What O3ai Does For Your Factory

A Ground-Up Approach To Smart Digital Transformation

Go Digital

Turn Adversity Into Opportunity

Manufacturers face several big challenges.

Rising energy costs. Sustainability. Maintenance costs. Supply chain issues. Data silos. Constant pressure to maximize productivity.

If your factory is still **pre-digital with fragmented, mostly manual workflows** – you're missing out on a way to ease these issues and gain a serious competitive edge.

However, implementing a full enterprise solution is costly and may be too complicated for your factory.

Fortunately, there's a smart alternative.

O3ai's **ground-up approach sets a strong foundation and builds on it gradually.**

It's **ideal for high-volume** manufacturers in verticals such as **paper, glass, packaging, food and beverages, pharmaceuticals, etc.**

One-by-one, O3ai breaks down data silos to build a 360-degree view of your operations, as well as automating key workflows.

Gain Real-Time Insights

Make better decisions with live process monitoring and analytics.

Predictive Maintenance

Anticipate and prevent equipment failure with autonomous and progressive maintenance.

Connect With Assets

Connect seamlessly to legacy systems, existing equipment, and IIoT sensors, and software – ERP, etc.

Enhanced Security

Your data is secured at every step with robust cybersecurity measures and encryption.

Grows With You

O3ai is a customizable and scalable platform that adapts to your changing needs.

Make Your Factory Work Smarter

What can O3ai do for your factory?

15 - 30%[*]
More productivity

30 - 50%[*]
Less downtime

over 15%[**]
Energy savings

Get Organized

Streamline your factory processes and workflows. We help you restructure for optimal efficiency, setting the stage for greater connectivity and automation.

Get Connected

Connect your team and machines within the O3ai ecosystem. We help you pilot and integrate the O3ai platform step-by-step, all unified in an intuitive dashboard.

Get Optimized

O3ai drives your factory towards key goals – optimal productivity, net-zero environmental impact, and an empowered workforce.

Get Insights

Unlock real-time, actionable insights.
Our dashboards do more than report data – they empower informed decisions, minimizing bottlenecks and downtime.

Expert Support

Throughout this journey, O3ai's team of value engineers, process specialists, and technicians work closely to meet your factory's needs.

Our Customers

Food & Beverages

GULF UNION Foods Co. — شركة اتحاد الخليج للأغذية

Original®

ALSHIFA الشفاء

مصدر الحياة masdar al hayat

مجموعة السنبلة SUNBULAH GROUP

Tchin·Lait

Packaging

SIG

MDF Obeikan

Plastic

المُنى almona

Zamil Plastics

الأمــل الشريف — alamal alsharif plastics

Glass & Paper

العبيكان Obeikan GLASS COMPANY

Utilities

saur Saudi Arabia

About Our Company

Created By Manufactures For Manufacturers

We are:

- A Saudi born software company, operating worldwide. Saudi Arabia is the fastest growing digital economy worldwide.

- As a pivotal part of Obeikan Digital Solutions, O3ai focuses on Autonomous Manufacturing, Operational Excellence, and AI intelligence as its core DNA.

- Invested $30M in O3ai in the last 5 years.

- Headquartered in Riyadh with offices in Switzerland and Spain, covering the European region, and our services are available across the Middle-East, Europe, and Americas markets.
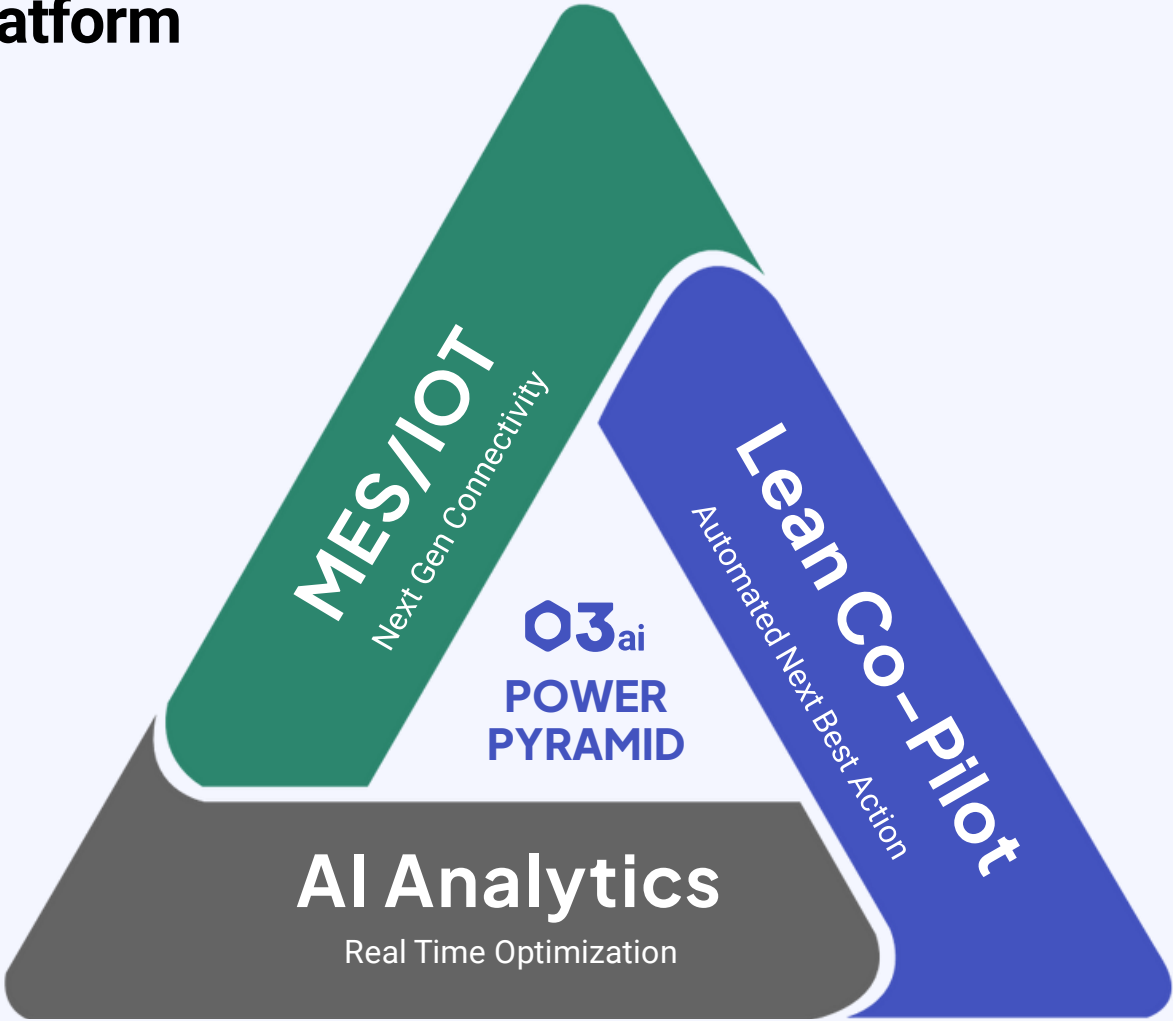
USA: Minneapolis

