

Ilika – Half Year Results January 2024

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llika at a Glance



Pioneer in Solid State Batteries (SSBs)

✓ Product lines:

- ✓ Stereax miniature cells used primarily to power miniature medical devices and industrial IoT
- ✓ Goliath large format cells targeting the automotive industry and cordless consumer appliances
- ✓ Developing SSBs for EV use with an oxide electrolyte and silicon anode which reduces raw material costs and increases cell life

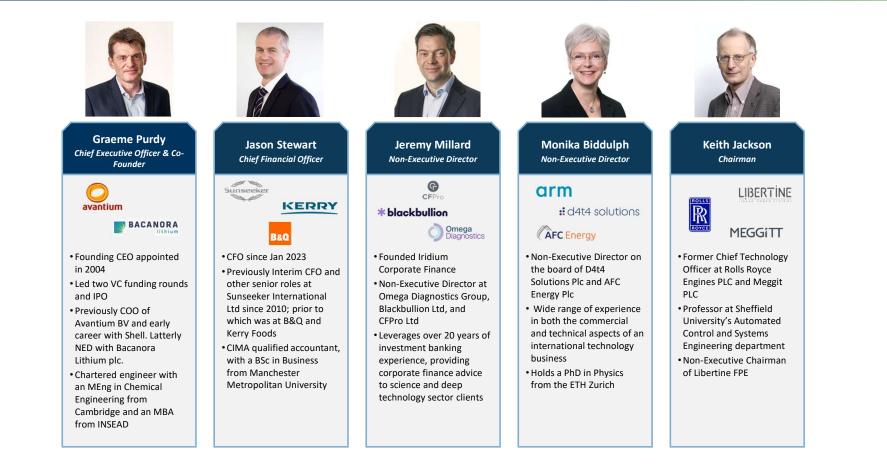




Overview Overview	ílíka	Company Overview	Stereax	Goliath	ESG	Finances	Outlook	3
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Seasoned Management Team Management Team and Board Offer a Wealth of Diversified Experience Across Multiple Industries

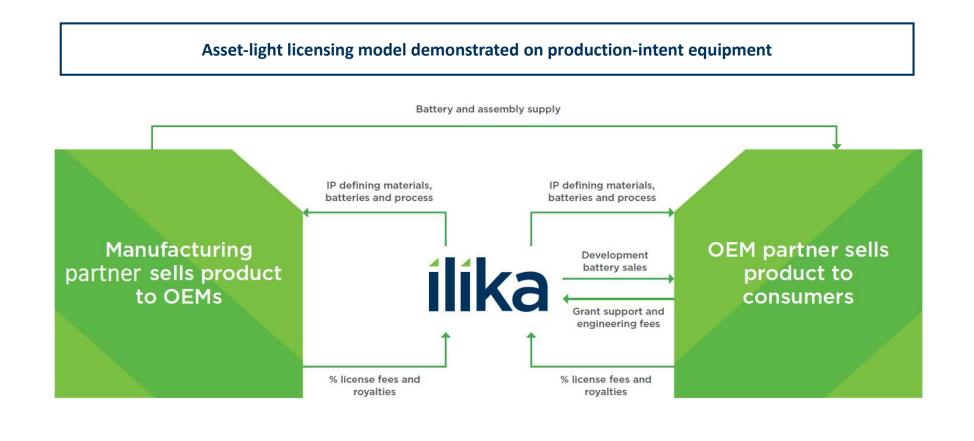
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Ilika Business Model





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Stereax: Ilika's Unique Miniature Battery

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Stereax Technology is Capable of Revolutionising the Medical Implant Industry

Reduced Surgical Intervention: compact architecture offers higher energy density enabling smaller device designs

