



# Mendygo

## Factory Management System 4.0

**Production**  
optimised

**Intelligence**  
Integrated

**Performance**  
Maximized

mendygo

[www.mendygo.com](http://www.mendygo.com)

# Beyond Traditional Manufacturing

Factories have evolved. Your systems should too. Modern manufacturing facilities are complex ecosystems. You manage production lines, equipment health, energy consumption, water treatment, and safety compliance simultaneously. Yet, traditional Factory Management Systems are often siloed, reactive, and reliant on manual logs—leaving you with operational blind spots and costly downtime.

**Break the Silos. Mendygo FMS 4.0 bridges the gap.** We replace fragmented spreadsheets and disconnected systems with a unified cloud platform. By integrating production monitoring, OEE tracking, energy systems, warehouse operations, and utility management into a single dashboard, we transform raw data into a roadmap for manufacturing excellence.

## OEEE Maximized

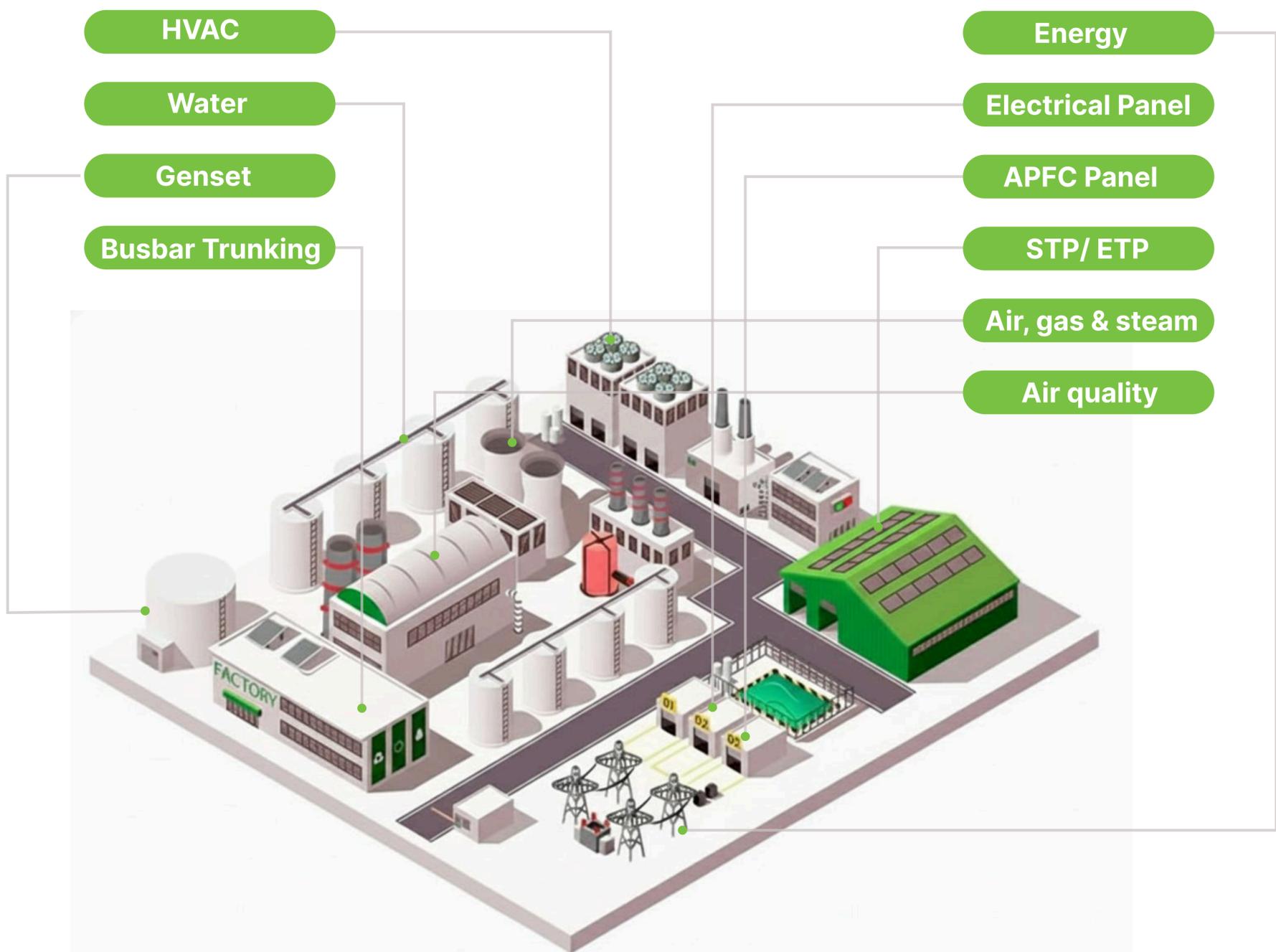
Track availability, performance, and quality in real-time. Identify bottlenecks instantly and benchmark production efficiency across lines and shifts to eliminate waste before it impacts output.