Europe: Valencia / Zürich

Middle East: Riyadh / Cairo / Yanbu
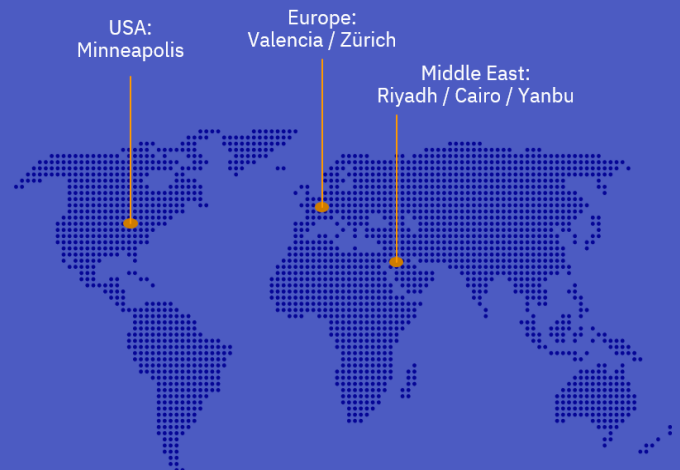
20+ Factories

1000+ Users

Smart Operations Platform

MES/IOT
Next Gen Connectivity

Lean Co-Pilot
Automated Next Best Action

O3ai
POWER PYRAMID

AI Analytics
Real Time Optimization

GET ORGANIZED

GET CONNECTED

GET INSIGHTS

GET OPTIMIZED

Smart Operations Platform

Options For All Digital Maturity Levels

MES

Essential for every manufacturer

Production Ordering
Manage production orders on the shop-floor

Productivity
Track production and operations in real-time

IoT Edge
Seamlessly connect machine and PLC data

Quality Management
Manage non-conformities and complaints

Progressive Maintenance
Prevent system breakdown with proactive maintenance

Mobility App
Operational interfaces for mobile devices

Lean Co-Pilot

Be lean with continuous improvement modules

Performance
Increase workforce efficiency and productivity

KPI
Set and track strategic KPIs across your operations

Autonomous Maintenance
Operator management for machine maintenance

Loss Analysis
Quantify operational losses with real-time insights

Total Delivery Cost
Identify gaps and optimize cost-efficient operations

AI Analytics

Analytics and insights for optimal decision making

Analytical Tools
Full suite of data-driven tools

AI Analytics
AI-powered anomaly detection for machines

Alerts and Workflow
Optimize task workflows and notifications

Gen AI
AI chatbot to gain deep contextual insights

MES
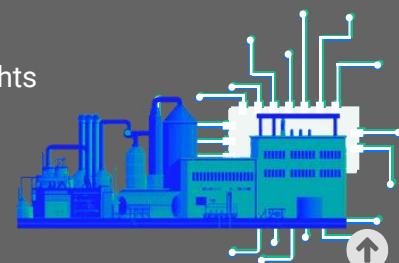
Production Ordering

Streamline your factory's production order processes with ERP integration

Integrate Order Processing & Data

Combine order processing with shop floor data collection for a unified approach.

Enhance Efficiency

Real-time production monitoring and ERP integration with box and pallet barcode technology.

