

ANDON MONITORING

The Smart Factory

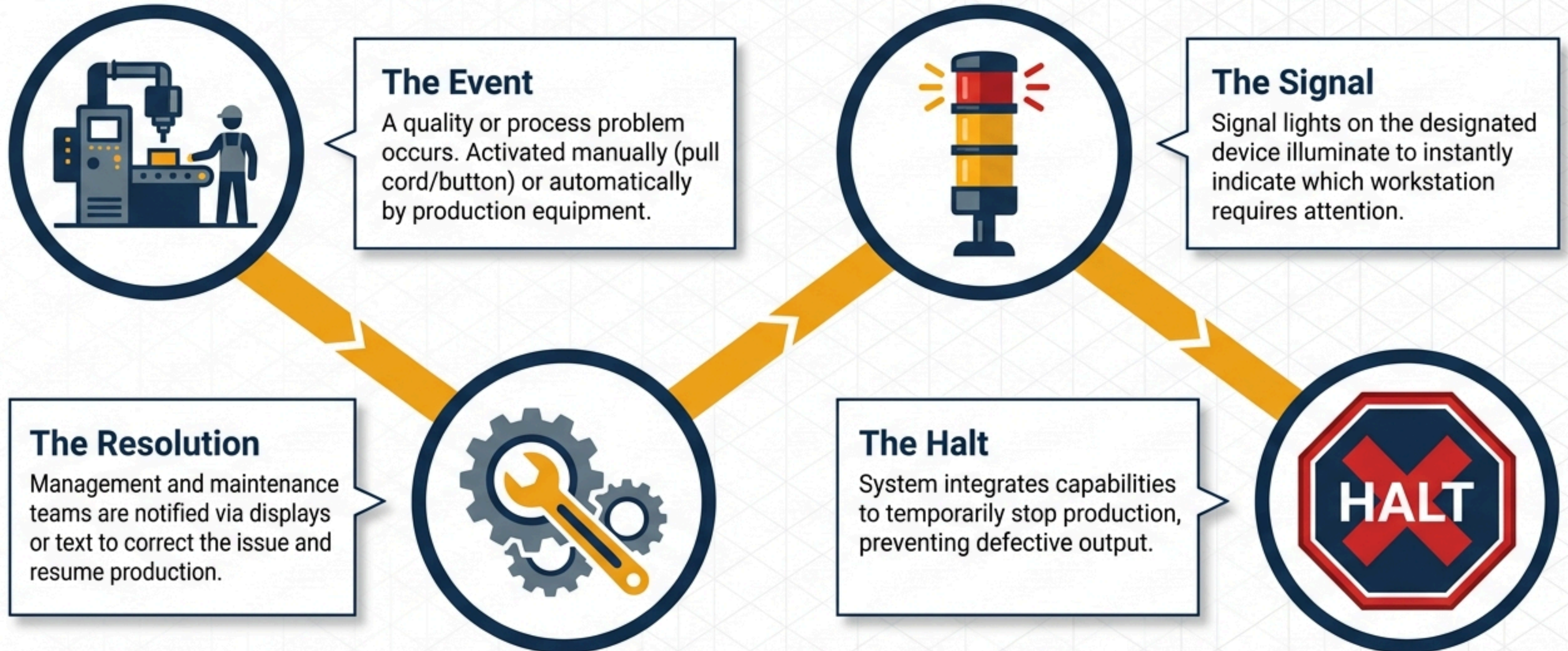
**Modernising the Manufacturing
with Wireless ANDON system**

