



MASTERING MANUFACTURING

DATA: KINSMEN AI

TURN YOUR DATA INTO YOUR GREATEST ADVANTAGE WITH AI-POWERED DATA QUALITY

LOST IN DATA CHAOS



An operations manager in a process manufacturing facility is lost in disorganized data. As an asset-heavy manufacturer, the company's information is locked in different systems, including old legacy technologies, and some of the most critical information has not been digitized. The team is frustrated because they struggle to find the information they need when they need it—and sharing it with others is equally challenging.

The operations manager is also under pressure to lead the company into the future with sophisticated tools like visualization, digital twins, and analytics. But before they can do that, they'll need to clean and contextualize a mountain of old data. Otherwise, those tools won't deliver the necessary results. They're also struggling to integrate assets from a recent acquisition as its data isn't aligned with their systems. Any data migration is slow, cumbersome, and riddled with errors.

Data inaccuracies are also hindering compliance audits. Operational costs are rising, while the company's digital readiness is falling further behind its competitors. Furthermore, as the workforce ages, valuable institutional knowledge is lost, creating significant gaps in expertise and safe operations.

This is a scenario that plays out in manufacturing facilities worldwide — and this is just one perspective from an operations manager. The challenges extend across the entire organization, impacting everyone from executives to frontline workers.

84% of manufacturers say the pace of digital transformation will accelerate over the next decade¹.

¹ West Monroe, 2024 Manufacturing Outlook, <https://go.westmonroe.com/108592/2023-12-12/5kzcd8>

Digital factory transformation has seen productivity increase by up to 400%, combined with Overall Equipment Effectiveness (OEE) improvement up to 85%².

² World Economic Forum, Global Lighthouse Network 2023, https://www3.weforum.org/docs/WEF_Global_Lighthouse_Network_2023.pdf

However, while 76% of companies say data-driven decisions are a top goal, 67% don't trust their data³.

³ LeBow/Precisely, Data Integrity Trends 2024, <https://www.precisely.com/resource-center/analystreports/labow-report-2024>

Barriers to Effective Digital Transformation

- ✓ Incompatible legacy systems and data siloes from different sources
- ✓ Inaccurate data leads to high amount of field verifications
Reliance on manual data exchange, leading to human error
- ✓ Outdated data leads to inaccurate insights
- ✓ High volume of information makes it difficult to clean and contextualize data
- ✓ Disorganized data puts up barriers to complying with regulations



BRINGS YOUR DATA TO LIFE



Data is the lifeblood of any organization and should fuel manufacturing success, but inaccurate and disorganized data paralyzes process manufacturers, trapping them in the past.

Enter Kinsmen AI — the breakthrough data viability technology built for process manufacturers. Kinsmen AI takes care of all data cleansing, extraction, contextualization, validation, and enrichment — so your information is accurate, actionable, and available whenever needed.

Your data is transformed into your biggest advantage, helping you move faster, make smarter decisions, and drive a future of operational excellence and industry leadership.

Kinsmen AI is purpose-built for process manufacturers who:

- ✓ Want to modernize their systems and build the facility of the future
- ✓ Struggle with incomplete or disparate data trapped in legacy systems, scans, and paper copies
- ✓ Must meet regulatory standards and would like to align with ISO 15926, ISO 19650, CFIHOS, and many others
- ✓ Want to capitalize on Industry 4.0 tools but don't have the required foundation of clean data
- ✓ Need to align data from acquired companies or assets with their systems
- ✓ Want cleaner data in divestitures to simplify the transfer of critical information to the buyer

The Results

Data Viability

Data Insights

Data Quality

By cleansing, contextualizing, and organizing your data, Kinsmen AI supports your digital transformation goals so you can take advantage of tools like digital twins, 3-D visualization, predictive analytics, and AI Agents.

CLEAN DATA. CUTTING-EDGE INNOVATION. **COMPLETE CONTROL.**

Kinsmen AI solves your most demanding data challenges.

