

# AI-Powered Supply Chain Assessment Report

Prepared for	
Customer-facing brand	
Assessment date	2 Feb 2026
Report version	1.0 — Initial Diagnostic

**CONFIDENTIAL MANAGEMENT REPORT**

This document is intended for internal management use. It is an AI-assisted diagnostic assessment reviewed through the OpexEdge methodology. Recommendations are based on the customer questionnaire and must be validated against operational records before implementation.

**Prepared by OpexEdge Consultancy**

Operational Excellence • Supply Chain • AI-Enabled Improvement

## DOCUMENT CONTROL

Item	Details
<b>Client</b>	[Redacted] - customer-facing brand: [Redacted]
<b>Business profile</b>	Furniture manufacturing and retail business based in Cairo, Egypt
<b>Assessment basis</b>	Completed OpexEdge AI-Powered Supply Chain Assessment Questionnaire
<b>Assessment type</b>	Initial diagnostic self-assessment with consultant review
<b>Supporting records reviewed</b>	Not yet reviewed. The customer indicated that operational records are available for the next validation stage.
<b>Report status</b>	Client-ready initial assessment; recommendations should be validated during the management review meeting.

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## 1. EXECUTIVE SUMMARY

[Redacted] industry, operating under the [Redacted] and, is preparing for growth. The completed questionnaire indicates a business with established commercial activity, approximately 130 stock-keeping units, around 300 customer orders per month, and a stated 95% on-time-and-complete delivery rate. At the same time, recurrent weekly stockouts, supplier concentration, limited replenishment controls, logistics tracking gaps, and fragmented data visibility are constraining scalability.

The indicative weighted supply-chain maturity score is 16.3 out of 100, placing the current operating model in the Reactive category. This result does not mean that the business lacks operational capability. It means that key practices are still dependent on manual judgment, informal controls, and individual experience rather than repeatable, measured, and system-supported processes.

<p style="text-align: center; font-weight: bold; color: #0070c0;">OVERALL MATURITY SCORE</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">16.3 / 100</p>	<p style="text-align: center; font-weight: bold; color: #c00000;">CURRENT CLASSIFICATION</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">Reactive</p>	<p style="text-align: center; font-weight: bold; color: #0070c0;">QUESTIONNAIRE COMPLETION</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">99.1%</p>
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### Priority management message

#### FOCUS ON THE OPERATING FOUNDATION BEFORE ADVANCED AI

The business is interested in forecasting, reorder recommendations, stockout alerts, slow-moving inventory analysis, supplier evaluation, logistics analysis, and dashboards. The first 90 days should establish reliable data, replenishment rules, supplier controls, and a lightweight management dashboard. Advanced predictive tools should follow after the data foundation is validated.

### Five priority actions

- Create one validated product-and-inventory master file and perform a focused physical stock reconciliation.
- Pilot minimum stock, maximum stock, reorder-point, and safety-stock rules for the highest-priority products.
- Create an approved supplier list and supplier-risk map, with alternatives for critical single-source materials.
- Launch a weekly supply-chain dashboard covering stockouts, inventory aging, supplier lead times, fulfilment delays, delivery delays, and returns.
- Implement a simple exception-management workflow before investing in a full ERP or advanced AI forecasting model.

### Important validation note

*The questionnaire contains a small number of entries that require confirmation before final implementation decisions are taken. These include the currencies used for reported financial values, whether the top-three supplier share entered as "1" means 100%, and three maturity responses entered outside the provided dropdown format. The score remains Reactive even if those responses are moderately adjusted, but the management review should confirm the baseline.*

- The business reported around 300 monthly orders, a 10-day average fulfilment time, and 95% complete-and-on-time delivery.

#### Assessment observation

- The existing order-tracking capability is a positive base for improvement.
- A 95% fulfilment indicator should be validated against weekly stockouts and reported delays caused by unavailable stock.
- Without root-cause tracking, improvement actions may remain reactive.

#### Recommended action

- Define one fulfilment KPI dictionary and measure delay causes weekly.
- Document the order-to-delivery process and exception paths.
- Introduce a weekly capacity and backlog review.

### 5.5 Logistics & Delivery — 16.7%

#### Evidence from the questionnaire

- The company uses external logistics providers only.
- Delivery cost tracking was reported as documented.
- Delivery lead time, failed-delivery measurement, customer updates, and routing or consolidation review were not reported as established.
- The stated logistics problems are delays and tracking.