## Compliance Automated

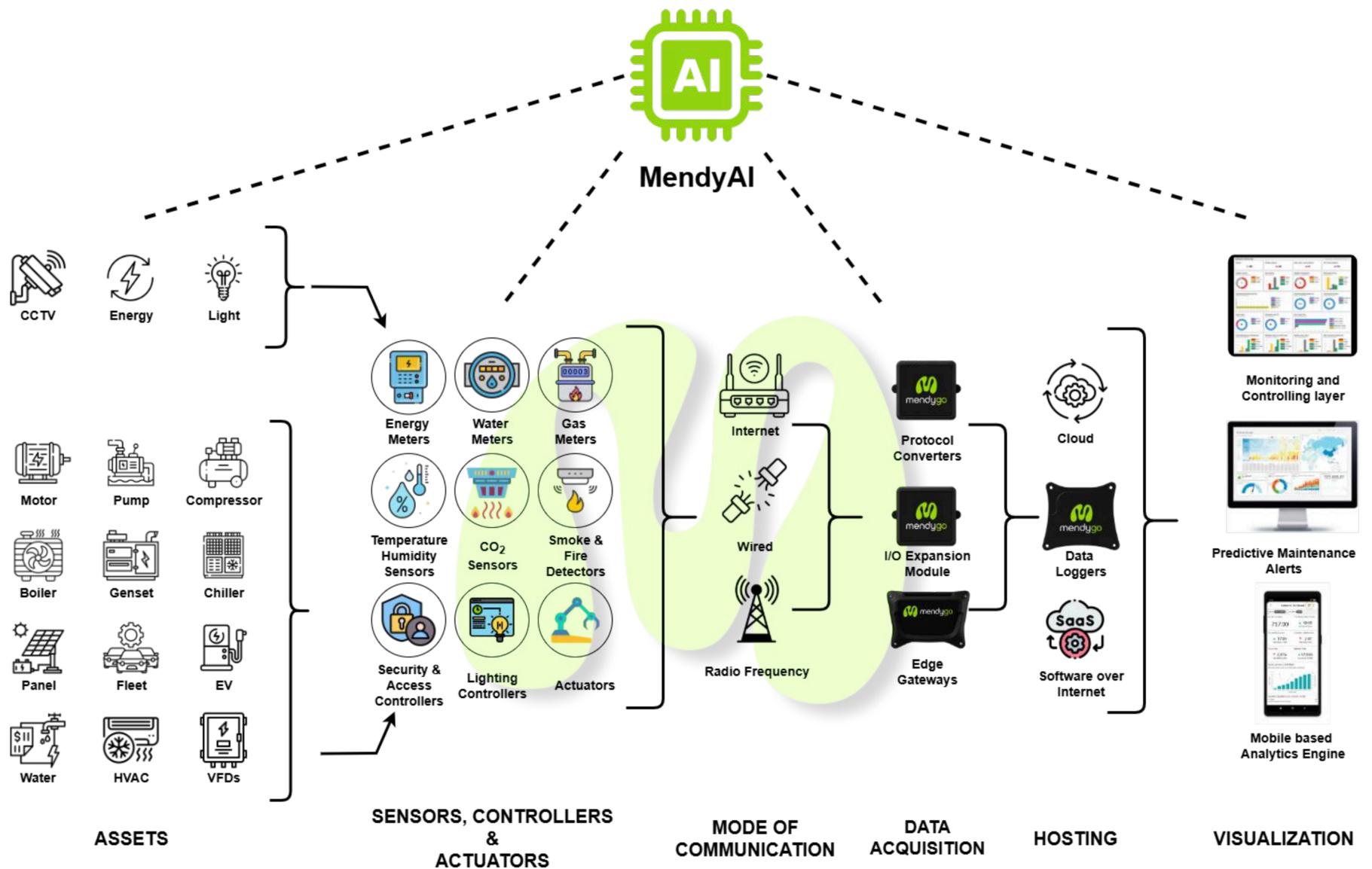
Say goodbye to manual safety logs. Auto-generate audit-ready reports for regulatory compliance, safety standards, and environmental monitoring,