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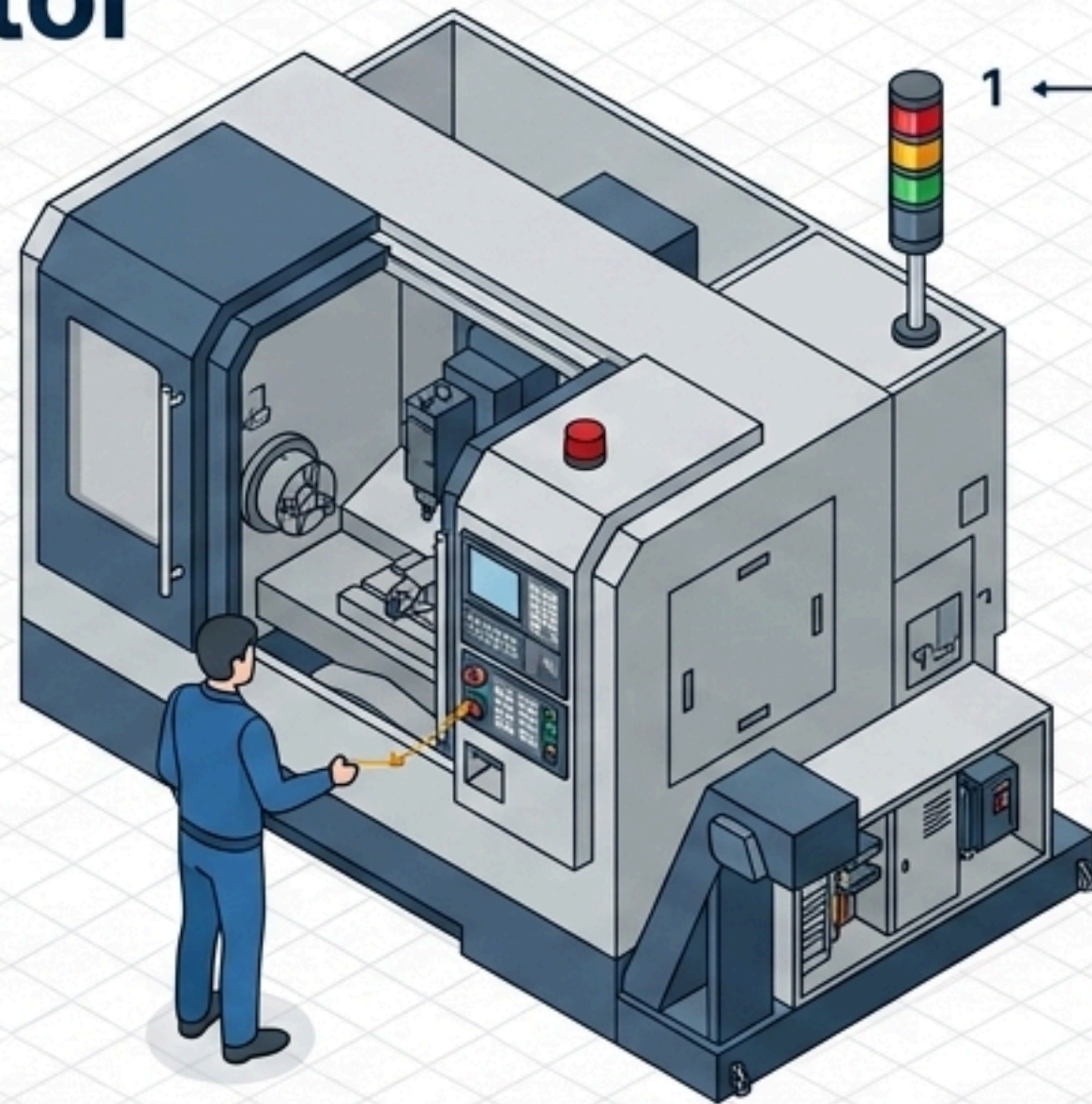
The Anatomy of Immediate Response



Upgrading the Infrastructure: Wired Constraints vs. Wireless Agility

	Legacy Wired ANDON	NGIS Meshwave Andon?
Dimension: Installation & Power	Rigid cable runs, requires dedicated power lines and physical routing.	✓ Wireless technology; Ultimate flexibility for future maintenance.
Dimension: Floor Layout Rerouting	Equipment moves require complete system rewiring and prolonged downtime.	✓ Adapts instantly; network routing automatically adjusts to new environmental conditions.
Dimension: Trigger Mechanism	Manual pull cords and basic buttons.	✓ Manual push buttons + direct integrations into machine control systems.
Dimension: Data & Analytics	Manual logging, isolated visual alerts.	✓ Custom dashboard software, light status tracking, automated daily production reports.

The Hardware Layer: Frictionless Operator Interfaces



USB powered Wireless Pushbutton

Manual push buttons utilizing batteryless technology, eliminating routine battery replacement and maintenance overhead.

Signal Tower Light

Any standard tower light can be integrated.

Direct Machine Integration

Seamless connection directly into existing machine control systems for automated event triggering.