#### Assessment observation

- Management may know delivery cost without knowing the reasons behind delays.
- External providers need a consistent SLA and exception-reporting method.
- Customer experience may be affected by limited visibility after dispatch.

#### Recommended action

- Create a delivery register with dispatch date, expected date, actual date, provider, cost, and issue reason.
- Issue a simple provider scorecard monthly.
- Evaluate a practical customer-status update process.

### 5.6 Data, Systems & Visibility — 14.3%

#### Evidence from the questionnaire

- The company reported using Excel and an e-commerce platform.
- Current inventory visibility was described as informal.
- Supplier and delivery visibility, regular reporting, cross-channel consistency, and formal data ownership were not reported as established.
- Sales and order-fulfilment reports are reviewed, but the reporting routine needs standardization.

#### Assessment observation

- Data is fragmented and may not support reliable automation yet.
- The company should establish one source of truth for products, stock, purchases, suppliers, orders, and deliveries.
- A lightweight dashboard is more suitable than a complex system rollout during the first phase.

#### Recommended action

- Define master data owners and reporting cut-off rules.
- Create a weekly dashboard using validated Excel exports or a suitable reporting tool.
- Document the requirements before selecting or expanding an inventory-management system.

### 5.7 Risk Management & Resilience — 20.8%

#### Evidence from the questionnaire

- Critical products, suppliers, and materials are identified.

### Days 1–30: Stabilize visibility

Action	Owner	KPI	Expected outcome
Confirm baseline data and currencies	GM	Validated baseline	Reported figures and definitions are confirmed.
Clean product master and reconcile priority inventory	Inventory owner	Stock variance	One reliable inventory view exists.
Start stockout, delivery-exception, and damage registers	Operations / Fulfilment	Exceptions recorded weekly	Problems are measured consistently.
Map suppliers and critical single-source items	Procurement owner	Critical-item coverage	Supplier dependency becomes visible.
Create weekly dashboard version 1	GM / Data owner	Weekly review held	The company uses one management view.

### Days 31–60: Standardize controls

Action	Owner	KPI	Expected outcome
Set min/max, reorder-point, and safety-stock rules for priority SKUs	Inventory / Procurement	Priority SKU coverage	Replenishment becomes rules-based.
Issue supplier scorecard version 1	Procurement owner	Supplier OTIF and issue log	Suppliers are reviewed using evidence.
Document receiving, storage, picking, dispatch, and return SOPs	Operations owner	Core SOPs approved	Warehouse execution becomes repeatable.
Define fulfilment and delivery KPI dictionary	GM / Fulfilment	KPIs approved	Reported performance uses consistent definitions.
Agree delivery-provider SLA and monthly review	Fulfilment owner	Provider review held	External delivery risks are controlled.

### Days 61–90: Optimize and pilot AI

Action	Owner	KPI	Expected outcome
Launch automated stockout and reorder alerts	Data owner / GM	Alert accuracy and action rate	Managers review prioritized exceptions.
Launch inventory-aging analysis	Inventory owner	Slow-moving value tracked	Cash tied up in stock becomes visible.
Pilot supplier-risk flags	Procurement owner	High-risk suppliers flagged	Management prioritizes mitigation.
Run demand-forecasting pilot for selected SKUs	GM / Data owner	Forecast error measured	A controlled AI forecasting use case is tested.
Review system requirements and select next-stage solution	GM	Approved requirements document	System investment is based on validated needs.

## 10. RECOMMENDED KPI DASHBOARD

Start with a one-page weekly dashboard. Add indicators only when the data definition and owner are clear.

KPI	Definition	Frequency	Owner
Stockout incidents	Number of stockout events during the review period	Weekly	Inventory owner
Stockout rate	Stockout incidents ÷ monitored priority SKUs	Weekly	Inventory owner

