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Digital Inspection Rounds: From Field Execution to AI-Driven Continuous Improvement

SCIC
SINGAPORE CHEMICAL INDUSTRY COUNCIL

2026

About us

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2005

Founded in Germany,
Offices in Boston, USA

30

Countries with
Implementations

107,000+

Users around the globe
In all languages

SAP Partner

Microsoft Partner

AVEVA Partner Ecosystem | Independent Software Vendor MEMBER

ISO 27001 INFORMATION SECURITY MANAGEMENT SYSTEM

ISO 9001 QUALITY MANAGEMENT

Partner for Leading Chemical & Pharma Manufacturers

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covestro

BAYER

Air Liquide

dsm-firmenich

sanofi

Roche

Alcon

abbvie

ALBEMARLE

Olin

Boehringer Ingelheim

MSD

GRACE

DUPONT

RÖHM
TRADITIONALLY INNOVATIVE

BASF
We create chemistry

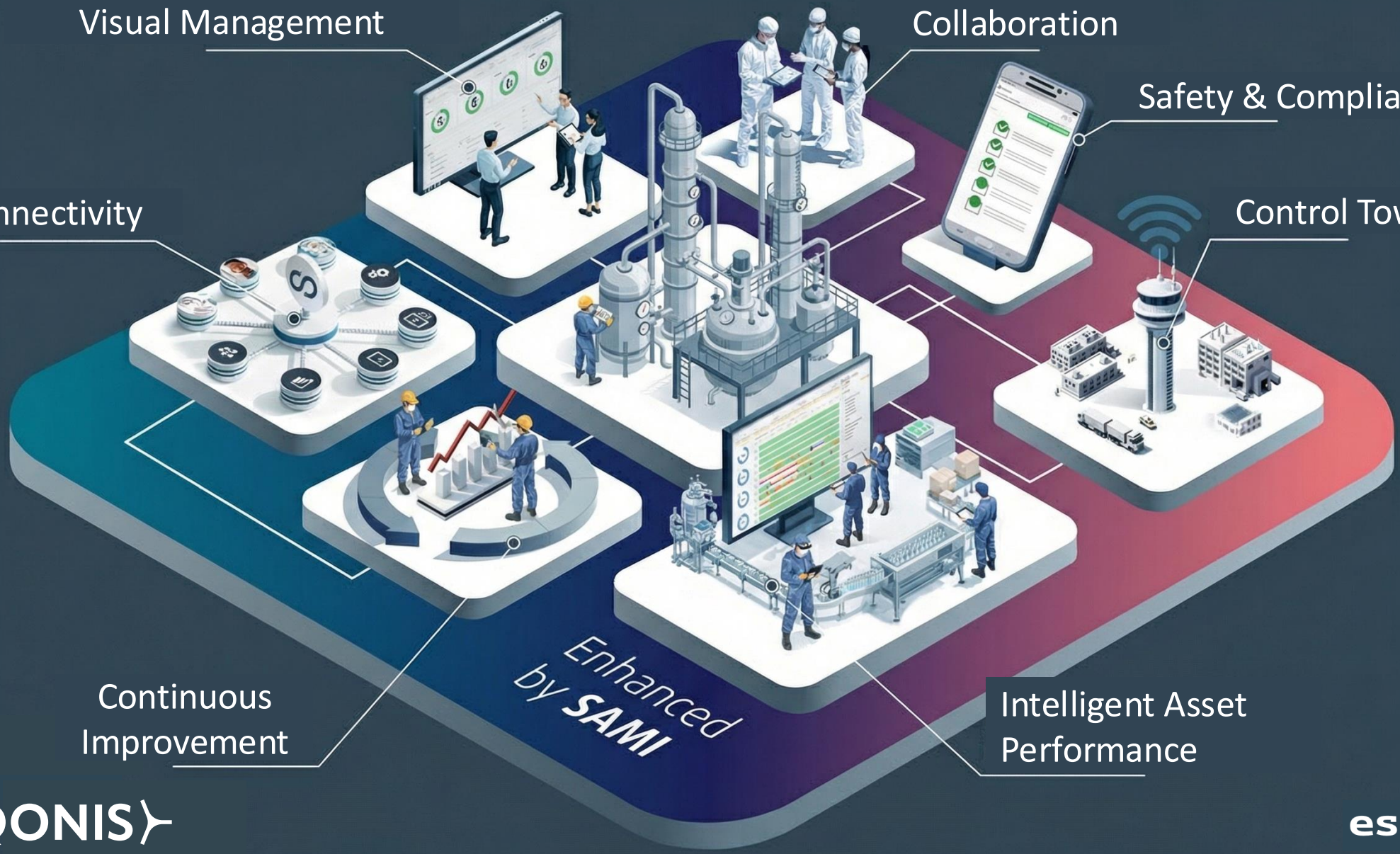
Budenheim

MERCK

octapharma

Siegfried

Seqonis Intelligent Operations Platform



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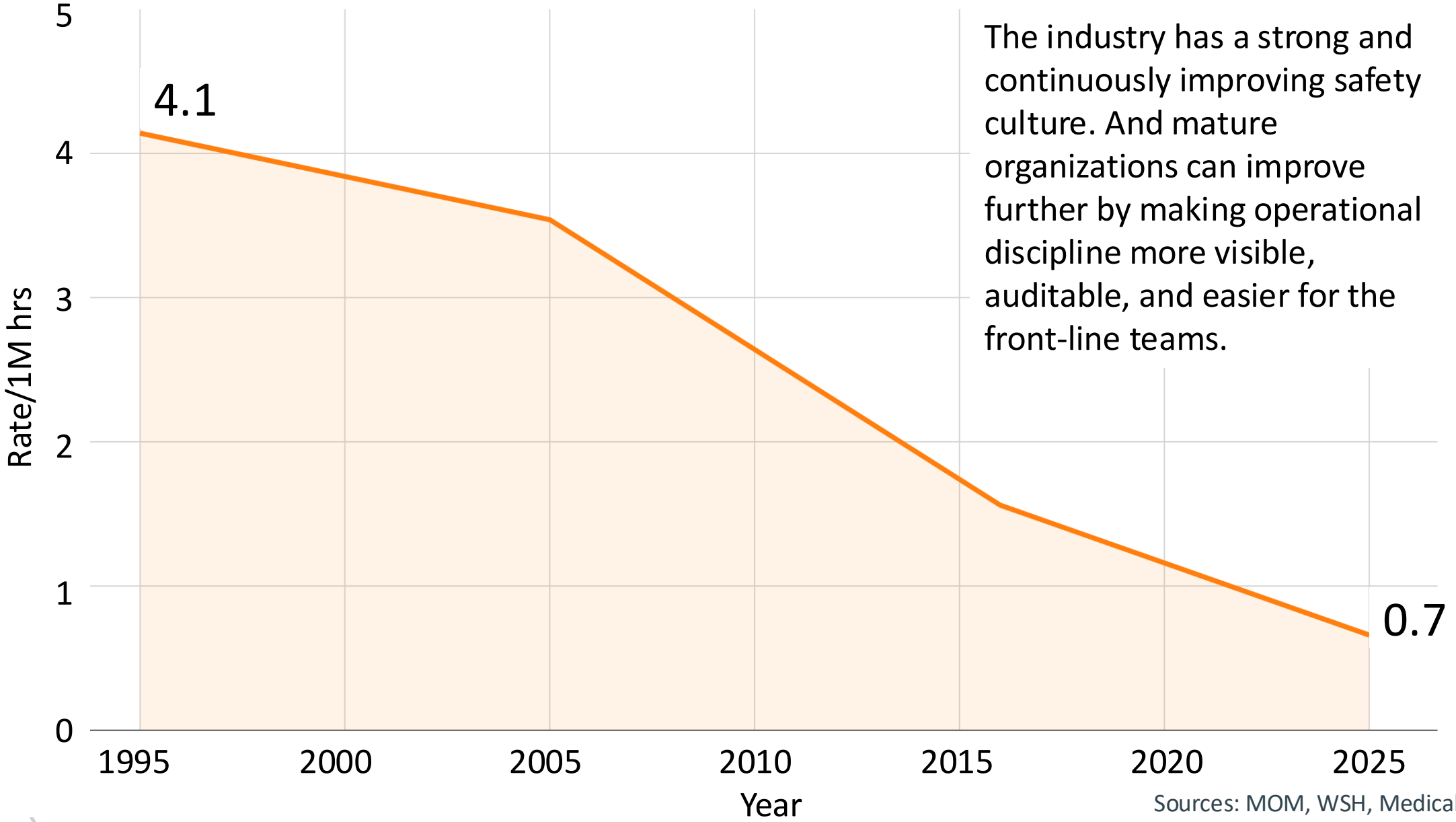
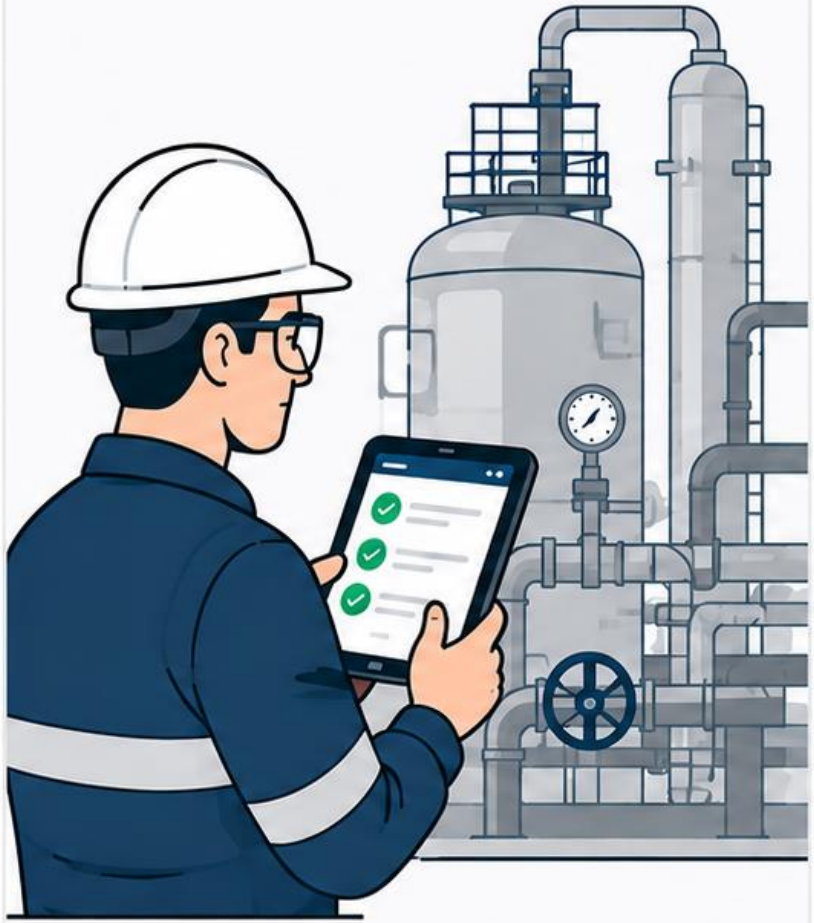
Returning Home Safely.

