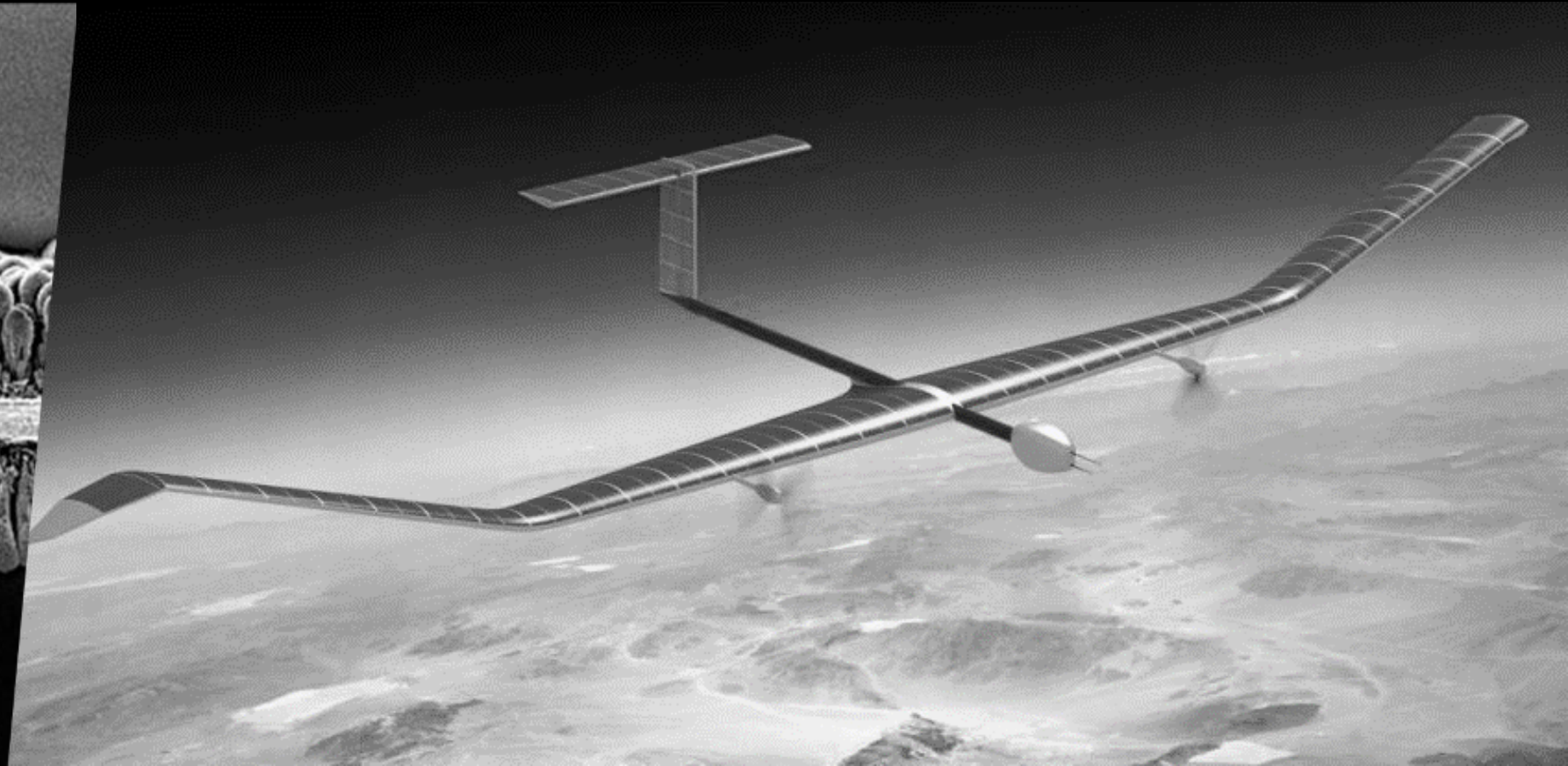
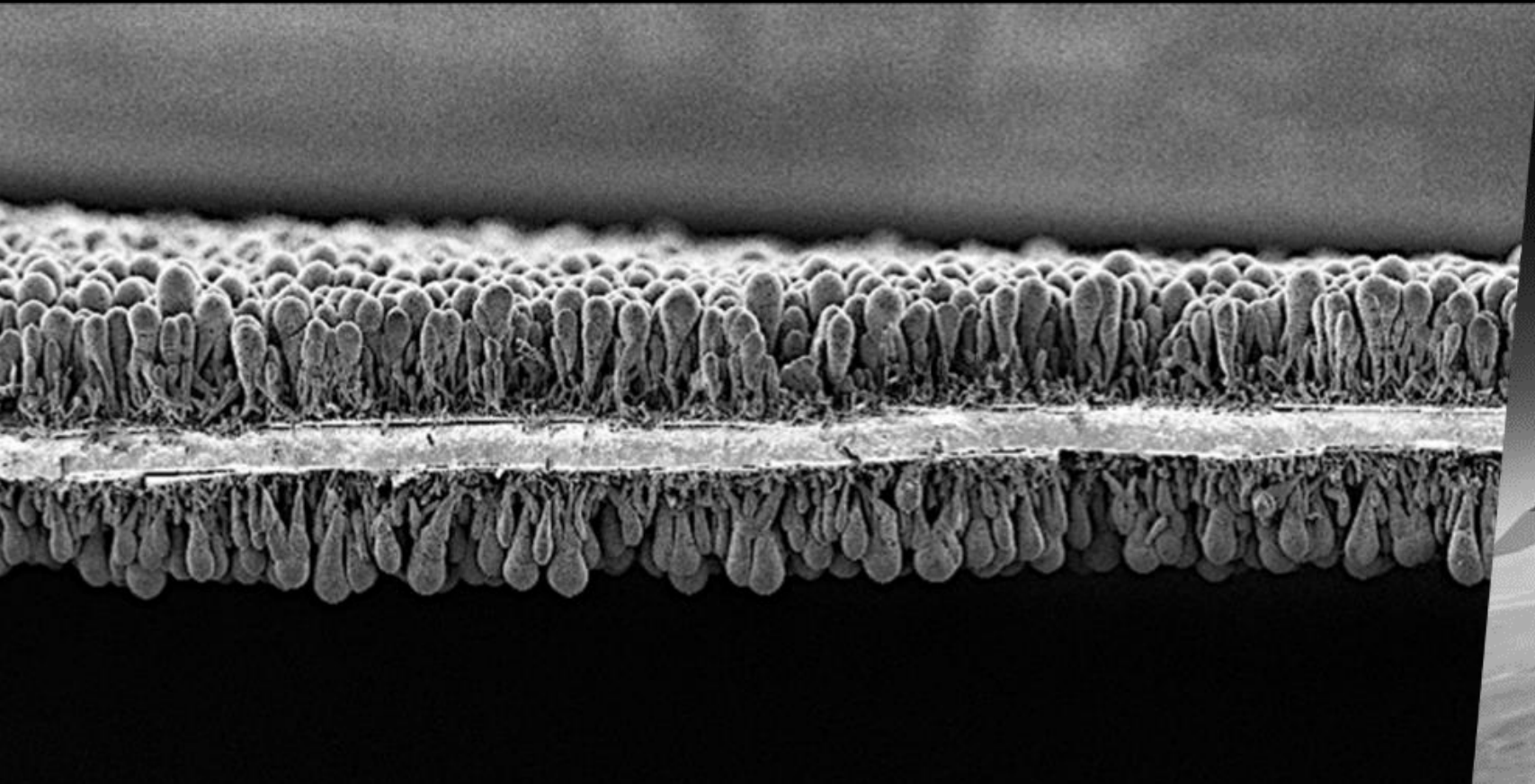


