Rain Engineering
Do Better

AI-Powered Shop Floor Assessment

How AI is Transforming Connectivity Audits and MES Implementation

Rain Engineering • February 2026

The Traditional Assessment Challenge

- Manual audits take 3-5 days per plant with inconsistent data capture
- Engineers rely on clipboards and memory, leading to missing critical details
- Connection plans built from incomplete information delay projects by weeks
- Manufacturers struggle to prioritize connectivity investments without clear ROI data

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How AI Changes the Game

- Smart Data Capture
- AI-guided mobile app with dynamic questions adapts based on equipment connectivity status
- Instant Scoring
- Auto-calculates connectivity readiness (0-5 scale) per machine using standardized criteria

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What Manufacturers Gain

- 60% faster time-to-value for MES deployment with clear connectivity roadmaps
- Data-driven investment decisions tied directly to quality, compliance, and OEE impact
- Consistent audit quality across multiple sites for enterprise rollouts
- Ongoing digital health monitoring creates predictable recurring value

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Rain Engineering AI-Enhanced Services

- Phase 1: Smart Audits
- AI-guided on-site assessments deliver structured connectivity data in hours, not days

- Phase 2: Auto Planning
- AI generates connection plans from audit data with options matched to your budget and timeline

- Phase 3: Continuous Value
- Quarterly digital health checks and AI-driven optimization recommendations keep systems performing

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As a tool for you, or accelerating the work we do with you.







Operational AI

TRANSFORM TO ACTION FOR RELIABILITY AND ENERGY SAVINGS

What is Operational AI?

Already Transformed!



Data Ready!





Transforms Your Actions!









TRANSFORMED… Detection, Causes, Costs, Actions

HVAC Ventilation and Cooling/Heat Control

15% to 20% Cost Reduction*

Advanced Fault Detection and Diagnostics (MBCx)

AHUs, RTUs, MAU, Heat Recovery

In Control Terminal Devices with Advanced ML Analytics

Chilled Water System and Boiler Plants

10% to 20% Cost Reduction*

>25% of Utility Consumption

Chillers, Boilers, Towers, Loops

Patented Machine Learning Optimization Analytics

Critical Care/Product Environments

10% to 20% Cost Reduction*

Safety and Compliance

OR, ICU, Labs, Clean Rooms and Pharmacy

Advanced Air Optimization

Energy, Utilities, and GHG Monitoring

6% to 8% Cost Reduction*

Energy Consumption/Demand

Carbon and Gas Analysis

Equipment Energy Waste

Billing and Cost Analysis

Advanced Forecasting

IoT/AI Advanced Visualization and Analytic Platform – FCX VOICE

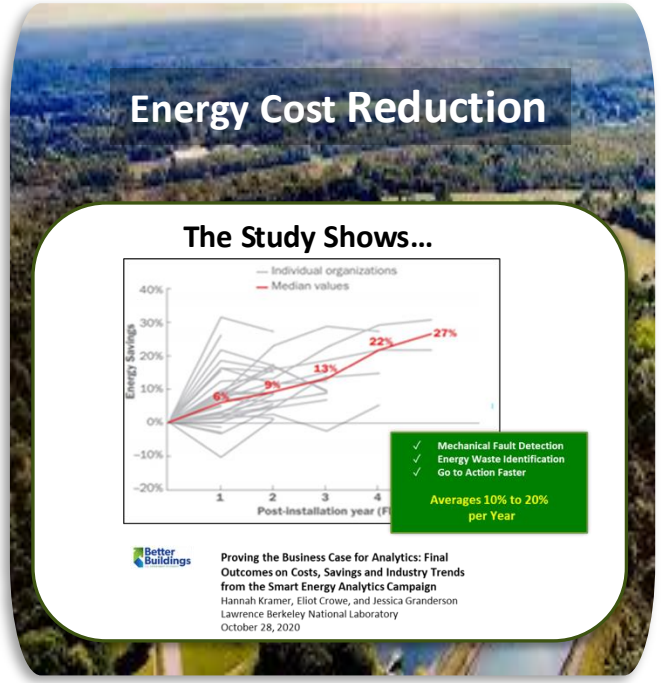
*Average Realized Savings with FCX Analytics (Custom Analytics Available)

