

Ilika Half-Year Results January 2025

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Ilika at a Glance: Pioneer in Solid State Batteries





Seasoned Management Team

Board and Management Team Offers a Wealth of Diversified Experience Across Multiple Industries





Graeme Purdy Chief Executive Officer & Co-Founder





- Founding CEO appointed in 2004
- · Led two VC funding rounds and IPO
- · Previously COO of Avantium BV and early career with Shell. Latterly **NED** with Bacanora Lithium plc.
- · Chartered engineer with an MEng in Chemical **Engineering from** Cambridge and an MBA from INSEAD



Jason Stewart Chief Financial Officer



KERRY



- CFO since Jan 2023
- Previously Interim CFO and other senior roles at Sunseeker International Ltd since 2010; prior to which was at B&Q and **Kerry Foods**
- CIMA qualified accountant, with a BSc in **Business from** Manchester Metropolitan University



Keith Jackson Non-exec Chairman



MEGGITT

- Former Chief Technology Officer at Rolls Royce **Engines PLC and Meggit** plc
- Professor at Sheffield University's Automated **Control and Systems Engineering department**



Jeremy Millard Non-Executive Director

*blackbullion



- Founded Iridium **Corporate Finance**
- Non-Executive Director and Chairman of the audit committee of **Cambridge Nutritional** Sciences plc
- Leverages over 20 years of investment banking experience, providing corporate finance advice to science and deep technology sector clients



Monika Biddulph Non-Executive Director

arm



- Non-Executive Director on the board of Celebrus Technologies plc, AFC **Energy Plc and Power** Roll Ltd
- Senior leadership at Arm Holdings until 2018
- Wide range of experience in both the commercial and technical aspects of an international technology business
- Holds a PhD in Physics from the ETH Zurich



Louise Turner VP of Product Development





- Holds a PhD in physical chemistry from the University of Southampton (2012)
- MBA from Quantic University (March 23)
- Previously Stereax **Technical Director**
- Her areas of expertise include the application of high throughput methods for the development of electrocatalysts and solid-state lithium-ion battery materials



John Tinson VP Sales & Marketing





- Joined Ilika in 2019 as **VP Sales & Marketing**
- Holds a degree in Physics from Birmingham University
- · Career focused on earlystage UK technology companies in sectors such as opto-electronics, cabling solutions. industrial lasers and semiconductor design



Overview

Stereax

Goliath

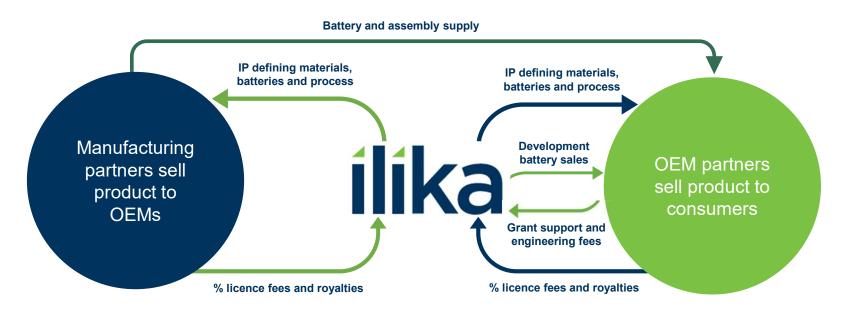
ESG

Finances

Outlook



Asset-light licensing model demonstrated on production-intent equipment



Low working capital requirement combined with faster time to market

Shaping our investment case





Solid-state battery technology; growing patented portfolio across multiple jurisdictions



Hedged across two markets with near-term route to commercialisation, reducing execution risk



In-house, purpose built, fabrication facilities help drive and deliver scale-up plans



Licencing and royalty agreement with Cirtec set to deliver economy of scale and add the ability to rapidly ramp production of Stereax® batteries



First batch of prototype Goliath batteries shipped to automotive customer; engaging with wider portfolio of interested OEMs and Tier 1 companies on commercially sponsored evaluation trials