Achieve Optimal Productivity

Increase plant productivity with scheduled order execution and Bill of Materials (BOM) updates.

Production Order Management / Production Order

Order Processing

	Group	Plant	Unit
	Trial OIG Demo	RIYADH MFG	

Start Date: Select date   End Date: Select date

Action	PO	Item Code	Item Desc	Target
	PO34343	90000	PLASTIC RIDGE CUTTER...	100
	PO3000	90000		1700
	PO2004	90003	Froz.Tortilla Brown Thick...	1500
	PO2002	90001	1KG FORASAN SOFT CR...	1902
	PO2001	90000	PLASTIC RIDGE CUTTER...	1900
	PO2002	90001	1KG FORASAN SOFT CR...	1902
	PO2001	90000	PLASTIC RIDGE CUTTER...	1900

Checklist Execution

Checklist Type	Checklist Name	Area	Date	Shift
Inspection Checklist	Daily Personal Hygiene		04/12/2023 12:48	A

Previous Process Order No	Previous Product Name
1	PLASTIC RIDGE CUTTER 45 CMS

Items	Result	Remarks
▾ Employee 1		
Name / File # of the Employee	○ Yes ○ No	Remarks
Area of Work	○ Yes ○ No	Remarks
Medical Card	○ Yes ○ No	Remarks
Jewelry	○ Yes ○ No	Remarks
Face Mask	○ Yes ○ No	Remarks

Operations

Operation No	Operation Description	Product Description	Product Code	Machine	Target	UoM
KR1	KR1Name	PLASTIC RIDGE ...	90000	BRIDGEPORT	100	Pcs/Min

BOM

PPB ID	Item Code	Item Desc	Estimated Qty	UoM
				dd/m
293840	502-006 K	KODAK CAPGT PLT0795X1060M...	0.6	PCS
293846	407-UN-C01	CONVENTIONAL PROCESS BLA...	0.40885	KG

O3ai In Action

On an assembly line, precision and timing are key. O3ai can track each element through the factory ERP system and update the BOM to suit. Order processing integration ensures each component is available at the right time on the assembly line.

MES

Productivity

Visualize key productivity data in real-time for deep insights

Boost Plant Productivity

Enhance yield, optimize capacity, reduce downtime and waste, improve plant efficiency.

Increase Efficiency

Real-time dashboards and KPI tracking for data-driven decisions and reduced errors.

Optimize Resources

Enable rapid corrective actions and prioritize resources to avoid unnecessary downtime.

O3ai In Action

A packaging factory notices a drop in yield. The problem is highlighted instantly on the O3ai dashboard. The management team pinpoints the issue – a machine calibration error – and rectifies it quickly, maintaining high yield rates.

IoT Edge

Harness the power of real-time data for smarter decisions

Capture Data In Real-Time

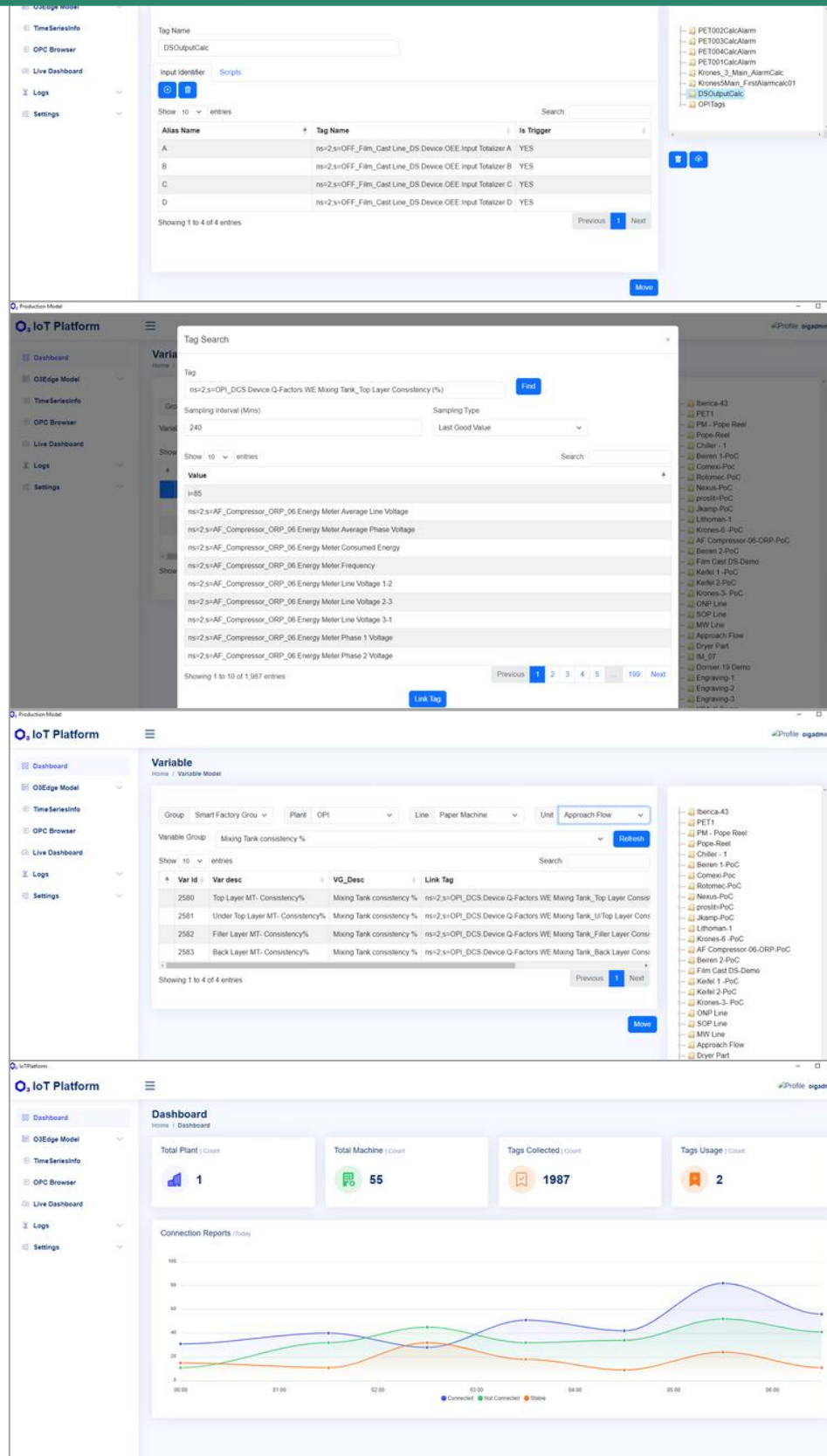Bring together data from PLCs (300+ drivers), ERP systems, and more for deep insights.

