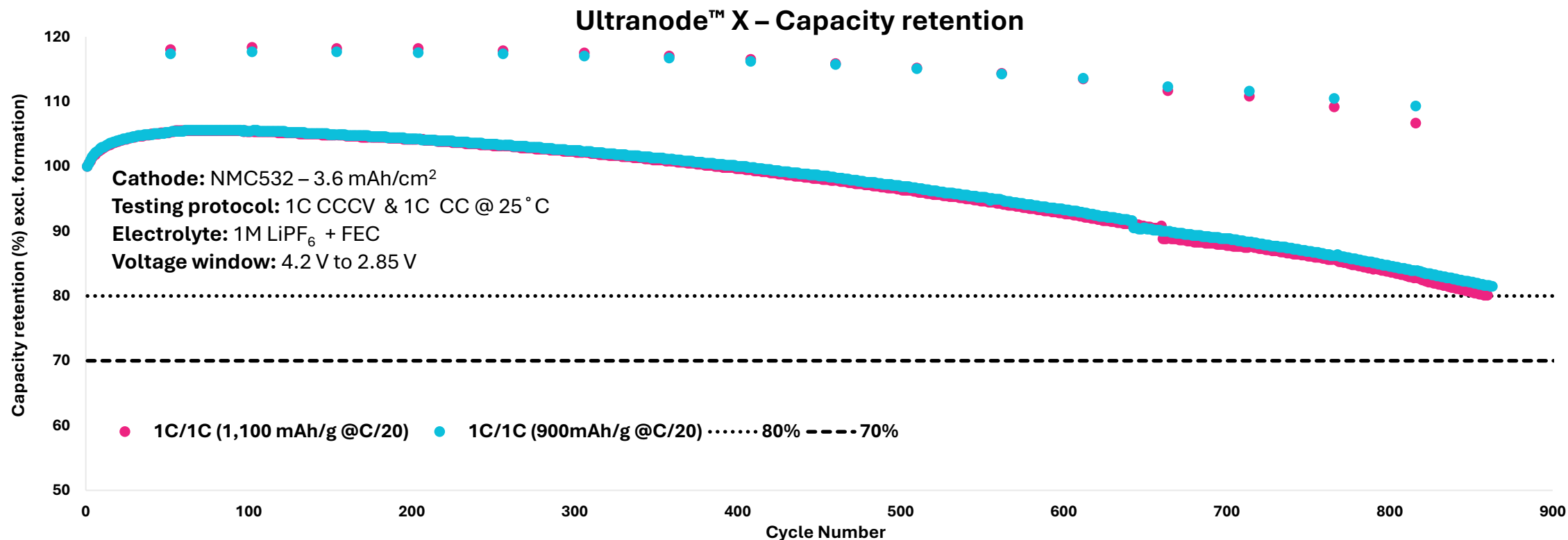
Electric Vehicles



eVTOL

# Ultranode™ X – Maximum Cycle Life

Delivers maximum cycle life for specific coating capacities of in between 900mAh/g to 1,100mAh/g



## Ultranode™ X

	Formation cycle discharge capacity @C/20 (mAh/g)	1 <sup>st</sup> cycle discharge capacity @1C (mAh/g)	Initial coulombic efficiency (%)	Cycle number at 80% capacity retention (excl. formation)
Ultranode X – 1,100mAh/g	1,088	746	90.1	860
Ultranode X – 900mAh/g	872	598	90.3	TBD