Major reduction of Incidents in Chemical



The industry has a strong and continuously improving safety culture. And mature organizations can improve further by making operational discipline more visible, auditable, and easier for the front-line teams.

Sources: MOM, WSH, Medical/Academic Reviews



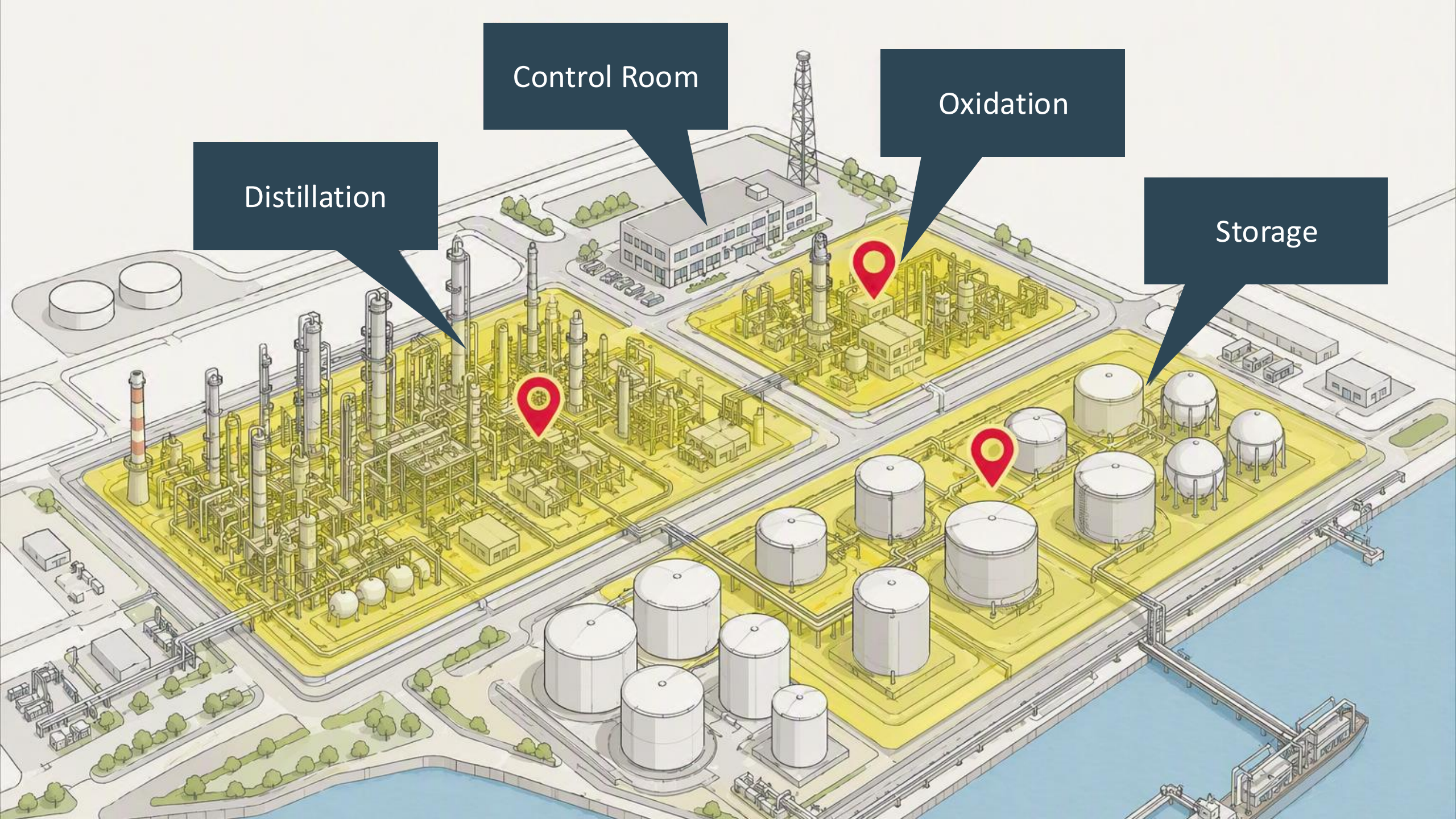
Mobile Rounds

Track Operational Discipline in a Team-Board

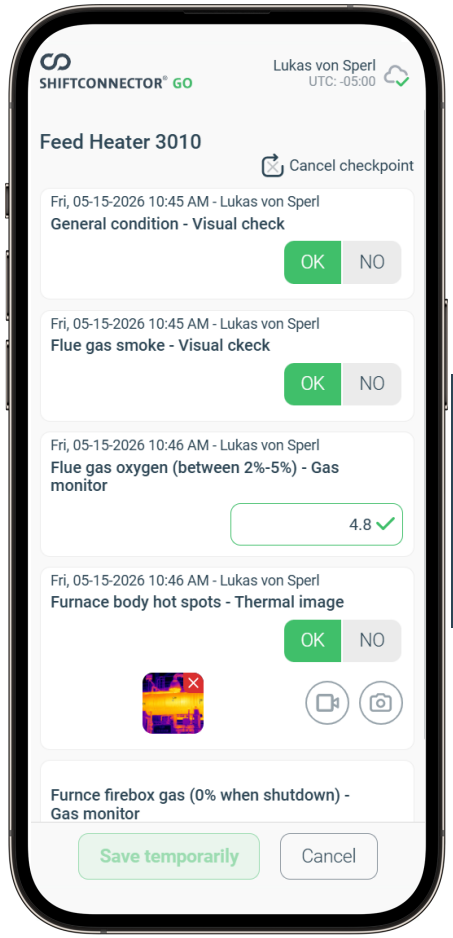
Reduce Risk of Lost Learnings

Mobile Inspection Rounds

in Disconnected Areas


Control Room
Oxidation
Distillation
Storage

Mobile Inspection Rounds



Connected

Tank Farm Access & Containment Check

Pump Station P-204 Operating Check

Offline Area

Disconnected