FacilityConneX
The Voice of Your Equipment



Operational AI - Use Cases That Transforms Your Actions

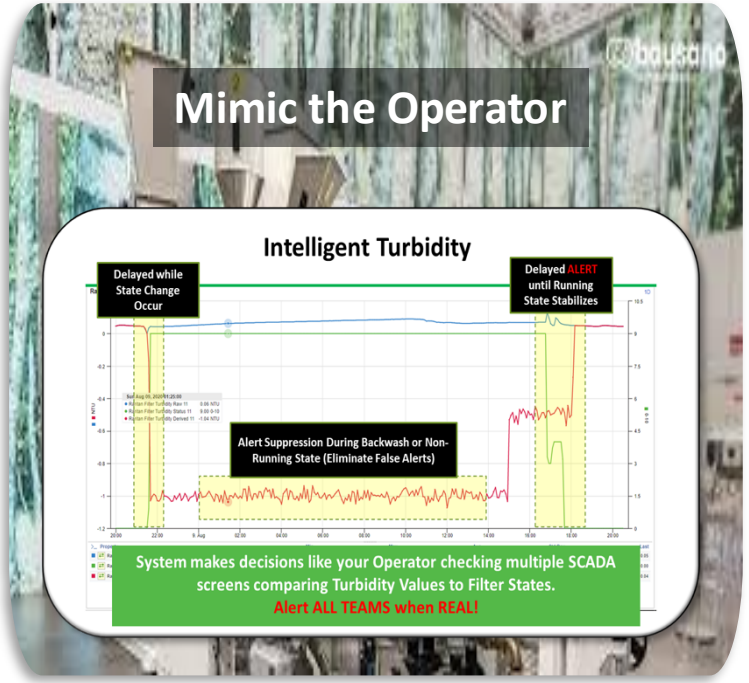
Manufacturing Facilities



Electrical Rates Up 30% in 2025
Gas Rates Up (on a whim).
Water Bill (?)

AI Can Help You Get Control and Reduce Costs

Water/Wastewater



Increase Efficiency,
Eliminate Alarm Noise,
Never Violate Regulatory

AI Can Do The Checks Before You Need Them.

F&B/Life Sciences



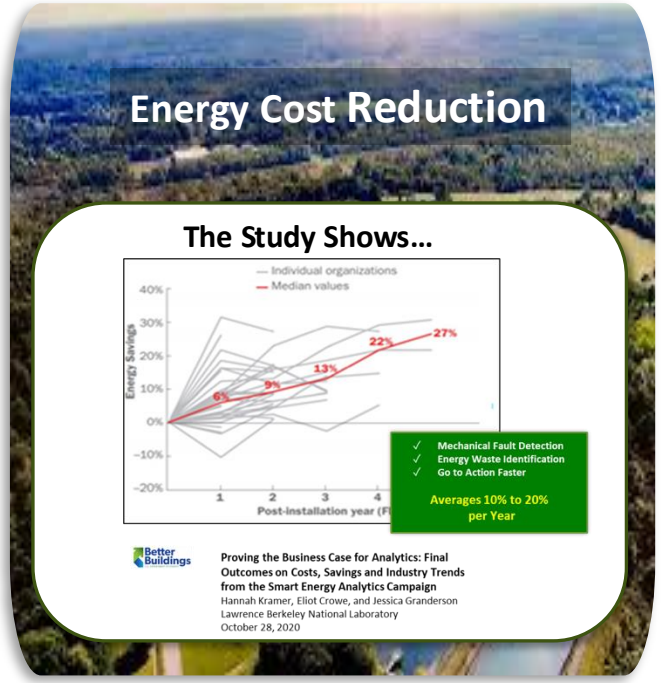
Notification Before Exposure to Out of Specification Conditions

