# MAJiK
## SYSTEMS ™

# Visual Manufacturing

Connect directly to manufacturing equipment
to **monitor, analyze,** and **optimize** operations

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# MAJiK Visual Manufacturing

**Connect, monitor, analyze and optimize manufacturing operations.**



- **IIoT Connect** – capture real-time data directly from factory equipment to monitor, analyze, and optimize manufacturing operations.

- **Enterprise Connect** – connect real-time production data with enterprise systems for condition-based schedule, maintenance, and process optimization.

- **Visual Workcell** – achieve production targets by empowering equipment operators to improve uptime, production and scrap rates.

- **Visual Factory** – continuously improve efficiency by helping plant management identify and solve downtime, performance, and quality problems.

- **Visual Enterprise** – optimize manufacturing operations by enabling executives to analyze performance across factories to determine and drive best practices.

# Why MAJiK Systems?

- ❏ **Real-Time Machine Data**
  - Connect directly to capital equipment – legacy and new equipment from different manufacturers
  - NO additional hardware, NO PLC reprogramming, and NO downtime during installation
  - MAJiK can handle the massive amounts of real-time IIoT data needed for advanced analytics and ML / AI

- ❏ **Drive Continuous Improvement**
  - Give operators the information and tools to improve Uptime, Performance, and Quality
  - Easily integrate with ERPs, CMMS, and SPC systems for closed loop production-to-plan reporting
  - Use AI and real-time production data to detect and solve problems
  - Identify and apply best practices across multiple sites to optimize production efficiency

- ❏ **Configurable, Scalable, Enterprise Solution**
  - Cloud enabled multi-site platform delivering production analytics by machine, production line, and factory
  - Rapidly deployed out of the box and easily configurable to specific environments
  - View information and KPIs in the units and terms that make sense for your business

- ❏ **MAJiK typically delivers 50% ROI in first year**

Connect · Monitor · Analyze · Optimize

**MAJiK** SYSTEMS

# Artificial Intelligence for Continuous Improvement
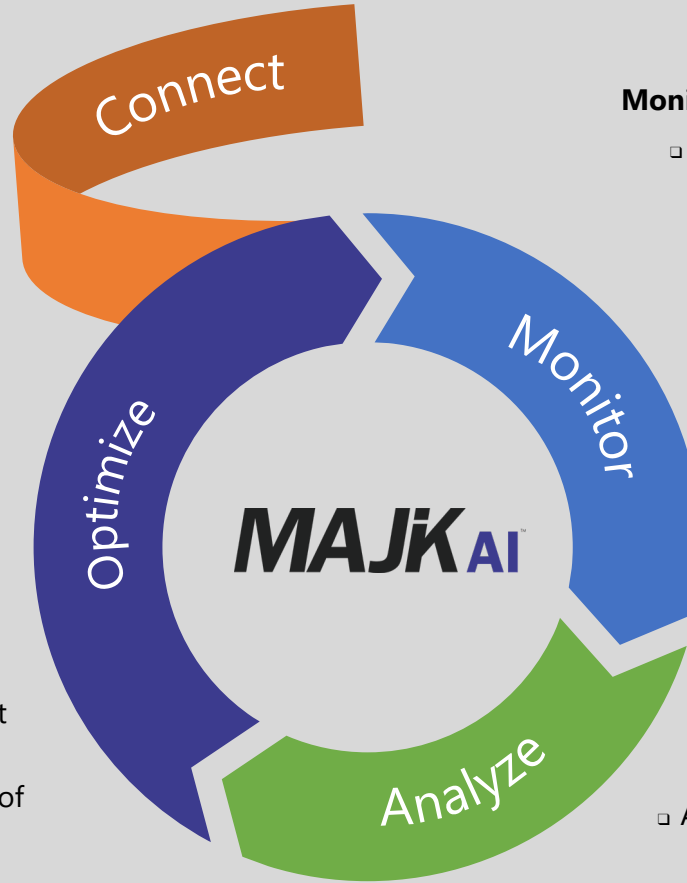
**Connect Your Factory Network**

❑ Optimize network health by dynamically managing equipment and data

**Communicate Standard Operating Procedures Across the Enterprise**

❑ Use Generative AI to produce site-specific weekly briefings on best practices

**Identify and Refine Best Practices**

❑ Collect operator feedback on what works and what does not

❑ Automate continuous refinement of Standard Operating Procedures

**Monitor Production and Detect Anomalies**

❑ Monitor machine telemetry for availability, performance, and quality metrics

❑ Use AI/Machine Learning to predict downtime and prevent catastrophic failure

❑ Smart escalations for quality & maintenance

**Generate Role-Specific Action Items**

❑ Provide work instructions for standard processes

❑ Prioritize to do lists for Continuous Improvement

**Troubleshoot Problems**

❑ Provide step by step troubleshooting guide

❑ Suggest reasons for unclassified downtime

❑ Analyze and suggest problem root cause

Connect

Monitor

Optimize

Analyze

**MAJiK** AI

MAJiK SYSTEMS

# MAJiK SYSTEMS™

# Visual Manufacturing

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MAJiK **Visual Workcell** helps you achieve production targets

Empower equipment operators to improve uptime, performance, and quality.



- Automatically measure & report Key Performance Indicators

- Visually display production information on your plant floor

- Identify issues such as ongoing Faults, increasing Scrap, or slowing Production Rates and take corrective actions

- Develop a culture of accountability with your plant-floor personnel

- Improve Overall Equipment Effectiveness (OEE)

- Achieve Shift Targets

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# MAJiK **Visual Factory** continuously improves efficiency

Enable plant management to solve downtime, performance, and quality problems.



- Monitor production across the factory in real time

- Create consensus within your Operations Team on Top Issues to solve

- Analyze root cause of Downtime, Quality Issues, and Production Slow Downs

- Drill down on historical data until sources of waste are identified and permanently fixed

- Enable Decision-Makers to manage Factory Operations in real-time

- Drive Continuous Improvement

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# MAJiK **Visual Enterprise** optimizes manufacturing operations

Enabling executives to analyze performance across factories to determine and drive best practices.



- Analyze and compare performance across manufacturing sites

- Understand performance trends across sites

- Drill down into specific issues for any site

- Identify best practices from highest performing plants and apply them across the enterprise

- Identify and track the unique issues affecting lowest performing plants to share lessons learned across all sites

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