Chemical Storage Area Housekeeping & Valve Check

Connected

Round Completion & Handover Sync

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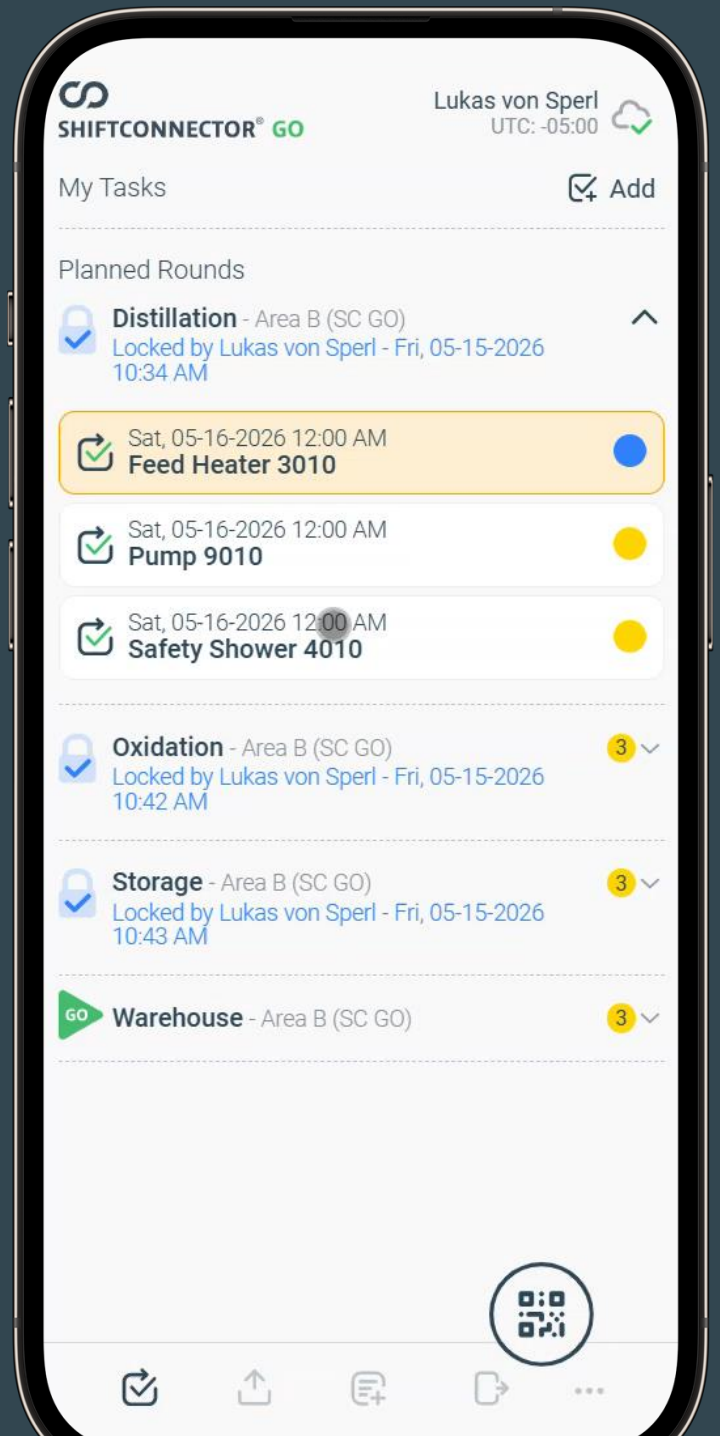
- Checkpoint 1
- Checkpoint 2
- Checkpoint 3
- Checkpoint 4

Field operators complete structured inspection rounds directly on mobile — even in offline areas — with findings automatically synced when connectivity is restored.



Example – Leakage detection during inspection

Example – Leakage detection during inspection

Anomalies detected during rounds trigger immediate follow-up workflows: corrective actions are assigned, tracked and escalated automatically, closing the loop between the field and the control room.