Company Overview

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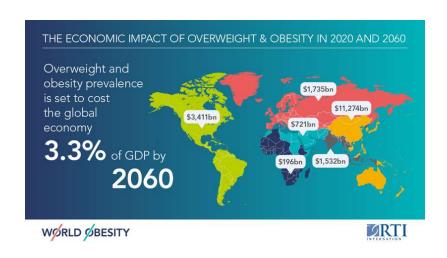
Outlook

Stereax: Trends in Global Healthcare



Across the world people are living longer, but not necessarily healthier lives, creating an immense burden on healthcare systems





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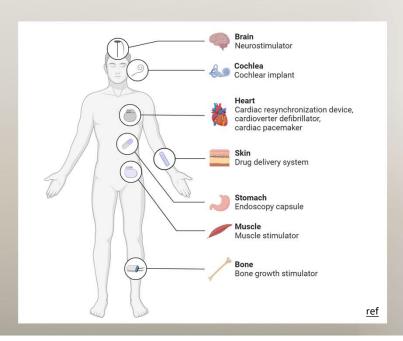
Stereax: Trends in Global Healthcare



The use of smart electronic

Active Implantable Medical Devices

(AIMD) is at the forefront of a search for efficacy and productivity





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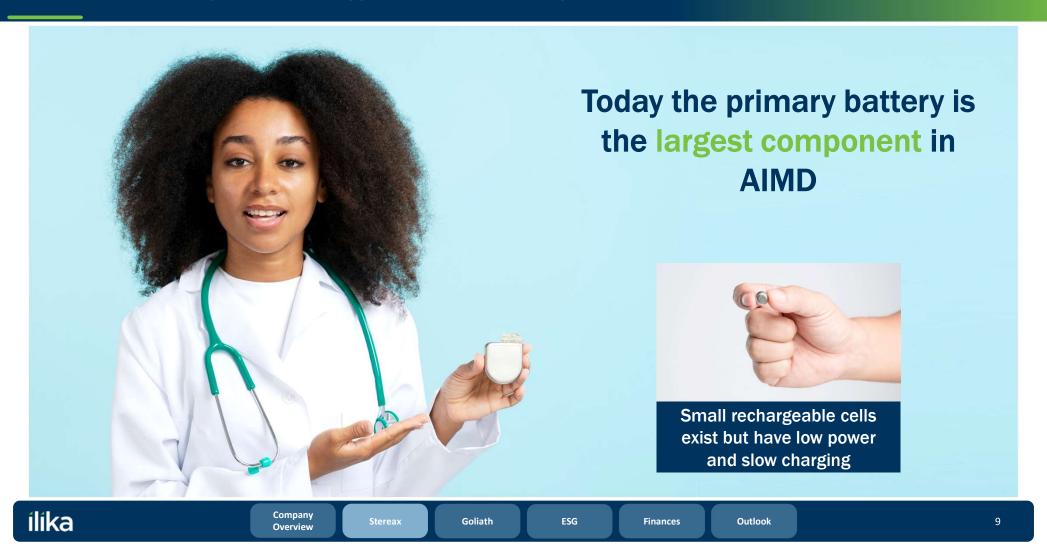
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Stereax: Battery Technology for AIMD Today



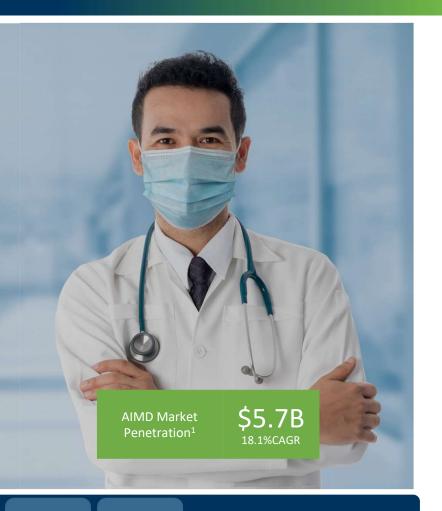


Stereax: Large and Fast-growing Markets



Demand for medical batteries is being driven by innovation in electroceuticals and sensors

Neuromodulation	\$4.2 Bn (2024) CAGR: 9.5%	Cognitive disordersChronic painStrokePsychiatric disorders
Implanted sensors	\$6.0 Bn (2023) CAGR: 11.1%	CardiovascularOxygen pressureTemperature
Orthopedics	\$26 Bn (2023) CAGR: 4.2%	 Data capture from spine / knee / hip implants
Ophthalmic	Projected: \$1.3 Bn (2030) CAGR: 29.3%	Diabetes & glaucoma monitoring
Orthodontic	\$5.8 Bn CAGR: 24%	Monitoring of bracespH, glucose