## Uptime Secured

Move from "Fix it when it breaks" to "Fix it before it fails." AI-driven predictive maintenance prevents expensive production halts



# Architecture



# Application

- **Automotive & Electronics**

Monitor production line efficiency and equipment health to reduce cycle times and defect rates.

- **Food & Beverage**

Ensure strict adherence to temperature, humidity, and sanitation standards for quality compliance.

- **Pharmaceuticals**

Track environmental conditions, batch traceability, and equipment validation for regulatory adherence.

- **Heavy Industry & Chemicals**

Optimize energy-intensive processes, monitor safety parameters, and prevent equipment failures with predictive analytics.

# Solution layers

## Sensing & processing

### Smart edge appliance



Smart Edge Gateway

### Gateways



Series 1-100



Series 1-200



Series 2-100



Series 2-200

### Protocol converter



Protocol Converter

### Meters & controllers



Water Meter



Gas Meter



Power Monitoring Unit



Controller

### Sensors



Temperature Sensor



Vibration Sensor



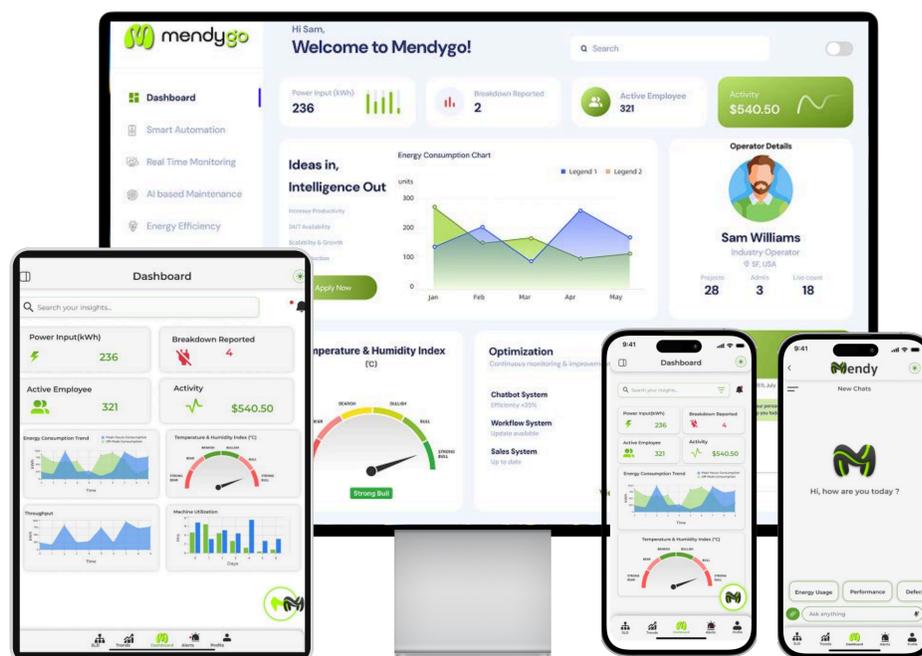
Fuel Sensor



Fire Detector

## Visualization & analysis

Dashboards, reports & alerts.



