

BC Automation

Visionary™ & ML-UI for Adaptive Operator Intelligence

Tech Primer - 07/06/25

A smarter system needs a smarter interface.

Visionary™ and ML-UI™ transform traditional HMIs into dynamic, adaptive tools for skill development, real-time insight, and operator feedback. These interfaces evolve with your process and your people — reinforcing best practices, highlighting system changes, and building workforce confidence. From real-time dashboards to full operational interfaces, Visionary™ enables operators to not only see the system — but understand it. With built-in skills gap training and natural language interaction, the interface becomes an intelligent assistant — not just a screen.

PROBLEM: Static dashboards can't keep up with dynamic operations.

- Traditional HMI systems don't adapt to operator skill levels or process variation
- Critical insights are often buried in unread dashboards or misaligned alerts
- Operator performance, calibration quality, and procedural knowledge are invisible
- There's no feedback loop between human action and system behavior
- Training content is disconnected from real-time system context and learning needs

SOLUTION: Let your interface learn and guide — automatically.

- Visionary™ generates real-time dashboards from SPA™ and GNS data, tailored in the operator's language
- ML-UI™ tracks usage, flags skill gaps, and delivers in-context training
- Tracks technician activity and calibration logs for performance, traceability, and continuous improvement
- Provides role- and location-aware interfaces — displaying appropriate information based on whether the user is an operator, guest, contractor, vendor, or regulator
- Supports Look & Know™ AR for hands-free field data access
- Adds a natural language interface for querying data, surfacing SOPs, and delivering guidance
- Transforms HMIs into collaborative decision-making platforms

OUR IMPACT: Operators don't just react — they grow.

- Fewer errors and faster onboarding
- Continuous skill development built into the workflow
- Real-time visibility into human and system performance
- Better decisions made faster — from the floor to the boardroom
- Interfaces evolve alongside your people and process — not in spite of them



95+

clients served

625+

unique processes automated

\$3.8B+

client dollars saved

"A huge asset to any company looking to improve their cost and reliability."

Chris Whitehair
SVP Global Operations at SunOpta

"[BC Automation's] solutions are most thorough and comprehensive."

Ned Mitenius
Founder & Sr Consultant at Periscope Consulting

Let's Transform Your Manufacturing Together.



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