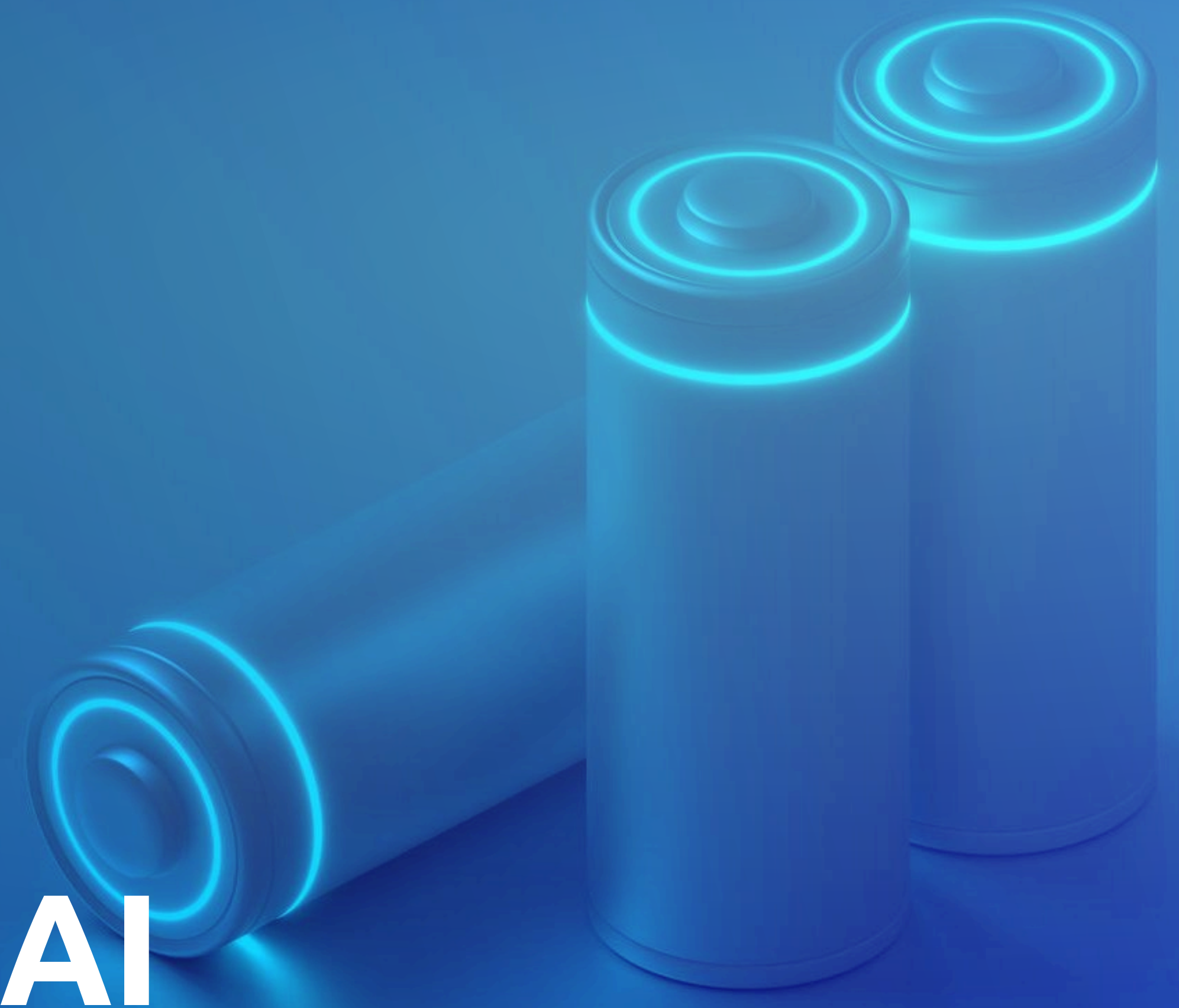


Implement Edge AI & integrate data from all inspection tools for accelerated root cause analysis

exensioTM Battery

Defect Management & Edge AI



Defect Management System

A system to visualize and analyze inline defect data from all inspection & measurement systems

Our end-to-end analytics platform is the first to implement product traceability to enable tracing quality failures to inline defects.