AI Can Predict A Failure Coming - Proven

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Your Chilled Water Plant…

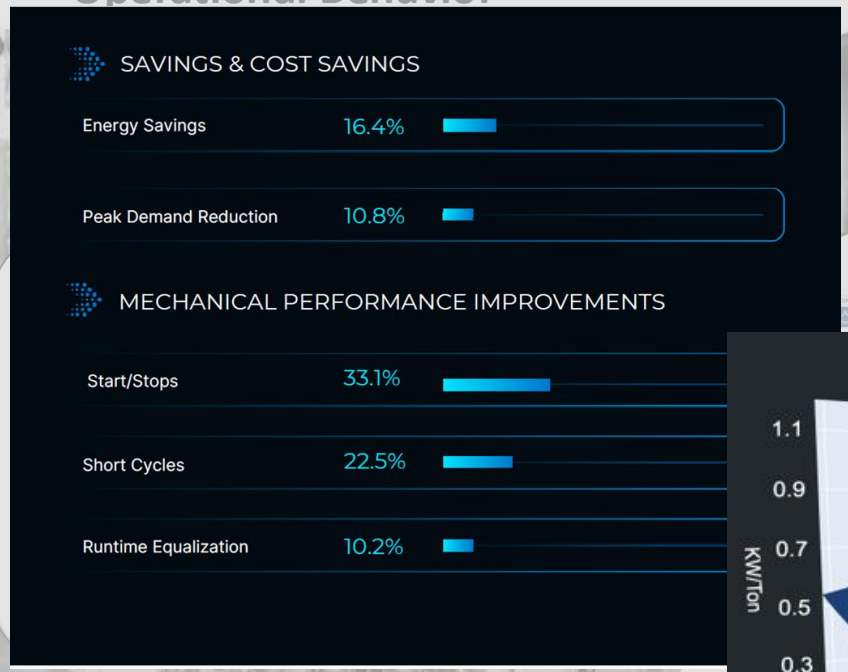
Facility Environment and Costs



Electrical Rates Up 30% in 2025
Gas Rates Up (on a whim).
Water Bill (?)

AI Can Help You Get Control and Reduce Costs

Operational Behavior



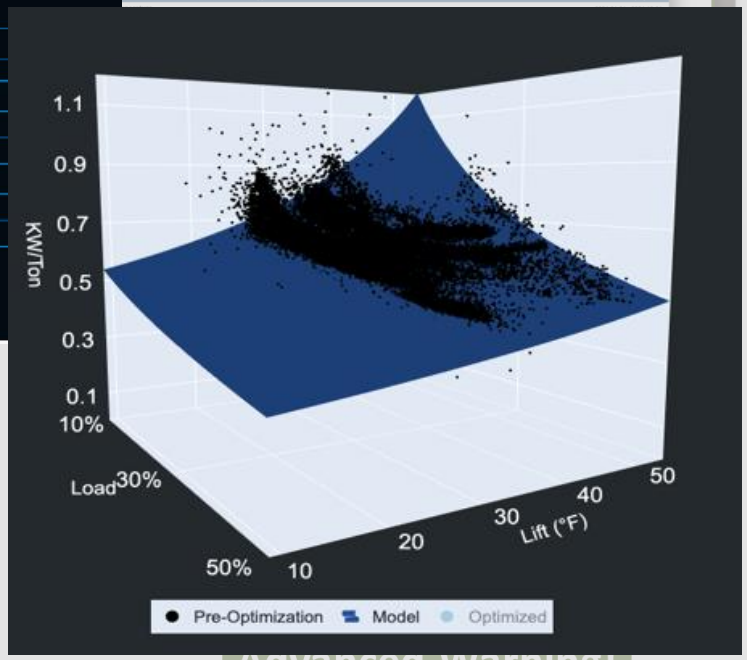
Electrical Reduction 20% to 27%
Chilled Water System Reduction 16%
Gas Reduction 10% to 15%

AVERAGE ROI: 4 to 6 Months!!!!