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Stereax: An Enabling Technology





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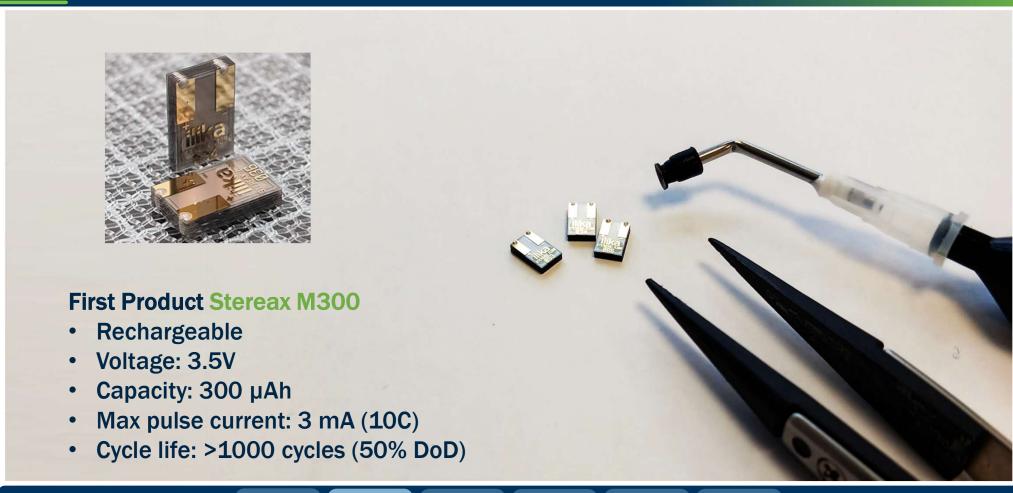
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Stereax: Ilika's Unique Miniature Battery





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Stereax: Cirtec Partnering



Status:

- Commissioning completed
- User acceptance tests completed
- Engineering lots started

Partnership Benefits to Ilika

Validation of Stereax product and process

Medical Manufacturing & Scale: Cirtec holds the medical accreditations and have the size and scale to meet customer ramp expectations

Business Development: The partnership gives Ilika access to a larger sales & marketing resource

Alignment: Cirtec and Ilika have the same AIMD applications focus

Cirtec has developed a neurostimulator technology platform enabling faster adoption of Stereax





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Stereax: Commercial Order Analysis





