AI Supply Chain Readiness Scorecard

Assess. Prioritize. Pilot. Implement. Sustain. | Digital-SCM.com

Purpose and instructions

Use this scorecard to determine whether an AI supply chain initiative is ready for a controlled pilot or enterprise implementation. Complete with business process owners, IT/data leads, Finance and risk/compliance stakeholders. Score each of 10 dimensions from 0 to 4 and document the evidence. Recommended assessment time: 45-60 minutes.

Scoring rubric

Score	Definition
0 - Not assessed	Unknown, absent or no evidence
1 - Fragmented	Manual, unreliable or unowned
2 - Emerging	Partial capability, significant gaps
3 - Ready	Documented, repeatable, owned and measurable
4 - Scalable	Validated, governed, monitored and sustained

Assessment context

Field	Enter details
Business unit / sites	_____
Sponsor / use-case owner	_____
Systems / data landscape	_____
Target decision / process	_____
Assessment date	_____

Score based on observed evidence, not vendor demonstrations or aspirational future-state capabilities.

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AI supply chain readiness scorecard

Ten dimensions; maximum total: 40 points. Record evidence and the owner of remediation.

Dimension	Diagnostic test	Score
Business problem & KPI	Clear decision to improve; cost, cash, service or risk baseline	___
Process standardization	Documented workflows, exception paths and decision rights	___
Data availability	Accessible, sufficiently complete historical and live data	___
Data quality & master data	Accuracy, timeliness, lineage, SKU/site/customer consistency	___
Systems integration	ERP, planning, WMS/TMS and API/batch connectivity	___
Use-case economics	Value hypothesis, implementation cost, payback and Finance owner	___
Model validation	Holdout testing, drift checks, realistic failure scenarios	___
Security & governance	Access, privacy, vendor risk, audit trail, human oversight	___
Workforce adoption	Planners/operators involved, training and escalation defined	___
Operational ownership	Named product owner, monitoring, support and rollback plan	___

Readiness interpretation (working guide)

Score	Recommended next step
0-15	Foundational process and data remediation before an AI pilot
16-25	Narrow pilot after closing high-risk gaps
26-33	Controlled pilot with defined validation and operational guardrails
34-40	Consider phased scaling after demonstrated pilot value

Mandatory gate: Regardless of total score, do not deploy a consequential automated decision without appropriate security, data permissions, validation, human accountability and fallback procedures.

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Use-case prioritization matrix

Rate value and feasibility from 1 (low) to 5 (high); note risk separately. Prioritize strong business cases with manageable implementation risk.

Candidate use case	Value 1-5	Feasibility 1-5	Risk / dependency
Demand forecasting	___	___	_____
Inventory optimization	___	___	_____
Supply disruption alerts	___	___	_____
Planning exception triage	___	___	_____
Supplier risk intelligence	___	___	_____
Logistics ETA / exceptions	___	___	_____

Business case worksheet

Input	Working assumption
Current KPI and baseline	_____
Target improvement and period	_____
Annual gross benefit	_____
One-time and recurring costs	_____
Net benefit and payback	_____
Finance validation owner	_____

Evidence to request

- 12-24 months of relevant demand, orders, inventory, capacity or shipment history where available.
- Data dictionary, master-data quality findings and process maps.
- Exception logs and examples of human overrides.
- Current systems architecture, access controls and integration constraints.
- Baseline cost-to-serve, forecast accuracy, planner effort or service metrics.

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Pilot-to-production roadmap

Phase	Exit criteria
1. Assess	Problem, baseline, data access, risk and accountable sponsor confirmed
2. Design	Use case selected; economic case, test protocol and human oversight approved
3. Pilot	Out-of-sample results vs baseline; failure cases; user feedback; security checks
4. Implement	Integration, training, monitoring, support, rollback and change controls ready
5. Sustain	KPI ownership, drift monitoring, benefit reconciliation and periodic review

Pilot decision record

Decision	Enter response
Use case / executive sponsor	_____
Primary business KPI	_____
Pilot duration / sample	_____
Acceptance threshold	_____
Human approval / fallback	_____
Go / revise / stop decision	_____

What to do next

• Assign remediation owners to every dimension scoring 0-2.

• Choose one narrow use case with accessible data and a measurable business KPI.

• Set acceptance criteria before building or purchasing a solution.

• Compare results to a credible baseline, including adverse scenarios.

• Scale only after Finance and operating owners validate value and controls.

Request an AI readiness discussion

Digital-SCM, LLC | Digital Supply Chain Transformation & AI Assessment / Implementation
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Disclaimer: This is a preliminary planning tool, not a certification of AI safety, compliance or production readiness.

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Submit Your Completed Assessment

Request a confidential consultation

AI Supply Chain Readiness Scorecard

Complete the contact fields below and save this PDF before returning it.
Share only information you are authorized to disclose. Do not email sensitive deal data.

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This worksheet is a preliminary assessment, not investment, legal or compliance advice.