Equipment Reliability

Predictive Failure

Predictive Freezer Failure

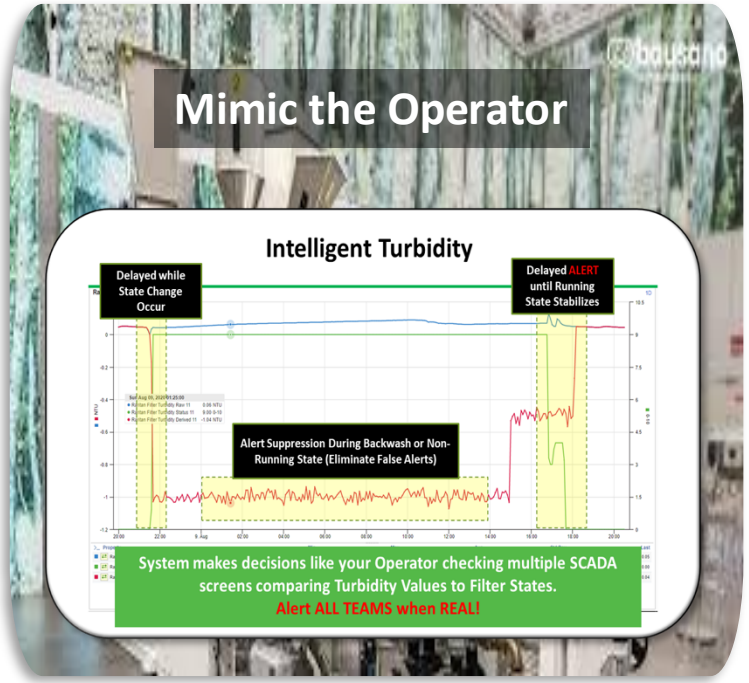


Advanced Warning!

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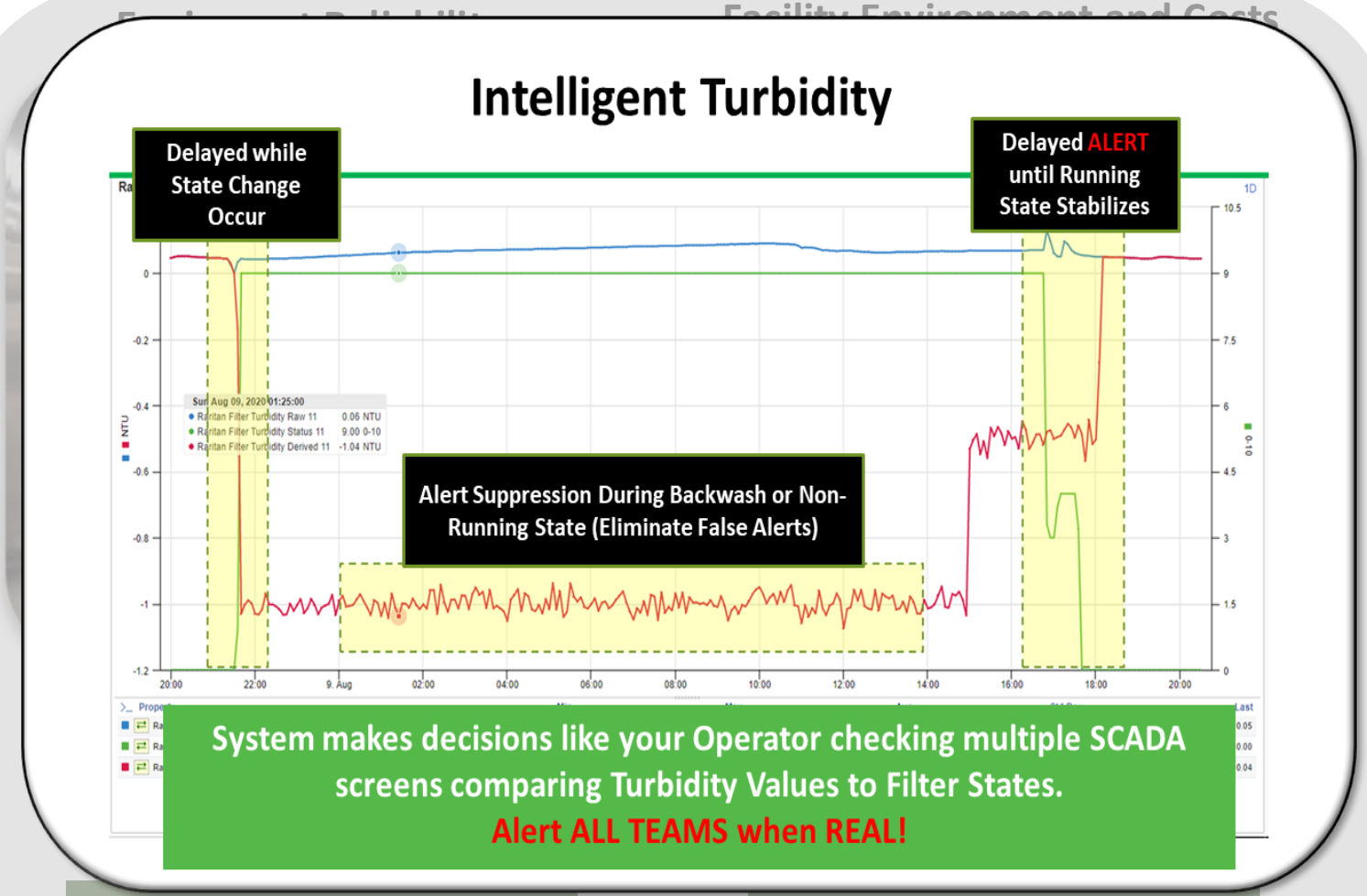
Helping the Operator…