KPI	Definition	Frequency	Owner
Inventory accuracy	Accurate counted units ÷ counted units	Weekly during rollout; monthly thereafter	Inventory owner
Slow-moving inventory value	Value of stock exceeding the agreed aging threshold	Monthly	Inventory owner
Inventory days on hand	Average inventory ÷ cost of sales × days	Monthly	Finance / GM
Supplier on-time delivery	Supplier deliveries received on time ÷ total supplier deliveries	Monthly	Procurement owner
Supplier rejection rate	Rejected supplier items ÷ received items	Monthly	Procurement / Quality
Order fulfilment lead time	Average time from order confirmation to dispatch or delivery	Weekly	Operations owner
On-time and in-full delivery	Complete and on-time orders ÷ total delivered orders	Weekly	Fulfilment owner
Delivery exceptions	Delayed, failed, damaged, or untracked deliveries	Weekly	Fulfilment owner
Damage rate	Damaged shipments ÷ total shipments	Monthly	Fulfilment owner
Forecast accuracy	Agreed forecast-accuracy measure for pilot SKUs	Monthly after pilot begins	Data owner / GM

## 11. DATA VALIDATION AND REQUIRED DOCUMENTS

The customer indicated that the following records can be shared. Reviewing them will convert this initial diagnostic into a validated implementation plan.

Record	Priority	Purpose
Sales data for the past 12 months	High	Validate demand patterns, peak periods, SKU movement, and forecasting pilot scope.
Inventory report	High	Validate stock balance, aging, slow-moving value, stockouts, and product master.
Purchasing records	High	Measure purchase frequency, supplier lead time, and replenishment behavior.
Supplier list and contracts	High	Confirm supplier concentration, terms, alternatives, and critical dependencies.
Product list or catalogue	High	Clean SKU master and classify product families.
Warehouse records	Medium	Review receiving, picking, returns, and stock-movement controls.
Delivery reports	High	Measure provider performance, lead times, exceptions, and damage.
Customer complaint records	Medium	Identify recurrent fulfilment, delivery, and product issues.
Existing KPI reports	Medium	Align the new dashboard with existing reporting.
Standard operating procedures	Medium	Assess which procedures exist and which need standardization.
Organizational chart	Medium	Assign ownership and escalation responsibilities.

### Specific baseline confirmations required

- Confirm the currencies used for annual revenue and average inventory value.
- Confirm whether the top-three suppliers represent 100% of purchasing.
- Confirm the intended maturity level for three responses entered outside the dropdown format.
- Confirm the definition used for the reported 95% complete-and-on-time delivery result.
- Provide the missing average inventory days-on-hand figure or the data required to calculate it.

## 12. MANAGEMENT DECISIONS AND NEXT STEPS

The management review meeting should focus on practical decisions rather than discussing every questionnaire answer.

### Decisions required during the review meeting

1. Appoint the internal owner responsible for the 90-day improvement roadmap.
2. Approve the initial priority product families and SKUs for inventory control.
3. Approve the first set of supplier, inventory, fulfilment, and logistics KPIs.
4. Confirm which existing files can be shared for validation.
5. Choose the scope of the first AI-assisted pilot: stockout alerts, inventory-aging analysis, or the weekly dashboard.

### Recommended OpexEdge follow-up engagement

#### SUPPLY-CHAIN FOUNDATION AND AI-READINESS SPRINT — 90 DAYS

A practical implementation engagement covering data validation, inventory controls, supplier-risk management, weekly dashboards, logistics exception tracking, SOP priorities, and one controlled AI-assisted pilot. The scope should be finalized after the management review and source-document validation.

## APPENDIX A. EVIDENCE SNAPSHOT AND ASSUMPTIONS

This appendix distinguishes reported facts from items requiring validation. It supports transparent consultant review and prevents unsupported conclusions.

Evidence type	Item	Treatment
Confirmed by questionnaire	Business model includes manufacturing and retail; customer focus is consumers; company is preparing for growth.	Use as initial profile.
Confirmed by questionnaire	Approximately 130 SKUs and 300 customer orders per month.	Validate through product and sales files.
Confirmed by questionnaire	Stockouts occur around once per week; unavailable stock is a delay cause.	Treat as urgent operational issue.
Confirmed by questionnaire	Four active suppliers and critical single-source dependency.	Validate with supplier master and purchasing records.
Confirmed by questionnaire	External logistics providers only; delays and tracking are major concerns.	Review delivery reports and provider records.
Requires validation	Annual revenue entered as 2,000,000 and average inventory value entered as 120,000.	Confirm currency and period.
Requires validation	Top-three supplier share entered as 1.	Confirm whether this means 100%.
Requires validation	Three maturity responses were entered outside the dropdown format.	Confirm intended maturity level.
Requires validation	95% complete-and-on-time delivery.	Confirm definition, period, and source report.
Missing baseline	Average inventory days on hand.	Calculate after inventory and sales data are reviewed.