Improved Safety: no toxic fluid leakage possible

Higher Power Density: delivers power pulses for therapy and communication chips



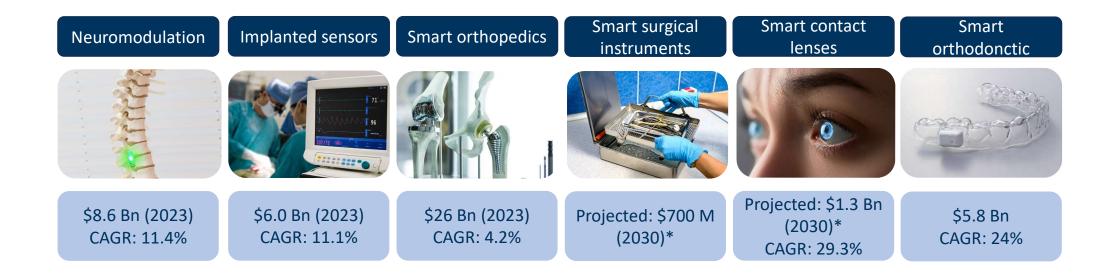
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Stereax: Designed for a Burgeoning Market



Powering the Electroceutical Revolution

Demand for Medical Batteries to Being Driven by Innovation in Electroceuticals and Sensors

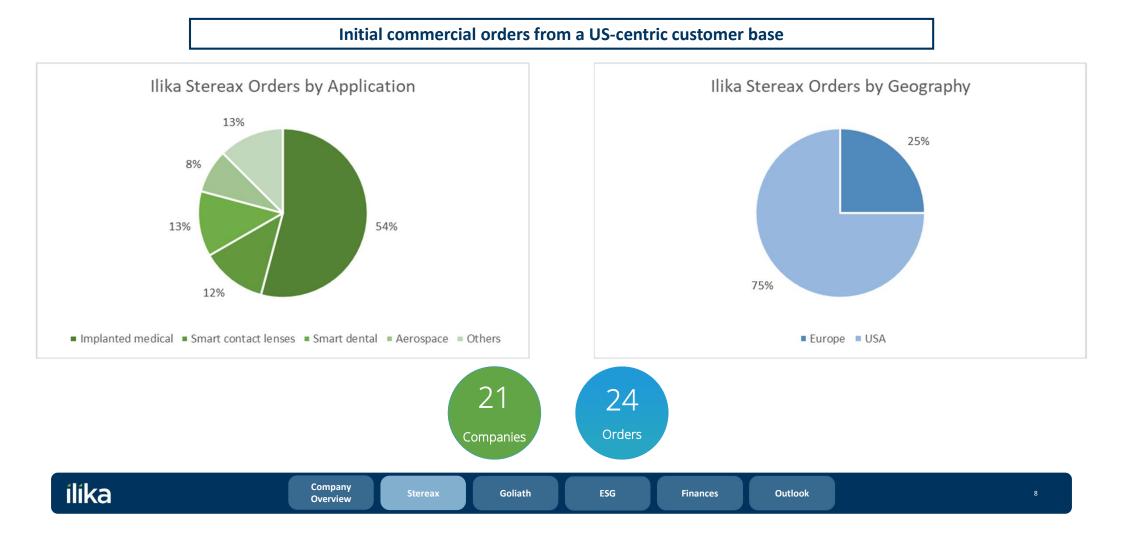


* Assumed market penetration for emerging sectors

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Stereax: Commercial Order Analysis

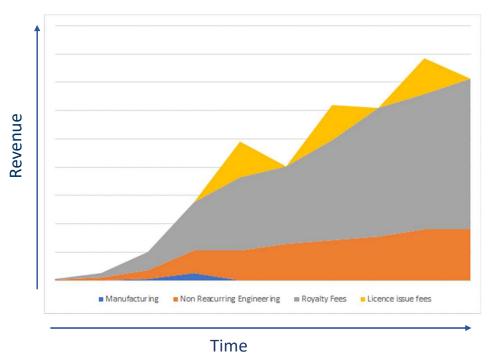




Stereax: Commercial Growth



Income growth from Stereax product will be derived from several revenue streams which build as market penetration increases



Customer interest remains strong with continued engagement from existing customers

