



Connecting Buyers & Suppliers Globally

Global Sourcing Playbook

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Global Sourcing Playbook

Global sourcing & supply chains have come under the spotlight with the developments over the last few years with tariffs, geopolitics & in general, lots of trade disruptions.

This playbook will walk you through the following:

- Supply Chain Strategy & Foundations – when to global source vs nearshore or localize
- Regional deep dives across India, Vietnam, Mexico, Europe with cluster maps
- Supplier Discovery & Qualification – where to find suppliers, auditing & vetting suppliers
- Risk Management – diversification strategies & resilience tactics
- Benchmarking – cost drivers for mechanical components (raw material indexes) & global pricing benchmarks (India vs China vs Europe vs Mexico)
- Logistics – shipping modes, transport times, & incoterms simplified
- Actionable Templates & Checklists – supplier audit checklist, RFQ templates, Supplier RFI Questionnaire

Supply Chain Strategy & Foundations

- **Cost advantage – global sourcing offers lower unit/component costs** (labor, raw materials). However, savings must outweigh the logistics, tariffs & carrying costs.
- **Access to capabilities:** Some specialized processes are only available at scale in certain geographies
- **Lead Times & Agility:** nearshoring/local sourcing reduces lead times, improves responsiveness → lower working capital tied up in inventory
- **Risk Diversification:** Over-reliance on any one geography exposes significant risk from supply chain disruptions, tariffs, geopolitical shocks
- **Customer Requirements:** Some OEMs (especially in automotive/energy) are pushing for local content requirements to reduce geopolitical exposure & meet government mandates

When global sourcing makes sense → unit cost savings are greater than 20%, specialized manufacturing is required & longer lead times can be absorbed

When nearshoring makes sense → speed-to-market, inventory flexibility, risk diversification are higher priorities than pure unit or landed cost

Most procurement mistakes happen when buyers chase the lowest unit price without factoring in the true cost of sourcing globally.

Key TCO (total cost of ownership) Components to Consider:

- **Unit Price:** Base supplier quote.
- **Logistics:** Freight, shipping mode, port fees, insurance.
- **Tariffs & Duties:** Country-specific tariffs (especially US–China, EU–Asia).
- **Lead Time Costs:** Higher inventory and working capital if lead times are long.
- **Quality Costs:** Scrap, rework, warranty claims, and inspection expenses.
- **Risk Premiums:** Disruptions, single-source risk, currency volatility.

Example: A die casting sourced from Asia may look 20% cheaper on unit price but once you add:

- + 8% tariffs,
- +12% logistics + insurance,
- +4% carrying costs (inventory for 45 days),
- +3% rework cost (quality issues)

.....the landed TCO for this becomes very comparable to sourcing in North America.



Takeaway: Global Sourcing isn't always cheaper. Smart procurement teams balance cost savings, risk, resilience & speed-to-market by applying a TCO lens and aligning sourcing with business priorities

Regional Deep Dives

India

Foxconn (Apple supplier) to invest \$1.5 billion in India manufacturing unit. Micron invested \$2.7 billion in India chip testing plant.

Best-fit capabilities (industrial/metal)

- Iron/steel castings & forgings, precision CNC machining, sheet-metal stampings, fabrications, motor sub-assemblies, wiring harnesses, tooling, jigs/fixtures
- Strong auto clusters: Pune/Chakan, Chennai/Oragadam, Gujarat/Sanand, Delhi/NCR – deep vendor bases for automotive, off-highway. Energy hardware

Strengths

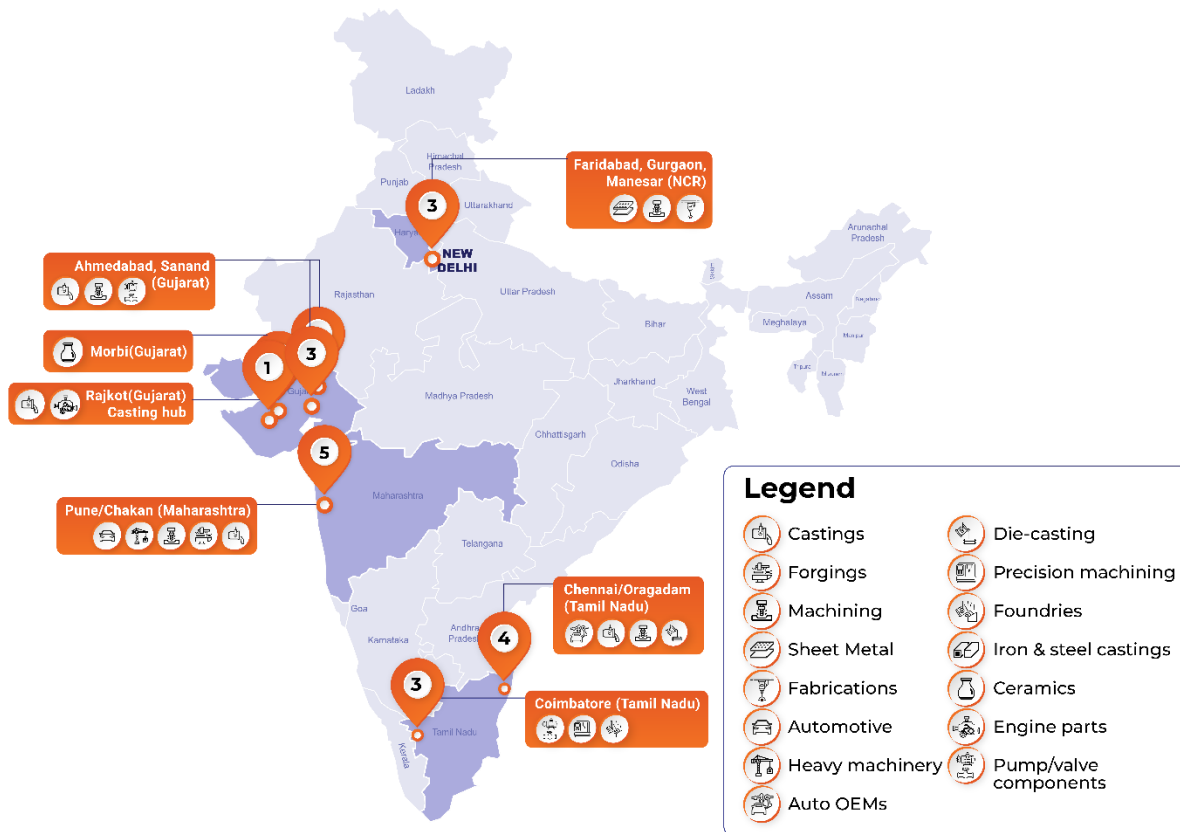
Cost competitiveness at scale; English-speaking engineering talent; maturing quality systems (ISO/IATF common); improving logistics + policy tailwinds (production-linked incentive schemes, infrastructure development)

