

Ilika – Capital Markets Day April 2024

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llika at a Glance

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Independent Global Experts in Solid State Batteries (SSBs)

- **Product lines:** ٠
 - **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

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Developing SSBs for EV use with an oxide electrolyte and silicon ٠ anode which reduces raw material costs and increases cell life



Overview



Seasoned Management Team

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

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Asset-light licensing model demonstrated on production-intent equipment



Battery and assembly supply

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Trends in Global Healthcare

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- Across the world people are living longer, but not necessarily healthier lives, creating an immense burden on healthcare systems and demanding new approaches to therapeutic productivity
- The use of **smart electronic Active Implantable Medical Devices** (AIMD) are at the forefront of a search for efficacy and productivity







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Battery Technology for AIMD Today



Today the battery is largest component in AIMD





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Stereax: An enabling technology

Stereax Technology (smaller battery technology) is Capable of Revolutionizing the Medical Implant Industry

Increasing Rate of Implantation – A more compact AIMD enables quicker and less risky surgery (day surgery)

Locating device next to point of therapy – Today's larger batteries can only be located in 2-3 pockets in the body

Long life in the body & user recharge at home – Fewer reinsertions for expired battery. User can charge at home (and not at the doctors as today)

Able to power Bluetooth radio – The high-power capability of Stereax easily powers a Bluetooth radio to send data outside the body to a receiver

	Medical Li-ion Batteries	Stereax Solid State Batteries
Small Footprint		
Ultra-thin	$\mathbf{\mathbf{S}}$	
Fast Charge / High Discharge Power	\mathbf{x}	
Safety		
High Temperature Tolerance	\mathbf{x}	

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Stereax: Large and Fast-growing Markets

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Stereax: Ilika's Unique Miniature Battery





Parameter	@ 37°C	Value
Charging		Rechargeable
Rated capacity	μAh	300
Nominal voltage	V	3 – 4
Max pulse current	mA	3 (10C)
Cycle Life (to 80% capacity)	cycles	> 1000 (50% DoD)





Stereax: Cirtec Partnering

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





Partnership Benefits to Ilika:

Validation of Stereax product and process

Medical Manufacturing & Scale: Cirtec hold 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 resources

Alignment: Cirtec and Ilika have the same AIMD applications focus

Cirtec have developed a neurostimulator technology platform

Status: key equipment sets transferred to Cirtec, commissioning proceeding



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Company Overview

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Stereax Applications: Neuromodulation





- Movement Disorders
- Cognitive Disorders
- Healthy / None of the above conditions

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5%

5%

5%

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10%

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13%

Stereax Applications: Smart Orthopaedics





Challenge

- Only way of detection is through patient discomfort
- Real-time sensors currently too big due to battery

Solution

- Smart orthopaedics allow for early detection, saving insurers money
- Miniature SSB can provide long-lasting battery life





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Stereax Application: Cardiac Sensing & Pacing

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Sensing:

- Pulmonary heart pressure
- Blood pressure
- Pulse
- Blood oxygen
- Weight
- Symptoms

Wireless data transfer

Company

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Stereax Application: Smart Orthodontics Saliva is the new blood for health diagnostics!



From their phone, users can check vital diagnostic information and receive **real-time** health alerts with preloaded medical advice or products from their doctor to correct health imbalance



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Stereax Application - Opthalmics





Eyelid-worn battery pack for wireless power transmission to smart contact lens Active diabetic retinography for real-time monitoring of glucose level

Monitoring of Intra-Ocular Pressure (OAP)





Sight Correction (presbyopia)



AR/VR (Display, eye tracking, comms)



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Stereax Goliath

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Stereax: Commercial Order Analysis







Goliath: Regulatory Driven Uptake



- **145 countries** announced net zero targets
- Covering ~ 90% of global emissions <u>*</u>
- Transport is the largest emitting sector <u>*</u>







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Goliath: Enabling further EV sector growth



EV sales momentum is strong²

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■China ■Europe ■U.S. ■Others

1 Adapted from CVMA, 2021 2 Forbes, 2024

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Goliath: Ilika's Cutting Edge Solid State EV Battery

Goliath unique features will alleviate consumers anxieties



FEATURES





e Competitive performance vs Li-ion

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Can operate to higher temperature



Stereax Goliath

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1 BloombergNEF, 2022

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Goliath: Strong Progress to Date





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Goliath: Technology Roadmap

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Goliath: Production Scale-Up





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Production Volume / MWh per year

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Goliath: Commercial Interaction Analysis





UK Grant funding in support of Goliath







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







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Goliath: Partnering for Manufacturing Scale-up

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Financial Update



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

- Total Income £1.3m (H1 2023: £0.2m)
 - Substantial increase over FY23 due to HISTORY grant, supporting Goliath.
 - Income from grants of £1.3m (H1 2023: £0.2m) 0
 - HISTORY will continue through to the beginning of 2025, with the total project income expected to be £2.8m. 0
 - Expected total income for year ending April 2024 of approximately £2m Ο
- 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: 4)	£18.6m)					FY20 £m	FY21 £m	FY22 £m	FY23 £m
Expected cash balance for year en	nding April 2024 of		Grants			2.5	2.0	0.0	0.7
approximately £11m			Revenue	e		0.4	0.2	0.5	0.0
			Other In	icome				-	0.1
			Total Income			2.8	2.3	0.5	0.8
			EBITDA I	Loss*		-2.1	-2.3	-6.4	-7.0
			Cash &	Cash Equivalen	nts	14.8	9.8	23.4	15.9
* EBITDA Loss excluding share based payments									
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Ilika Revenue from Stereax product lines



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

2024

Revenue

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Goliath Revenue Growth Profile

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Ilika Revenue from Goliath product lines



Income growth from Goliath product will be derived from several revenue streams, with grant revenue in early years being replaced with licence income before self-sustaining licence revenue as Goliath batteries are deployed on a Giga scale

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









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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 Ilika's technology across the large addressable markets providing a strong platform for future growth



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