Transforming Electric Mobility



Investor Presentation

November 2022

DISCLAIMER

FORWARD-LOOKING STATEMENTS

This presentation and the oral statements made in connection herewith (together, this “Presentation”) includes “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including Amprius Technologies, Inc.’s (“Amprius”) management team’s expectations, hopes, beliefs, intentions or strategies regarding the future. Forward-looking statements may be identified by the use of words such as “estimate,” “plan,” “project,” “forecast,” “intend,” “expect,” “anticipate,” “believe,” “seek” or other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements include, but are not limited to, statements regarding Amprius’ expected product offerings, the addressable market for Amprius’ products, and Amprius’ ability to produce its products at a commercial level. These statements are based on various assumptions, whether or not identified in this Presentation, and on the current expectations of Amprius’ management and are not predictions of actual performance. These forward-looking statements are provided for illustrative purposes only and are not intended to serve as, and must not be relied upon by any investors as, a guarantee, an assurance, a prediction or a definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and will differ from assumptions. Many actual events and circumstances are beyond Amprius’ control. These forward-looking statements are subject to a number of risks and uncertainties, including changes in domestic and foreign business, market, financial, political and legal conditions; risks related to the rollout of Amprius’ business and the timing of expected business milestones; the effects of competition on Amprius’ business; supply shortages in the materials necessary for the production of Amprius’ products; the termination of government clean energy and electric vehicle incentives or the reduction in government spending on vehicles powered by battery technology; and delays in construction and operation of production facilities. Additional information concerning these and other factors that may impact the operations and projections discussed herein can be found in the “Risk Factors” section of Amprius’ proxy statement/prospectus filed with the Securities and Exchange Commission (the “SEC”) on September 1, 2022, and other documents filed by Amprius from time to time with the SEC, all of which are available on the SEC’s website at www.sec.gov. If any of these risks materialize or our assumptions prove incorrect, actual results could differ materially from the results implied by these forward-looking statements. There may be additional risks that Amprius does not presently know or that Amprius currently believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements. In addition, forward-looking statements reflect Amprius’ expectations, plans or forecasts of future events and views as of the date of this Presentation. These forward-looking statements should not be relied upon as representing Amprius’ assessments as of any date subsequent to the date of this Presentation. Accordingly, undue reliance should not be placed upon the forward-looking statements. Except as required by law, Amprius specifically disclaims any obligation to update any forward-looking statements.

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We Enable the Future of Electric Mobility Today

Innovation

100% silicon anode battery⁽¹⁾

Superior Battery Performance

- **High Energy Density**
Up to 450 Wh/kg⁽²⁾ and 1,150 Wh/L⁽²⁾⁽³⁾
- **High Power Density**
Up to 10C
- **Fast Charge Rate Capability**
80% charge in <6 minutes
- **Wide Operating Temperature**
-30°C to 55°C

Commercially Proven

Tested and validated by industry leading partners

Note: Certain performance metrics are based on specific Amprius products.

(1) Actual percentage of silicon is 99.5-99.9% which is within the range of acceptable purity levels for materials that are considered 100%.

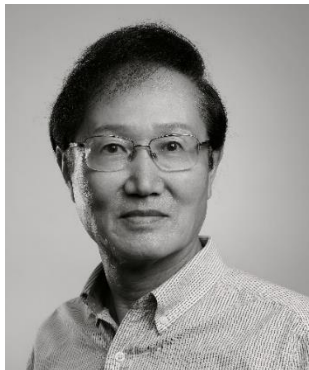
(2) At C/10 and 23°C.

(3) Volumetric energy density is calculated using body dimensions at 30% state of charge ("SoC").



Technology Innovators and Experienced Business Operators

Core Operational and Technical Team has been at Amprius for 10+ Years



DR. KANG SUN

Chief Executive Officer and Director

Led two successful business ventures in renewable energy – JA Solar Co. Ltd. (launched IPO on NASDAQ) and RayTracker Inc. (acquired by First Solar Inc.).

Former VP and GM at Honeywell; VP and CTO at Océ, N.V.

Ph.D. Materials Science, Brown University.



SANDRA WALLACH

Chief Financial Officer

Experienced public company CFO.

Former CFO of Identiv (NASDAQ: INVE); VP of Finance at MiaSole and Juniper Networks; CFO of General Electric's (GE) Industrial Systems, Drives & Controls division.

B.A. Economics and Public Policy, University of California, Berkeley.



JON BORNSTEIN

Chief Operating Officer

Silicon Valley veteran with 25 years' experience in the semiconductor industry leading high-volume manufacturing, product development and R&D.

M.S. Materials Science, Stanford University.



DR. IONEL STEFAN

Chief Technical Officer

Recognized expert in electrochemistry and energy storage.

Leads the company's scientific research and development of high-energy and high-power batteries.

Ph.D. Chemistry, Case Western Reserve University.



DR. WEIJIE WANG

Chief Scientist

Pioneer of design and fabrication of the silicon nanowire anode.

Renowned expert in vapor phase deposition technologies.

Responsible for nanowire development and manufacturing.

Ph.D. Condensed Matter Physics, Lanzhou University.



RONNIE TAO

VP of Business Development

Industry veteran with buyer and supply-side experience, sales and strategic development.

Successfully led market penetration towards industry leadership in Micro-Mobility, Consumer Electronics, Smart Home Robotics and Smart Home Devices.

MBA, University of Rochester – Simon Business School.



AARON BAKKE

VP of Quality and Manufacturing

Experienced leader in quality assurance, lean manufacturing ERP implementation and supply chain.

Globally recognized accomplishments in quality and manufacturing.

MBA, Northwestern University – Kellogg School of Business.



Track Record of Creating Significant Public Shareholder Value

Board of Directors



DON DIXON

Chairman of the Board



DR. STEVEN CHU

Board Director

1997 Nobel Prize for Physics



DR. WEN HSIEH

Board Director



JUSTIN MIRRO

Board Director



DR. KANG SUN

**Chief Executive Officer
and Board Director**

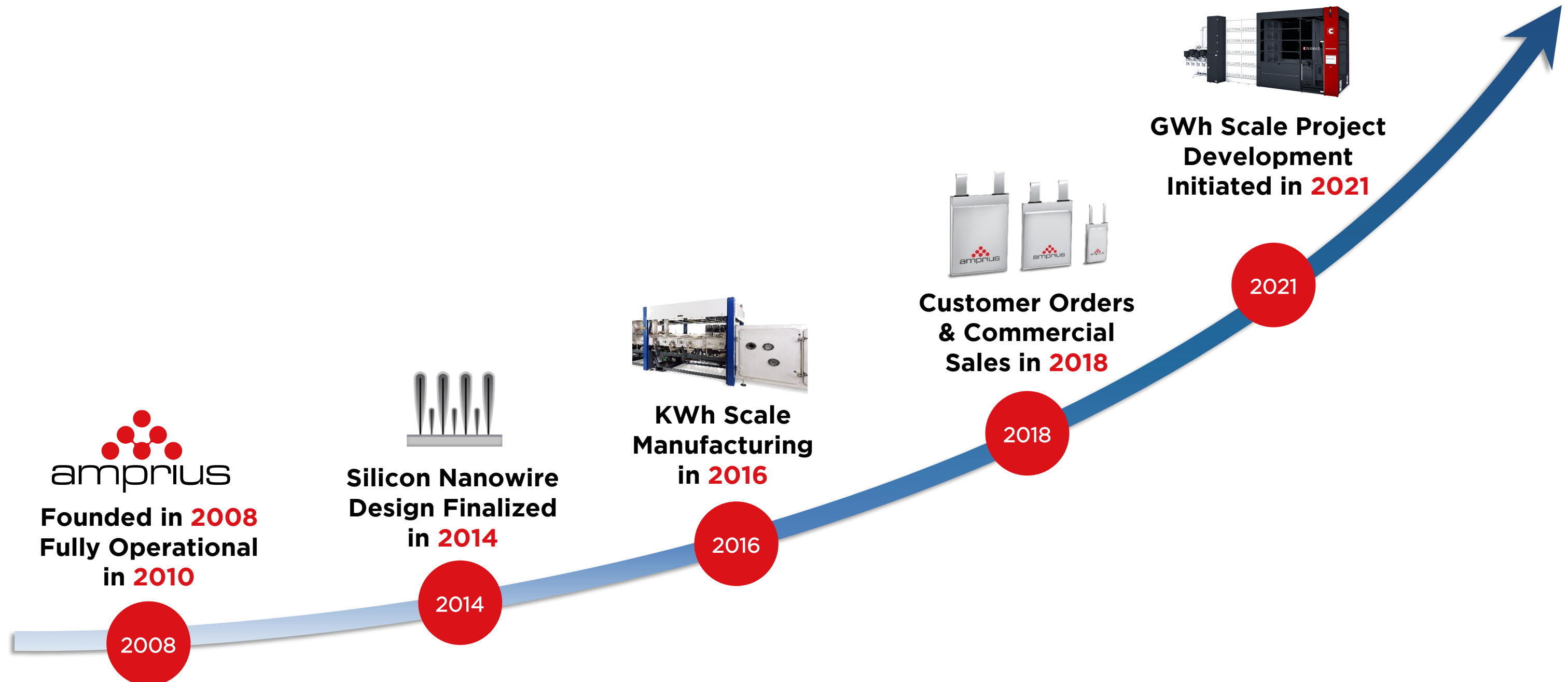


Selected Investors⁽¹⁾



(1) Represents investors in Amprius, Inc., which owned 99.6% of Amprius as of June 1, 2022.