# Key features

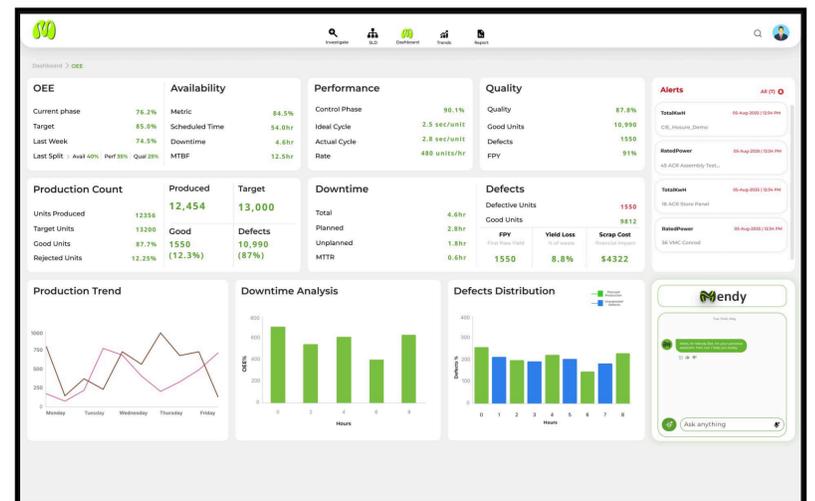
## 1 Create a real time digital twin of your facility

Go beyond static dashboards. We map your physical production infrastructure into a dynamic virtual model, allowing you to visualize machine health, simulate production scenarios, and track operational status in real-time across all lines and assets



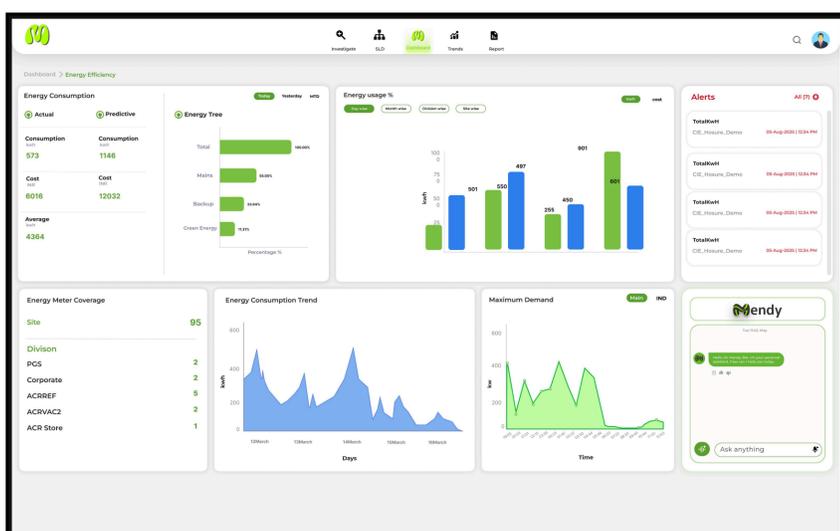
## 2 Unlock patterns in your data with Trends

Don't just collect data; decode it. Our analytics engine overlays historical production performance with real-time metrics, helping you instantly spot efficiency trends, consumption anomalies, downtime patterns, and quality deviations.