Detect Inefficiencies

Access real-time series data for in-depth analysis and anomaly detection.

Integrate with Ease

Connect with data historians, OPC, ERP, and PLCs without the need for new hardware.

O3ai In Action
In a food and beverage processing plant, the IoT Edge module detects temperature fluctuations in storage units. Quick analysis and corrective action prevents spoilage, saving thousands.

Quality Management

Raise product standards with quality monitoring, process control, and NCR/CCR management

Improve Product Quality
Implement rigorous quality control processes, using real-time data and analytics.

Streamline Processes
Enable quick identification, escalation, and rectification of issues with automated reporting.

Quality Management / NCR & CCM / NCR & CCM Dashboard

NCR and Customer Complaint DashBoard

Group	Plant *	Year	Month
Trial OIG Demo	RIYADH MFG	2023	ALL

Machine

CCR GAP Analysis
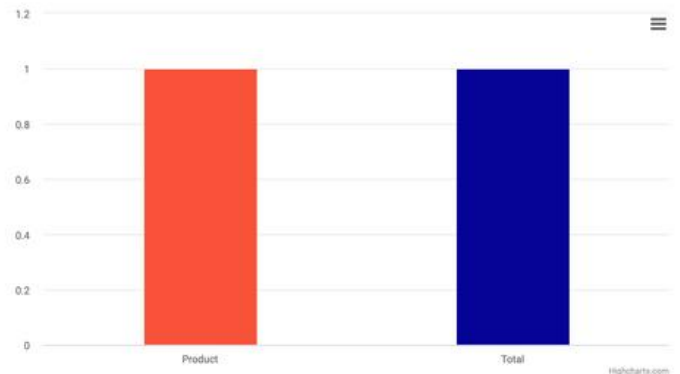
O3ai In Action
At a high-volume glass manufacturer, O3ai Quality Management identifies deviations in glass thickness. Immediate action is taken to create NCR and track resolution.

Progressive Maintenance

Streamline maintenance processes for enhanced equipment reliability

Take Preventive Action
Combine proactive and responsive maintenance strategies for optimal equipment health.
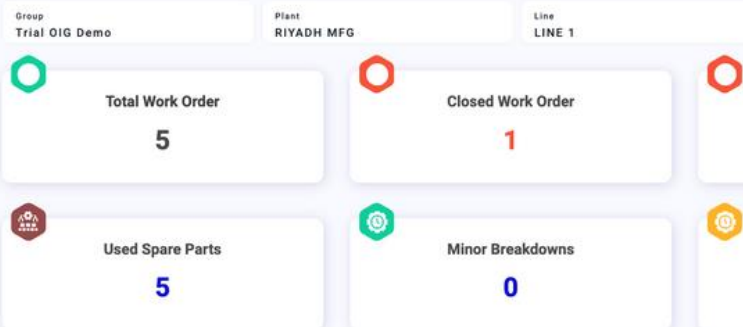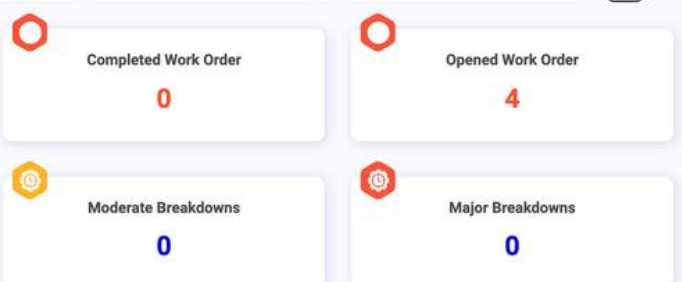

Reduce Workload
Automatically handle daily maintenance calls and track response time, DT, MTTR, MTBF.