Track Operational Discipline in a Team-Board

Management of Compliance Critical Tasks

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EHSQ Responsible

Outside Field Operator

Supervisor / Process Engineer

EHSQ Responsible

Track Operational Discipline in a Team-Board

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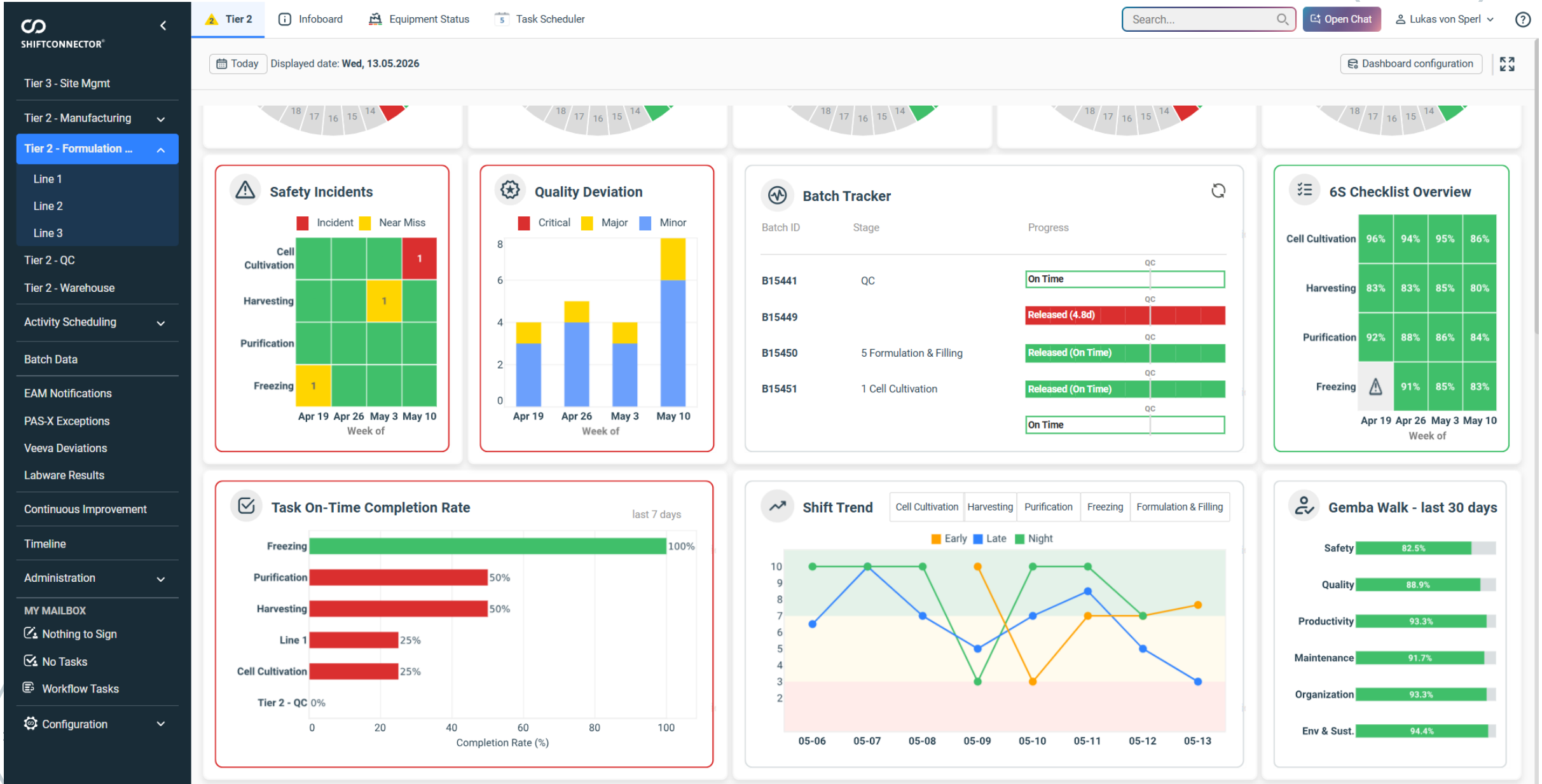
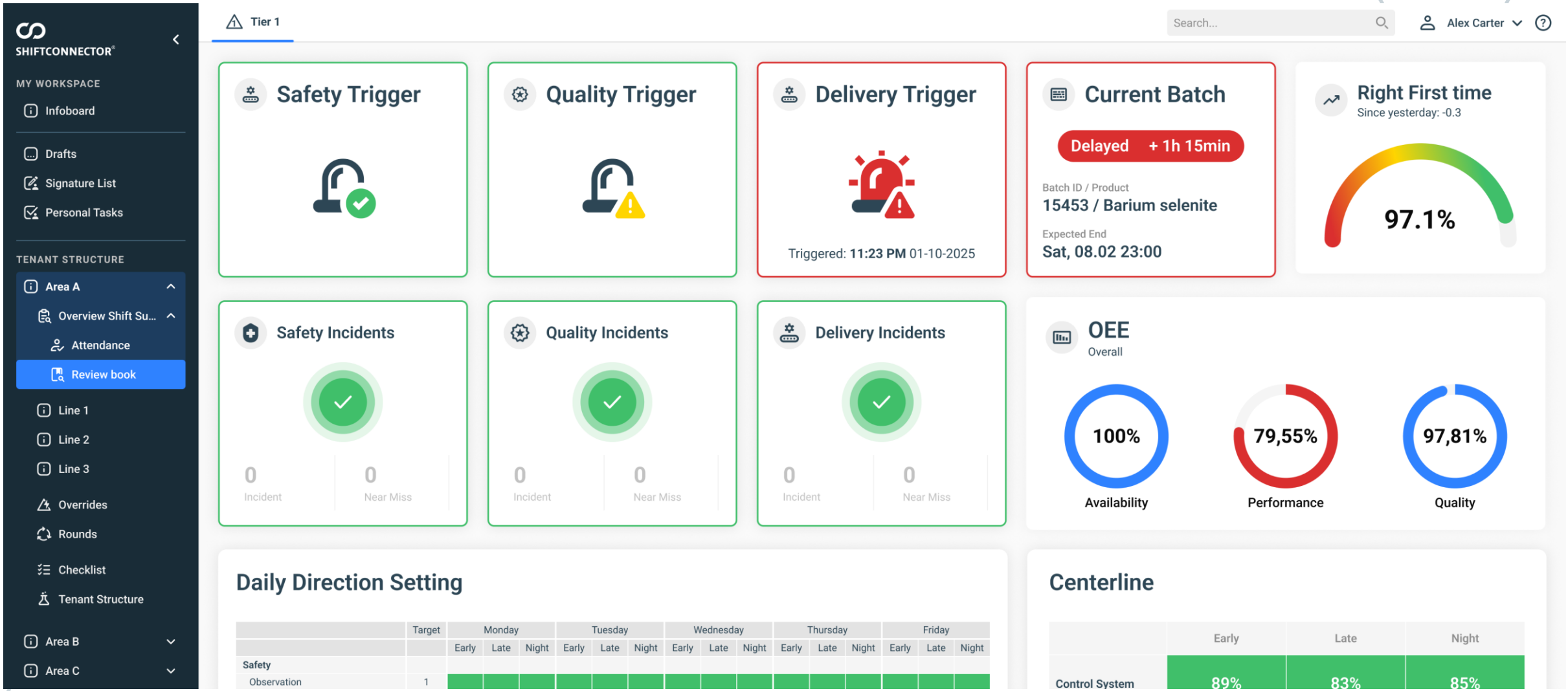