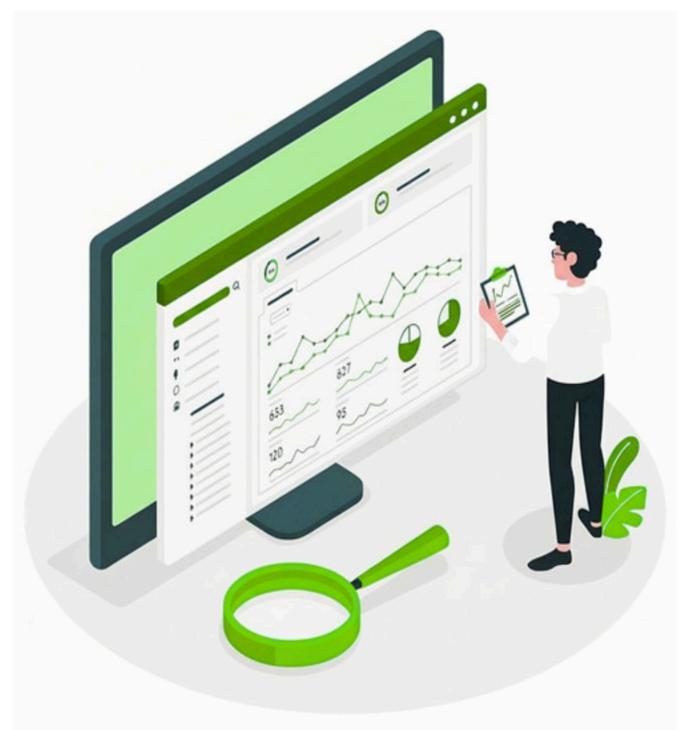
## 3 Centralised dashboard for unified KPI monitoring

Break the silos. Monitor critical KPIs across Production, OEE, Energy, Water, and Safety systems on a single pane of glass. Get a holistic view of your factory's health to stay informed and in control



## 4 Comprehensive reporting at your fingertips

Eliminate manual logbooks. Auto-generate audit-ready reports (including safety compliance, environmental discharge) and maintain a digital trail for regulatory inspections, ensuring you are always audit-ready.



# Key features

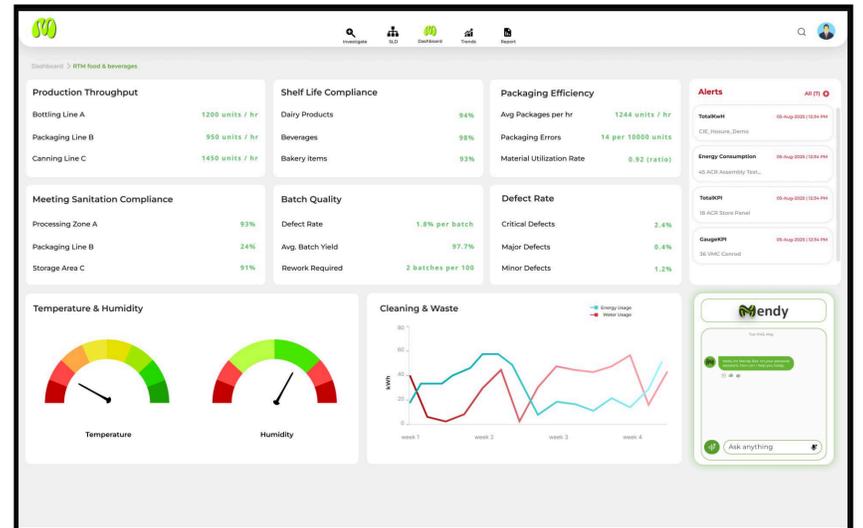
## 5 Real-time alerts on WhatsApp & Email

Cut through the noise. Receive instant, critical notifications via WhatsApp and Email when production thresholds are breached, equipment malfunctions occur, or safety parameters deviate—ensuring the right teams can react immediately to prevent downtime



## 6 From alerts to actionable insights by Investigate

Move from "What stopped production?" to "Why it stopped." The 'Investigate' module correlates data across machines, shifts, and timelines to pinpoint the root cause of failures, enabling data-driven corrective and preventive actions.