Progressive Maintenance / PM Dashboards / RM Dashboard

Reactive Maintenance Dashboard

Group	Plant	Line
Trial OIG Demo	RIYADH MFG	LINE 1

Total Work Order
5

Closed Work Order
1

Used Spare Parts
5

Minor Breakdowns
0

Start Date	End Date
01-Dec-2022 06:01	04-Dec-2023 13:01

Completed Work Order
0

Opened Work Order
4

Moderate Breakdowns
0

Major Breakdowns
0

O3ai In Action
In a dairy processing plant, the Progressive Maintenance module optimizes equipment maintenance schedules, reducing downtime and extending equipment life.
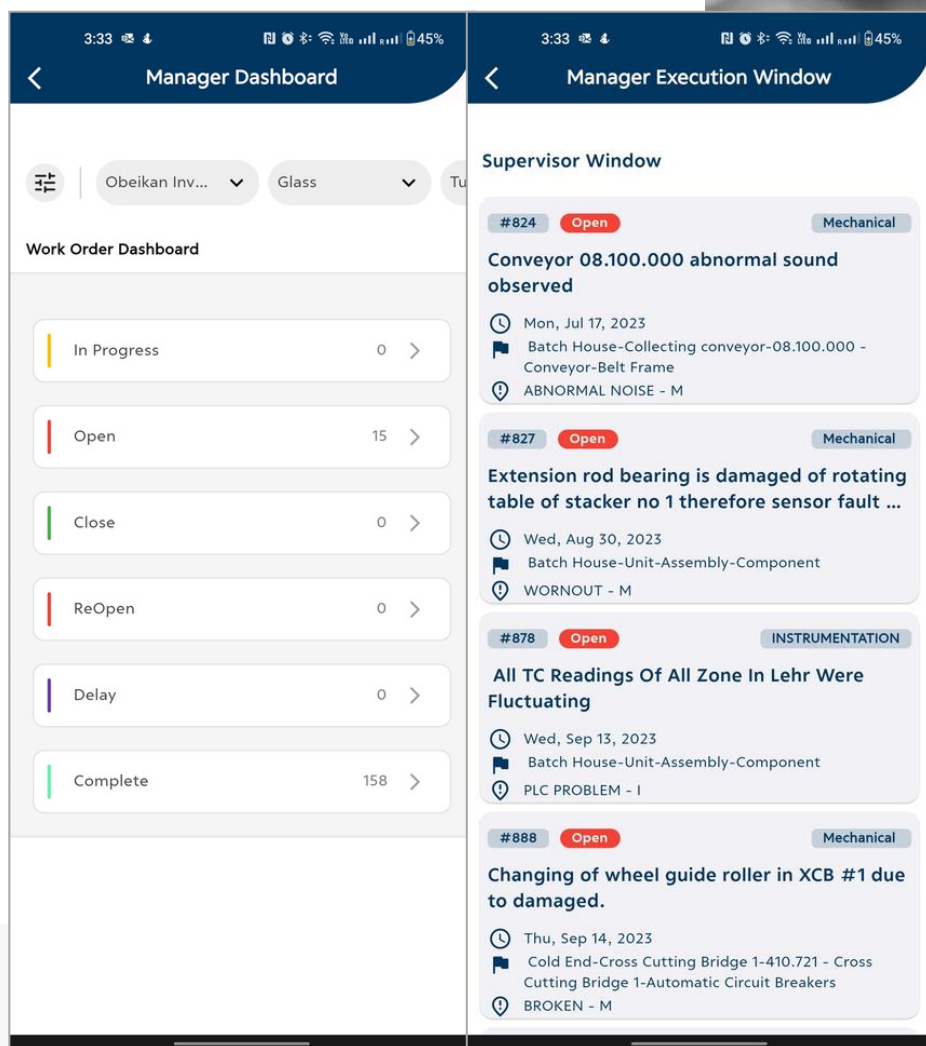
Mobility App

Update and access critical factory data on the go with mobile app and QR codes

Automate Data Capture
Scan checkpoint QR codes to instantly access data capture fields and add notes.

Access Resources Remotely
New field workers can access training materials on handheld mobile devices.

O3ai In Action
In a life sciences facility, O3ai Mobility App enables field technicians to quickly access and update maintenance records, leading to improvements in field response times.

Performance Management

Empower your team with actionable insights for peak performance

Automate Action Plans

Organize and manage key meetings and action plans efficiently.

Enhance Performance

Evaluate meeting effectiveness against performance metrics, driving accountability.

Optimize Communication

Leverage integrated tools to streamline communication, keeping all team members aligned.