# Supporting Services in silicon anode formulation development



Deep experience and capabilities in silicon anode development and designs

## Optimising the inactive material fraction matters

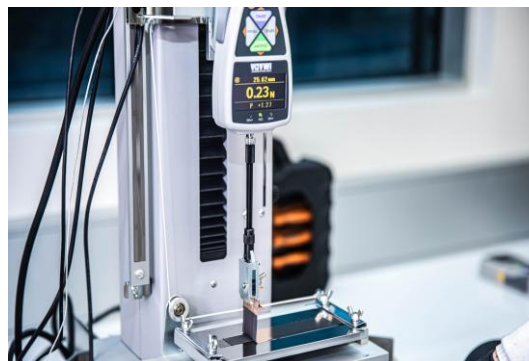
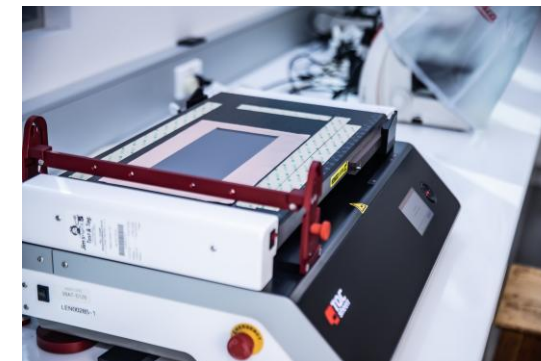
- Performance improvements and cost advantages
- Ever-growing number of design and material choices
- Optimising can be time consuming and expensive

## Partnering to accelerate development timeframes

- Established team and expertise to immediately tap into
- Extensive testing data set and experience base across materials
- Accelerated screening of formulations
- Independent assessments

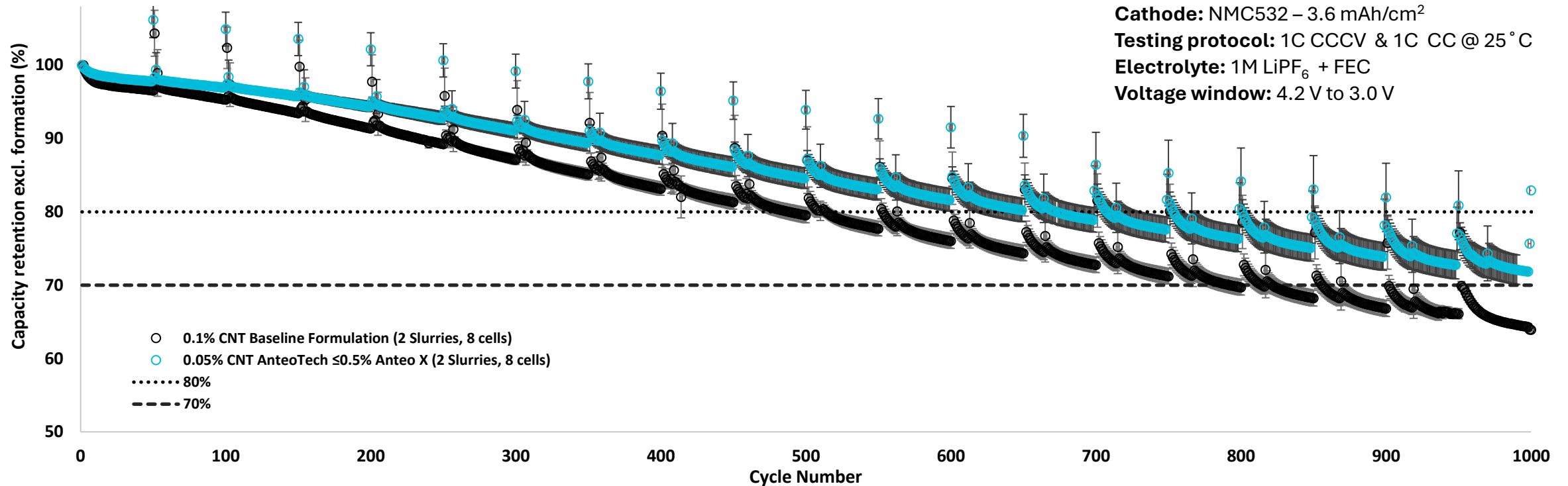
## In-house capabilities

- ~250m<sup>2</sup> R&D laboratory space
- Powder processing and slurry fabrication
- Electrode coating and cell assembly
- Full cell, half cell, CV, EIS and DCIR
- Capacity for 1,000 test channels