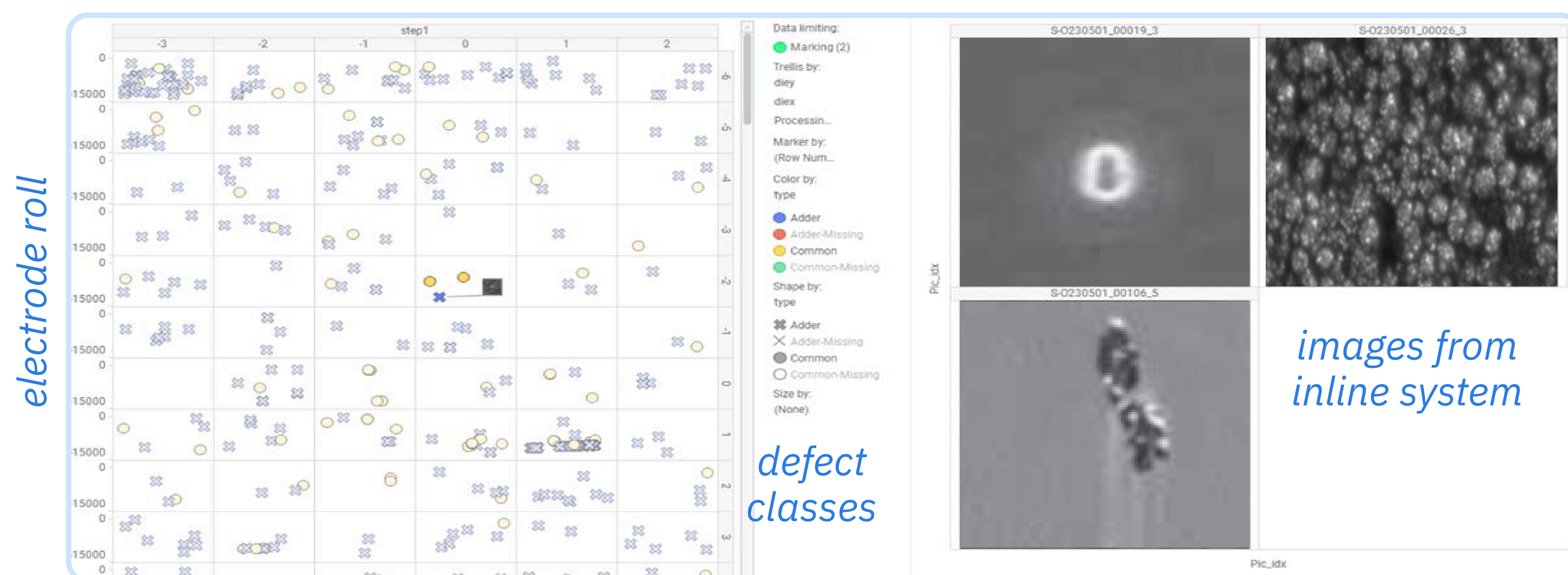
Solutions Highlights

- Troubleshooting of low yields
- End-to-end yield and defect management
- Integration of all inline systems - system agnostic
- Defect binning and classification automation

