Rayterton Supply Chain Management (SCM)

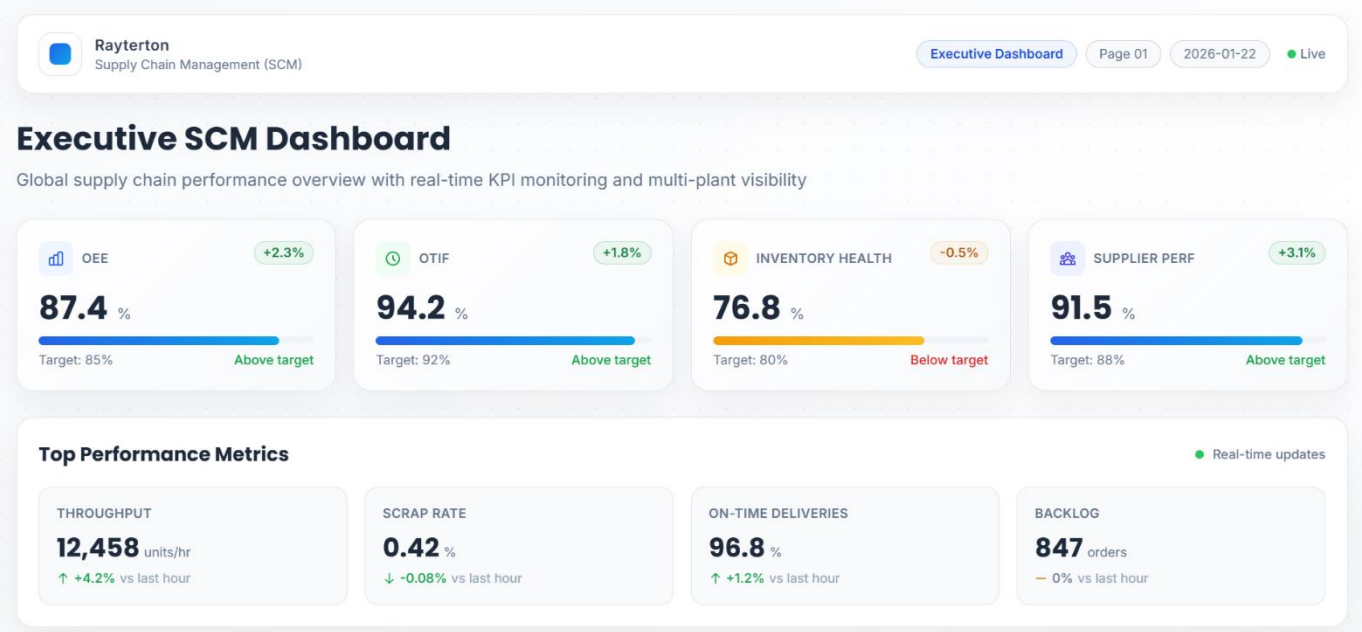
Control your global supply chain from order intake to delivery, with real time insights, optimized performance, and multi-plant visibility.

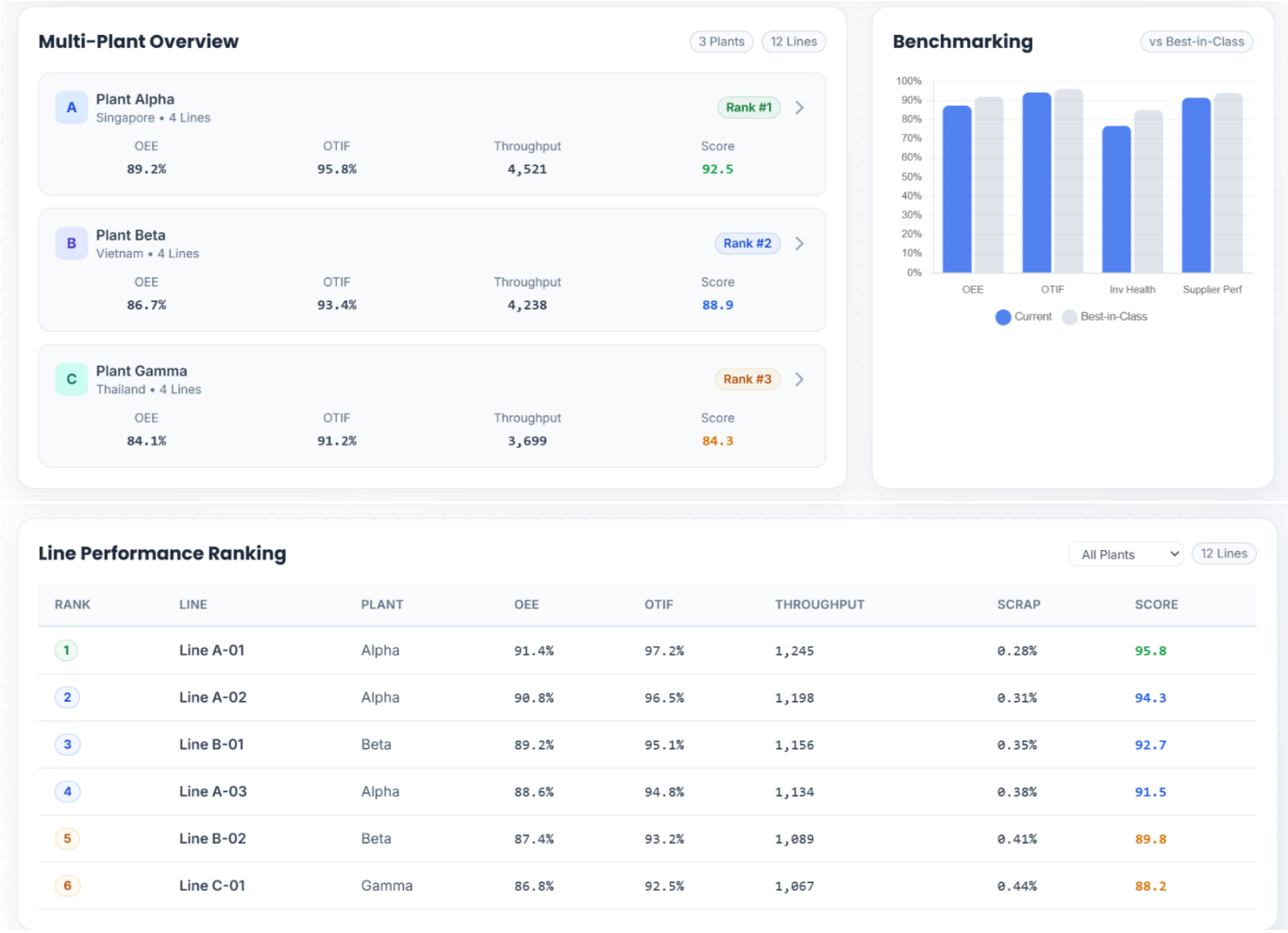
End to End Supply Chain Management

Rayterton **Supply Chain Management (SCM)** solution optimizes supply chain operations, from order intake and production planning to inventory management, supplier performance, and real-time shipment tracking across multiple plants and production lines. Our system integrates seamlessly with ERP, MRP, WMS, QMS, and TMS, ensuring end-to-end visibility and operational efficiency.

Executive SCM Dashboard

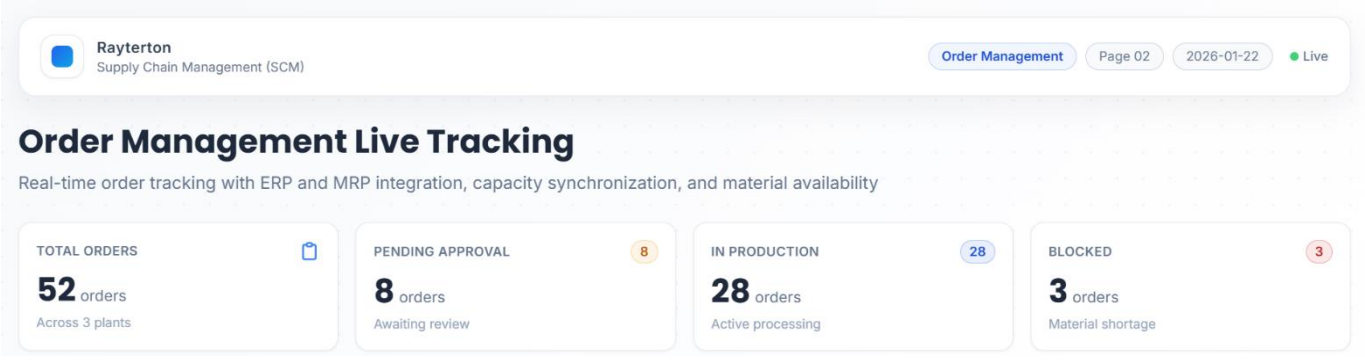
Executive SCM Dashboard provides managers with a comprehensive view of the entire supply chain's performance, offering real-time data and insights across multiple plants. It tracks key performance indicators (KPIs) such as **OEE**, **OTIF**, **Inventory Health**, and **Supplier Performance**, allowing decision-makers to identify bottlenecks, optimize processes, and ensure smooth operations.