Track Operational Discipline in a Team-Board



The Circle of Knowledge

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SAMI Mobile

SHIFTCONNECTOR®

Capture knowledge

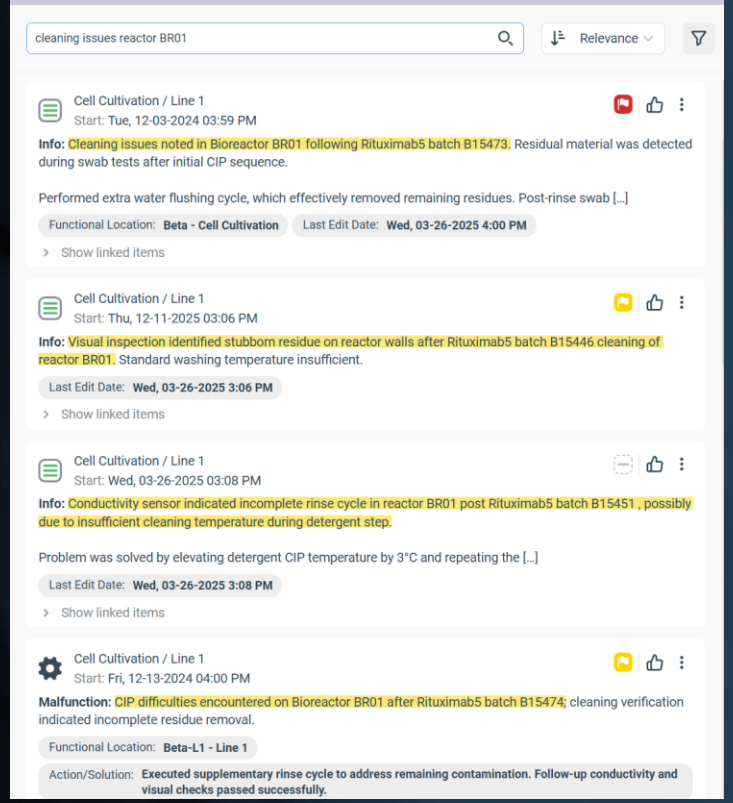
Retrieve knowledge

SHIFTCONNECTOR®

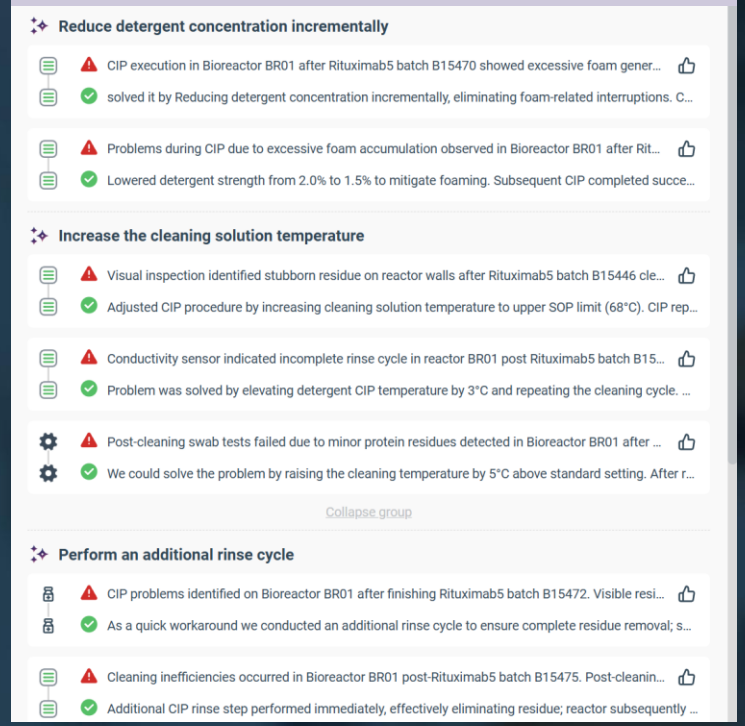
- SAMI Search
- SAMI Solutions
- SAMI Chat