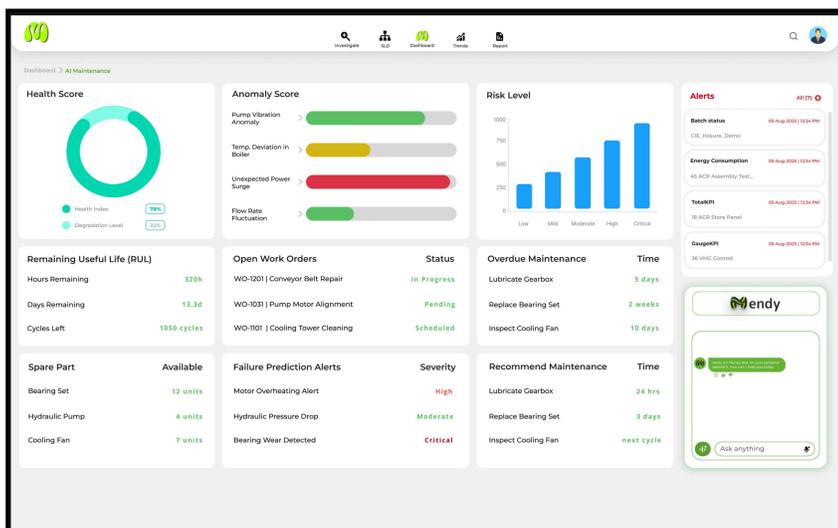


## 7 Seamless configuration - anytime, anywhere

Adapt instantly. Configure sensors, production parameters, and alert thresholds remotely via the web app. Scale your operations or adjust setpoints without the need for expensive on-site technical visits or production shutdowns

## 8 Hierarchy based access control to the web application

Secure your data. Assign granular roles and permissions (Plant Manager, Shift Supervisor, Maintenance Engineer, Viewer) to ensure stakeholders only access what they need, safeguarding critical production and operational settings.



Status	Device Name	kW	kWh	Last Reported Time
Off	CIE_Hosure_Demo	0	0	05-Aug-2025   12:34 PM
Off	15 PH Spare Panel 1250Amp	3.7%	0	05-Aug-2025   12:34 PM
Off	16 ACR ServiceShed	0	977.38	05-Aug-2025   12:34 PM
On	68 Shot Blasting Panel	10.59	47029.199	05-Aug-2025   12:34 PM
On	37 Fine Boring Conrod	1.01	44404.96	05-Aug-2025   12:34 PM
On	36 VMC conrod	1.01	44404.96	05-Aug-2025   12:34 PM
Off	37 VMC - CNC Makino	1.01	44404.96	05-Aug-2025   12:34 PM
On	CCH 35	1.01	44404.96	05-Aug-2025   12:34 PM
On	29 M/C Shop Crane Bus Bar	1.01	44404.96	05-Aug-2025   12:34 PM
Off	19 New Phospatng Plant	1.01	44404.96	05-Aug-2025   12:34 PM

# 9 Anytime anywhere access by mobile & web apps

Managing a factory shouldn't chain you to the control room. Gain full visibility and control over your production floor from any device, anywhere in the world, ensuring you never miss a critical update or production alert.



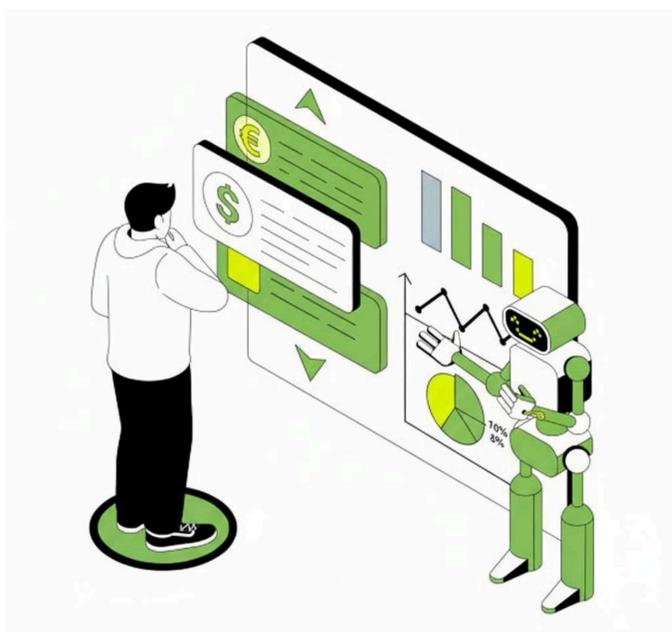
# 10 Low latency actuation for your critical systems

Speed is productivity. Our edge-computing architecture processes control logic locally, ensuring that critical actuations (like emergency stops, valve controls, or line adjustments) happen in milliseconds without cloud dependency.