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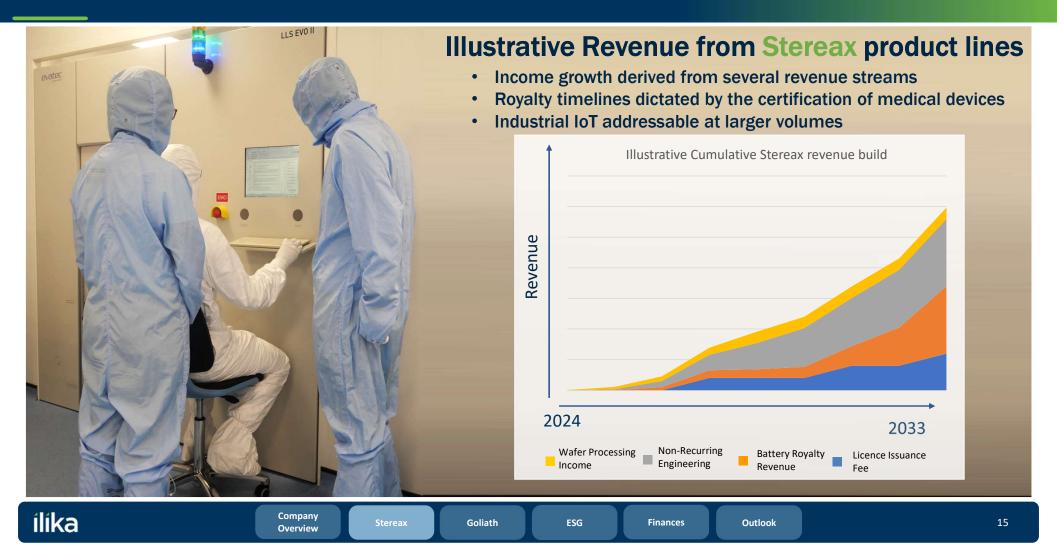
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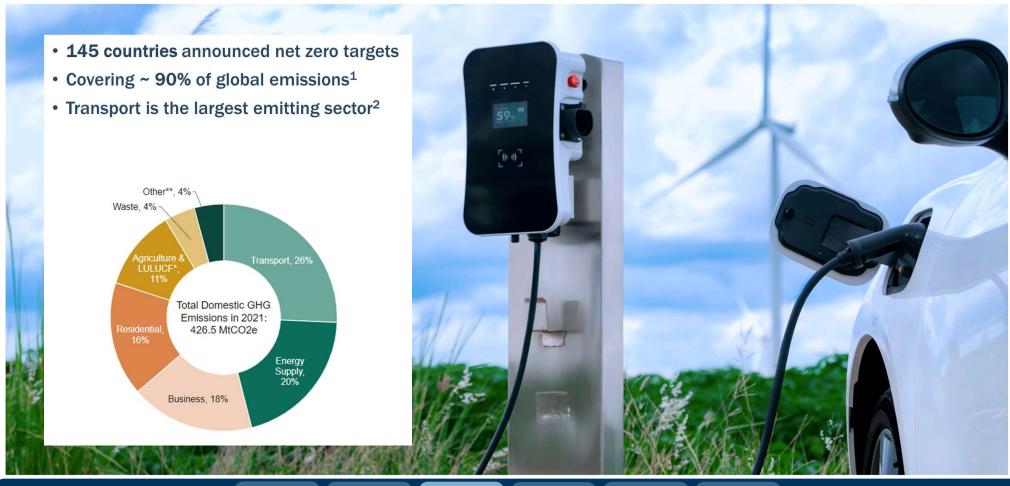
Stereax: Revenue Growth Profile





Goliath: Regulatory Driven Uptake





Goliath: Enabling further EV sector growth





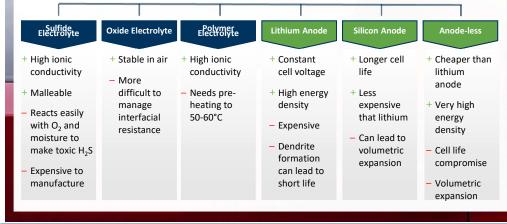
Goliath: Solid State Battery Technology Landscape

Different chemistries are optimal for different applications

HERRICAL STREET, STREE



- SSBs can be made using different materials combinations
- Goliath SSBs combine oxide electrolytes with silicon anodes delivering:
 - Ease of handling in a manufacturing environment
 - Longer cell life
 - Lower cost
 - Lower manufacturing carbon footprint





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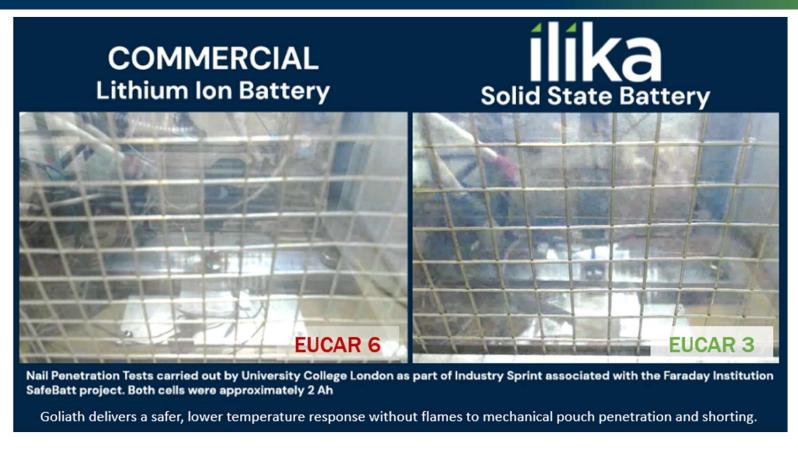
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Goliath: Ilika's Cutting Edge Solid State EV Battery