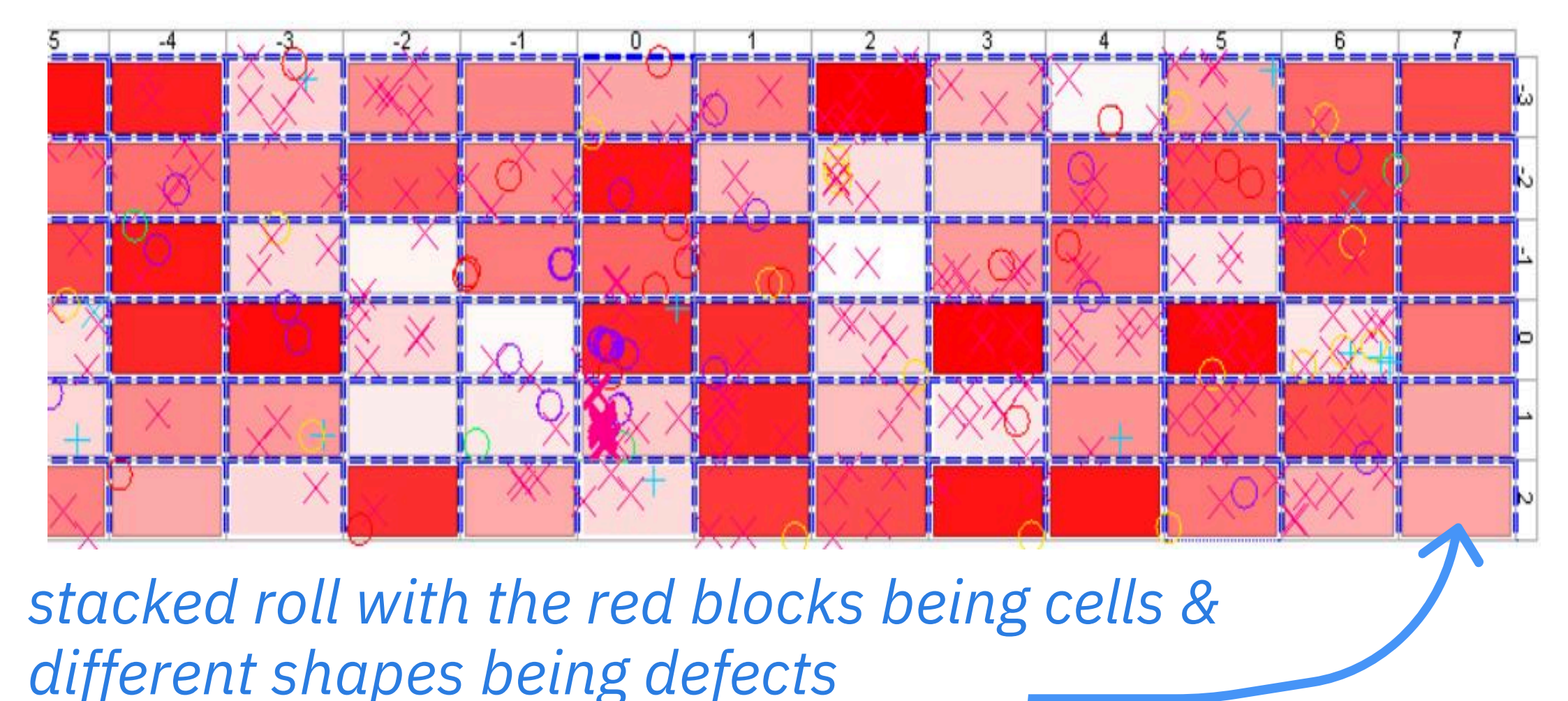
Components

1 Defect Map & Analysis

Defect data storage and analysis with mapping capability and alignment with other data types.



Includes visualization by lot, cell, stacked roll, or single electrode roll



stacked roll with the red blocks being cells & different shapes being defects

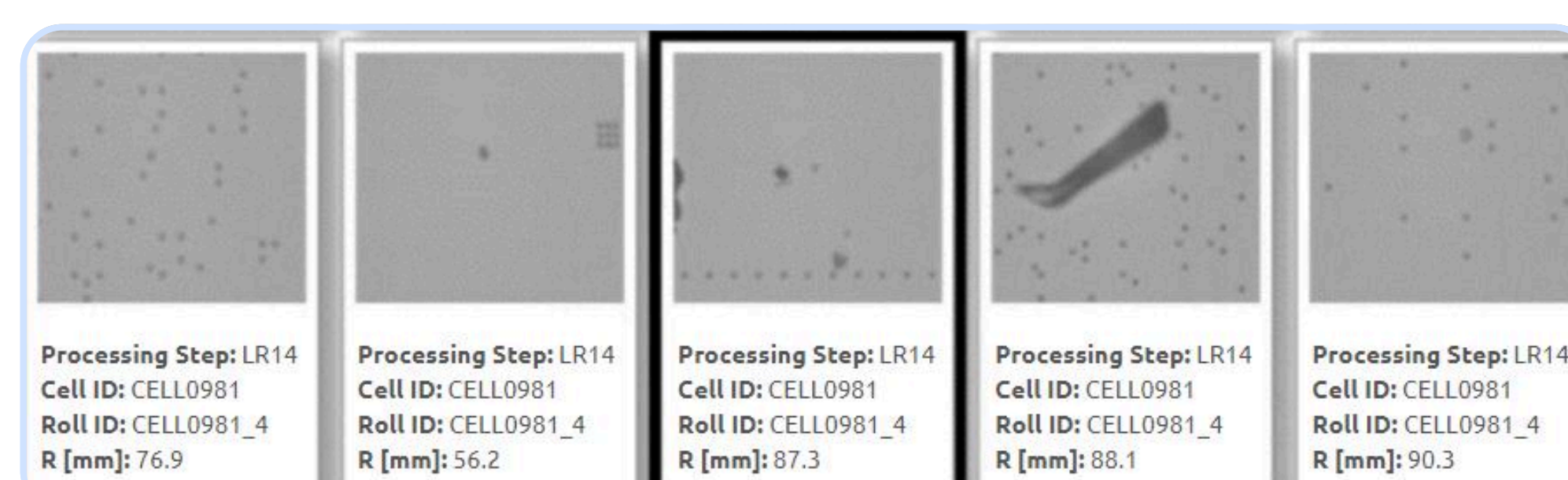
2 Defect Map Classification

Classification of defects to group similar defects by type for Kill Rate and Capture Rate summaries