Company Name	Type of Company	Country	Intended Application Area	Sector Size & CAGR	Customer D evice SAM* (devices)	Customer Device SOM *
А	Start Up	France	Cardiac/Heart Rhythm	\$7bn/7%	100K's	10K's
В	Multinational (Listed)	USA/ Israel	Smart Orthodontics	\$2.5bn/19%	Millions	100K's
С	Multinational (PE Backed)	USA	Implanted Medical Devices	\$2bn/7%	100K's	10K's
D	SME	Israel	Neuromodulation / DBS	\$15bn/12%	100k's	30К
E	Start Up	USA	Implanted Medical Sensor	\$1bn/8%	Millions	100K
F	SME Contracted to Listed Multinational	USA	Smart Orthopaedics	\$8bn/6%	500K	25К
G	Start Up (FAANG owned)	USA	Smart Contact Lens	\$100M/39%	Millions	100K's
Н	Start Up	USA	Smart Contact Lens	\$100M/39%	Millions	100K's
1	SME Contracted to Listed Multinational	USA	Trauma Screw Mounted Sensor	\$8bn/6%	Millions	100K's
J	Start Up	USA	Smart Dental	\$2.5bn/19%	Millions	80K
К	Government Research Centre	UK	Secure Communications	ТВА	TBA	TBA
L	Start Up	USA	Implanted Cancer Sensor	\$1bn/8%	100K's	10K's
М	FAANG	USA	ТВА	TBA	ТВА	TBA

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Stereax: Cirtec Partnering



Cirtec Medical: an industry-leading vertically-integrated outsource partner for medical devices and components







Partnership Benefits to Ilika:

Validation: of Stereax product and process

Manufacturing: partnership with economy of scale and ability to ramp production

Business Development: resources bringing additional commercial momentum

Status: key equipment sets transferred to Cirtec, commissioning proceeding.



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Goliath: Ilika's Cutting Edge Solid State EV Battery



Goliath's Technology is Capable of Revolutionizing the EV Industry with High Performance Batteries

Further Range: Oxide electrolyte and silicon anode architecture offer higher energy density v LiB and so better range/weight

Improved Safety: Solid-state electrolyte is safer than flammable liquid electrolyte found in incumbent li-ion technologies

Higher Energy Density: Higher theoretical energy density threshold of ~500Wh/kg

Reduced Cell Degradation: Solid state technology not subject to dendrite degradation

Better Recyclability: Goliath can be safely recycled

Lithium Efficiency: Lower lithium content v Sulfide based SSB technologies





Stereax

Finances

Goliath: Target Market and Other Key Market Drivers

Ilika's Unique Position to Service a Fast Growing Market

vehicle range

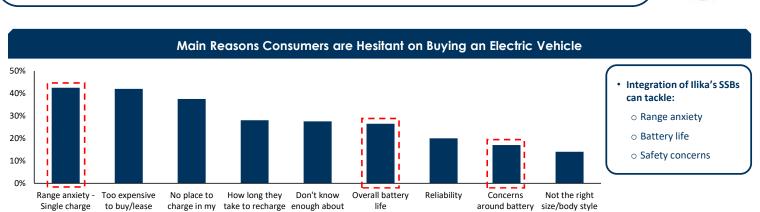
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Electrification of Transportation and Net-Zero Initiatives

- 19 national governments have committed to attaining net-zero emission by 2050
- Transportation remains one of the highest emitting sectors is one of the easiest to abate high performance EVs play an important role in this transition
- The EU has banned the sale of new ICE cars and SUVs by 2035 other governments such as the U.S have made similar commitments

them

• Transportation accounts for 24% of UK emissions, emitting >100Mt CO₂e annually





materials







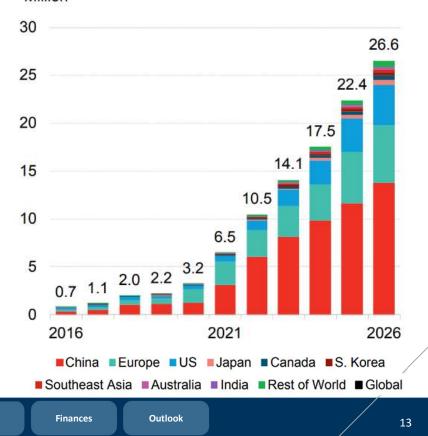
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Goliath: Addressable Sector