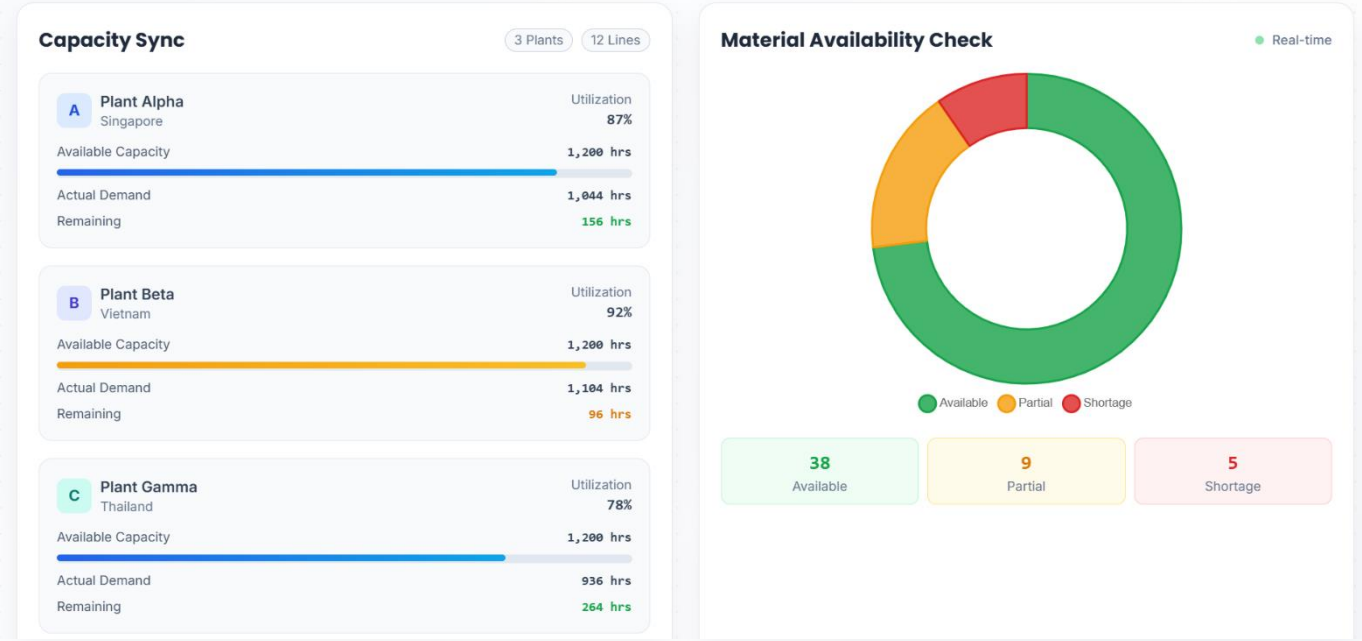




Order Management Live Tracking

Order Management Live Tracking module enables seamless order tracking from ERP through the production process, ensuring that materials, capacity, and priorities are aligned. Orders can be dynamically updated with real-time status tracking, providing a clear picture of the order lifecycle.





Order List

All Status | All Plants | All Types | 52 Orders

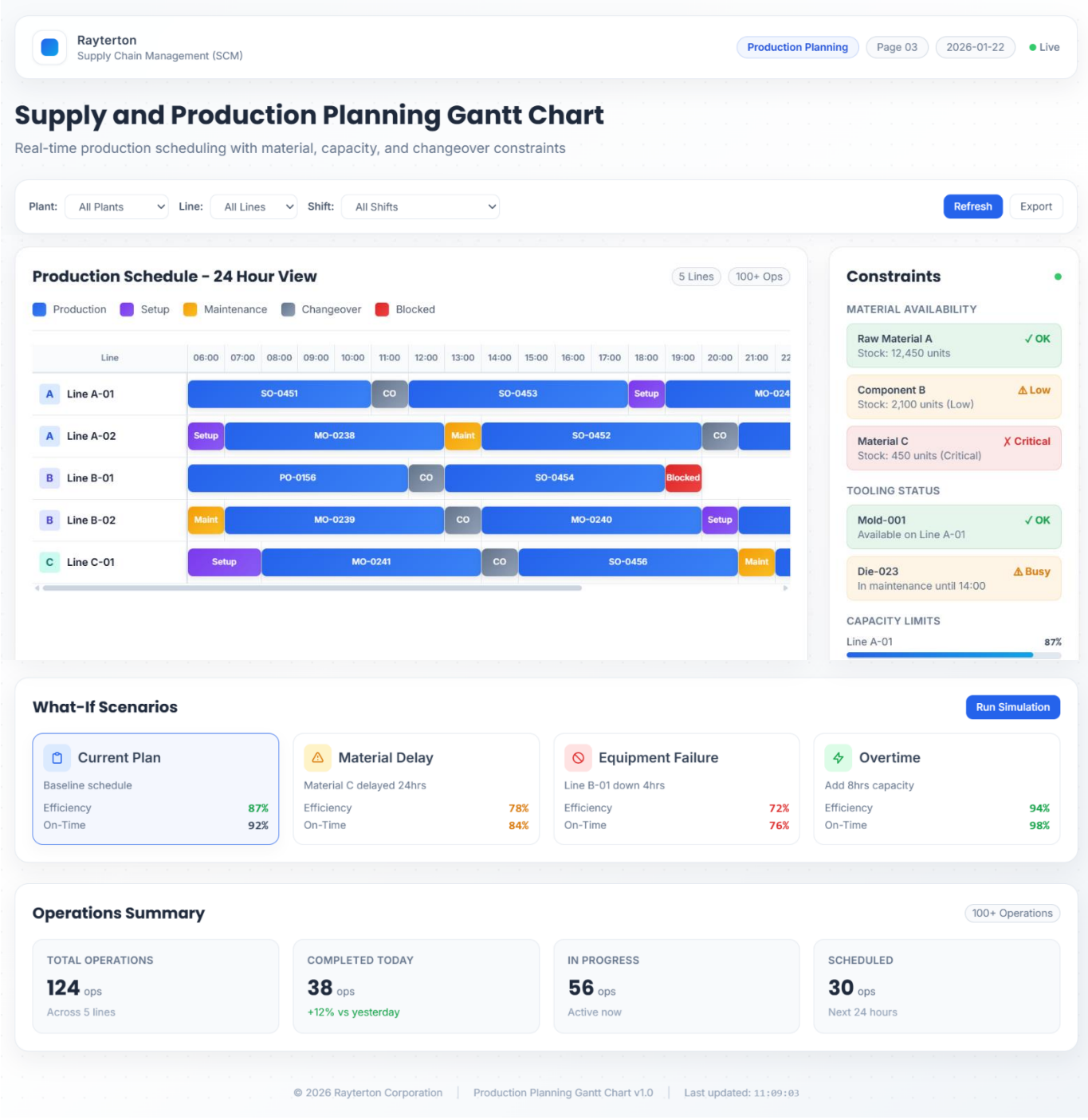
ORDER ID	TYPE	CUSTOMER	PLANT	LINE	QTY	DUE DATE	STATUS	MATERIAL	PRIORITY
SO-2026-0451	Sales	Acme Corp	Alpha	A-01	5,000	2026-01-28	Processing	✓ Available	High
MO-2026-0238	MO	TechGiant Inc	Beta	B-02	3,200	2026-01-30	Approved	✓ Available	Medium
SO-2026-0452	Sales	Global Parts Ltd	Alpha	A-03	2,800	2026-02-02	Pending	⚠ Partial	Normal
MO-2026-0239	MO	Precision Mfg	Gamma	C-01	4,500	2026-02-05	Blocked	✗ Shortage	High
PO-2026-0156	Planned	AutoParts Co	Beta	B-01	6,000	2026-02-08	Pending	✓ Available	Normal
SO-2026-0453	Sales	ElectroMax	Alpha	A-02	1,500	2026-02-10	Processing	✓ Available	Medium
MO-2026-0240	MO	Industrial Sol	Gamma	C-02	7,200	2026-02-12	Approved	⚠ Partial	Normal
SO-2026-0454	Sales	PrimeTech	Beta	B-03	3,800	2026-02-15	Blocked	✗ Shortage	High