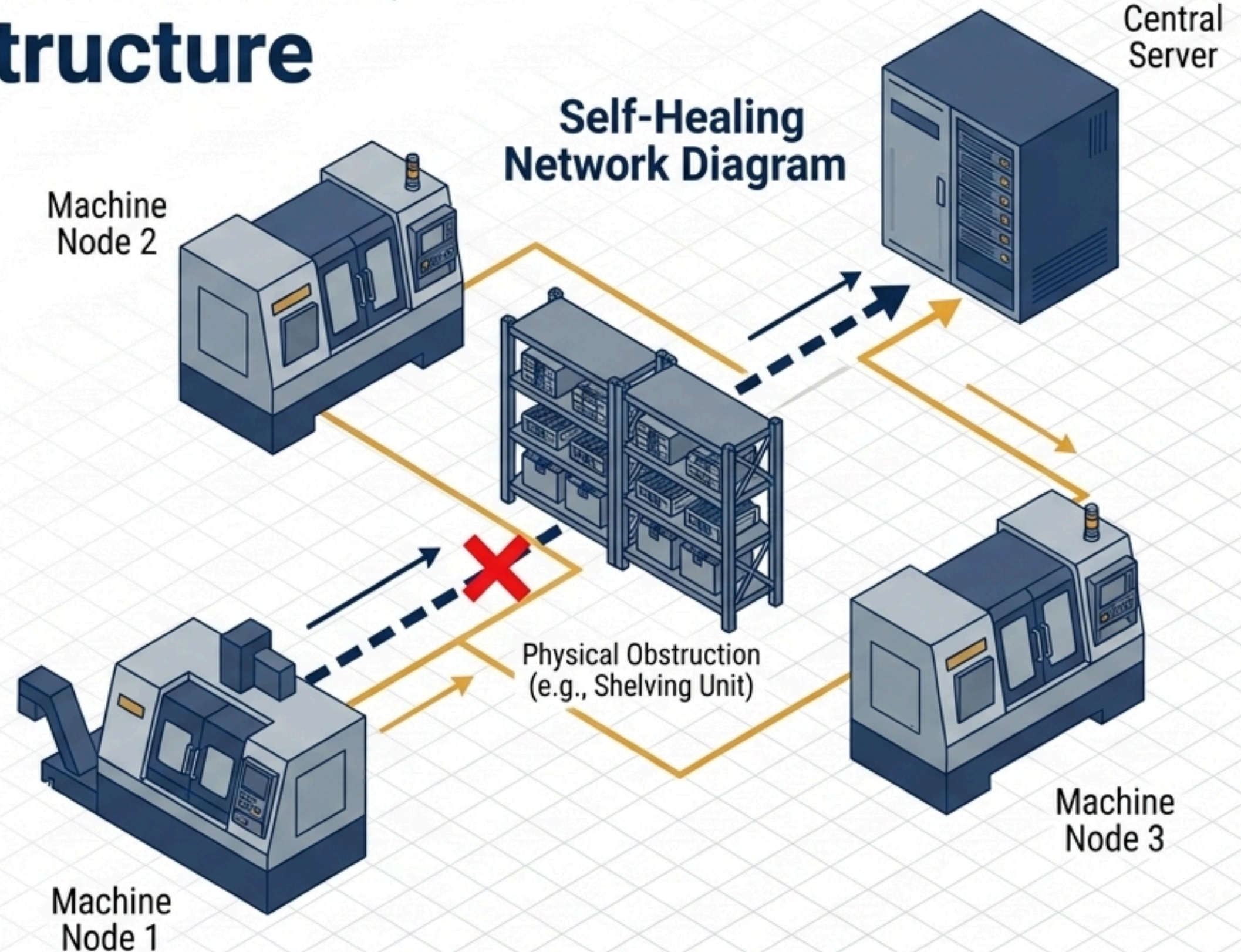
The Network Layer: Resilient, Self-Healing Infrastructure

Meshwave Networking

Ensures accurate and reliable communication without complicated wireless or network settings.

Multi-Hop Adaptability

Automatically selects the optimum communication route. If floor layouts are altered or obstacles appear, data communication resumes normally via an alternative path.



The Software Layer: Turning Signals into Operational Intelligence

Shopfloor Dashboards

Customized software tracks real-time light status, providing easy notification to relevant parties across the shopfloor via production dashboards.

Remote Monitoring

Sciengate's remote monitoring capabilities empower management to oversee process stability from anywhere.