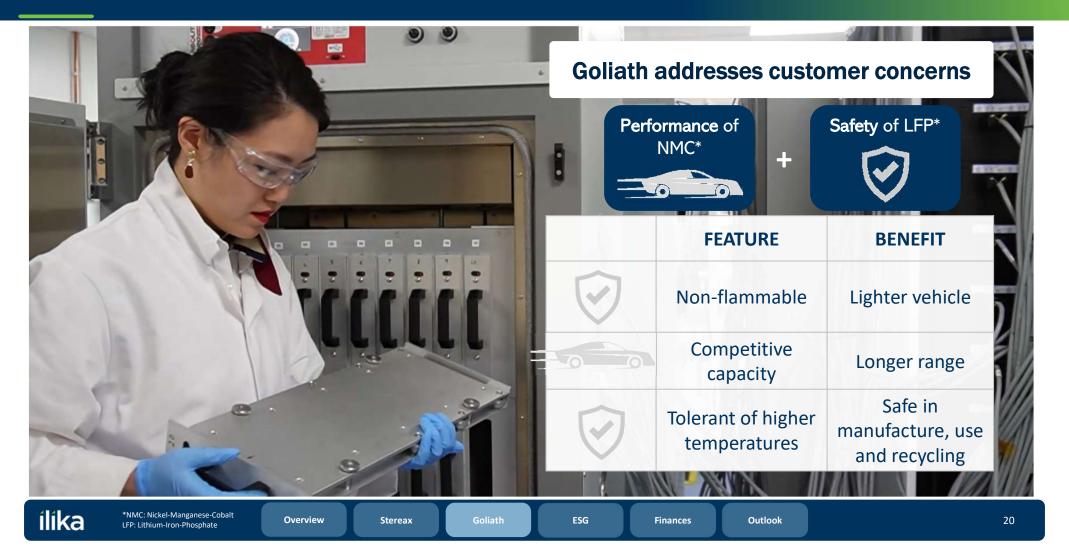


The full video of the nail penetration test can be found at: https://www.youtube.com/watch?v=fIP_jwKa9SU

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Goliath: Ilika's Cutting Edge Solid State EV Battery





Goliath: Pack Level Benefits





UK Pack Designers Balance Batteries modelled a hypothetical Hyundai Ioniq 5 pack with Goliath SSB



- 20 wt%



-£2,500 (Bill of Materials)



- 6 min (12 min vs 18 min, 10-80 SoC%)

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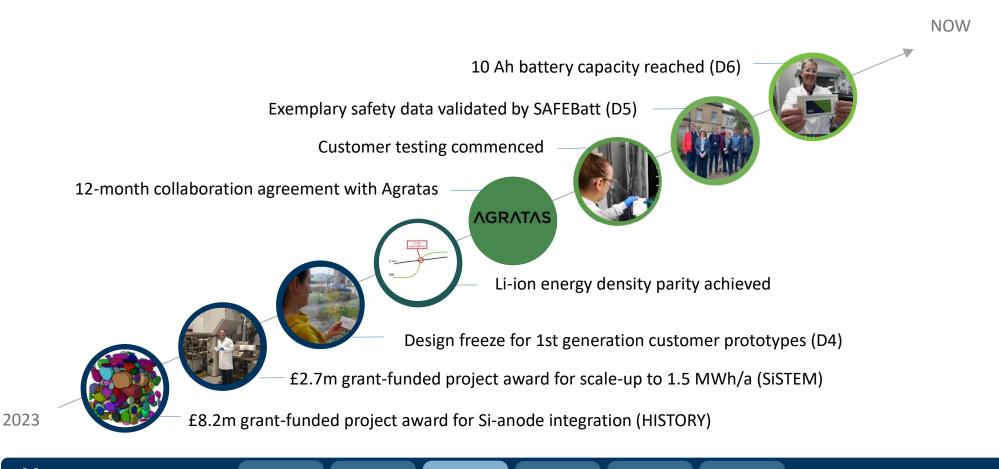
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Goliath: Strong Progress Over Last 18 Months





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Goliath: What to Expect

NOW



2026

OEM/Tier 1 1st option to license

Release of 50 Ah 3rd generation customer prototypes (P2)