AGING ASSETS AND OLD LEGACY DATA

Too often, valuable information gets stuck in unorganized file structures, outdated systems, or even paper archives, making access inefficient. Kinsmen AI's data extraction tools transform this chaos **by capturing and organizing data from any format, ensuring precise accuracy and comprehensive visibility throughout the organization.**

DIGITAL TRANSFORMATION BARRIERS

Process manufacturers must embrace AI, automation, digital twins, and other Industry 4.0 tools, but outdated and disorganized data makes that impossible due to astronomical migration costs and timelines. Kinsmen AI automates data cleansing and contextualization to **bridge the gap between old systems and modern tools and accelerate digital transformation initiatives.**

DELAYS IN DATA ACCESS

Kinsmen AI facilitates connecting data across all systems, departments, and facilities — identifying related data and improving the quality in source systems **gives teams the information they need for safer workplaces, higher productivity, stronger collaboration, and improved asset uptime.**

COMPLIANCE STANDARDS

Outdated and incorrect data often compromise compliance efforts. Kinsmen AI enhances data integrity and audit readiness with automated checks and data validation — **ensuring data aligns with regulatory standards.**

INACCURATE INFORMATION

Data errors and poor version control lead to wasted time and onerous system migrations. Kinsmen AI ensures immaculate version control, so teams work from current information while deduplication eliminates data inconsistencies and errors. **Data migrations and transitions to modern platforms are effortless, reducing downtime and costs.**

POOR DATA QUALITY

Many document management systems aren't sophisticated enough to handle process manufacturers' complex data sets, leaving organizations with useless or outdated data. Kinsmen AI **cleans and contextualizes data even in asset-heavy, data-rich environments, integrating and complementing your document management system.**

POOR INFORMATION HANDOVER

Whether acquiring new companies and assets, handling divestitures, or transferring data from third parties at the end of a project, the inability to hand over data smoothly and continuously slows down engineering and operations teams. Kinsmen AI identifies all missing documents and information and **ensures data is clean, complete, and properly structured — keeping project turnovers smooth and minimizing inefficiencies.**

One AI Tool. Infinite Benefits.

Kinsmen AI builds stronger, safer, and more successful manufacturing facilities.



Improved Asset Uptime

Accurate data improves repair time and ensures warehouses are accurately stocked, significantly improving OEE by up to 85%.



Seamless Digital Integration

Clean and organized data integrates smoothly with new tools like digital twins, 3D visualization, predictive analytics, and AI Agents.



Increased Productivity

Increased productivity is achieved by eliminating the time wasted searching for critical information like spec sheets. With streamlined access, non-value-added activities are drastically reduced. For instance, one chemical facility estimated losing 135,000 hours annually to such inefficiencies.



Faster, Data-Driven Decisions

Your team can access real-time, meaningful insights powered by clean and enriched data.