# Step 1 - Formulation Screening – 600mAh/g with Si/C and Gr

Potential cost savings by optimising the inactive material fraction of the anode



	Formation cycle discharge capacity @C/20 (mAh/g)	1 <sup>st</sup> cycle discharge capacity @1C (mAh/g)	Initial coulombic efficiency (%)	Cycle number at 80% capacity retention (excl. formation)	Cycle number at 70% capacity retention (excl. formation)	Final capacity at cycle 1,000 (mAh/g)
Baseline Formulation	603	467	84.68	489	793	287
0.05wt.% CNT ≤0.5wt.% Anteo X	603	474	86.00	674	>1000 (@71.85%)	340
Improvement	-	8	1.32	185 (38% increase)	>207 (>26% increase)	53

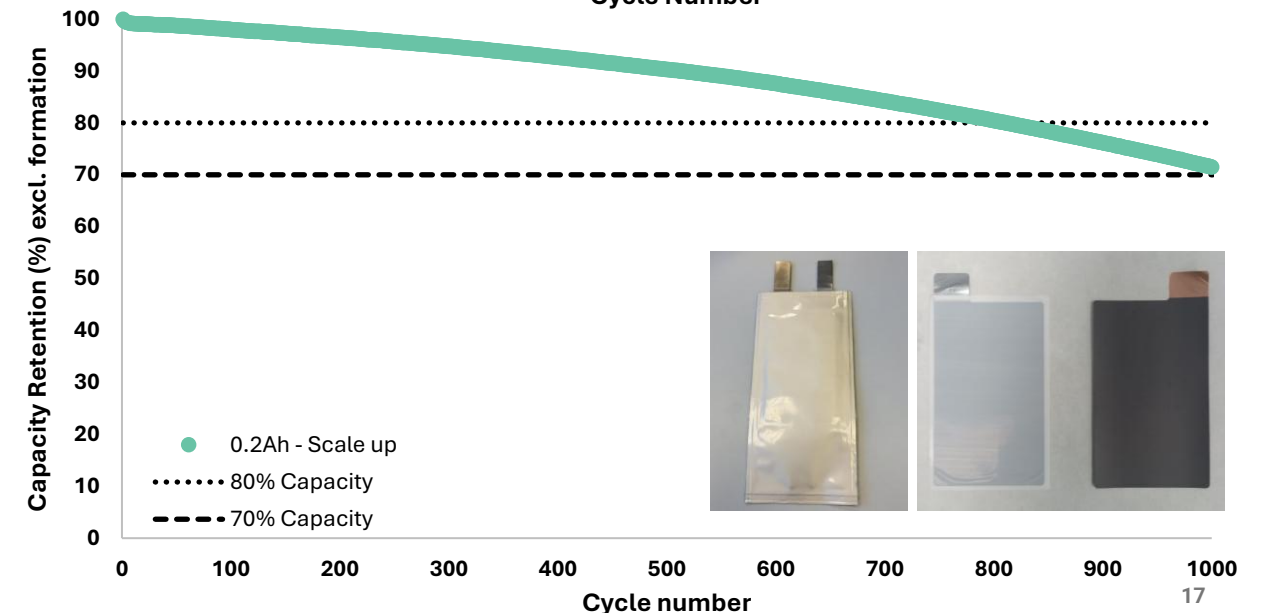
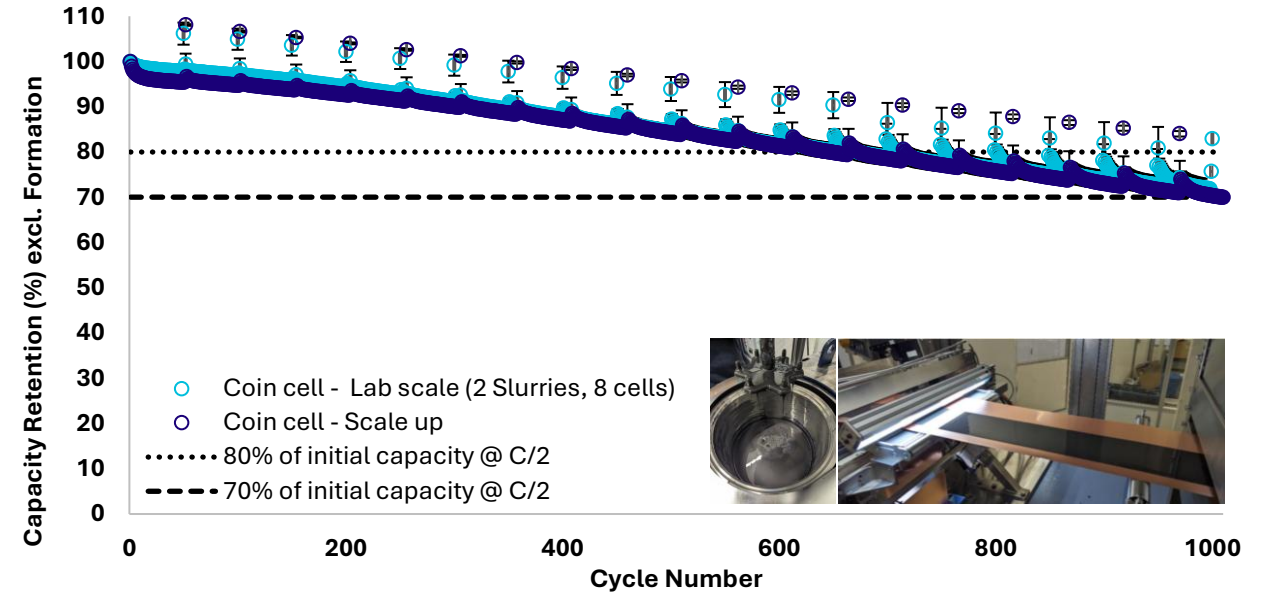
## Step 2 – Single-layer or Multi-layer Pouch Cells