Showing 8 of 52 orders

← Previous | Page 1 of 7 | Next →

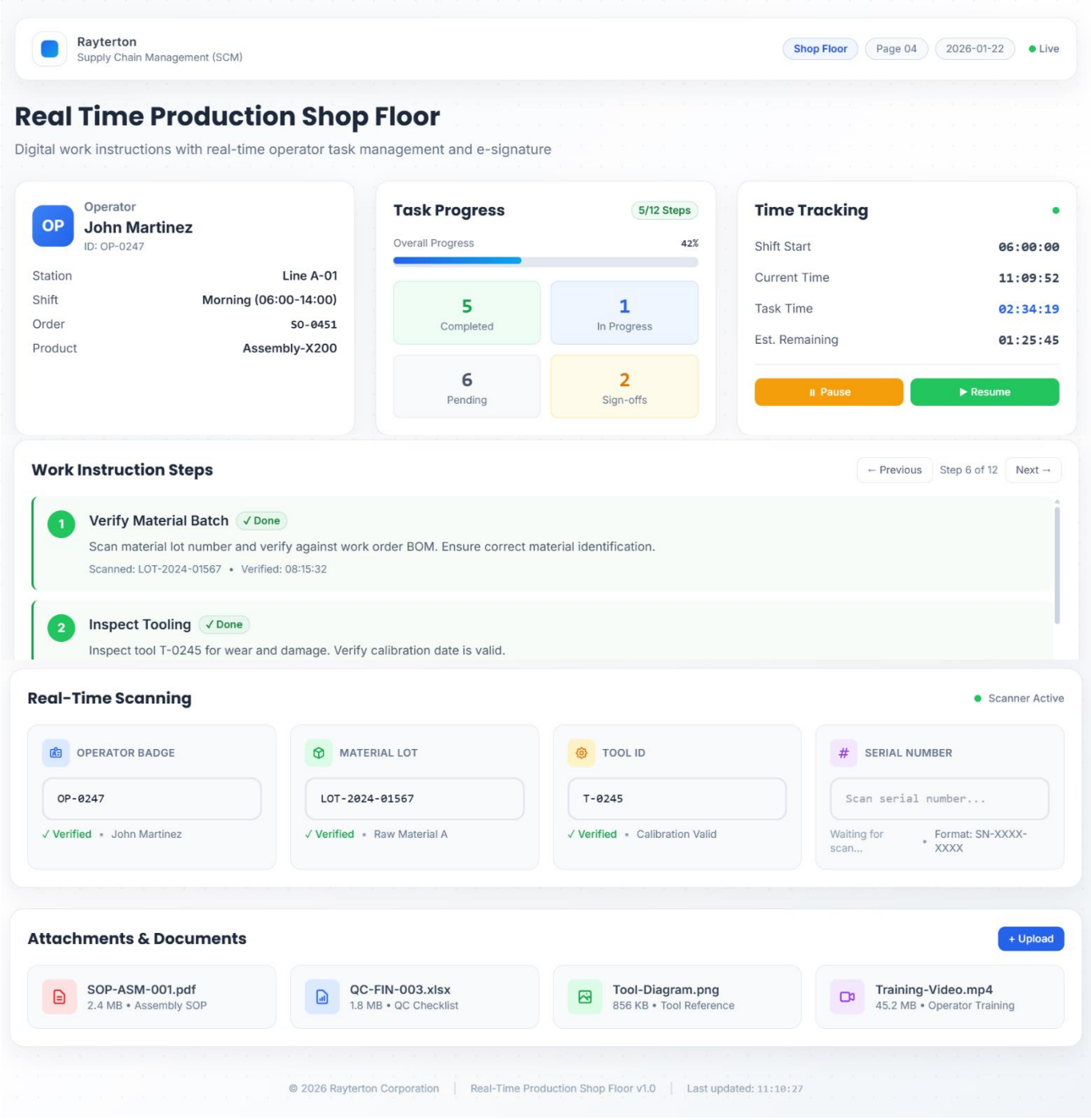
Supply and Production Planning Gantt Chart

Supply and Production Planning module offers a **Gantt chart view** of production schedules, helping planners visualize the allocation of resources and materials. The system accounts for material availability, tooling, and capacity constraints, making it easier to manage complex production schedules.



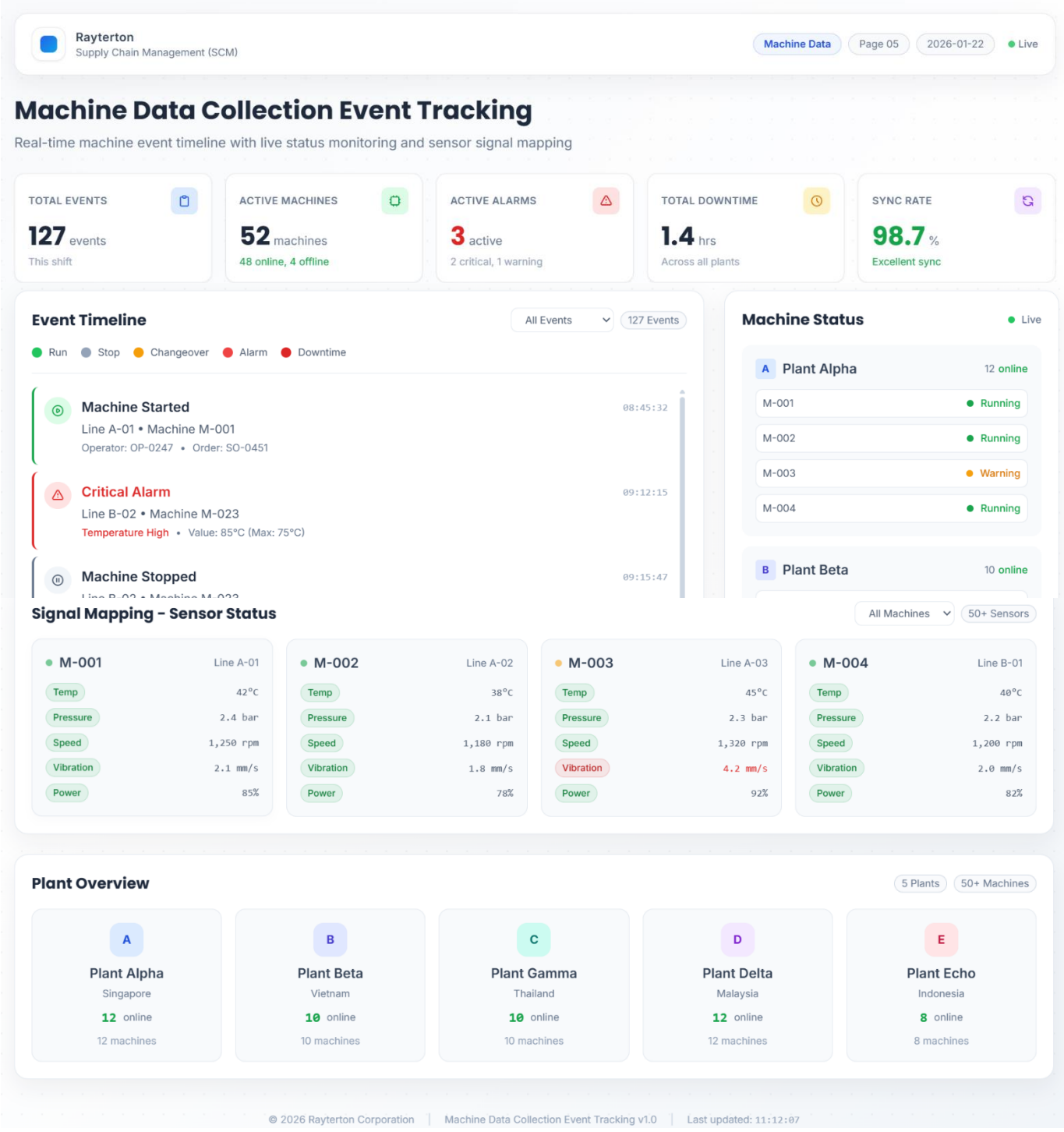
Real Time Production Shop Floor

Real Time Production Shop Floor module guides operators with **digital work instructions**, ensuring task consistency and reducing errors. Each task is tracked in real-time, with progress monitored through the system. Scans for material, tool IDs, and operator badges are enforced to ensure full traceability.



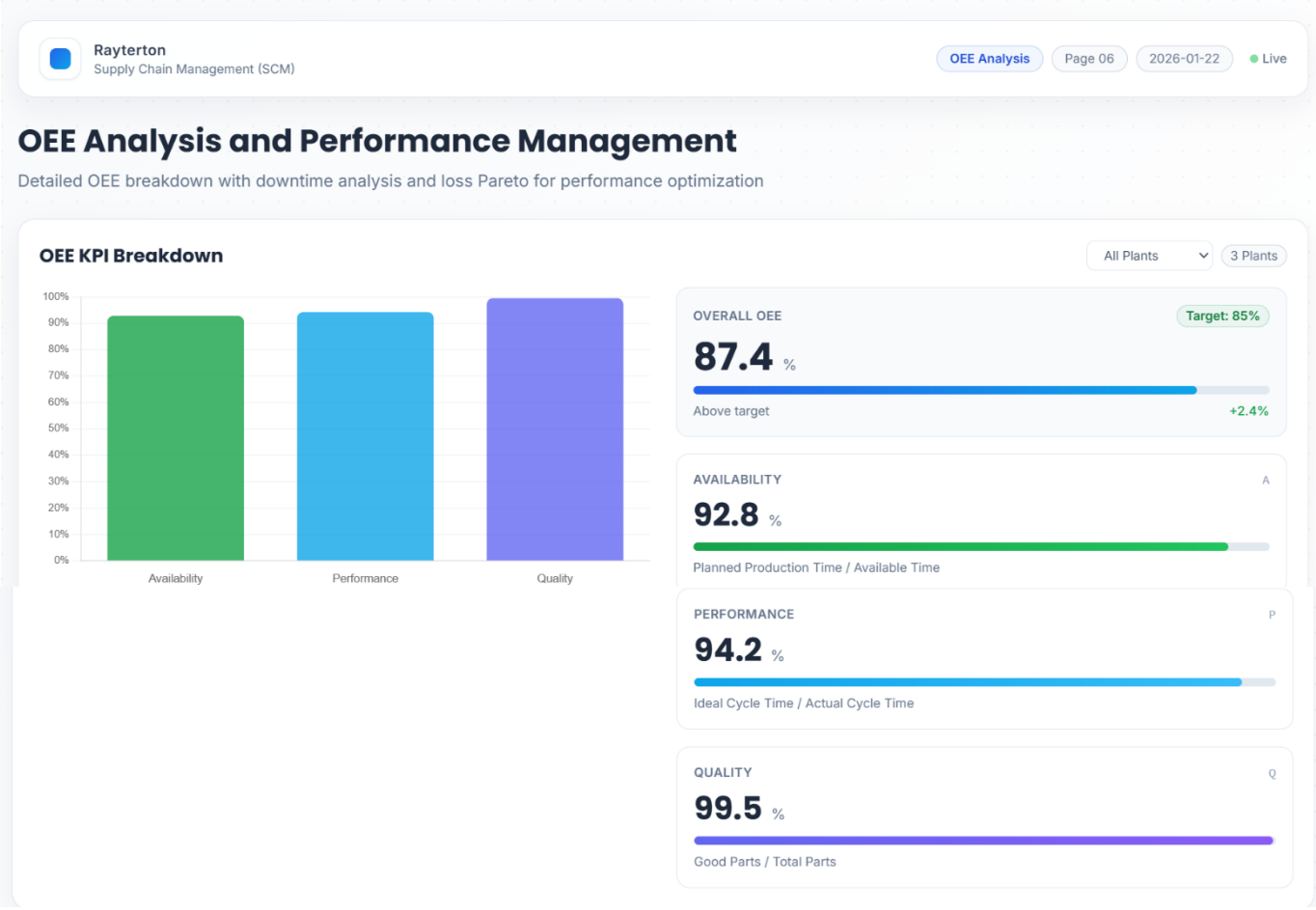
Machine Data Collection & Event Tracking