AI Features & Functions

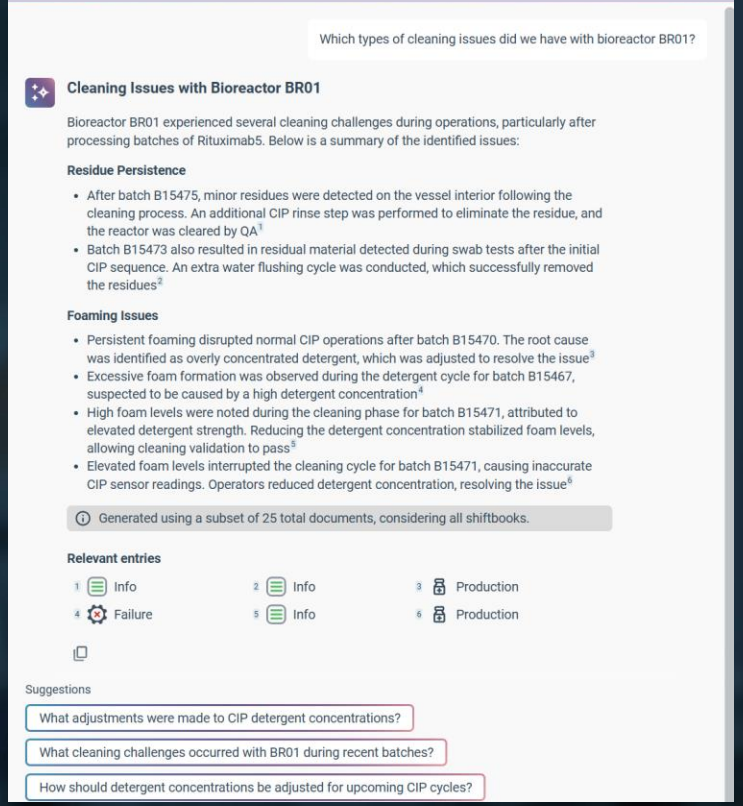
AI-enabled Scanning
"cleaning deviation"



AI-powered Troubleshooting
"cleaning deviation"