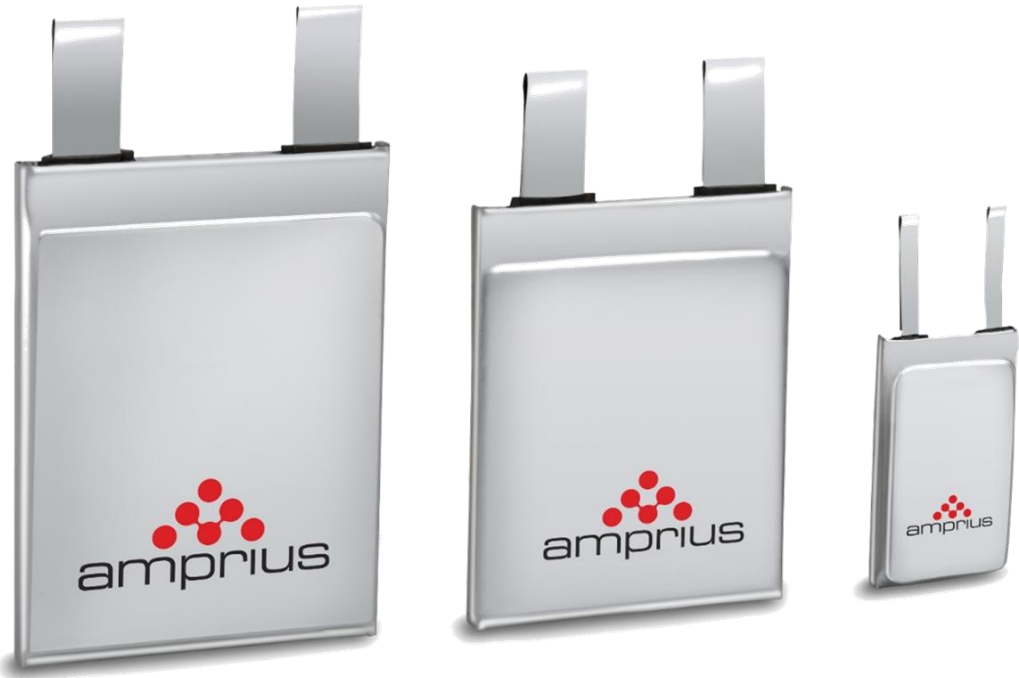
Turning a Transformational Technology Into a Commercial Reality



High Performance Battery Offerings

Commercially Available Today and Validated by Blue Chip Partners

100% Silicon Anode Technology ⁽¹⁾	Founded in 2008 with Headquarters in Fremont, CA	Up to 80% Higher Energy Density than Conventional Batteries	75 Patents ⁽²⁾
~250 KWh Commercial Manufacturing Capacity Today	30+ Customers Validated Performance	10,000+ Batteries Shipped	10 SKUs





