

A close-up, slightly blurred photograph of a complex industrial machine, likely a battery manufacturing or inspection equipment. The machine is filled with various electronic components, including a dense array of wires in shades of blue, red, and black, and several small rectangular modules. A person's hand is visible in the foreground, pointing towards a screen or a specific part of the machine. The overall color palette is dominated by dark blues and greys, with the colorful wires providing a visual focal point.

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NAATBatt 2023 Member Update

Battery manufacturing inspection and intelligence

Nicolina Nanni
Senior Product Manager
www.liminalinsights.com

Liminal - A Threshold of Change

We are at a **tipping point** in the transition to a clean energy future

Cell manufacturers need a solution to enable scaling without compromising safety, reliability, and affordability



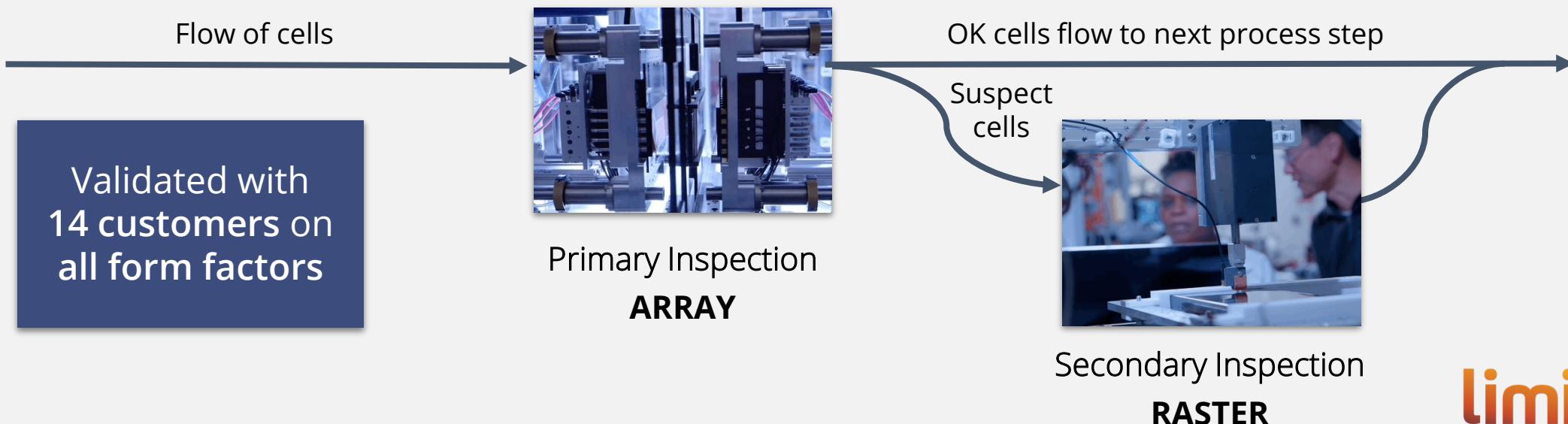
EchoStat® combines ultrasound and machine learning to inspect cells non-destructively during production, unlocking a new type of data

EchoStat Validation

Predict cell performance for every cell produced with Cycle Life Prediction

Address the blindspot of fill and soak QC with Electrolyte Saturation Analysis

Uncover inhomogeneities and minimize escapes with Anomaly Detection



Corporate Momentum

Secured **\$25.5M investments** including the most recent funding round led by ArcTern Ventures, including Northvolt

Awarded **\$2.75M "RAMP" grant** from the California Energy Commission to support our industrialization



MIRA INBAR
Partner, ArcTern Ventures



KEIS IDE
Partner, University of Tokyo Edge Capital (UTEC)



ALFRED LAM
Partner, Chrysalix Ventures
Co-Founder, Mangrove Lithium



LAURA OLIPHANT
Managing General Partner, Serendipite Partners



ARCTERN
VENTURES

Activate

CHRY SALIX
VENTURE CAPITAL

EIF
ECOSYSTEM
INTEGRITY



GOOD
GROWTH
CAPITAL



helios
CLIMATE VENTURES



IMPACT
SCIENCE
VENTURES

northvolt®

UTEC

+VOLTA
ENERGY TECHNOLOGIES

Board Members

Investors

liminal

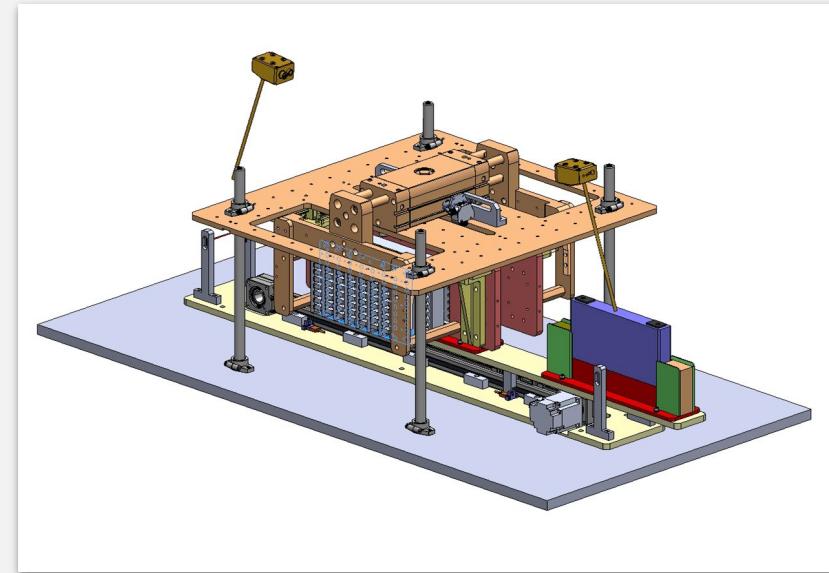
Focus for 2023

Factory-integrated deployments

Industrialization of the EchoStat platform and our key applications

Continued growth of customer base and partner ecosystem

For more information, please reach out via busdev@liminalinsights.com



Liminal Team Growth

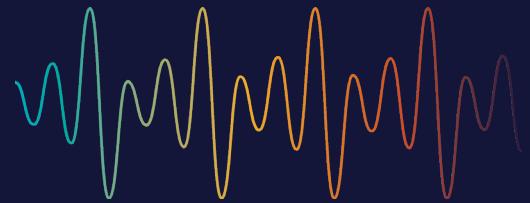
We have more than doubled in size – now 35 people and hiring across all departments!



Now + 8 team members not pictured



1 year ago



Thank you!