Machine Data Collection allows real-time monitoring of machine performance and event tracking. The module records machine **start/stop times**, **changeovers**, alarms, and downtime events, providing a comprehensive timeline of machine operations.



OEE Analysis and Performance Management

OEE Analysis provides a deep dive into production efficiency by breaking down OEE into **Availability**, **Performance**, and **Quality**. It links losses to **reason codes** and **events**, helping teams identify key areas for improvement.



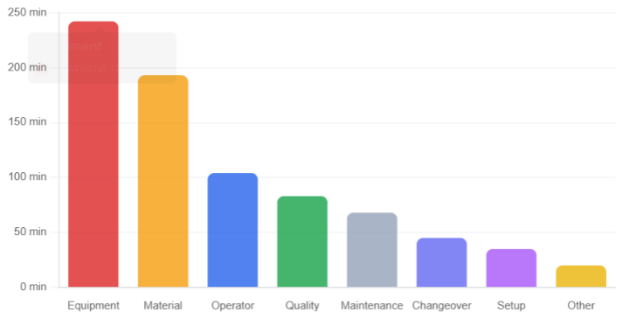
Downtime Timeline

10 Reason Codes | 3 Lines >100min

LINE	START	END	DURATION	REASON CODE	DESCRIPTION	IMPACT
Line A-01	08:15:00	09:45:00	90 min	EQ-001	Equipment Failure - Motor	High
Line B-02	09:20:00	11:05:00	105 min	MT-002	Material Shortage	High
Line B-02	11:30:00	13:45:00	135 min	OP-003	Operator Absence	Medium
Line C-01	10:00:00	12:15:00	135 min	MN-004	Scheduled Maintenance	Low
Line A-02	12:30:00	13:20:00	50 min	QL-005	Quality Hold	Medium
Line A-01	13:45:00	14:30:00	45 min	EQ-001	Equipment Failure - Sensor	Medium
Line B-01	14:15:00	16:00:00	105 min	MT-002	Material Shortage	High
Line C-01	14:30:00	15:10:00	40 min	EQ-001	Equipment Failure - Drive	Medium
Line A-03	15:00:00	16:30:00	90 min	OP-003	Operator Absence	Medium

Pareto of Losses

10 Reason Codes



Loss Breakdown by Reason

Total: 690 min

EQ-001	Equipment Failure	35%	242 min
MT-002	Material Shortage	28%	193 min
OP-003	Operator Issues	15%	104 min
QL-005	Quality Issues	12%	83 min
MN-004	Maintenance	10%	68 min

Reason Code Legend:
EQ-001 Equipment Failure | MT-002 Material Shortage | OP-003 Operator Issues | QL-005 Quality Issues | MN-004 Maintenance