Airbus Defence and Space 2021 Innovative Supplier of the Year Award



USABC Low Cost, Fast Charging Silicon Nanowire Cell Technology Contract Award

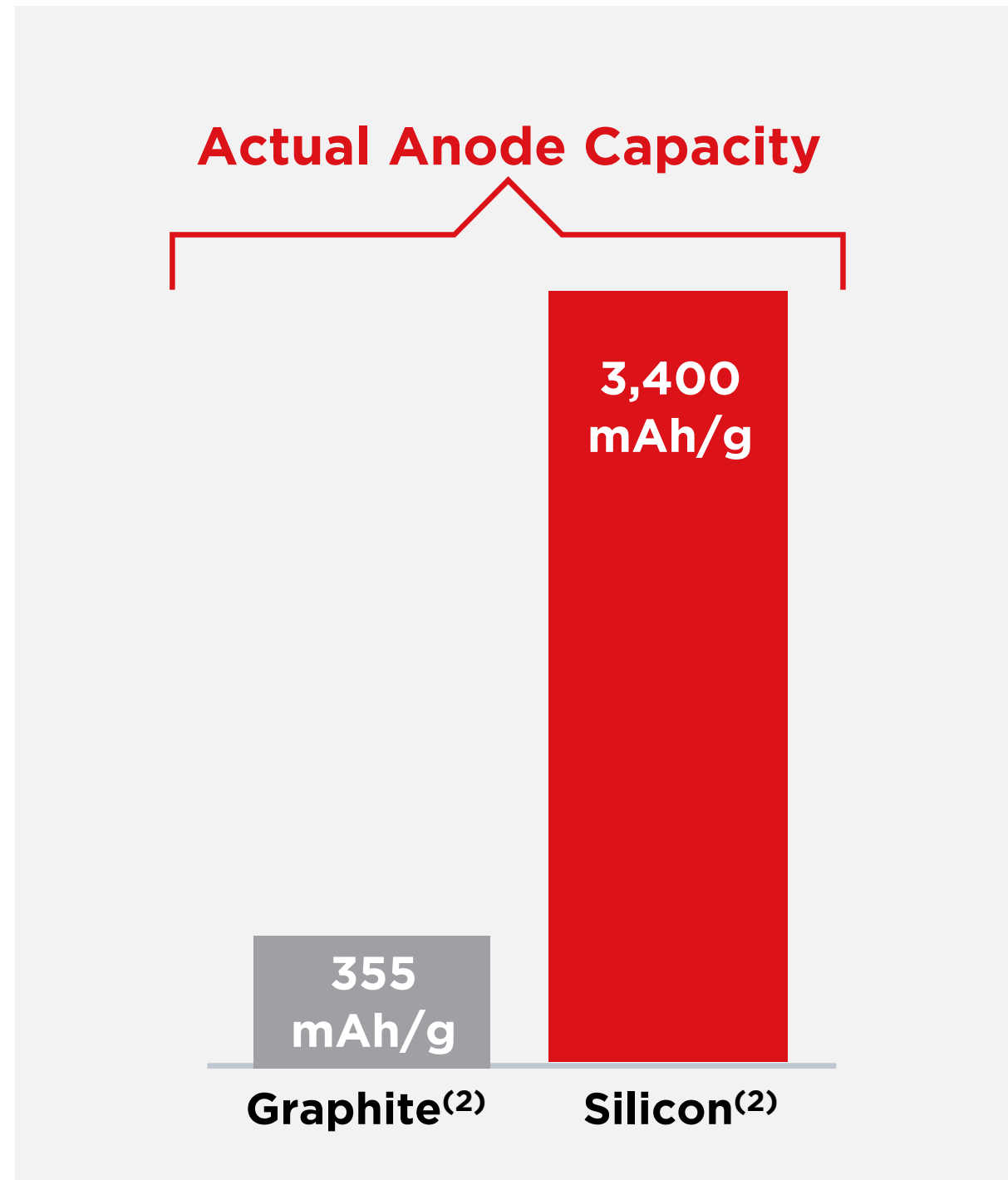


World Changing Ideas 2022 Finalist Fast Company

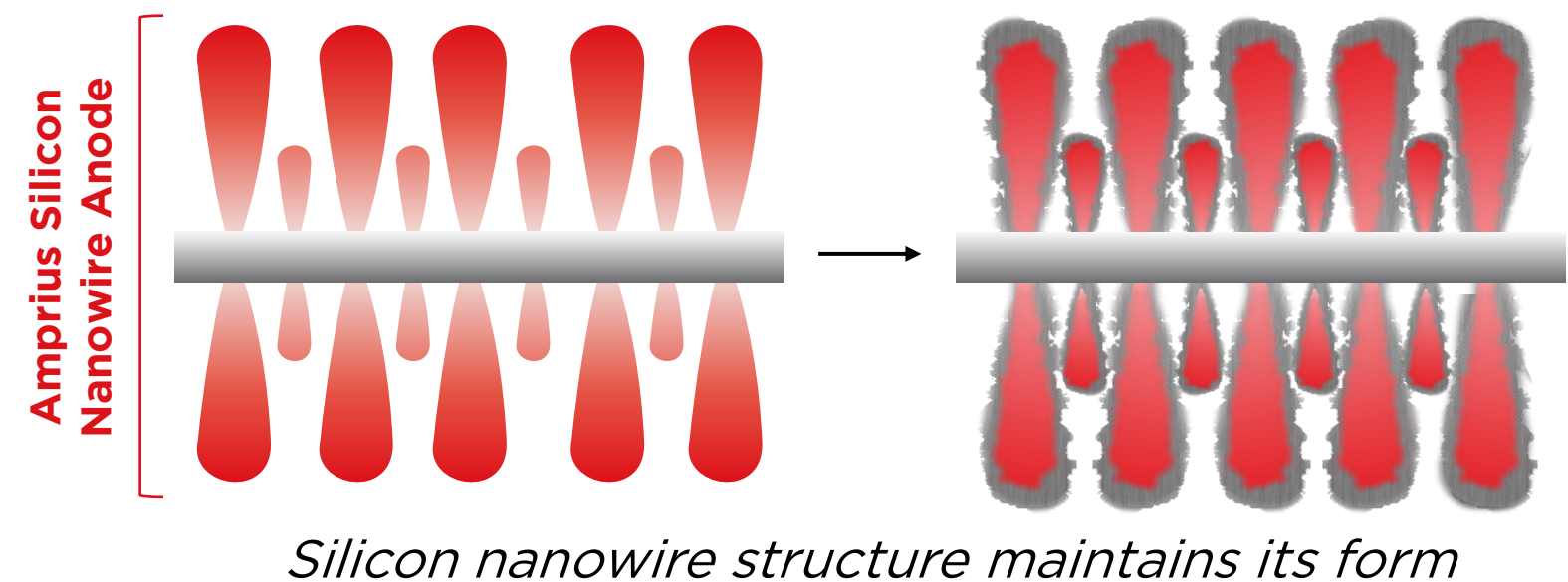
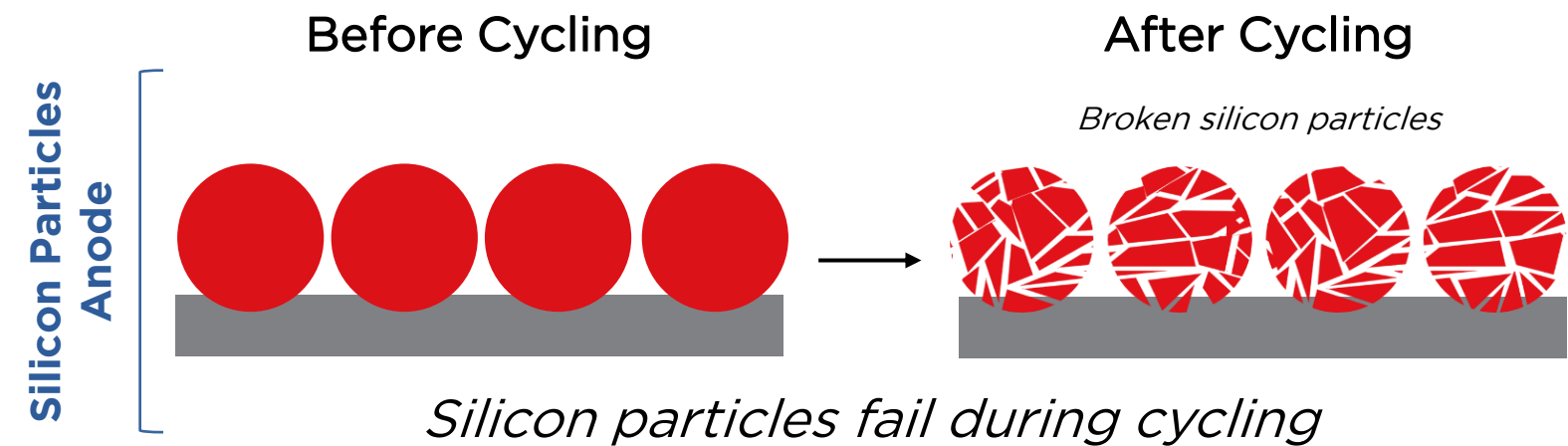
(1) Actual percentage of silicon is 99.5-99.9% which is within the range of acceptable purity levels for materials that are considered 100%.

(2) As of April 28, 2022, 62 patents had been issued (29 in the U.S. and 33 in the EU, Korea, Japan, China, Taiwan and Israel), 11 patents are pending (6 in the U.S. and 5 in the EU, Japan, Korea, Taiwan and China) and 2 issued U.S. patents are licensed from Stanford University.

Why Silicon? 100% Silicon Anode⁽¹⁾ Has ~10x Capacity vs. Graphite



Silicon anode can swell up to ~300% causing battery damage after a few cycles

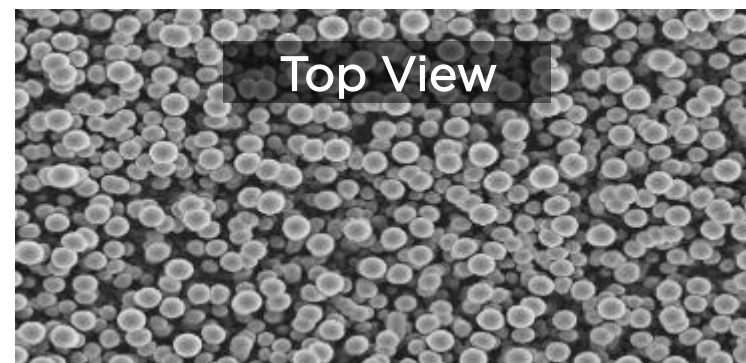
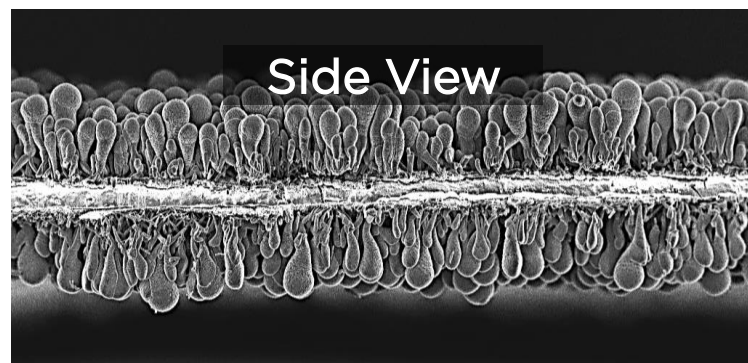
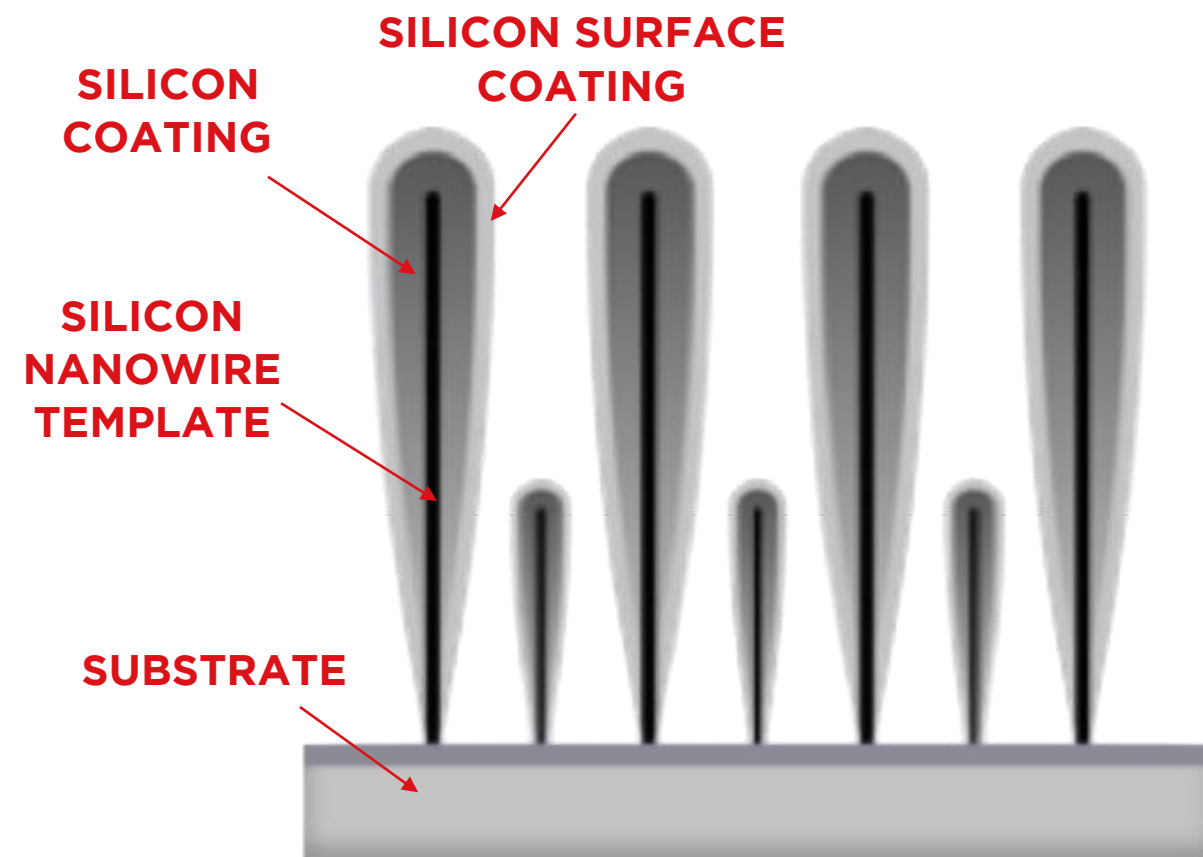