Performance Management / Meeting Scheduler

Meeting Scheduler

Select Group
Trial OIG Demo

| Meeting Name * | Meeting Frequency * Yearly | Select KPI | Select Level * Plant |
| Meeting Evaluations * | Please select Meeting Leade... | Meeting Participants | |

Actions	Id	Meeting Name	Start Time	End Time	Leader
	366	Production DDS	Oct 26, 2023, 2:00:00 AM	Oct 26, 2023, 2:00:00 AM	Fusion Admin - Production Head,Production Head
	365	Daily Review Meeting	Oct 26, 2023, 2:00:00 AM	Oct 26, 2023, 2:00:00 AM	Fusion Admin - Production Head,Production Head
	364	Monthly Review Meeting	Oct 26, 2023, 2:00:00 AM	Oct 26, 2023, 2:00:00 AM	Fusion Admin - Production Head,Production Head

Reschedule Meeting

Meeting Name*
Production DDS

Meeting Subject*
No Subject

Meeting Participants
Fusion Admin - Production Head,Production Head Hanzala Shami - Quality Manager Onais Onais - Maintenance Manag

Meeting Time:

| Start Time Select time | End Time Select time | Duration (minutes): 0 |

Recurrence Pattern:

○ Daily
○ Weekly
○ Monthly
○ Yearly

Performance Management / KPI Scorecard

Scorecard

Trial OIG Demo ✕

Frequency *
Yearly

Type	KPI Name	Indicator	Trend	Owner	Previous	YTD
Glidepath	Sales	SAR	Up		0	50000
Actual	Sales	SAR	Up		0	45000
Glidepath	Production Volume	Count#	Up		0	100000
Actual	Production Volume	Count#	Up		0	165000
Glidepath	OEE	%	Up		0	85
Actual	OEE	%	Up		0	81
Glidepath	Availability	%	Up		0	80

O3ai In Action
In a pharma medtech facility, O3ai's Performance Management module streamlines meetings and action tracking. This increases the completion rate of critical tasks, such as R&D milestones and operational efficiency improvements.

KPI Management

Transform strategic objectives into actionable insights

Align with Strategic Goals

Create a KPI tree from your vision, cascading it to the shop floor for clear, actionable objectives.

Track Targets

Set precise targets and analyze performance gaps to drive efficiency and productivity.

Visualize and Act

Real-time dashboards ensure everyone from executives to shop floor workers understands their performance impact.

KPI Management / KPI Reports / KPI Historical Report

KPI Historical Report

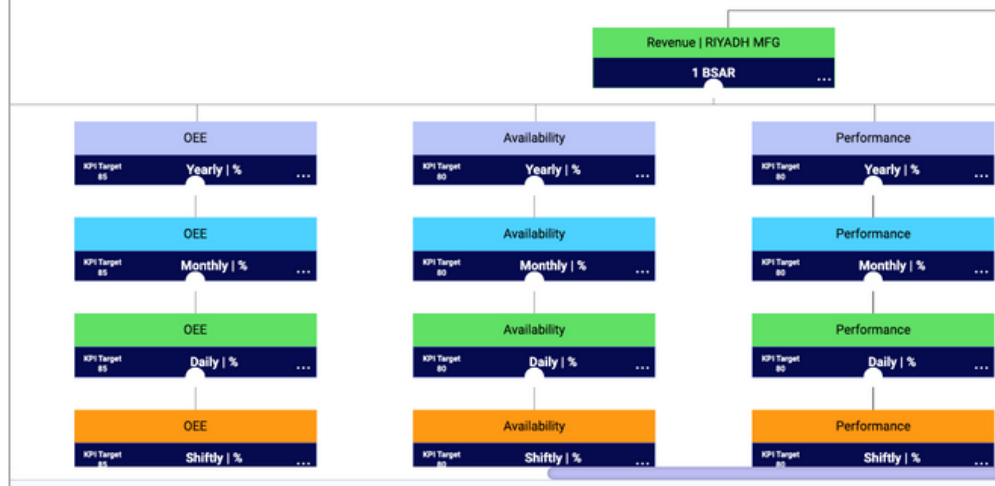| Version 1(31/12/2022-C... | Yearly |

	KPI Name	KPICode	2023
☐	Sales	KFCD89	45000.0000 (SAR)
☐	Production Volume	K85521	165000.0000 (Count#)
☐	OEE	K7FD8F	81.0000 (%)
☐	Availability	K9F45F	78.0000 (%)
☐	Performance	K6A8F5	78.0000 (%)
☐	Quality	K21753	85.0000 (%)
☐	#NCR	K247BA	350.0000 (Count#)
☐	#CCR	KC909D	500.0000 (Count#)
☐	Downtime	K88AC9	780.0000 (Count#)
☐	Waste	K3ED24	2000.0000 (Kgs)

KPI Tree — RIYADH MFG

O3ai in Action
At a high-volume dairy processing plant, O3ai's KPI Management module identifies inconsistencies in the pasteurization process. By visualizing data across shifts, the team implements targeted improvements such as upskilling operators.