Operational Behavior



Increase Efficiency,
Eliminate Alarm Noise,
Never Violate Regulatory

AI Can Do The Checks Before You Need Them.



Operational-Defined AI Logic – Action of the Operator

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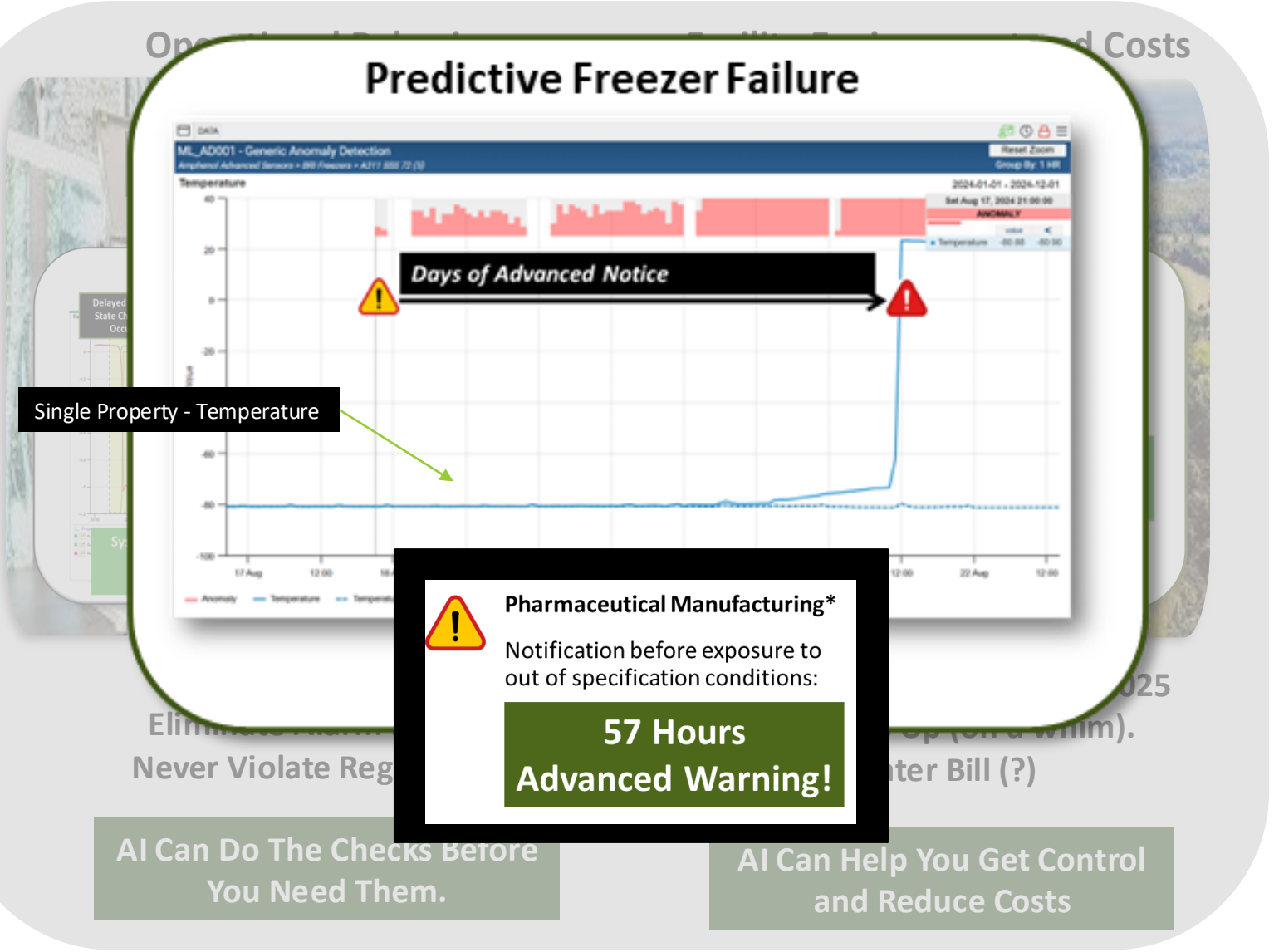
Use AI to Get Ahead of the Problem…