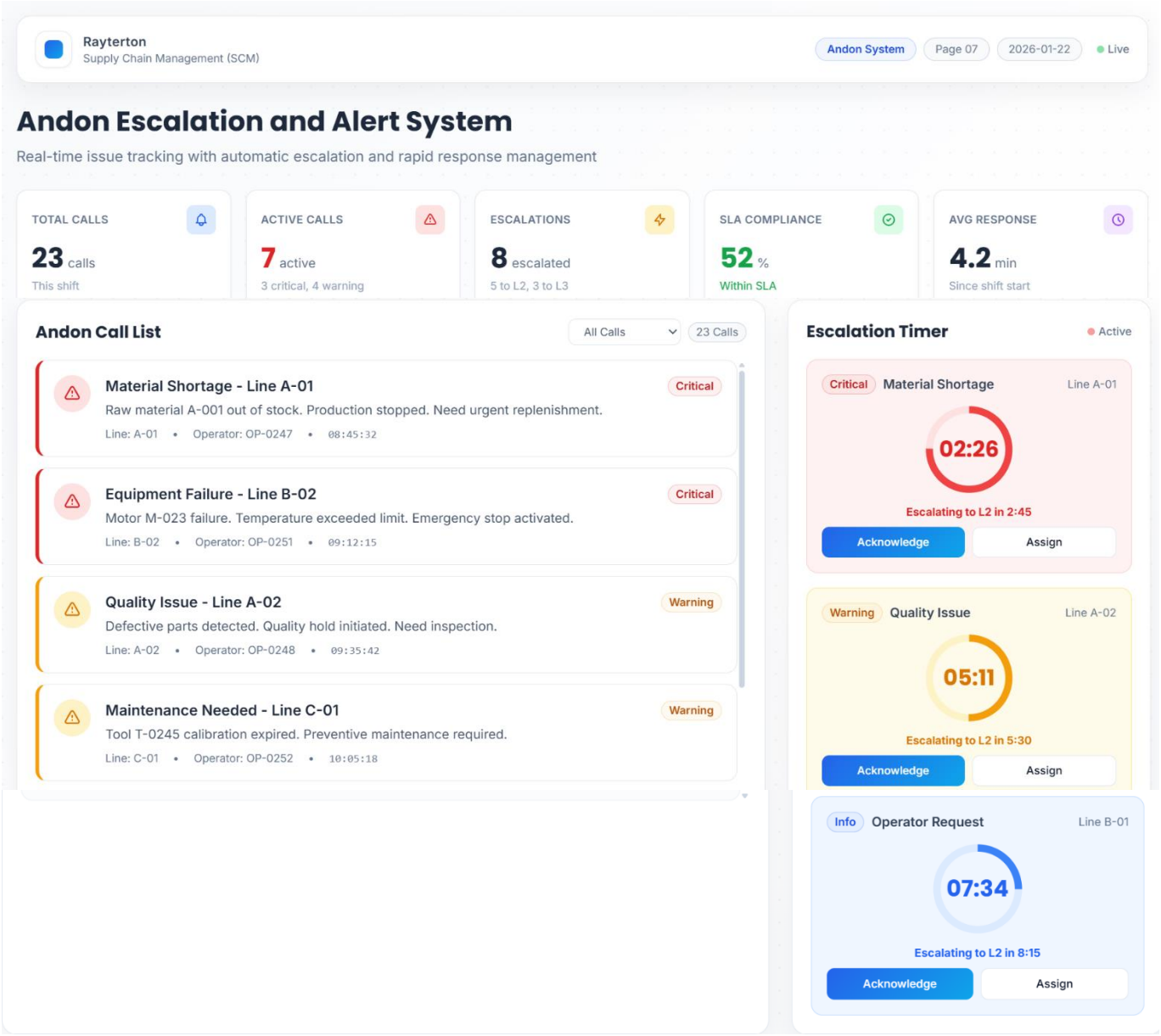
Line Performance Summary

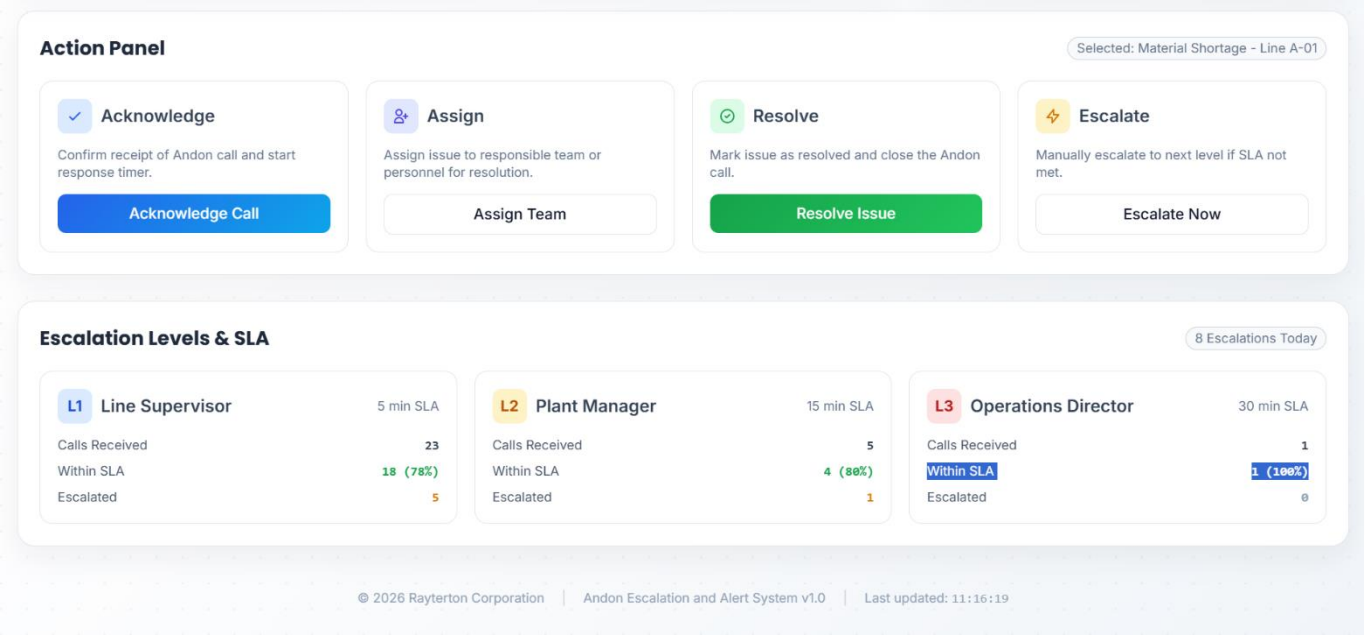
3 Lines >100min Downtime | 12 Lines Total

	Line A-01	Line B-02	Line C-01	Line A-03
	A	B	C	A
Downtime	135 min	240 min	175 min	90 min
OEE	89.2%	82.1%	85.4%	88.7%
Availability	91.5%	88.3%	90.1%	92.8%
Performance	96.8%	94.5%	95.2%	97.1%
Quality	99.2%	98.5%	99.8%	98.9%

Andon Escalation, and Alert System

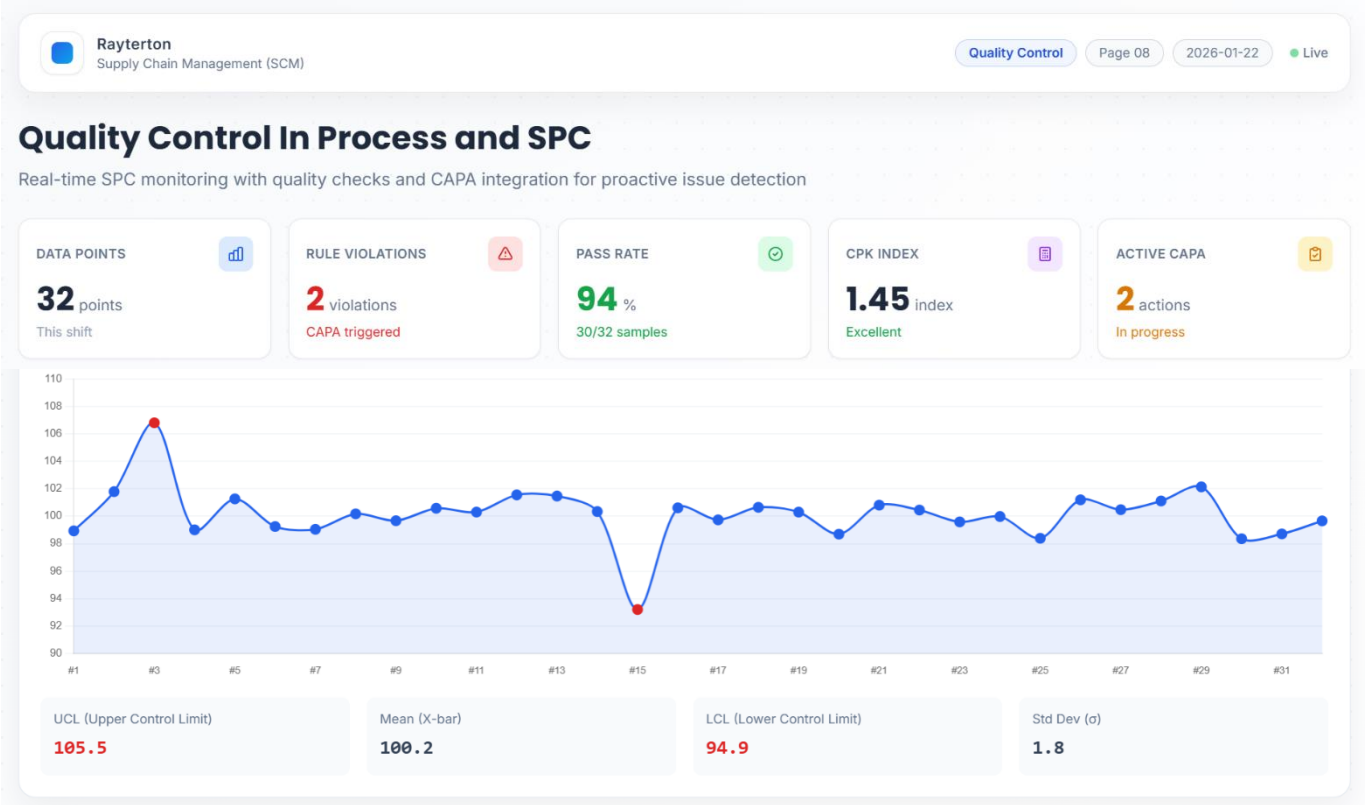
Andon Escalation module tracks issues in real-time, from material shortages to quality concerns. With an **SLA timer**, the system ensures that each issue is resolved within the predefined time frame.

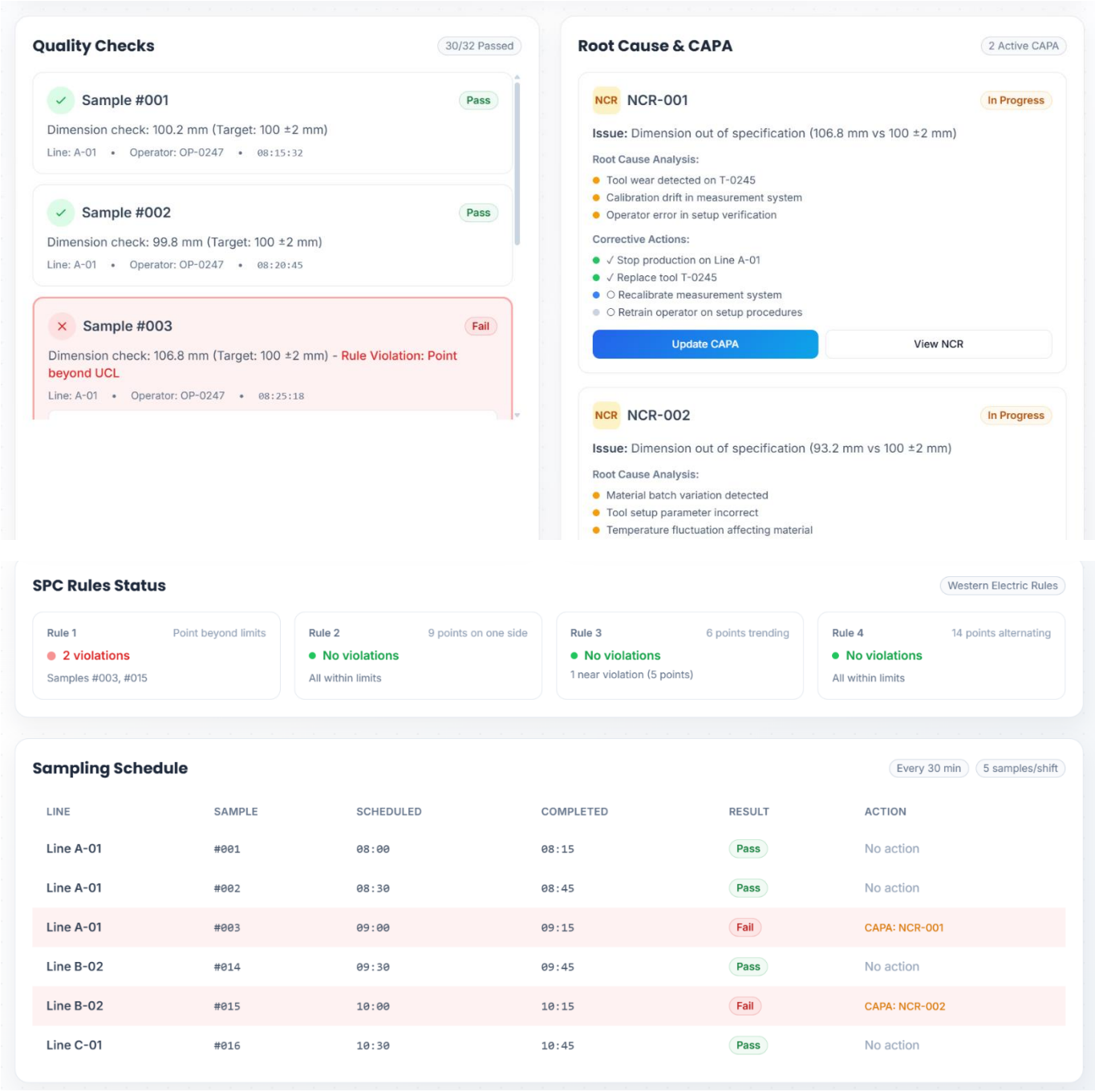




Quality Control In Process And SPC

In-Process Quality Control and Statistical Process Control (SPC) to monitor production quality in real time.