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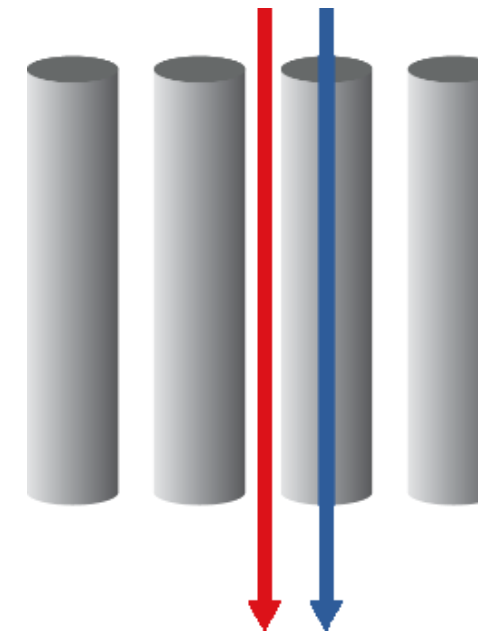
(2) Based on Ampricus measurements in half cells.

Amprius Solved the #1 Problem with Silicon Anodes

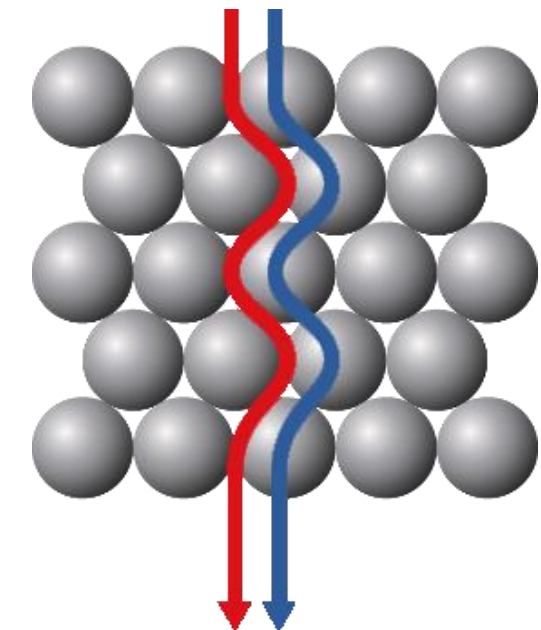
100% Silicon Nanowires⁽¹⁾ Allow Volume Expansion without Binders, Graphite or any Inactive Materials



Silicon Nanowires



Conventional Graphite (and/or Silicon) Particles

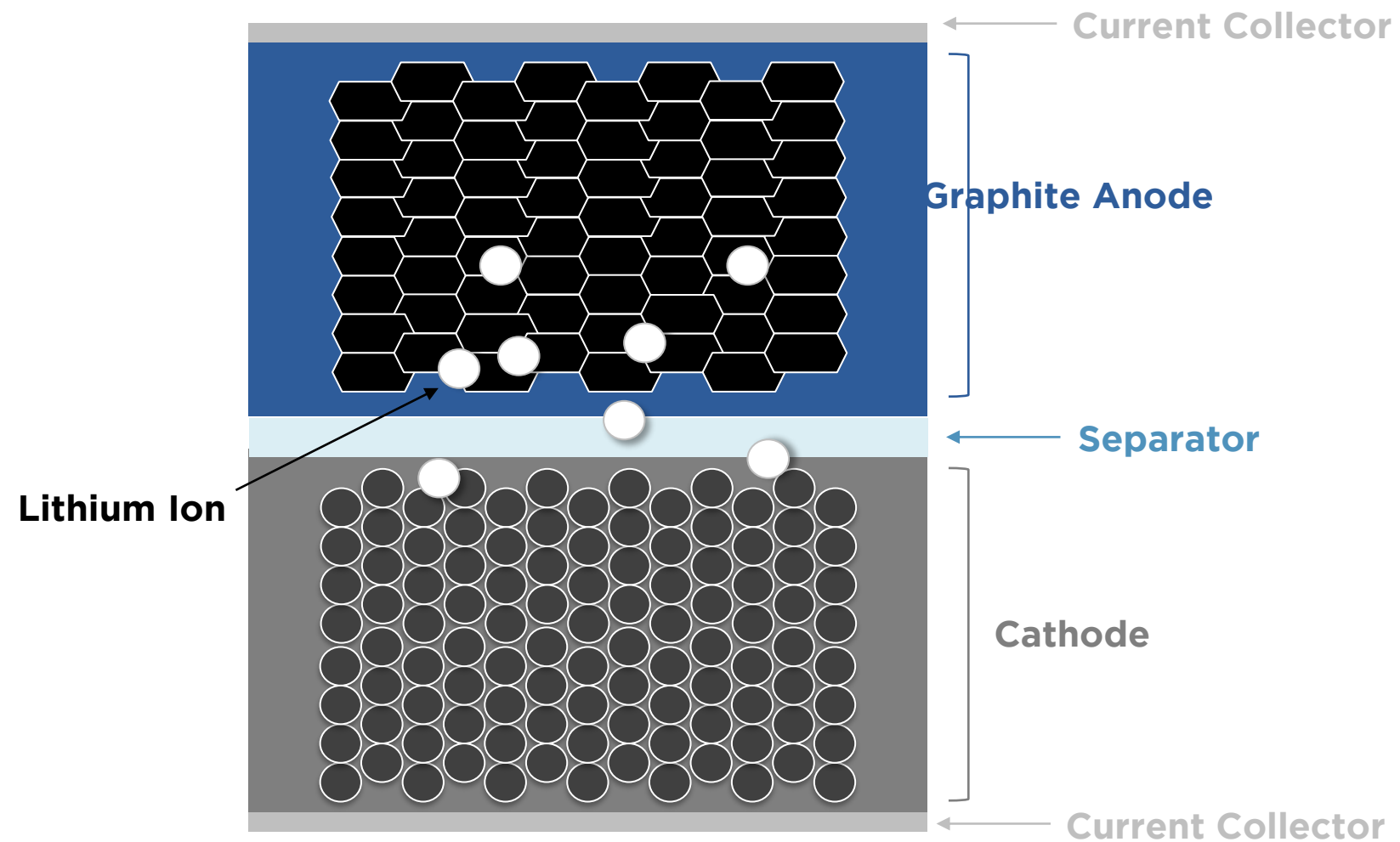


- *Spacing between nanowires and silicon porosity **accommodate silicon volume expansion***
- *Ions and electrons travel straight paths*
- *Most conductive path for ions and electrons results in **high power capability and fast charge rate***