Cost Savings

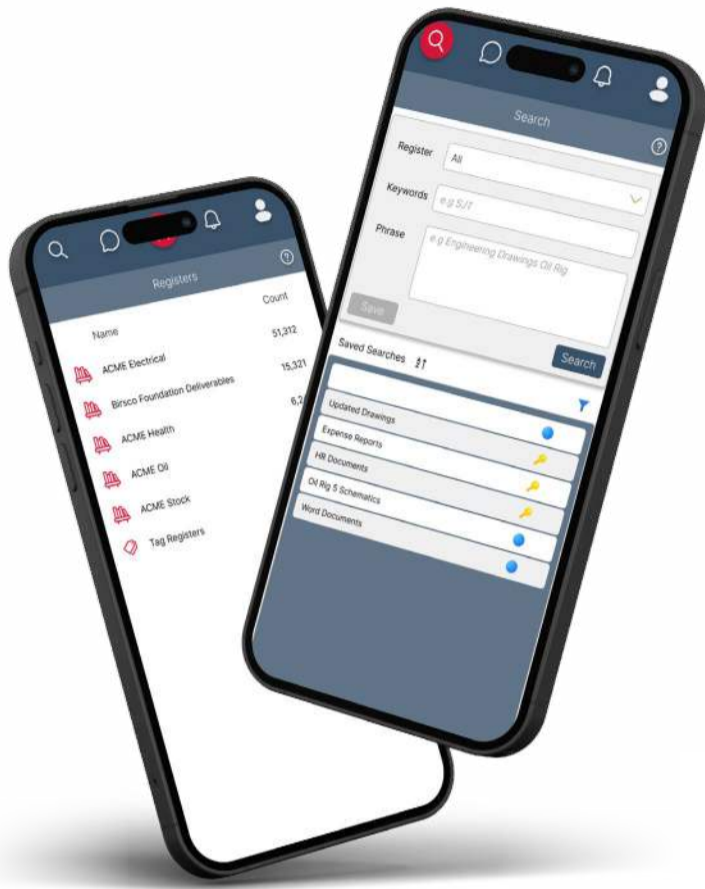
Kinsmen AI ensures clean and quality data — eliminating costly errors, manual rework, and delays.



Compliance Confidence

Your data is always audit-ready and structured to meet even the most stringent compliance standards.

HOW IT WORKS



How Kinsmen AI Transforms Your Data

Kinsmen AI's cutting-edge technology offers groundbreaking data quality.

- ✓ **IDEA (Intelligent Data Extraction)**
Kinsmen AI effortlessly extracts all data from legacy documents, including scanned drawings, PDFs, TIFs, title blocks, revision histories, and equipment tags and transforms it to structured data.
- ✓ **Data Contextualization**
Relevant metadata, asset relationships, and symbol extraction provide you with deeper, meaningful insights.
- ✓ **Engineering-Specific OCR**
Advanced AI Computer Vision captures every detail with accurate precision, including symbols.

- ✓ **Data Deduplication**
Duplicates, near duplicates, and inconsistencies are eliminated from your systems — so your datasets are always reliable and clean.
- ✓ **Revision Stacking**
All document and drawing revisions are organized seamlessly.
- ✓ **Gap Identification**
Missing documents and data points are pinpointed immediately, helping your team complete your datasets and improve asset reliability.
- ✓ **Efficient Package Breakdown**
Kinsmen AI divides complex Engineering Turnover Packages (ETOPs) into individual, manageable documents and drawings, making your information clear and accessible.
- ✓ **Data Validation**
Automated checks ensure the accuracy and consistency of your data — and your compliance with organizational and regulatory standards.
- ✓ **Data Enrichment**
Kinsmen AI automatically enhances datasets with supplementary information, such as inferred or missing values, making your information more valuable and reliable.
- ✓ **Data Insights**
Your AI personal assistant provides instant answers and actionable insights using your own data through interactive, intelligent chat — so you can make data-driven decisions wherever you are.



Transform your data chaos into a competitive edge with Kinsmen AI—powered by Microsoft Azure for seamless scalability and built to integrate effortlessly with your existing systems. Available on the Microsoft Store, Kinsmen AI delivers smarter insights and a brighter future for your operations.

[Schedule a demo](#)


About Kinsmen Group

Kinsmen Group is the leader in digital transformation and AI-driven solutions for asset-heavy industries like Pharmaceutical and Biotech, Oil and Gas, Chemicals, Power Generation, Energy and Utilities. Leveraging advanced AI capabilities, we unlock accurate, immediate access to critical information, automate data contextualization, and provide actionable insights. This empowers our clients to transcend data chaos, achieve higher revenue, optimize asset lifecycles, and streamline compliance.

Our experts leverage advanced technology to manage the heavy lifting while working closely with your team to align people, refine processes, and implement a sustainable, technology-driven strategy through our Digital Asset Transformation Model (DATM) framework. We bring an experienced human touch to every project, supporting your team even after you cross the finish line.

Learn more about **Kinsmen AI**

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