SPC Rules Status

Western Electric Rules

Rule 1	Rule 2	Rule 3	Rule 4
Point beyond limits	9 points on one side	6 points trending	14 points alternating
2 violations	No violations	No violations	No violations
Samples #003, #015	All within limits	1 near violation (5 points)	All within limits

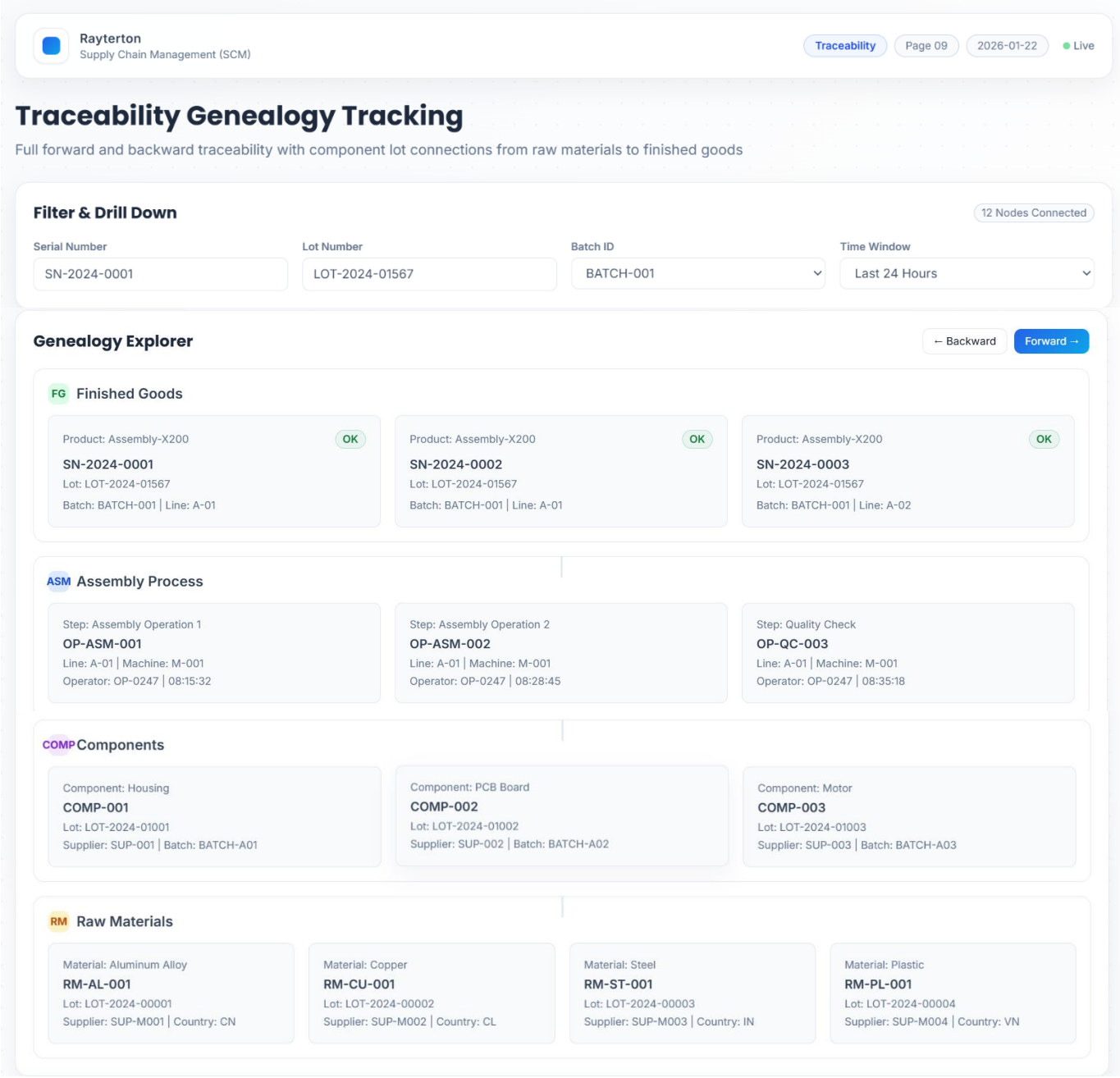
Sampling Schedule

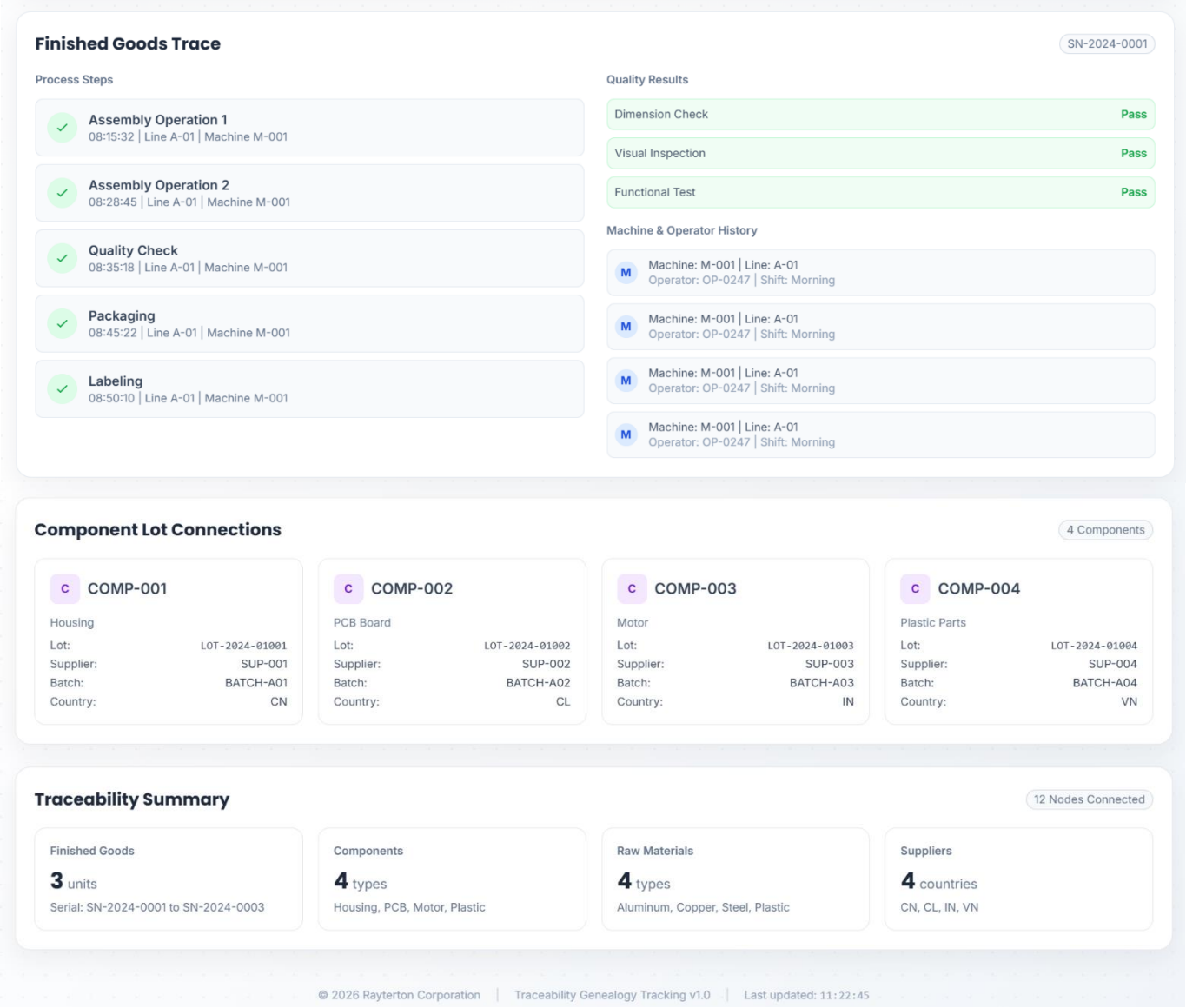
Every 30 min · 5 samples/shift

LINE	SAMPLE	SCHEDULED	COMPLETED	RESULT	ACTION
Line A-01	#001	08:00	08:15	Pass	No action
Line A-01	#002	08:30	08:45	Pass	No action
Line A-01	#003	09:00	09:15	Fail	CAPA: NCR-001
Line B-02	#014	09:30	09:45	Pass	No action
Line B-02	#015	10:00	10:15	Fail	CAPA: NCR-002
Line C-01	#016	10:30	10:45	Pass	No action