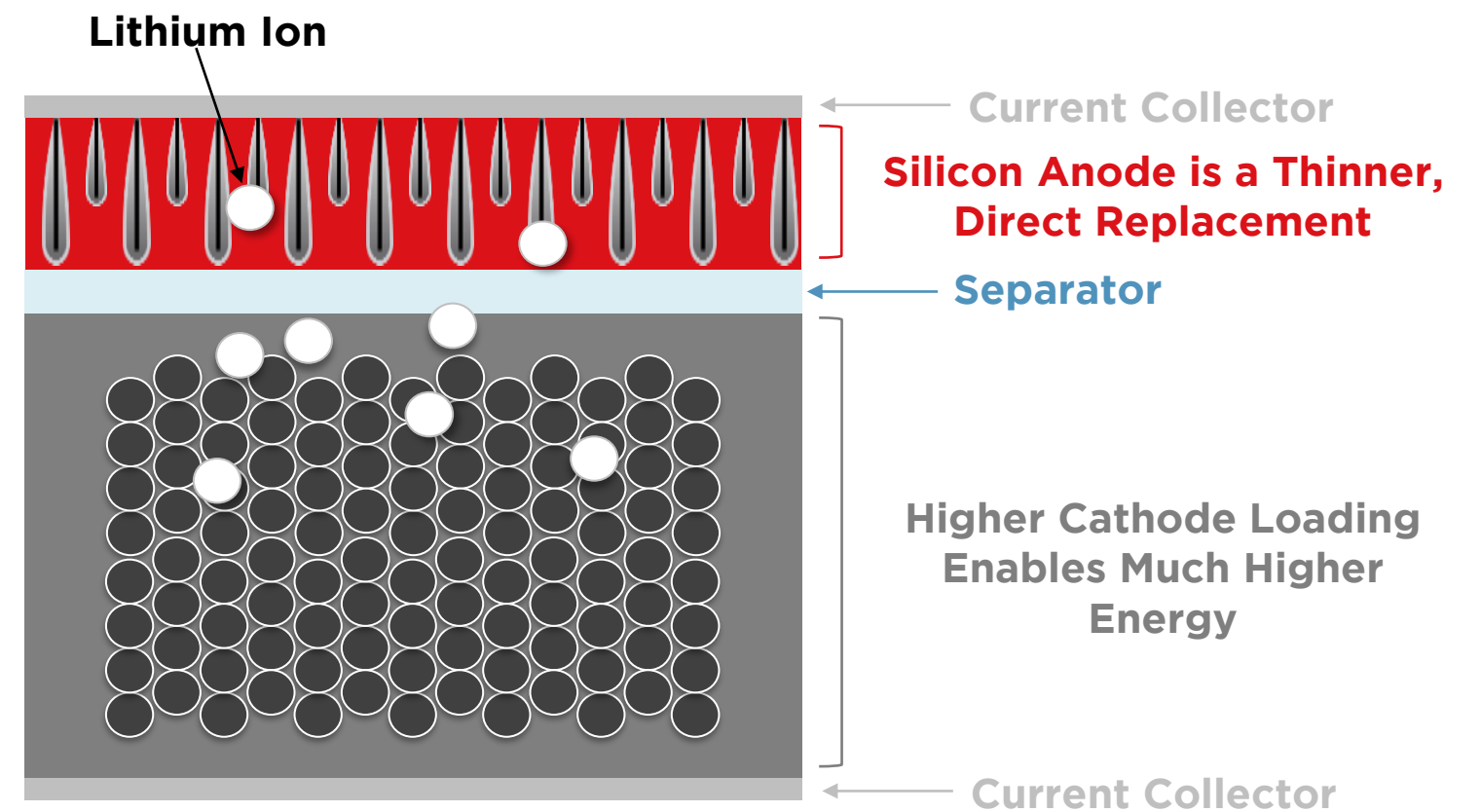
(1) Actual percentage of silicon is 99.5-99.9% which is within the range of acceptable purity levels for materials that are considered 100%.

Amprius' Anode is a Drop-in Replacement for Lithium-Ion Batteries

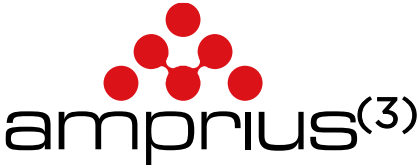
Conventional Graphite Battery



Amprius Silicon Anode Battery



Amprius' Battery Cells Today Outperform Graphite Batteries

Performance Metric	Graphite Anode Battery Cells ⁽¹⁾	 amprius ⁽³⁾
Anode Capacity (mAh/g) ⁽¹⁾⁽²⁾	335-355	1,500-2,500
Specific Energy (Wh/kg)	~215-285	360-500
Energy Density (Wh/L)	~530-715	890-1,400
Charging Time to 80%	30 minutes	<6 minutes ⁽⁴⁾
Rate Capability/Power	Up to 10C	Up to 10C
Cycle Life	500-1,000 cycles	200-1,200 cycles
Operating Temperature	-20 to 60°C	-30 to 55°C

(1) Other than cycle life, based on survey of 18650 technical datasheets (ex. Panasonic NCR18650G), Sony VTC6 technical datasheet, iFixit reports on iPhone and Samsung batteries and Y. Sun et al.: Li-ion Battery Reliability – A Case Study of the Apple iPhone. For cycle life, based on Shmuel De-Leon: Li-Ion NCA/NMC Cylindrical Hard Case Cells Market 2021.

