



# Introducing ARIA™

## Automated Real-Time Improvement Accelerator

**Power AI with operations-wide contextualized data and seamlessly connect it to the process, via MES, to accelerate the cycle of continuous improvement to unprecedented levels.**

### Challenges in Manufacturing Today

Manufacturing excellence relies on predictively identifying issues, determining how best to address those issues, and quickly implementing corrective actions to accelerate efficiency, sustainability, and profitability.

Effectively identifying costly, yet often obscure, issues demands analytics fueled by a comprehensive, contextualized, and collaborative dataset. To facilitate a continuous improvement culture, corrective actions must rely on high-value, data-driven insights with the means to execute those actions and a feedback loop monitoring the results of those actions taken on the shop floor.

Unfortunately, a significant number of manufacturers fail to leverage valuable and insightful data trapped on the shop floor because they don't know how to retrieve it or, more commonly, how to effectively use it.

### Intelligent Actions and Continuous Improvement with ARIA

Aegis Software and Arch Systems' joint offering, ARIA™, Automated Real-time Improvement Accelerator, is an unprecedented AI solution expertly designed to guide and empower manufacturers with insightful actions and autonomously implement those actions through FactoryLogix® directly on the shop floor. ARIA initiates improvements and monitors the effectiveness of these actions, ensuring a comprehensive approach to continuous improvement.

This solution expedites the cycle of continuous improvement beyond what is possible with best-in-class processes and people alone. ARIA seamlessly combines Arch Systems' prebuilt "Intelligent Actions" with the contextualized data and ability to affect change on the shop floor via Aegis' FactoryLogix MES solution, paving the way for predictive, data-driven manufacturing.

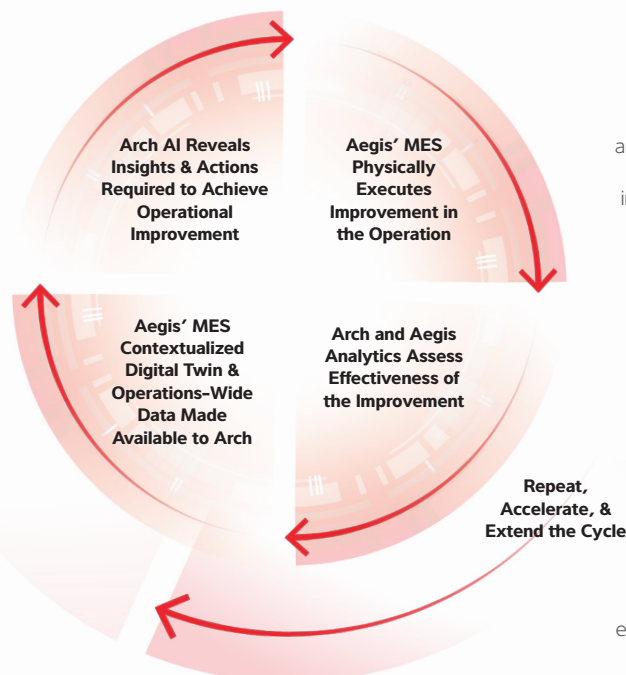
# ARIA™

#### BROADEST DATA AVAILABILITY:

Expand data available to the AI beyond the line to business data, human stations, the product design data itself, and all operational context. This yields instant availability of meaningful and intelligent insights from machine, human, product, and process data. Aegis' FactoryLogix MES makes data fully relational to the CAD Design, the Bill of Materials, ERP data, supply chain data, the process context, the flow, the time dimension, all the environment variables, the materials information, and even human interactions with the process.

#### BEYOND ANALYTICS TO INSIGHTS:

Enable real-time data-driven enterprise reporting, analysis, and proactive alerts for agile decision-making.



#### EXECUTION OF THE ACTION DERIVED FROM INSIGHTS:

With our continuous improvement AI Copilot, you can go beyond data and analytics alone to deliver real-time intelligent insights that drive continuous operational improvement and feedback loop—either via factory operators or directly via MES.

#### ASSESS EFFECTIVENESS OF THE ACTIONS TAKEN IN OPERATIONS:

Confirming actions achieved desired results, or prevented issue occurrence, is key to continuous improvement. ARIA continues analysis after the actions to determine effectiveness of changes.

#### REPEAT, ACCELERATE, AND EXTEND THE CYCLE

Provide greater visibility with actionable guidance that spans the entire enterprise—enabling operational improvements from the top floor to the shop floor.

## Use Cases:

### Improve product quality, operational efficiency, and customer satisfaction.

ARIA not only empowers your teams, it also seamlessly aligns global strategies with localized actions. It ensures that every decision made on the shop floor is not only data-driven but leverages the power of AI insights, catapulting your operations into a state of continuous improvement and predictive efficiency.

Below are just a few examples showcasing the power of our AI Copilot. The possibilities for process optimization and innovation are limitless!

# ARIA™



### Predictive Quality

Automated data analysis and insights can reveal that a specific manufacturing process, product revision, or even a product design is showing a high Defects Per Million Opportunities (DPMO). AI-powered analytics identify the root cause and recommend actions that are to be implemented on the factory floor. Continuous monitoring and comparison against benchmarks assess and confirm the effectiveness of the recommended actions.



### Predictive Utilization

Manufacturers gain actionable foresight into potential production shortfalls, empowering them to take preemptive measures to mitigate delays and minimize disruptions. Continuous Improvement is facilitated by analyzing production targets, routes, schedules, work order details, machine data, and more. ARIA intelligently identifies areas for enhancement and seamlessly implements targeted interventions on the shop floor, fostering ongoing improvement in process & station expected run rates. Ultimately, these insights and recommendations lead to cost savings as proactive measures and minimized downtimes translate into reduced operational expenses including idle time, production delays, and resource inefficiencies.

## About Aegis

Founded in 1997, Aegis Software uniquely delivers a comprehensive and flexible end-to-end manufacturing operations management platform giving manufacturers the speed, control, and visibility they require. Aegis has international sales and support offices in Germany, UK, and China and partners with more than 37 manufacturing equipment suppliers. Since its inception, Aegis has been helping more than 2,200 factories across the military, aerospace, electronics, medical, and automotive industries drive rapid and continuous innovation with the highest quality while reducing operational costs. Learn more by visiting [www.aiscorp.com](http://www.aiscorp.com). Speed, Control and Visibility for Manufacturing.

## About Arch

Arch Systems transforms factory intelligence with AI-driven solutions that help manufacturers optimize operations, reduce downtime, and maximize efficiency. Purpose-built for factories by manufacturing and data experts, Arch AI acts as an expert copilot—reading dashboards, synthesizing data, and delivering real-time, prescriptive guidance to operators, engineers, and executives without costly infrastructure overhauls. By leveraging AI to unlock insights from existing factory systems, Arch enables manufacturers to scale expertise, improve critical KPIs, and drive measurable impact on the shop floor.

Contact us to learn more about ARIA today!