Traceability and Genealogy Tracking

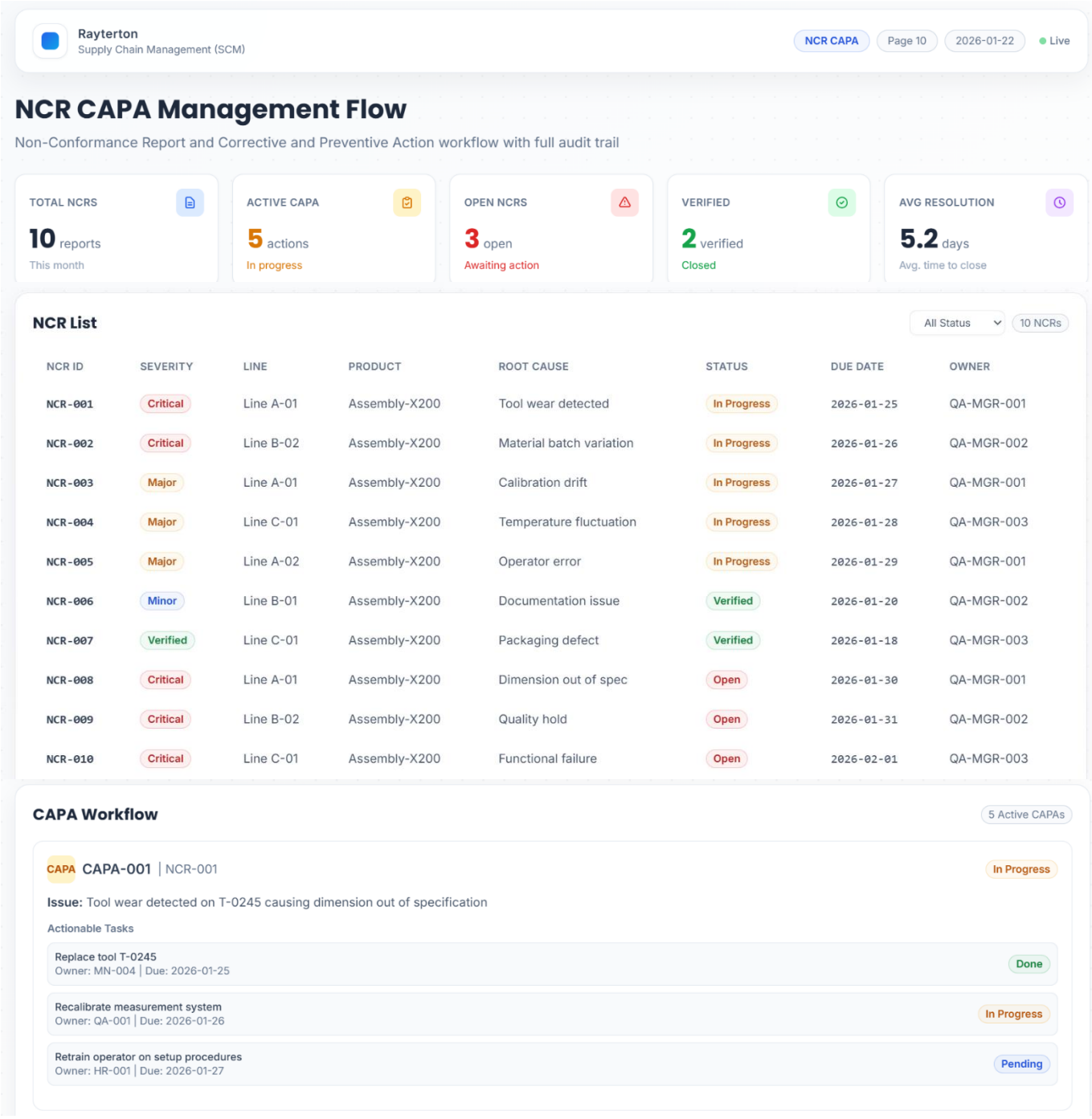
Traceability and Genealogy Tracking module provides comprehensive visibility into the lifecycle of products, enabling you to trace each component, lot, and serial number across the entire supply chain.




Finished Goods Trace
SN-2024-0001
Process Steps
Assembly Operation 1
08:15:32 | Line A-01 | Machine M-001
Assembly Operation 2
08:28:45 | Line A-01 | Machine M-001
Quality Check
08:35:18 | Line A-01 | Machine M-001
Packaging
08:45:22 | Line A-01 | Machine M-001
Labeling
08:50:10 | Line A-01 | Machine M-001
Quality Results
Dimension Check
Pass
Visual Inspection
Pass
Functional Test
Pass
Machine & Operator History
M
Machine: M-001 | Line: A-01
Operator: OP-0247 | Shift: Morning
M
Machine: M-001 | Line: A-01
Operator: OP-0247 | Shift: Morning
M
Machine: M-001 | Line: A-01
Operator: OP-0247 | Shift: Morning
M
Machine: M-001 | Line: A-01
Operator: OP-0247 | Shift: Morning
Component Lot Connections
4 Components
C
COMP-001
Housing
Lot:
LOT-2024-01001
Supplier:
SUP-001
Batch:
BATCH-A01
Country:
CN
C
COMP-002
PCB Board
Lot:
LOT-2024-01002
Supplier:
SUP-002
Batch:
BATCH-A02
Country:
CL
C
COMP-003
Motor
Lot:
LOT-2024-01003
Supplier:
SUP-003
Batch:
BATCH-A03
Country:
IN
C
COMP-004
Plastic Parts
Lot:
LOT-2024-01004
Supplier:
SUP-004
Batch:
BATCH-A04
Country:
VN
Traceability Summary
12 Nodes Connected
Finished Goods
3 units
Serial: SN-2024-0001 to SN-2024-0003
Components
4 types
Housing, PCB, Motor, Plastic
Raw Materials
4 types
Aluminum, Copper, Steel, Plastic
Suppliers
4 countries
CN, CL, IN, VN
© 2026 Rayterton Corporation
Traceability Genealogy Tracking v1.0
Last updated: 11:22:45

NCR & CAPA Management Flow

Track and manage **Non-Conformance Reports (NCR)** and **Corrective and Preventive Actions (CAPA)** with a structured workflow and audit trail, ensuring continuous improvement and compliance. **NCR and CAPA Management Flow** ensures that every deviation from quality standards is documented and addressed through a well defined process.



CAPA **CAPA-002** | NCR-002 — In Progress

Issue: Material batch variation causing dimension out of specification

Actionable Tasks

- Replace material batch — Owner: PUR-001 | Due: 2026-01-26 — Done
- Verify tool setup parameters — Owner: MN-004 | Due: 2026-01-27 — In Progress
- Check temperature control system — Owner: MN-004 | Due: 2026-01-28 — Pending

CAPA **CAPA-003** | NCR-003 — In Progress

Issue: Calibration drift in measurement system

Actionable Tasks

- Recalibrate measurement equipment — Owner: QA-001 | Due: 2026-01-27 — In Progress
- Update calibration schedule — Owner: QA-MGR-001 | Due: 2026-01-28 — Pending

CAPA **CAPA-004** | NCR-004 — In Progress

Issue: Temperature fluctuation affecting material

Actionable Tasks

- Check temperature control system — Owner: MN-004 | Due: 2026-01-28 — In Progress
- Document material supplier issue — Owner: PUR-001 | Due: 2026-01-29 — Pending