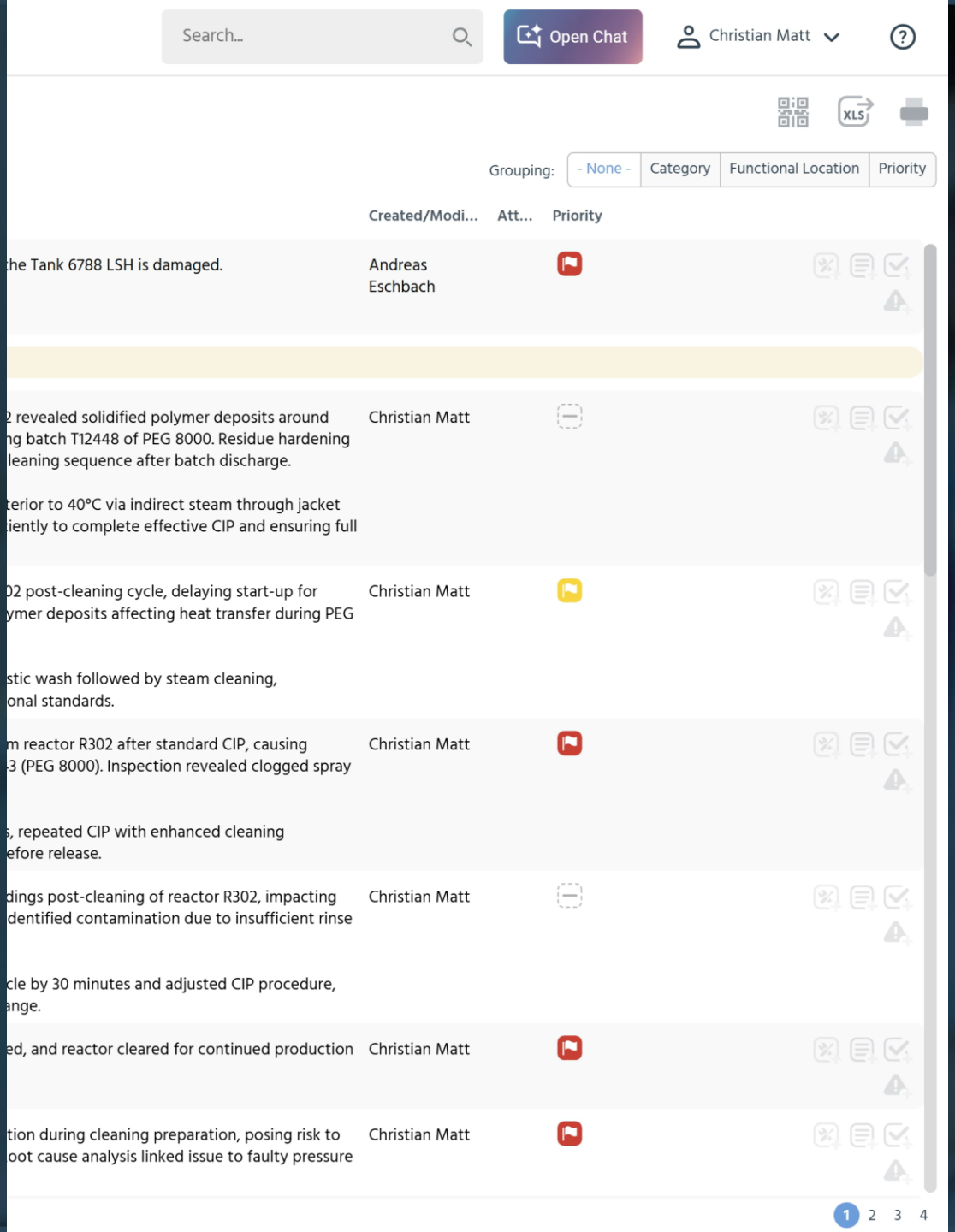


AI-driven Improvement
"cleaning deviation"

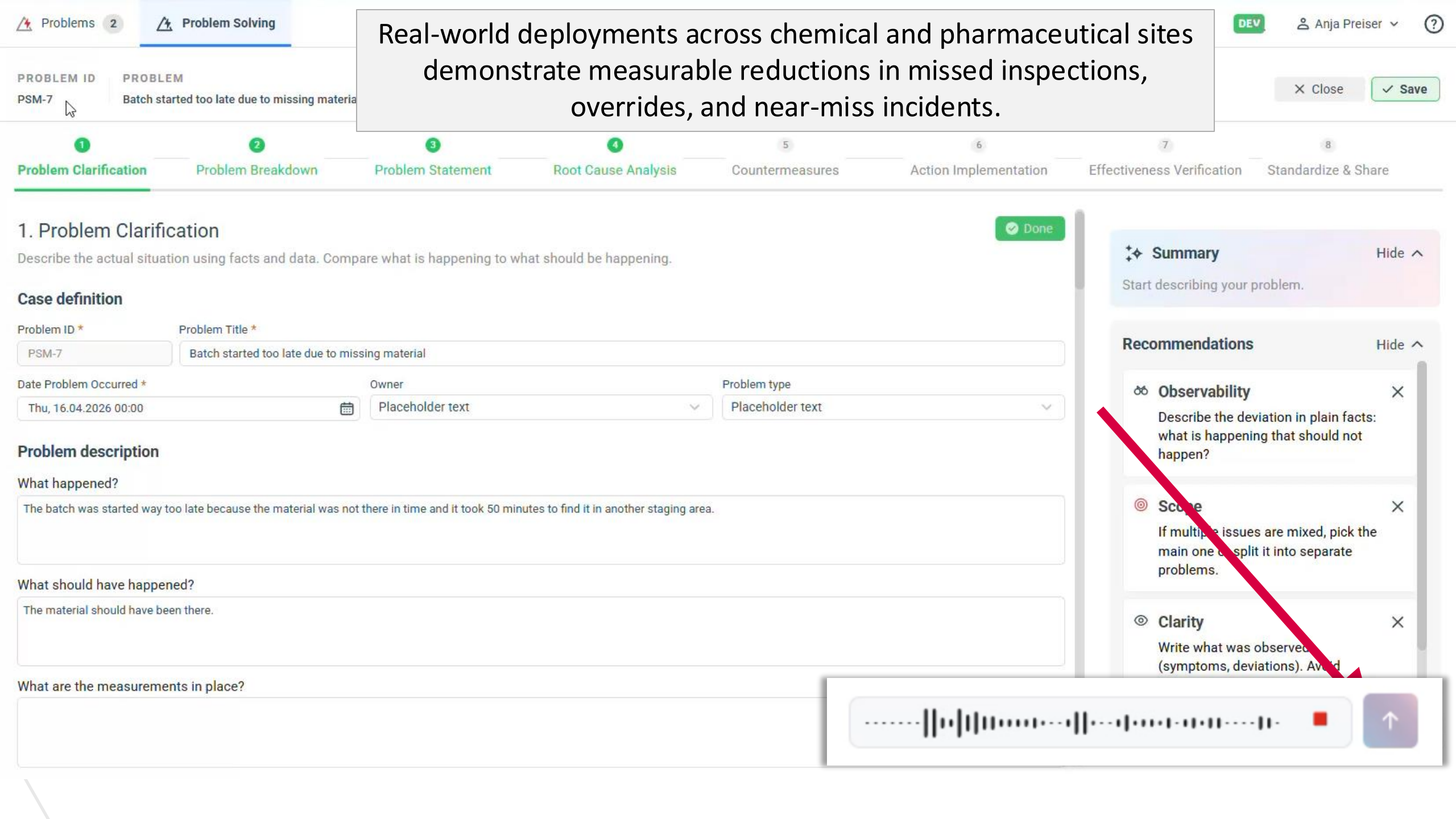


1. Find — 2. Cluster & Resolve — 3. Improve

SAMI continuously learns from operational data captured across shifts — surfacing patterns, flagging recurring issues, and feeding insights directly into continuous improvement cycles.



Real-world deployments across chemical and pharmaceutical sites demonstrate measurable reductions in missed inspections, overrides, and near-miss incidents.

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Safety. Compliance. Confidence.