Equipment Reliability



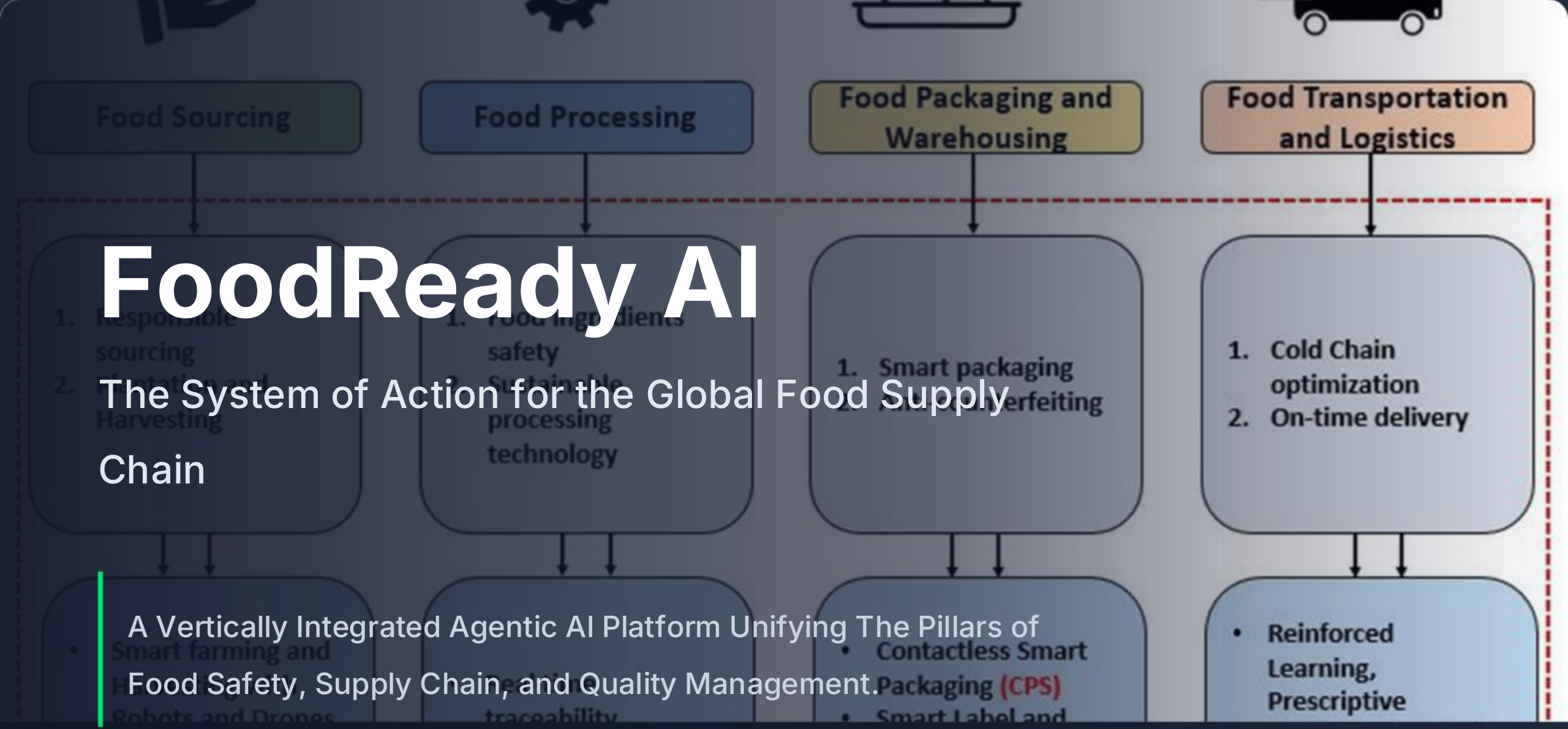
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FacilityConneX
The Voice of Your Equipment

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FoodReady AI

The System of Action for the Global Food Supply Chain

A Vertically Integrated Agentic AI Platform Unifying The Pillars of Food Safety, Supply Chain, and Quality Management.