CAPA **CAPA-005** | NCR-005 — In Progress

Issue: Operator error in setup verification

Approval Process & Audit Trail

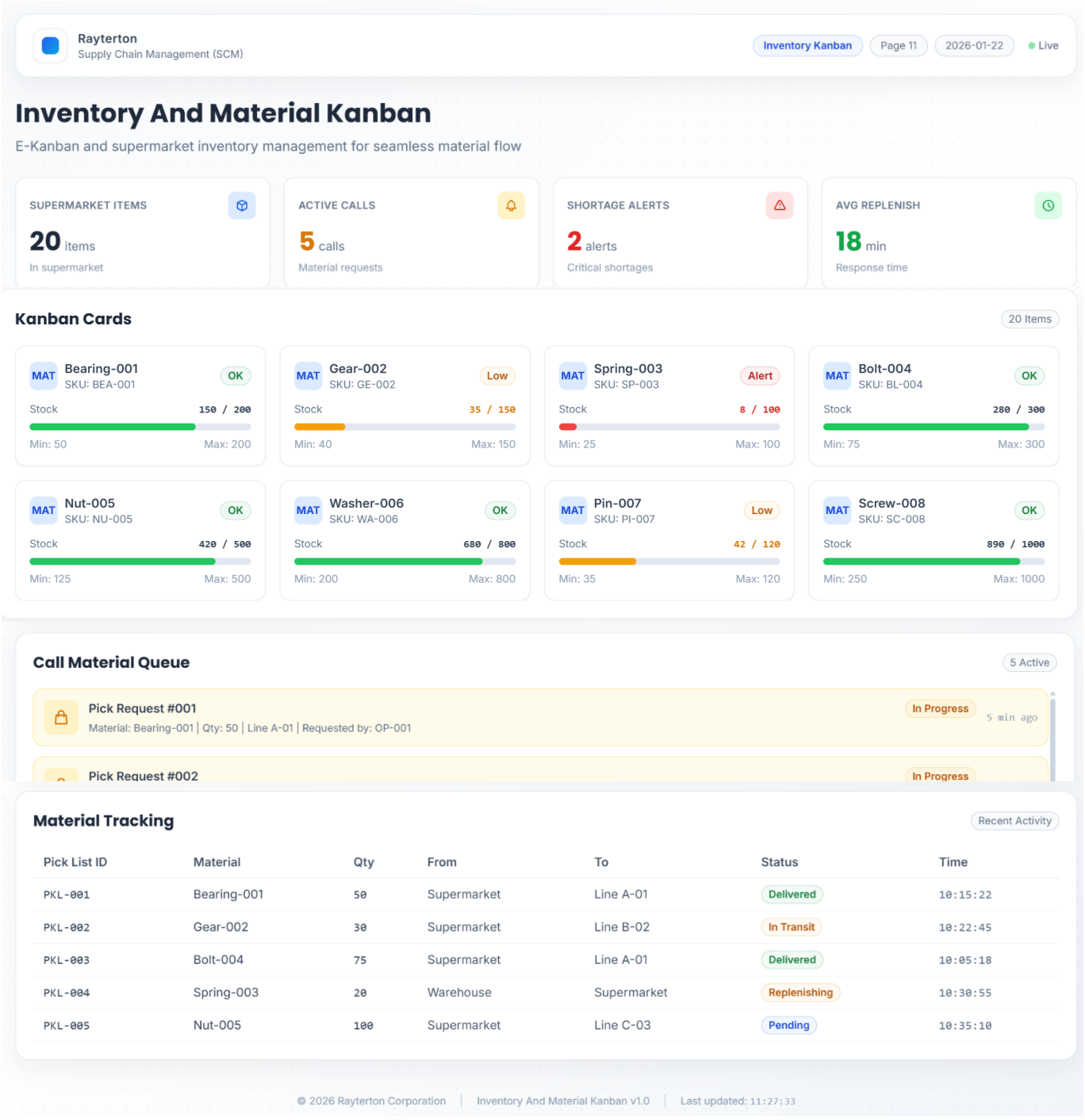
NCR-001

✓	**NCR Created** — Created by: QA-MGR-001 | Line A-01	2026-01-22 08:15:32
✓	**Root Cause Analysis** — Analyzed by: QA-MGR-001 | Root cause: Tool wear detected	2026-01-22 10:30:45
✓	**CAPA Initiated** — Initiated by: QA-MGR-001 | CAPA-001 created	2026-01-22 11:00:18
✓	**Task 1 Completed** — Completed by: MN-004 | Tool T-0245 replaced	2026-01-25 14:20:55
◷	**Task 2 In Progress** — In progress by: QA-001 | Recalibrating measurement system	2026-01-26 09:15:22
◷	**Task 3 Pending** — Assigned to: HR-001 | Retrain operator on setup procedures	Due: 2026-01-27
◷	**Verification Pending** — Verification by: QA-MGR-001 | Sign-off required	Due: 2026-01-30
◷	**Final Approval** — Approval by: Plant Manager | Sign-off required	Due: 2026-01-31

View Full Audit Trail | Export Report

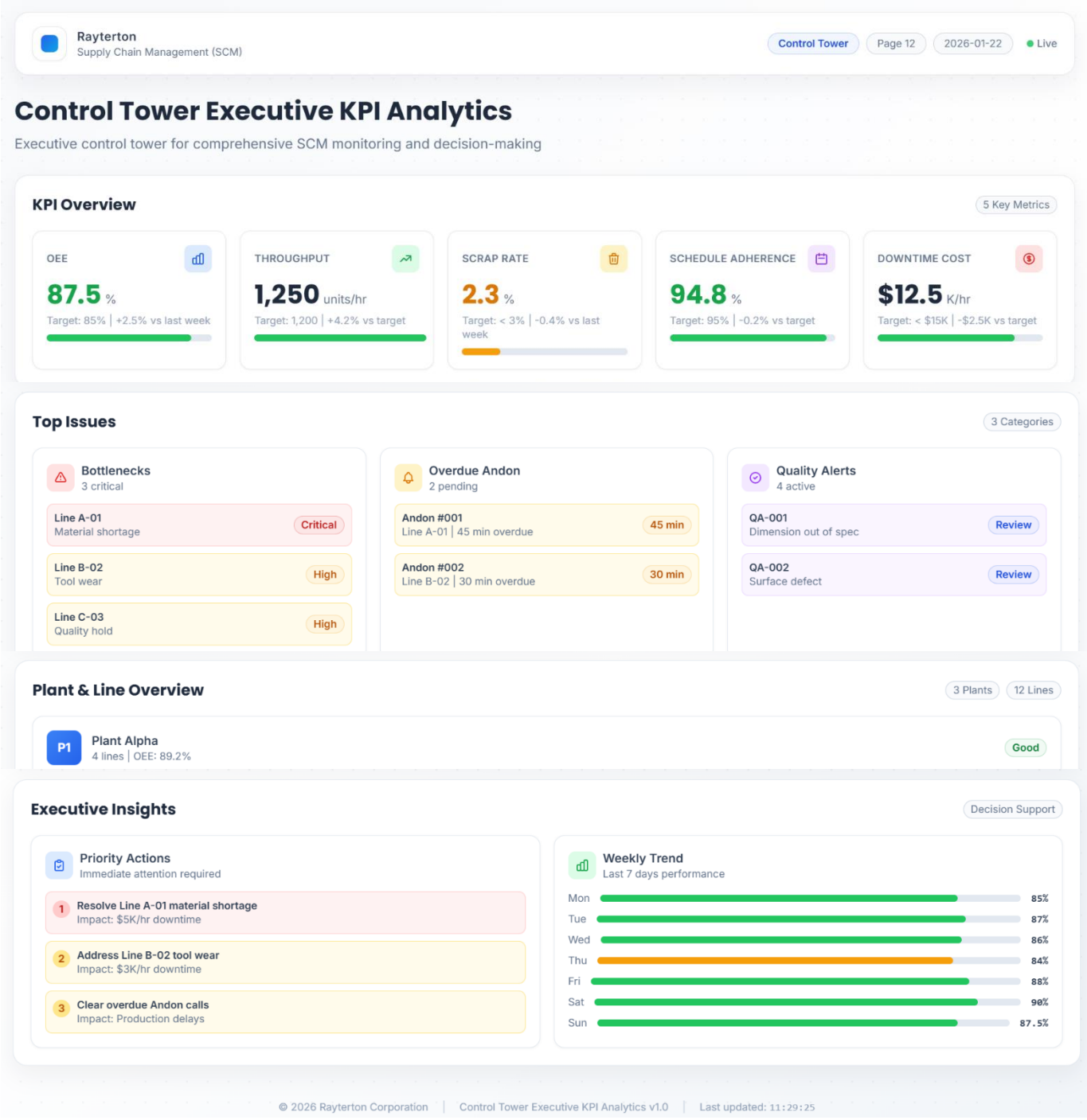
Inventory & Material Kanban

Manage inventory and materials efficiently with **eKanban** and **supermarket inventory management**, ensuring uninterrupted material flow on the production line. **Inventory & Material Kanban** module helps streamline material management by automating the tracking of inventory levels and material requests.



Control Tower Executive KPI Analytics

Provide an executive-level view to monitor SCM KPIs across all plants, enabling data-driven decision-making at the managerial level. **Control Tower Executive KPI Analytics** module offers a comprehensive overview of key supply chain performance metrics (KPIs), helping leadership track performance and make informed decisions.



Glossary

SCM (Supply Chain Management)
The overall process of managing the flow of materials, products, and information from suppliers to customers.

ERP (Enterprise Resource Planning)
The main business system used to manage orders, finance, inventory, and production.

MRP (Material Requirements Planning)
A system that calculates what materials are needed and when, based on production plans.

WMS (Warehouse Management System)
Software used to manage warehouse operations and inventory.

QMS (Quality Management System)
Software used to manage quality processes and compliance.

TMS (Transportation Management System)
Software used to plan, track, and manage transportation and shipments.

KPI (Key Performance Indicator)
A key number used to measure performance, such as delivery or inventory levels.

OEE (Overall Equipment Effectiveness)
A metric that measures how efficiently production equipment is used.

OTIF (On Time In Full)
A measure of whether customer orders are delivered on time and in the correct quantity.

SPC (Statistical Process Control)
A statistical method used to monitor and control production quality.

NCR (Non-Conformance Report)
A report created when products or processes do not meet quality requirements.

CAPA (Corrective and Preventive Action)
A structured process to fix quality problems and prevent them from happening again.

Ready to Transform Your Supply Chain?

Take control of your supply chain operations today with our **SCM solution**. Experience seamless integration, real-time monitoring, and data-driven insights to optimize your operations. Reach out to our team for a personalized demo and see how our platform can help streamline your supply chain management

Contact Us :

+62 812 9615 0369 **marketing@rayterton.com**

About Rayterton

Established in 2003, Rayterton delivers comprehensive Best Fit Software Solutions, server and hardware products, and technology services to a wide range of industries and organizations. Our core expertise lies in Business Process Improvement (BPI), IT Infrastructure, and IT Management.

At Rayterton, we are committed to empowering our clients by enhancing their business operations through tailored IT and management solutions. We combine innovation, experience, and client collaboration to ensure long-term success and digital transformation.

Our Competitive Strengths

100% Risk Free	**Best fit to client requirements**	**Easy to customize**	**Software ownership**	**No Change Request (CR) fees during maintenance**

For more information, visit rayterton.com