

EY Inventory Management Solution (EYIM)

AI-Powered Inventory Optimization

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EY



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Business drivers

- Multiple (or lack of) systems across different warehouses that prevent a single view of all enterprise inventory levels
- Lack of automated process to manage the receiving, movement, removal and disposal of inventory
- Inventory tracking currently performed in an enterprise resource planning (ERP) system that is not easy to use, not user friendly and not all employees can access
- Manual processes in place to track current inventory levels that are not tracked in the ERP solution

Solution overview

The EY Inventory Management (EYIM) solution leverages AI-driven agents and Microsoft Power Apps to transform traditional inventory management into an intelligent, self-optimizing ecosystem. It addresses critical challenges such as stockouts, overstocking, regulatory compliance, data inaccuracies, lack of visibility, and strained supplier relationships—but goes further by embedding AI decision-making and predictive intelligence into every process. Unlike conventional systems, EYIM's AI agents monitor inventory signals, and recommend or execute actions in real time. Included AI Agents:

- Inventory monitoring:** Offers real-time warehouse visibility, tracking stock and alerting on issues.
- Inventory restocking:** Automates timely replenishment by analyzing stock, lead times, and demand.
- Fraud detection:** Detects anomalies to prevent fraud, shrinkage, and compliance breaches.
- Inventory forecasting:** Forecasts demand using data and trends for proactive inventory planning.

Solution benefits

EY Inventory Management (EYIM) has been widely embraced by organizations across asset-intensive and inventory-heavy industries. Its key advantages include:

- Better visibility into inbound shipments
- Capabilities to track the receiving of goods
- Single system of record to manage inventory
- Consolidation of warehouse inventory across the enterprise into a single system
- Visibility and accuracy across buildings and sites
- Effective usage of equipment or resources to store and retrieve inventory
- Travel time reduction through efficient movement and pick strategies
- Predictable and consistent results in satisfied employees, lower turnover and fewer errors
- Mobile and off-line capabilities allow flexible use of the application by warehouse users in remote locations

Scenario: warehouse goods receipt and inventory count

Warehouse technician

Complete goods receipt via Microsoft Power App

Confirm ERP posting via Power App and Microsoft Outlook

Receive email notification and complete inventory count via Power App

Material specialist

Approval request notification via Microsoft Teams and email

View facility dashboard via Admin App

AI agents check inventory levels and initiate transfer which is then reviewed by materials specialist

Request Inventory Count via Power App

Receive email notification and review and approve inventory count via Power App

Solution differentiators

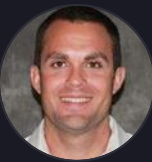
- EYIM is an ERP surround solution that provides users with a superior user interface experience through the Microsoft Mobile Power App. It updates the ERP behind the scenes without users interacting with the ERP directly.
- It provides clients with a single system of record to manage inventory across all buildings and sites within their enterprise.
- It is built on Microsoft Power Platform using Power Automate and Power Apps, with Power BI for analytics and reporting.
- It is also built on Microsoft 365 Copilot an integrated agentic AI-powered assistant that provides end users intelligent suggestions and helps automate repetitive tasks.
- Robust dashboards and reporting improve previously unknown key performance index (KPI) metrics and leadership measurement.

Joint value proposition

- The EY organization has been recognized as the Global Advisory and Consulting Services Partner of the Year for six consecutive years, and together with Microsoft, we bring innovative consulting services to help enable Microsoft products for clients.
- The EY organization builds upon and collaborates with Microsoft to create additional functionality and value from connectors and plug-ins that our clients seek.
- The EY organization leverages knowledge from our alliance with Microsoft. EYIM combines Microsoft technology with our transformational adoption and scaling experiences to drive enterprise value and provide leading-class solutions based on business objectives.

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Case study

Digitized a client’s inventory management process

Client challenge	Engagement summary	Value provided
▪ Inventory is currently managed in ERP, smart sheets and third-party warehouses so there is no single system of record for all inventory. ▪ Warehouses use paper-based processes for reservations, picking, kitting and transferring within the warehouse. ▪ Disposal process is not very automated, with emails, disposal memos and bills of sale manually created.	▪ Created process diagrams for future process flows while considering the primary personas impacted by the application ▪ Designed application wireframes that were vetted with materials management specialists in the warehouses that would be using the application ▪ Produced a custom canvas (mobile) application for materials management specialists to use in the warehouses that was fully integrated with ERP ▪ Built a model-driven application for administrators to review and approve transactions created on a mobile app	▪ Helped enable one interface to manage materials from client-owned ERP and non-ERP materials sources ▪ Implemented a digitally enabled disposal process with mobile identification of disposal candidates ▪ Digitally enabled processes for materials reservations, picking, kitting and transferring, with eventual barcoding features to support limited user entry

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For more information, visit: ey.com/Microsoft.

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