1.5 MWh assembly line site acceptance test

Release of 10 Ah 2nd generation customer prototypes (P1.5)



1.5 MWh assembly line factory acceptance test

Design freeze for 10 Ah 2nd generation customer prototypes (D7)

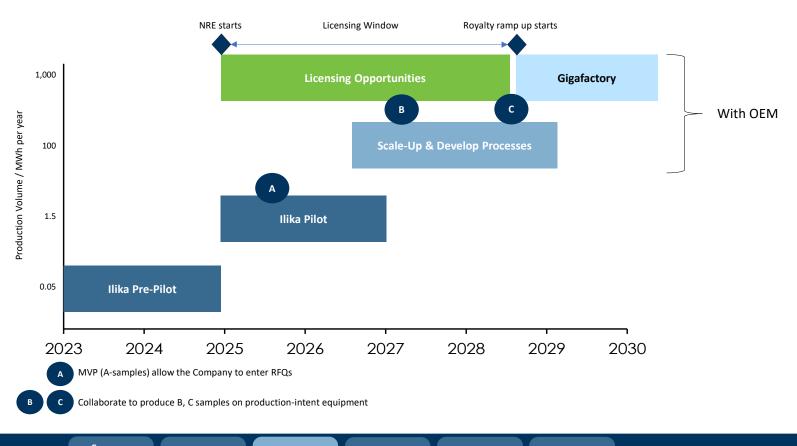
P1 customer testing feedback



Goliath: Production Scale-Up

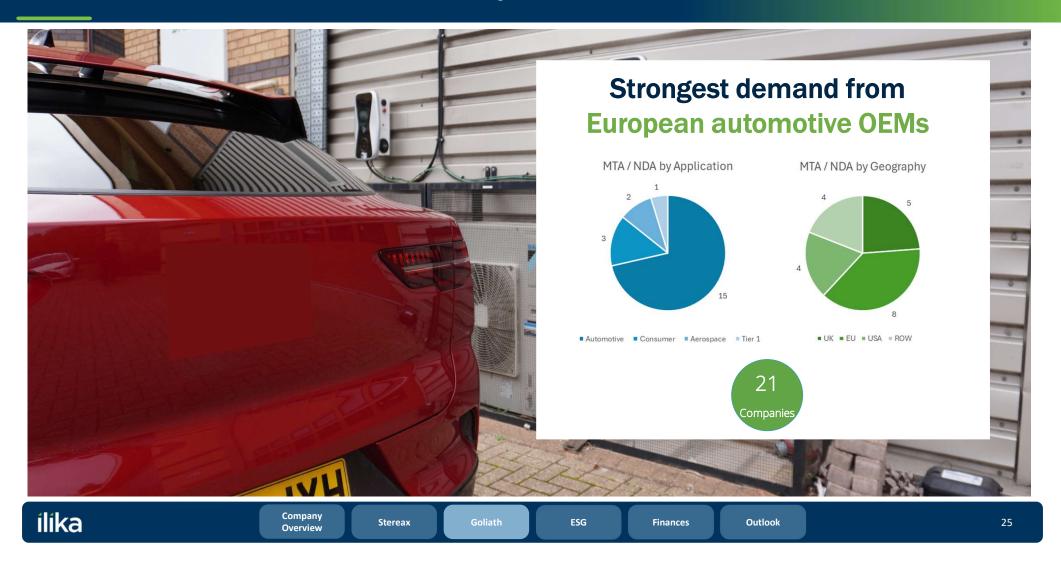


Ilika Scale-up Plan and Business Model



Goliath: Commercial Interaction Analysis

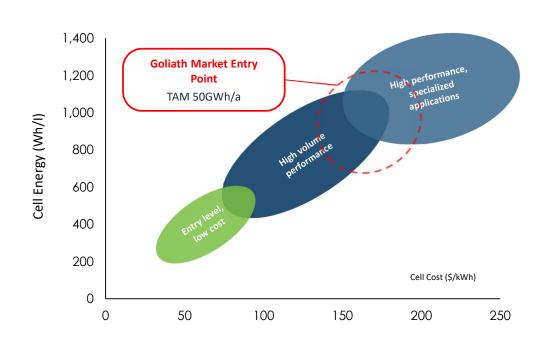




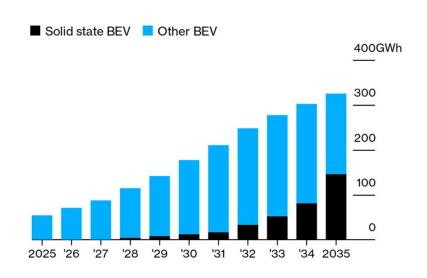
Goliath: Addressable Market



Ilika Targets Performance Market



Attractive SSB Market Forecast ¹

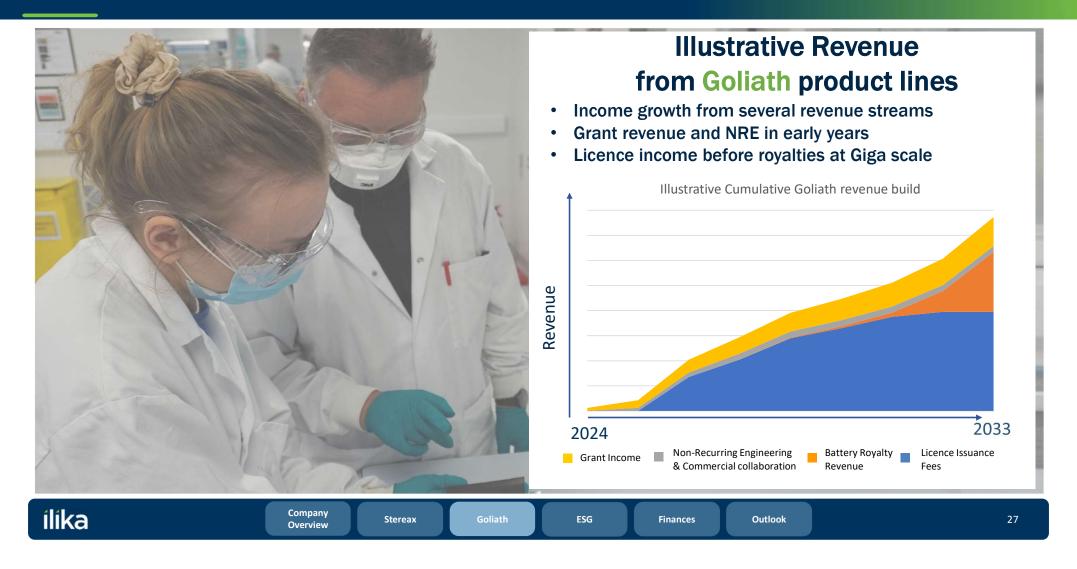


1 BloombergNEF, 2022

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Goliath: Revenue Growth Profile







ESG is of utmost importance to llika and is monitored at board level llika continues to remain ahead of reporting requirements through ESG commitment

ESG Committee Materiality Assessment ESG Policy Statement Internal Target
Setting

ESG Framework Benchmarking against standards

Monitoring and Reporting

- ISO 14001, ISO 9001, Carbon Reduced Organisation
- ESG Long Range Strategic Plan, most material items
 - Risk and Governance
 - Ethical Supply Chain
 - Carbon Footprint monitoring
 - Development and Opportunities

Early engagement with Tier 1 & automotive OEM's has demonstrated the importance of this approach for their supplier onboarding processes.













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Financial Update



Un-audited financial results for the half year ending 31 Oct 2024

Turnover of £1.0m (2023/4: £1.3m)

- Grant funding of £0.9m (2023/4: £1.3m)
- Goliath commercial income of £0.1m (2023/4: £0)

EBITDA loss*, excluding share-based payments, £1.9m (2023/4: £1.9m loss)

Continued focus on cost management to offset the small reduction in turnover

Cash balance for half year of approximately £10.1m (2023/4: £13.2m)

* EBITDA loss excluding share-based payments

ESG

Outlook



Scale Stereax through joint manufacturing and marketing with Cirtec

Mature Goliath with partners through defined technical milestones

Continue pursuing grant support and strategic partnering

Commercial opportunity continues to build for Ilika's technology across the large addressable markets providing a strong platform for future growth