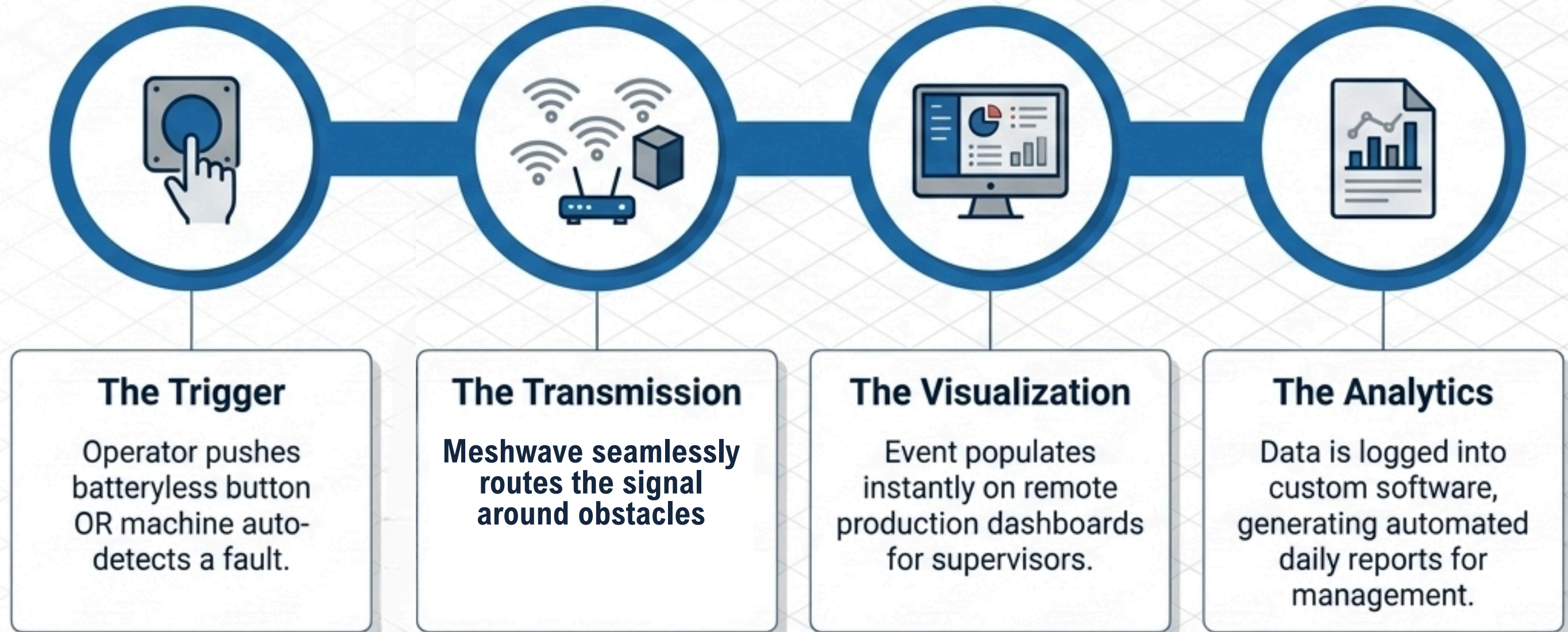


Automated Daily Reporting

Historical data is automatically compiled. Daily production reports are generated and pushed directly to key personnel to analyze bottlenecks.

The Unified Architecture: From Floor Trigger to Executive Report

The Complete Smart 4.0 Ecosystem



The Business Value: Reduce Operator Response Time, Reduce Time Loss, Improve Efficiency

The Operator (Focus: Empowerment)

Strengthen Flexibility

Improves accountability of operators by increasing their responsibility for good production and empowering them to take action when problems occur.

The Supervisor (Focus: Speed & Efficiency)

Reduce Downtime

Improves the ability to quickly identify and resolve manufacturing issues before they compound.

Increase Productivity

Brings immediate attention to problems exactly as they occur in the manufacturing process.

Plant Management (Focus: Bottom Line)

Improve Transparency

Encourages immediate reaction to quality, down time, and safety problems across the facility.

Save Costs and Time

Provides a simple, consistent mechanism for communicating critical information on the plant floor.

Beyond Alerts: Integrating the Complete SMART 4.0 Ecosystem



ANDON is just the beginning. Sciengate provides the complete metrology, control, and execution ecosystem for SMART 4.0.

Ready to Modernize Your Floor? Contact Sciengate Automation

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