Autonomous Maintenance
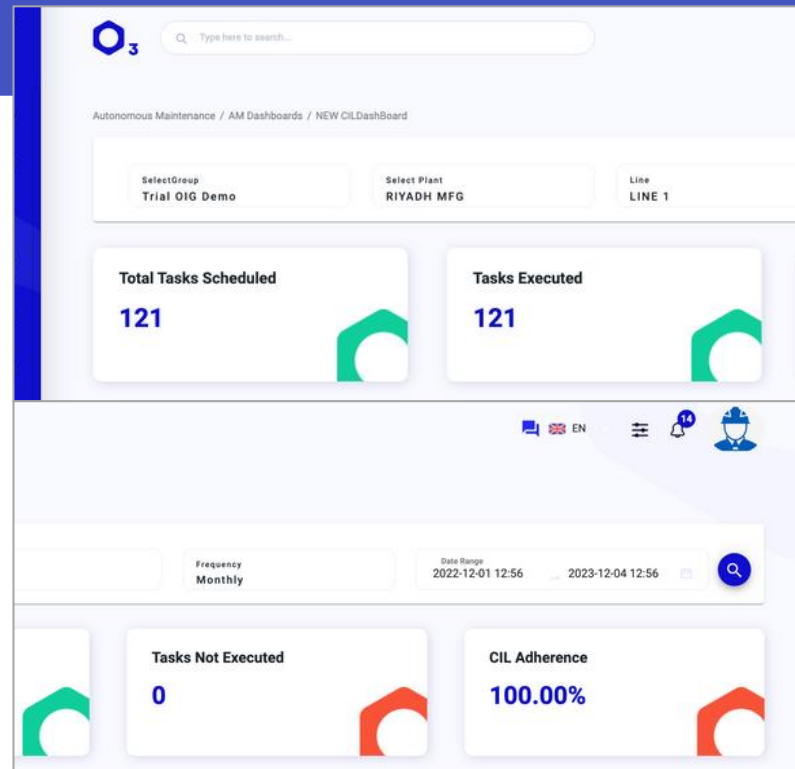
Empower operators to improve machine performance

Increase Machine Uptime
Prompt operators to carry out CIL maintenance tasks with paperless monitoring.

Manage Defects In Real-Time
Quickly record and track machine defects, for rapid resolution and machine optimization.

O3ai In Action
In a packaging plant, O3ai Autonomous Maintenance allows operators to instantly report and address critical printer misalignments, preventing quality issues.

Loss Analysis

Optimize productivity and minimize costs with in-depth loss analysis

Identify & Quantify Losses
Analyze various losses from small frequent issues to asset failure and quantify financially.

Integrate Priorities
Use Pareto analysis to set priorities and integrate cost data for a holistic view.

Total Delivery Cost

Streamline processes with detailed delivery cost analytics
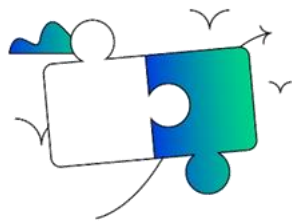
Analyze Costs
Analyze data from ERP and other sources to gain a complete view of total delivery costs.

Optimize Gaps
Pinpoint and fix any gaps in your processes that contribute to higher delivery costs.

Anomaly Detection

Early detection of anomalies in individual process parameters.

Identifying complex anomalies across multiple variables.
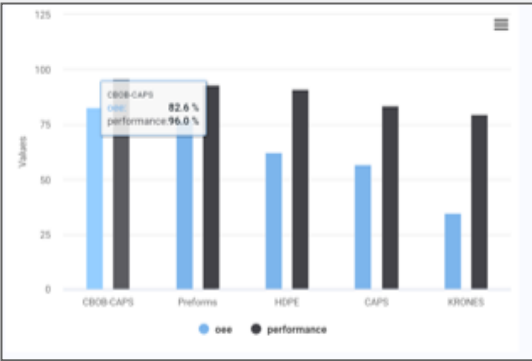

Generative AI – O3ai Copilot

Enhances user interaction with manufacturing data.

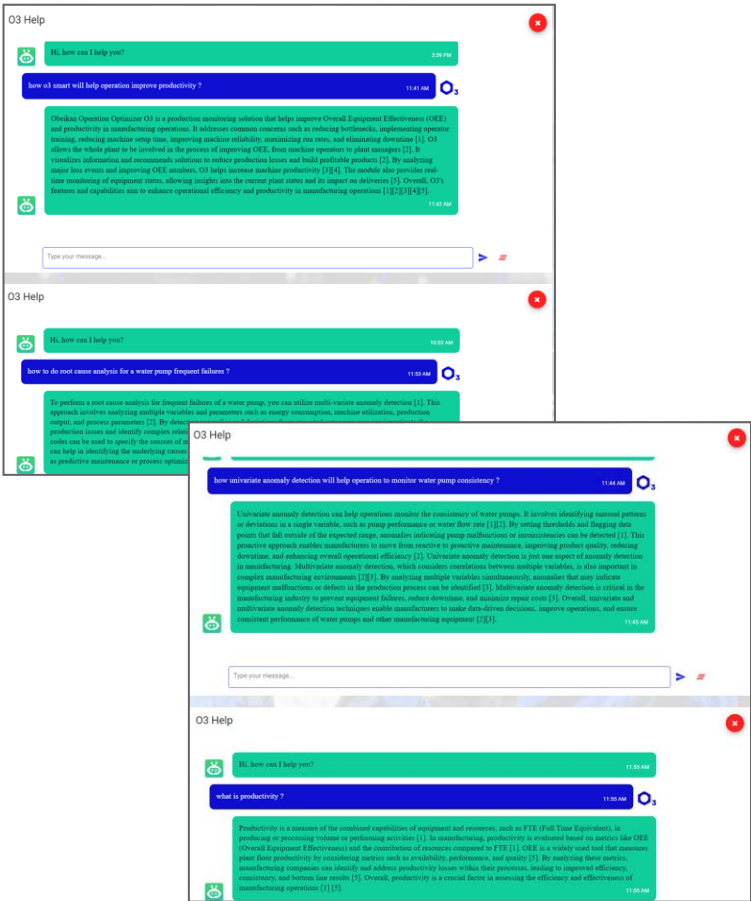Recommends the next best action, offering actionable insights.
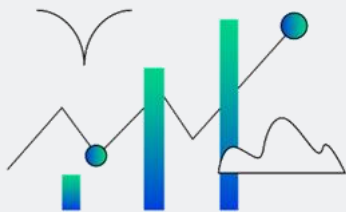
Large Language Models