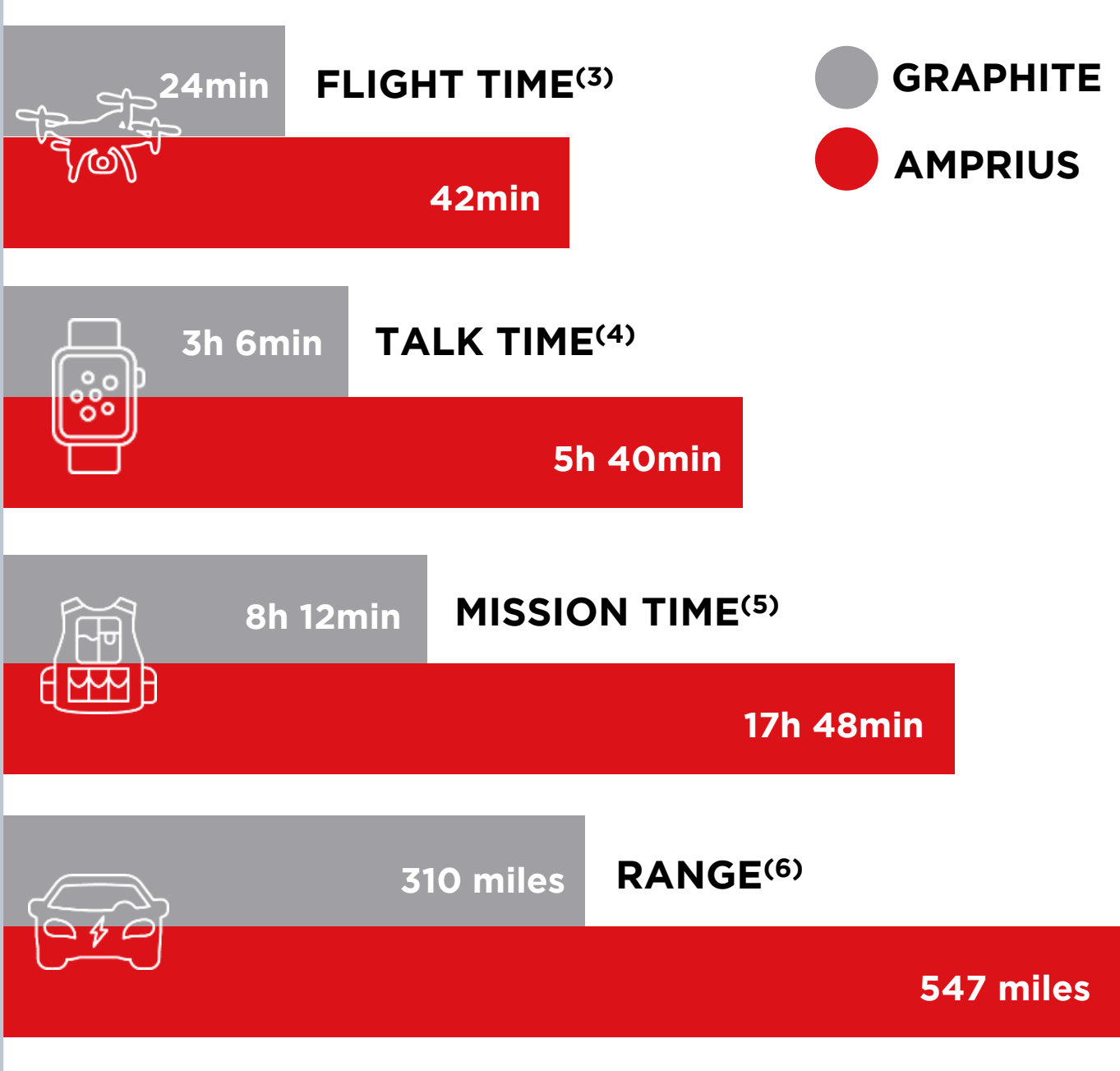
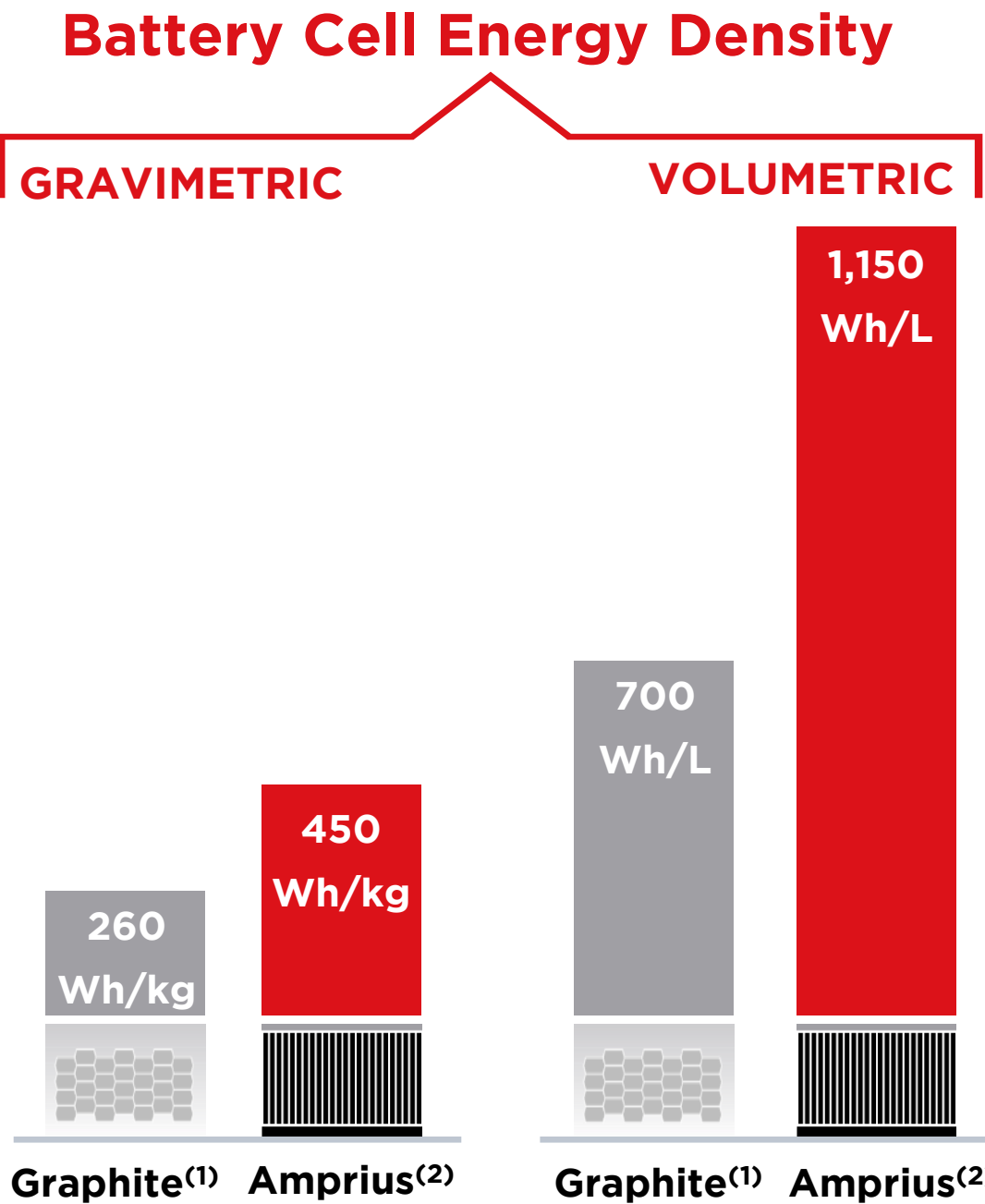
(2) Anode Capacity for Graphite Anode Battery (full cells) uses typical N/P ratio of 1.05 - 1.10.

(3) Includes both released and unreleased products with energy and power cell designs.

(4) Based on Amprius' High Power cells.

RELATIVE PERFORMANCE

Amprius Batteries Deliver Twice the Mission Time



(1) Survey of 18650 technical datasheets (ex. Panasonic NCR18650G) and iFixit reports on iPhone and Samsung batteries.
(2) Actual battery cell energy densities measured by Amprius for an energy cell design.

(3) Flight Time - estimated based on customer-generated models for a balanced power and energy cell design
(4) Talk Time - customer-reported data for an energy cell design.
(5) Mission Time - results from Conformal Wearable Battery developed for U.S. Army for an energy cell design.
(6) Range - estimated for a Tesla Model 3 long-range battery specifications for an energy cell design.

Amprius Utilizes Existing Commercial Manufacturing Processes

Cathode and Assembly Processes are Unchanged; the Only Change is to the Anode Manufacturing Line