### Lab-scale produced electrodes vs. R2R coated electrodes

- Full coin cells produced from A4 hand sheet coatings almost perfectly match results produced from R2R coated anode formulation
- Coin cell (A4 hand sheets): 673 cycles @ 80%**
- Coin cells (R2R coated): 653 cycles @ 80%**

### Full coin cells vs. Single Layer Pouch Cells

- The R2R coated anode formulation tested in 0.2Ah SLP cells showed a 17% improvement in capacity retention when compared against coin cell data
- Results from full coin cell to SLP cells showed excellent scalability
- 0.2Ah SLPs (R2R coated): 820 cycles @ 80%**



# Our Products, Technologies and What we can Deliver

Leading in silicon anode technology



**ANTEO X™**

- Cross-linker that can improve silicon anode performance by 30%
- Coated separator additive improving cost and safety
- “Jump start” Implementation support - Sample plus Lite service package
- +20,000L existing production capacity



**ULTRANODE™**

- Integrated silicon anode technology development expertise
- Highly customisable for Maximum Capacity or Maximum Cycle Life
- Cost effective silicon material sourcing support/established supply chains
- Range of commercial partnering opportunities



**FORMULATION  
SERVICES**

- Can rapidly deliver into customer’s formulation design
- Independent advice on silicon active materials
- Flexible service packages with clear pricing structures



# CONTACT US

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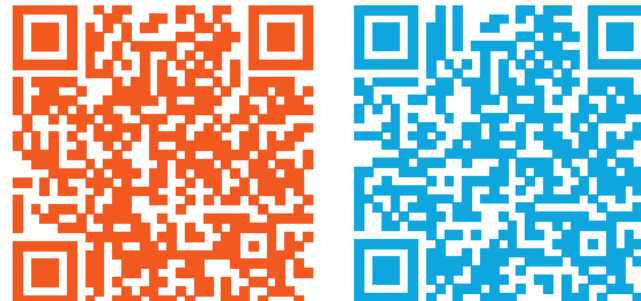
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Show Booth 5D21!



**ANTEO X™, PROPRIETARY  
CROSS-LINKER ADDITIVE**

Enabling our partners to cost-effectively produce lighter,  
more compact high-energy lithium-ion batteries.



**ULTRANODE™  
HIGH SILICON ANODE DESIGN**

Targeting Energy Density Improvement of more than 30%