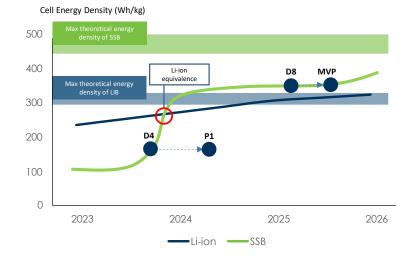


2023 BNEF EV outlook projects EV sales to be 44% of global vehicle sales by 2030 and 75% by 2040



Goliath: Technology Roadmap and Production Scale-Up

Solid-State Battery Energy Density llika Scale-up Plan and Business Model 2023/5 Highlights • 2023: D4 design freeze of multi-layer pouch cells followed by lithium-ion parity. ٠ • 2024: P1 prototypes for restricted sale to OEMs for testing with further Samples development to D8 in parallel Entering OEM RFQ's with A Samples • 2025: Programs on repeatability, testing and characterisation to reach P2 (MVP) scale-up



Production Volume / MWh per year 1,000 **Licensing Opportunities** Gigafactory В С Scale-Up & Develop 100 Δ 1.5 Ilika Pilot 0.05 Ilika Pre-Pilot 2023 2024 2025 2026 2027 2028 2029 2030 A-samples allow the Company to enter RFQs B C Collaborate to produce B, C samples on production-intent equipment

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2025/6 Highlights

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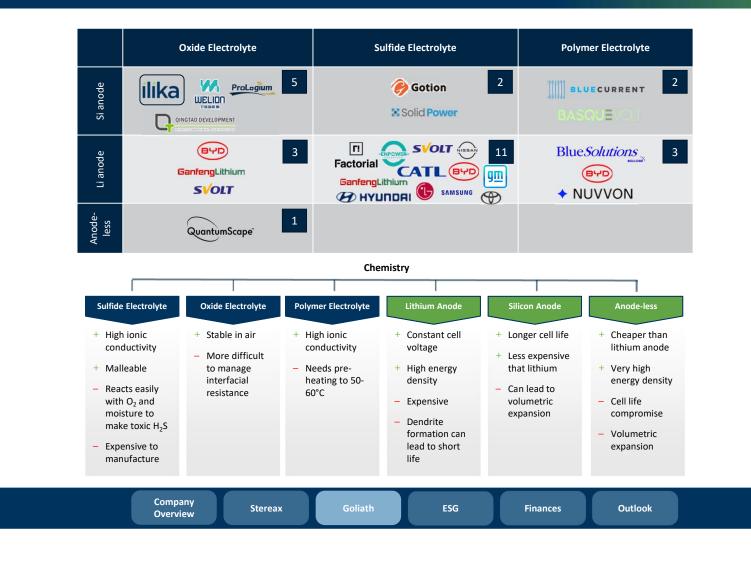
- Testing electrode printing at near Giga scale
- Developing automated cell assembly line to give repeatability for A
- Gaining an OEM platform win and collaborating with Tier-1 partner to

Goliath: Solid-State Battery Technology Landscape



Different chemistries are optimal for different applications

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Goliath: Partnerships for Technology Deployment Ilika has Entered Critical Partnerships to Fast Track Commercialization of Goliath

Faraday Battery Challenge Round 5: HISTORY A 24-month FBC Collaborative R&D programme Duration: 1 Feb 23 until 31 Jan 25 Total programme value: £8M/Ilika grant £2.8M ٠ Nine Collaborative and steering partners Objective: delivery of a multi-layer, solid state pouch cell with specifications aligned with automotive requirements **HISTBRY** University of St Andrews nexeon ilika Advanced Characterisation and NSP-2 Si Technology Platform Materials Compatibility Testing ⁴UCL 📜 cpi **Micron-scale Characterisation Scaled Coating and Mixing** and Material Interaction Solid State Battery for **Electric Vehicles** nperial Co **HSSMI** Full Life-cycle **Steering Committee**