November 2025 | FoodReady Team



From Reactive to Predictive

FoodReady **Agentic AI Digital Workers** transforms manual chaos into automated clarity. We don't just record data; our Agentic AI acts on strategically collected data by autonomously monitoring and completing critical food operations and food safety tasks 24/7, transforming "audit panic" into passive compliance.

The High-Stakes Problem

$10 Million

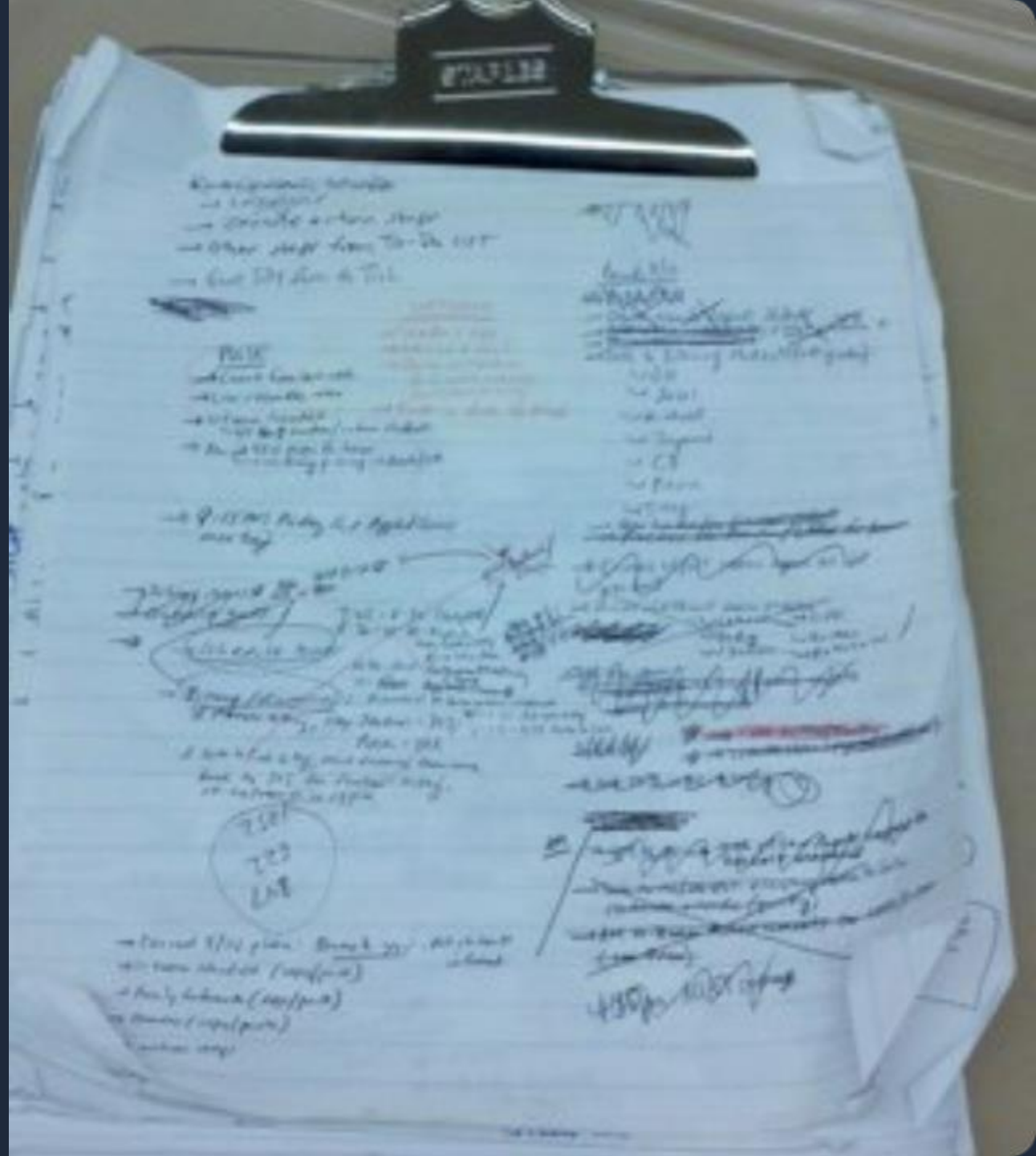
Average cost of a single recall.