- Common
- Uncommon

3 Defect Map Gallery

Gallery of inspection and review images linked to inspection site



4 Online Integration With Client MES

Define Statistical Process Control (SPC) and Out-of-Control Action Plans (OCAP) and send alarms to the MES

Combine inspection tool information all in one platform



Workflow/Application Examples

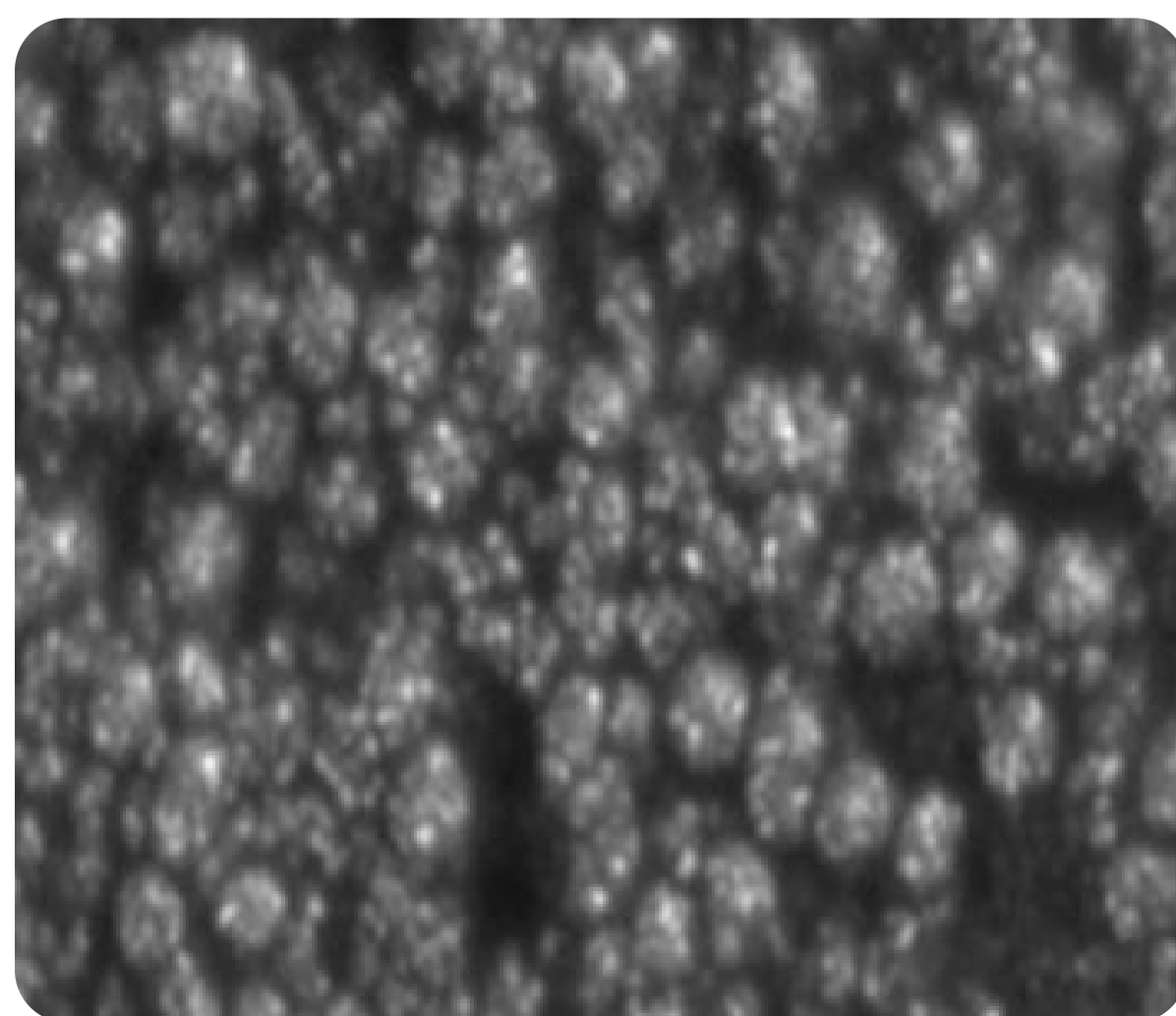
- Reclassification of defects
- Defect traceability for yield diagnostics
- Defect source analysis
- Equipment / recipe matching
- Design-aware defect management

Edge AI

Quasi real time deep learning model for instance segmentation, allowing you to classify and measure defects during production.

Enhance your inline vision systems through the power of AI.

How it works



Parameter	Value
process date	2024-02-21
magnification	100
lot pore mean	90
pore D10	2.313
pore D50	12.651
pore D90	40.23
major axis D10	0.079
major axis D50	1.873

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