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Analysis of Battery

Production and

Materials

Materials and Battery Modelling

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BMW

GROUP

Goliath: Partnering for Manufacturing Scale-up

Ilika is receiving support from the Automotive Transformation Fund

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- ATF SuRV2: SiSTEM
- 17-months from Oct 2023
- Programme value £2.7m/£400k Ilika grant funding

Objectives:

- Undertake physical trials of Ilika's electrode production at UKBIC
- Design, build and commission a 1.5MWh assembly line capable of delivering A sample batteries

Mpac







ESG

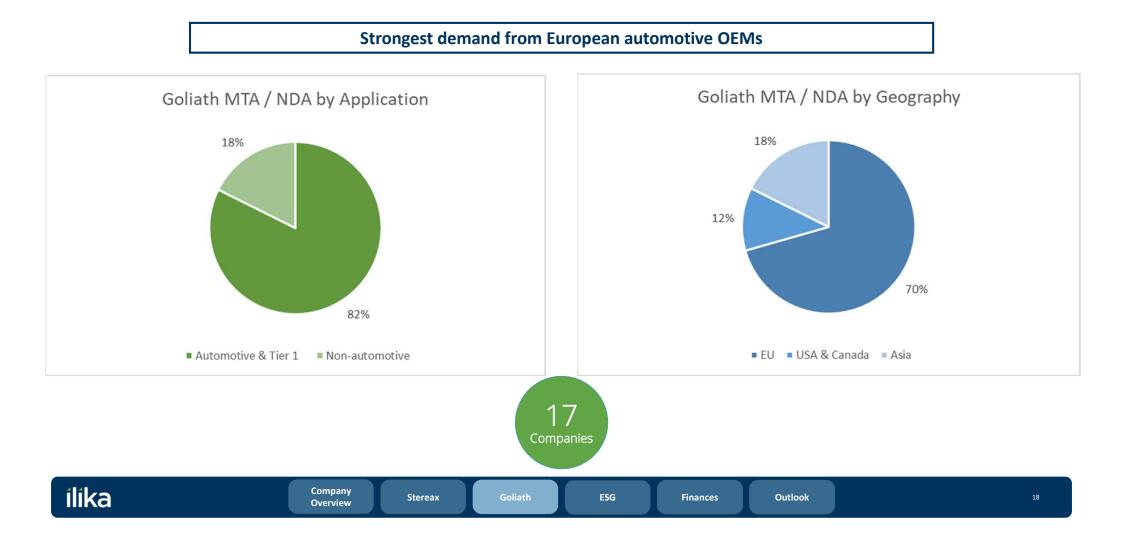
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Goliath: Commercial Interaction Analysis







ESG is of utmost importance to Ilika and is monitored at board level We continue to remain ahead of reporting requirements through our commitment to ESG



• Integration of most material items to business risk and opportunities registers

- ISO 14001, ISO 9001, Carbon Reduced Organisation
- Long Range Strategic Plan and ESG Framework initiated:
 - Risk and Governance

ESG

- Ethical Supply Chain Planning
- Environmental Commitment
- Development and Opportunities







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Finances

Ilika Plc, un-audited financial results for the half-year ending 31 October 2023

Total Income £1.3m (H1 2023: £0.2m)

- Substantial increase due to HISTORY grant, supporting Goliath.
- Income from grants of £1.3m (H1 2023: £0.2m)
- Lower income expected in second half due to phasing.
- HISTORY will continue through to the beginning of 2025, with the total project income expected to be £2.8m.

EBITDA loss, excluding share-based payment £1.9m (H1 2023: £4.1m loss)

- Improved due to higher grant income and a reduction in operating costs.
- Operating cost reduction through Cirtec technology transfer process and normalisation of the UK inflationary environment.

Cash balance £13.2m (H1 2023: £18.6m)

Cash balance remains in line with expectations



Outlook



Scale Stereax through joint manufacturing and marketing with Cirtec

Mature Goliath technology with partners through defined technical milestones

Continue pursuing grant support and commercial revenue through partnering

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

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