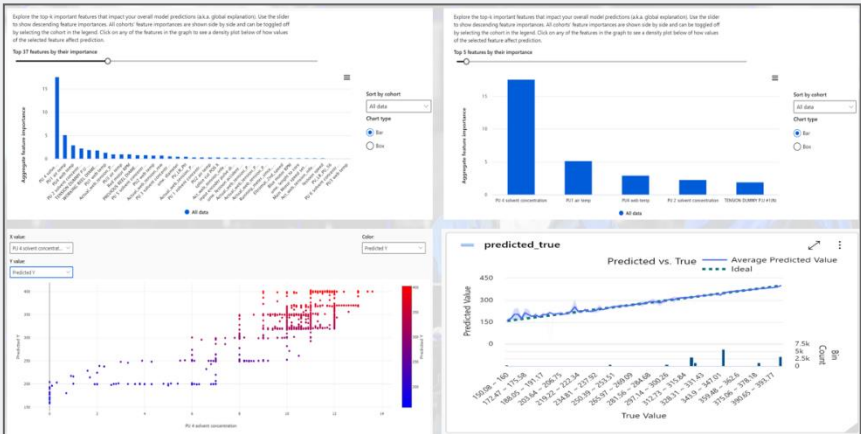Utilizing Retrieval Augmented Generation (RAG) technology.

Facilitating efficient information retrieval and assistance.

AutoML

Automated model building and deployment across various manufacturing scenarios.

O3ai in Action

Folding Carton Company

The Folding Carton Company had problems with visibility and data control in their operations. This led to reduced productivity, inefficiencies, and high costs. O3ai implemented systems to provide real-time operational intelligence, monitor and control assets, and integrate existing systems.

80% less customer complaints

12% less unplanned downtime

11% better equipment efficiency

10% lower costs

The Liquid Packaging Company

The Liquid Packaging Company faced challenges in reducing its workforce, improving productivity, and ensuring performance levels didn't deteriorate. Other challenges included increased customer complaints and inconsistent quality output. O3ai was deployed to help with the rollout, digitalization, and standardization of autonomous and predictive maintenance, safety, quality, and production processes across the plant.

98% better delivery performance

35% less customer complaints

71% less workplace accidents

21% lower costs

7% better equipment efficiency

O3ai in Action

The Rigid Plastic Company

The Rigid Plastic Company (RPC) faced challenges including increased delivery costs and frequent unplanned downtime resulting in high levels of waste and low quality. To address these challenges, they utilized the O3ai platform, including advanced analytics, production monitoring, and autonomous maintenance.

90% better delivery performance

60% less customer complaints

21% less downtime

6% less waste

The Commercial Printing Company

The Commercial Printing Company faced challenges with manual processes and workflows consuming time and resources, as well as downtime of critical equipment. This severely limited productivity. They utilized the O3ai platform, including production, productivity and quality modules, to improve their operations.

78% less customer complaints

57% better delivery performance

13% better equipment effectiveness

13% lower costs

Implementation

Consultative Approach

At O3ai, we know that implementing new systems in manufacturing is rarely straightforward. That's why we offer a full consultative process, including initial diagnostic assessment of your value chain, running pilots, ongoing implementation, and continuous support.

Bridging Old & New Systems

O3ai is designed to bridge the gap between legacy systems and advanced smart manufacturing technology. Connect and collect data from all your machinery and assets, whether they use PLC, SCADA, or any other control system. Fast, friction-free connection with ERP and SCM software.

Full Training & On-Demand Support

Our dedicated team ensures that your staff are fully trained and comfortable with every aspect of the platform. We provide ongoing support to address any challenges. Our team liaises with you to get feedback on how we can improve and upgrade the cloud platform automatically when changes are rolled out.

Dependable Security

We understand how important data security and system reliability are to manufacturing companies. Our platform is built with robust security protocols and reliable technology to protect your data and ensure consistent operational performance.

Break Down Data Silos with O3ai

Contact Us Today 👆

Optimized Production
Real-time monitoring of production processes to run at peak efficiency for better product quality and reduced waste.

Informed Decision Making
Make data-driven decisions quickly, without waiting for end-of-day reports or manual data compilation.

Immediate Problem Resolution
Detect issues as they occur, allowing for immediate response and minimal downtime.

Reduced Downtime & Cost
Enable proactive maintenance, lean methodology, quality control, and performance monitoring.

Empowered Employees
Give operators the tools and responsibility to resolve issues quickly without waiting for specialist technicians.

Strategic Planning
Insights derived from data analysis inform strategic decisions, helping you allocate resources more effectively and identify areas for growth or improvement.