SILICON NANOWIRE ANODE



BATTERY CATHODE



Mixing



Coating



Calendaring

SILICON NANOWIRE ANODE BATTERY ASSEMBLY



Slitting



Stacking



Formation

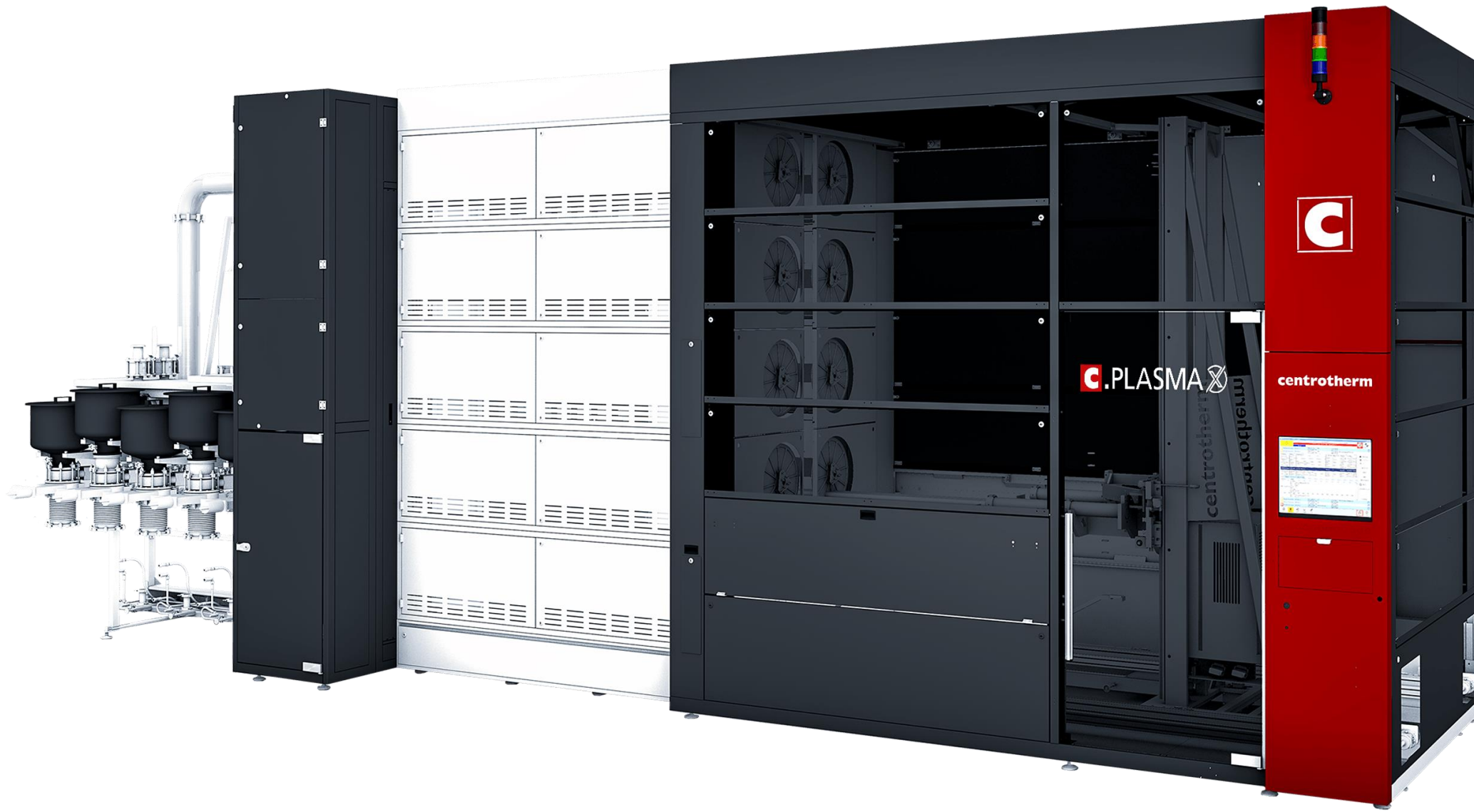


SILICON NANOWIRE ANODE MANUFACTURING LINE

TRADITIONAL BATTERY MANUFACTURING LINE

Equipment Designed for GWh-Scale Production

Large-Scale Anode Tool Leveraging Commercially-Used Solar Production Technology



- *Expected to partner with Centrotherm⁽¹⁾, a supplier of production solutions to the world's leading manufacturers of semiconductors and solar cells, to be our mass production tool provider*
- *Utilizing well-established tool provider is expected to reduce technical and schedule risk*

(1) <https://www.centrotherm.de/>

PLANNED HIGH-VOLUME MANUFACTURING FACILITY

U.S. High-Volume Manufacturing Facility

Key Criteria

-  *Skilled manufacturing workforce*
-  *Favorable taxes and incentive programs*
-  *Utilities and access to raw materials*
-  *Regulatory permitting*
-  *Real estate costs*
-  *Industrial construction experience*
-  *Accessibility of rail and interstate*

Top Locations Identified



TARGET MARKETS

Uniquely Positioned to Address the Aviation and EV Markets

Market Segment		Amprius Advantage	TAM - 2021	TAM -2025
Aviation	Unmanned Aerial Systems (“UAS”)⁽¹⁾ Drones for delivery, imaging, and military, including high altitude pseudo satellites (“HAPS”)	Ultra-high gravimetric and volumetric energy density and extreme-fast charge	\$15B	\$38B
	Air Transportation⁽²⁾ Passenger Airplanes (5-20 passengers) and Urban Air Mobility (“UAM”) (1-4 passengers)	Ultra-high gravimetric energy density and extreme-fast charge	\$2B	\$11B
EV	Electric Vehicles⁽³⁾	Ultra-high gravimetric density, operational in wide temperature and pressure ranges and extreme-fast charge	\$17B	\$67B
Total			\$34B	\$116B

(1) \$15B 2021 UAS battery market estimated as total UAS market in 2020 (\$25B, Allied Market Research) * Amprius estimate of battery spend per system and replacement batteries. \$38B 2025 UAS battery market estimated as total UAS market in 2025 (\$64B, InsiderIntelligence) * Amprius estimate of battery spend per system and replacement estimates.

(2) \$2B 2021 Air Transport battery market estimated as total Air Transport market in 2021 (\$8NB, Morgan Stanley Research) * Amprius estimate of battery spend per system and replacement estimates. \$11.1B 2025 UAM battery market estimated as total UAM Market in 2025 (\$37.0B, Morgan Stanley Research) * Amprius estimate of battery spend per system and replacement estimates.

(3) Electric vehicle battery market size from Markets and Markets Research February 2021 report.

Applications Enabled by Amprius' Batteries

	Unmanned Aerial Systems (Drones)	High Altitude Pseudo Satellites	Air Transportation
Product			
Application	Recon Drone	Stratospheric Satellite	eVTOL ⁽¹⁾
Amprius Product	<i>Balanced Energy/Power</i>	<i>High Energy</i>	<i>High Power</i>
Performance Specification	<i>1.4 Ah, 390 Wh/kg at C/5</i>	<i>5.8 Ah, 450 Wh/kg at C/10</i>	<i>15+ Ah, 380+ Wh/kg at C/5 with 6C long pulse</i>
End User Benefit	Very long endurance and increased capacity with no increase in weight or volume	<i>Ultra long sustained flight</i> at high altitude with max payload	eVTOL with extreme-fast charge and greatly extended service radius

(1) Actively sampling with OEMs and continuing to pursue joint development agreements.

Amprius Batteries Have Been Validated by Industry Leaders



- ❖ Amprius has enabled Airbus to set World Records for HAPS endurance and flight
- ❖ Amprius is designed into Airbus' HAPS platform
- ❖ Airbus Defence and Space 2021 Innovative Supplier of the Year Award
- ❖ Current Amprius Strategic Investor⁽¹⁾

*The high specific energy of Amprius batteries **enable** the Zephyr to fly uninterrupted in the stratosphere which **would not be possible with lower performance batteries.***

— Sophie Thomas
Airbus HAPS
Program Director

- ❖ New cell developed in H1'2022 and initiated commercial shipments



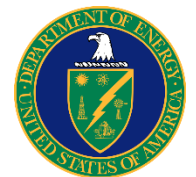
- ❖ Current Amprius Strategic Investor
- ❖ Commercial shipments in 2022 with backlog commitments through 2023



- ❖ 3-year Commercial Cooperation Agreement signed



- ❖ Awarded \$50MM Cost Sharing Grant Under Biden's Infrastructure Law
- ❖ Awarded \$1MM DOE Funding Grant for Advanced Battery Manufacturing



- ❖ Commercial shipments since 2017
- ❖ Nine development programs



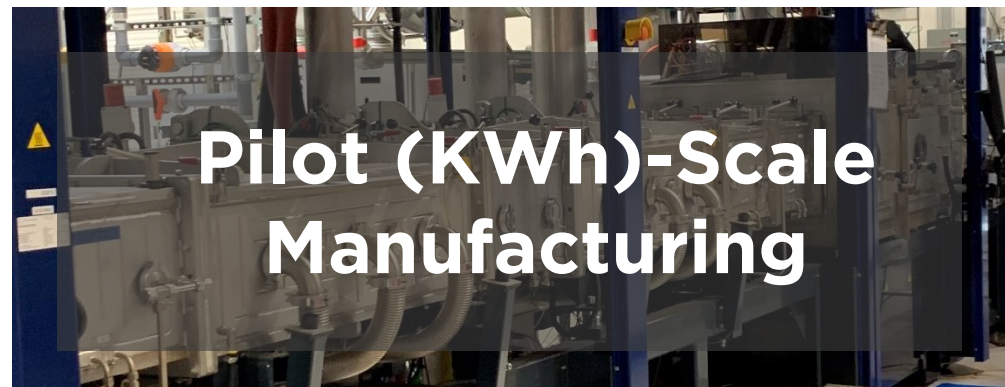
- ❖ Second multi-year development program for low-cost EV batteries with the United States Advanced Battery Consortium



(1) Airbus is an investor in Amprius, Inc., which owned 99.6% of Amprius as of June 1, 2022.

Expand Production Capacity to Support Customer Growth

What we have



What's next



Meet growing demand

Enable new customer wins

Reduce costs with scale

Expand market applications



Contact Us

Amprius Technologies

1180 Page Ave.

Fremont, CA 94538 USA

Tel.: 800-425-8803

Email: ir@amprius.com

Gateway Investor Relations

Tel: (949) 574-3860