# 11 Smarter decisions with AI-powered insights

Stop reacting to breakdowns; predict them. Leverage AI to analyze equipment vibration signatures, temperature patterns, and operational anomalies to detect faults early, allowing you to schedule maintenance during planned downtime rather than emergencies.



# Shield in a box

The Bridge Between Legacy & Future. The "Shield" is a powerful edge-computing gateway that connects your physical factory infrastructure to the digital cloud. It speaks every language—from legacy Modbus RTU & Profibus to modern MQTT and OPC-UA—aggregating data from disparate production systems into one unified FMS 4.0 platform. It ensures real-time processing, industrial-grade security, and offline resilience—eliminating the need for constant cloud connectivity to run critical production logic



## Universal Connectivity

- Seamlessly connects legacy PLCs, SCADA, and DCS systems with modern IoT sensors
- Built-in support for Modbus, MQTT, OPC-UA, Profibus, RS485, CANBUS, and Ethernet/IP
- Processes complex production logic locally for faster response times and lower cloud data costs.
- Features encrypted data transmission, local buffering to prevent data loss during network outages



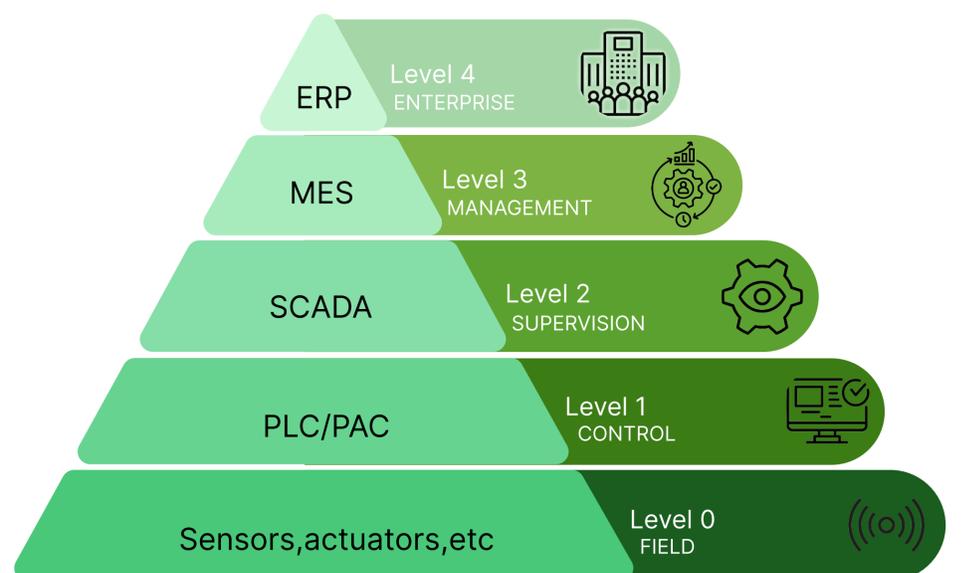
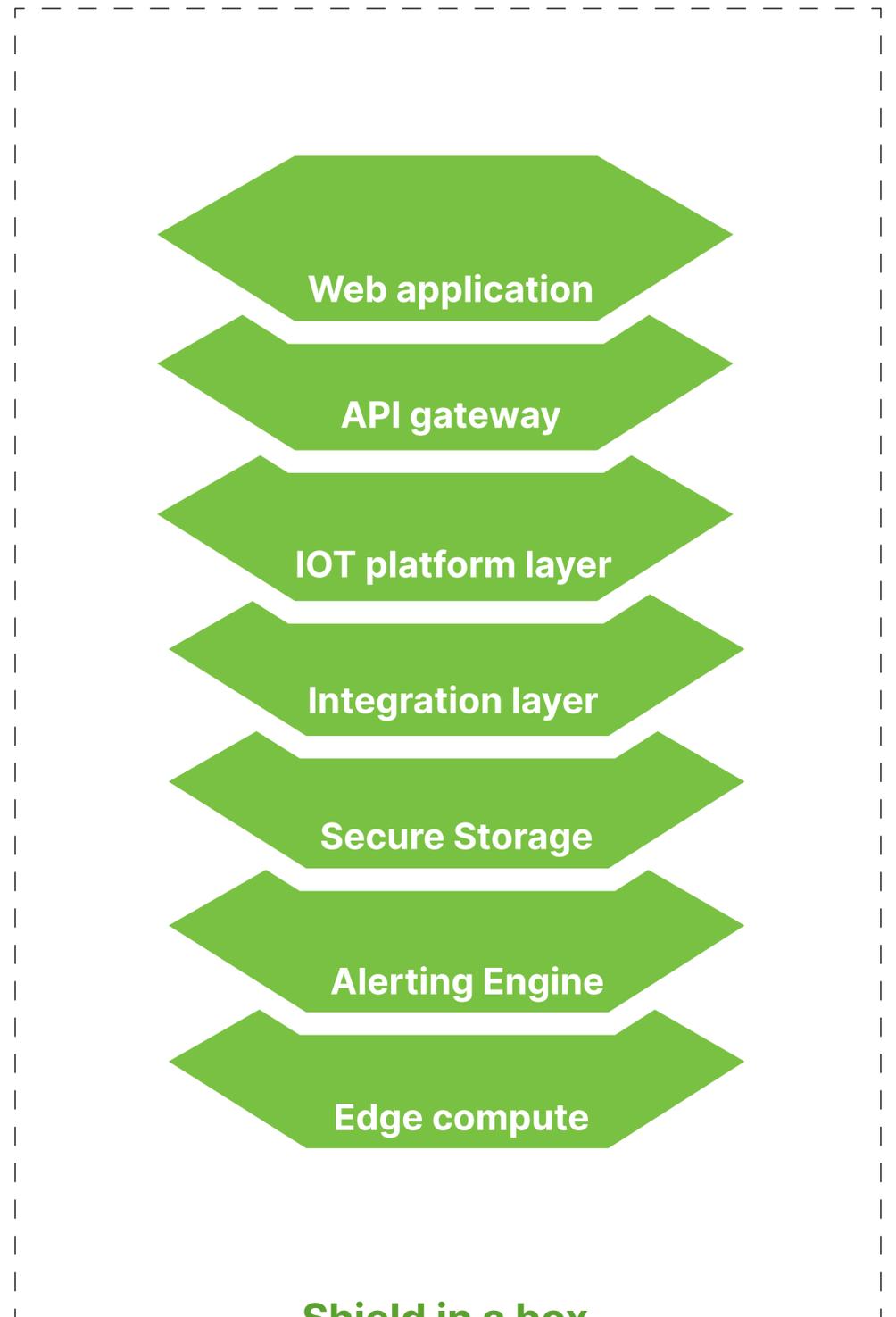
## Retrofit, Don't Replace

- Works with your existing production infrastructure. Layer intelligence on top of old machines and control panels without costly replacements.
- Compatible with hardware from any major brand ensuring universal compatibility.
- Software-defined architecture allows you to update protocols, add features, and scale capabilities over the air (OTA) without hardware changes.



## Rapid Deployment

- Start with OEE monitoring or energy tracking and unlock new modules as you grow, avoiding unnecessary upfront costs.
- Plug-and-play integration with Mendygo certified sensors, machines, and third-party production systems.



# Capabilities

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## 1 In-House R&D

Innovation, Not Outsourcing. Led by a team of 100+ subject matter experts in industrial automation and IoT, we define the cutting edge internally.

## 2 Custom Solutions

Tailored for Your Production. One size does not fit all factories. We specialize in deploying bespoke applications that fit your specific manufacturing needs.

## 3 Precision Manufacturing

Industrial-Grade Reliability. We build what we sell. Our manufacturing facility features automated pick-and-place setups and rigorous "burn-in" testing protocols.

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