



eschbach



SHIFTCONNECTOR®

Leverage AI for Smarter Operations and Faster Solutions in Chemical Manufacturing

Empower your people with SAMI: Your AI-Powered Manufacturing Assistant

SAMI® (Shiftconnector® Artificial Manufacturing Intelligence) integrates AI into your chemical manufacturing workflows, empowering plant operators to work smarter, address process issues swiftly, and retain essential operational knowledge. Embedded within Shiftconnector, SAMI enables you to interact with your data and obtain clear, actionable insights—whether you’re investigating the root cause of a production issue, analyzing anomalies across lines or sites, or extracting insights from historical shift notes.

- **SAMI Search** lets you ask questions in plain language and instantly find the most relevant, context-aware information—reducing search from hours to seconds.
- **SAMI Solutions** analyzes historical data to identify likely root causes and proven fixes, so you can solve problems faster and with confidence.
- **SAMI Chat** introduces a conversational interface that gives you a natural, conversational way to explore your data—ask follow-ups, drill down into specifics, and data-based suggested for continuous improvement in real time.

Here’s how SAMI empowers your people:

Chat with SAMI



“Why is this batch coming out darker than usual?”



Possible causes: reactor temperature spike, extended hold time, raw material contamination.



Similar issue logged on March 12—linked to overheating during the final reaction stage.



“Did it impact yield?”



Yes. Yield dropped by 6%, and product was downgraded to off-spec.



“What corrective action was taken?”



Setpoint adjusted to limit max temp to 82°C. Issue did not recur in subsequent batches.

Harnessing Institutional Knowledge for Greater Operational Efficiency

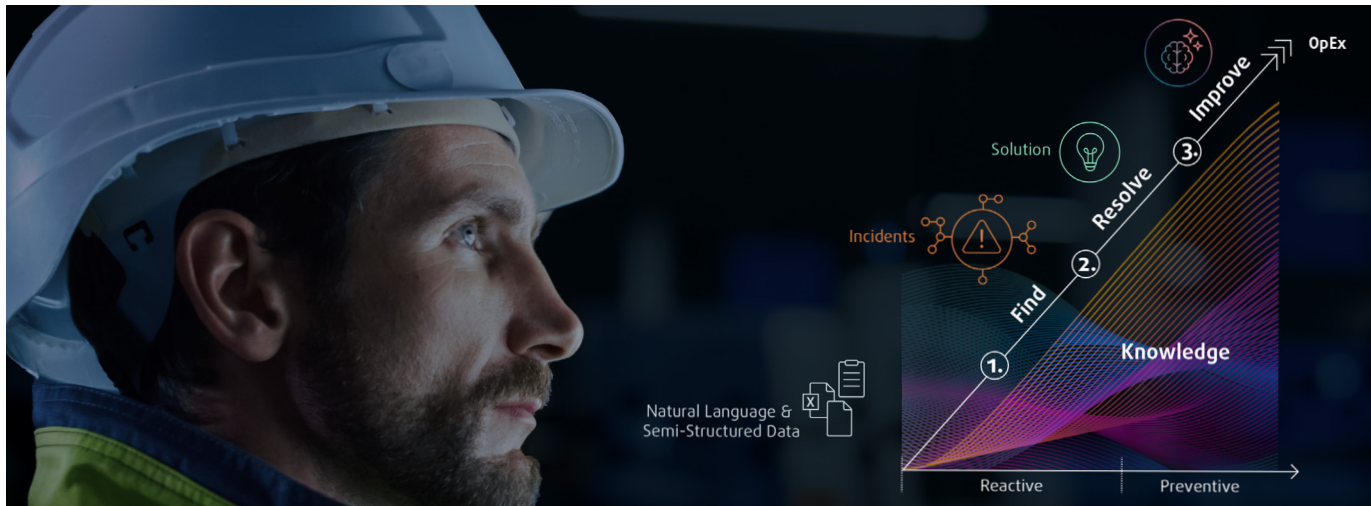
With AI-powered knowledge management, SAMI preserves valuable tacit knowledge from your organization to empower today's employees.

- **Preserve valuable historical knowledge** hiding in structured and unstructured data sources across multiple systems and sites.
- **Reduce downtime and anomalies** with tools that accelerate root cause analysis and problem resolution.
- **Accelerate operations** by enhancing employee productivity and reducing time spent troubleshooting or searching for critical information.
- **Minimize human error** and facilitate fast onboarding and training with AI-assisted guidance and access to tribal knowledge.
- **Empower employees** at every level of the organization to make faster, better decisions based on past experience.

See Shiftconnector Artificial Manufacturing Intelligence (SAMI) in action.

“ Knowledge transfer is a big issue in shift operations. Shift operation means 24/7 production, 24/7 data. Smart Search, which we integrated into Shiftconnector® as a new tool, helps us actually generate knowledge from this data, which we can then use to meet our environmental, energy and production goals.”

Matthias Heskamp, Head of Site Operational Excellence, Bayer CropScience Muttentz AG



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Microsoft
Partner

About eschbach

At eschbach, we work with leading companies to provide the only enterprise platform specifically developed for process manufacturers. For nearly 20 years, our eschbach team delivers innovative plant process management solutions that increase plant efficiency, provide continuous improvement and deliver 24/7 plant communications using a secured environment. Shiftconnector® is used by organizations in 25 countries, such as BASF, Albemarle, DuPont and Roche and is available in eight languages. eschbach has headquarters in Bad Säckingen, Germany and in Boston, MA.

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