Regulatory Cliff

New FSMA 204 mandates require digital traceability. Pen & paper is now illegal.

Operational Drag

90% of mid-market runs on fragmented tools, causing slow reaction times.



Product Contamination & Recall Insurance Cost & Coverage Expectations

Small Market

< $25M REVENUE

- **Premium:** $15k – $50k+
- **Policy Limit:** $1M – $5M
- Focus on **Direct Recall Expenses** (shipping, disposal, notification).
- Includes basic Crisis Consulting.

Mid-Market

$25M – $250M REVENUE

- **Premium:** $50k – $250k+
- **Policy Limit:** $5M – $25M
- Comprehensive coverage including **Business Interruption** (Lost Profit).
- Covers Brand Rehabilitation & 3rd Party Loss.

Large Market

> $250M REVENUE

- **Premium:** $250k – $1M+
- **Policy Limit:** $25M – $100M+
- **High Limits** layered across multiple carriers (Excess/Umbrella).
- Focus on Global Supply Chain Risk.

DIGITAL WORKER EXAMPLE SAVINGS

Digital Worker Example Savings

Category	Manual Process	With AI Agent	Annual Savings
Document Review	30 hours/month human review	0 hours (Instant/Autonomous)	$18,000
Audit Preparation	2 weeks of "crunch time"	1 day (Reviewing Agent reports)	$4,000
Risk Mitigation	High (Human error in logs)	Near Zero (100% data audit)	Value: Infinite
Total Value Created			$22,000+
Annual Agent Cost			-$6,000
Net Gain (Year 1)			$16,000

The Perfect Storm for Adoption



Regulatory Force

FDA FSMA 204 mandate forces digitization of traceability by 2026. The law is driving the market.



Labor Shortage

Plants cannot find QA staff with required competence and experience. They **need** AI automation to fill the critical skills gap.



Agentic AI Maturity

LLMs can finally ingest, analyze, and act on messy, unstructured food production and compliance data with high accuracy.

EXAMPLE SUPPLY CHAIN & QUALITY CORE COVERAGE

Domain	Enterprise AI Capability	Advantage
Purchase Orders	Full automation (API, MRP, Emergency PO)	Auto-reordering & selection
Bill of Materials	Multi-level explosion & allergen rollup	Circular dependency check
Planning	MRP requirements & Allergen sequencing	Changeover optimization
Sales Orders	Order capture & ATP validation	Prediction & holds
Traceability	FSMA 204 (95% out-of-the-box)	24-hour FDA response

SAFETY & COMPLIANCE EXCELLENCE

- **FSMA 204 Ready:** 3 CTE workflows, 9 KDE validation, and TLC generation.
- **Automated Supplier Management:** Deep dashboard support and automated document reviews
- **HACCP Monitoring:** Real-time CCP monitoring with deviation alerts.
- **Recall Management:** <4hr target for Class I-III effectiveness tracking.

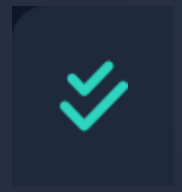


FoodReady AI Operating System All-In-One Vertical Pillars - Available in Modules or in Total



Food Safety

Automated Supplier Management, HACCP, SQF, GFSI compliance. Always-on audit readiness replaces "audit panic".



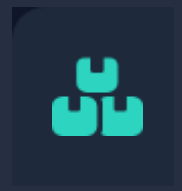
Quality (QMS)

Automated AI checks from receiving to shipping eliminates human error & AI monitoring improves yields via early warning and correction implementation.



Smart Manufacturing (MES)

Real-time AI-powered OEE and Yield efficiency tracking. Connects production data directly to quality outcomes.



Supply Chain (MRP)

End-to-end inventory & traceability. Instant recall management and inventory control.

Trusted by Global Brands

Client Portfolio

From local artisans to global supply chains, FoodReady is the backbone of operations for:

Case Study: Eurobake

Reduced compliance labor by 60% and passed Costco audit in record 5 months.