What to watch out for

Longer ocean lead times vs nearshoring; variable subject matter expert quality consistency; onboarding & PPAP cycles can be slower without on-site support

Manufacturing Clusters

- **Pune/Chakan (Maharashtra):** Auto, heavy machinery, castings/forgings, machining
- **Chennai/Oragadam (Tamil Nadu):** Auto OEMs, castings, machining, die-casting
- **Gujarat (Sanand, Rajkot, Ahmedabad):** Castings (Rajkot = casting hub), machining, pump/valve components
- **NCR (Faridabad, Gurgaon, Manesar):** Sheet metal, machining, fabrications
- **Coimbatore (Tamil Nadu):** Pumps, valves, precision machining, foundries
- **Morbi/Rajkot (Gujarat):** Iron & steel castings, ceramics (Morbi), engine parts



Vietnam

PepsiCo invested \$400 million to build two renewable-energy power plants in Vietnam. Apple has doubled its annual spending in Vietnam since 2019 with over 200,000 jobs across 28 factories.

Best-fit capabilities (industrial/metal)

- Die-casting for housings/brackets, sheet metal & light fabrications, wire harnesses, motor/winding, plastics + insert molding, EMS/box-build
- Particularly strong for electronics-adjacent metal parts and light/medium complexity assemblies

Strengths

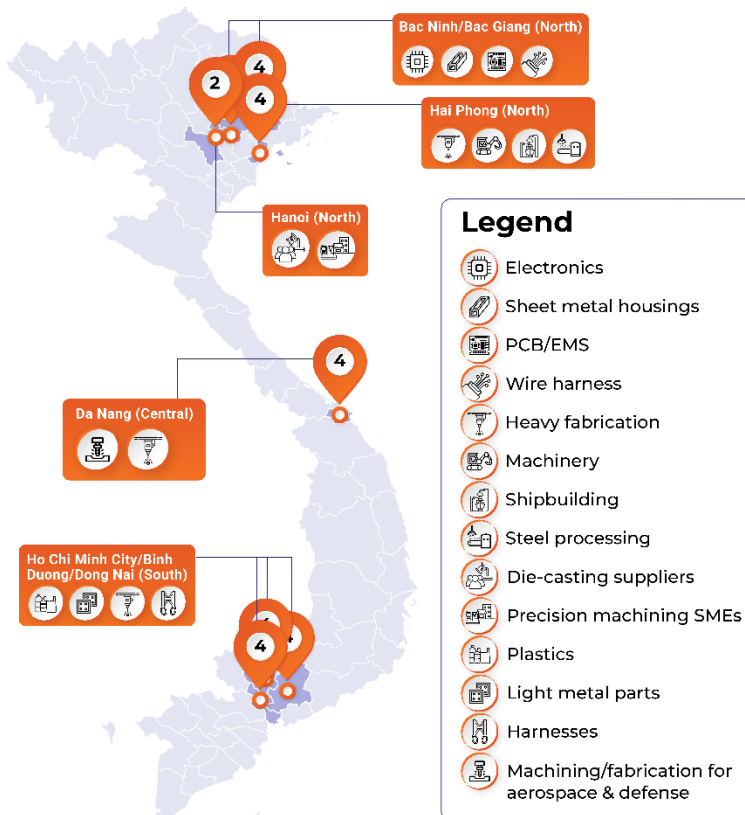
Competitive labor costs; robust FDI ecosystem; strong FTA's benefitting EU/Asia trade lanes; quick adoption of quality systems

What to watch out for

Power reliability can be episodic; heavy castings/forgings depth is greater in places like India/Mexico; rising wages; some reliance on imported steel/aluminum inputs

Manufacturing Clusters

- **Bac Ninh / Bac Giang (North):** Electronics + sheet metal housings, PCB/EMS, wire harness
- **Hai Phong (North):** Heavy fabrication, machinery, shipbuilding, steel processing
- **Hanoi (North):** Precision machining SMEs, die-casting suppliers
- **Ho Chi Minh City / Binh Duong / Dong Nai (South):** Plastics, light metal parts, fabrications, harnesses
- **Da Nang (Central):** Smaller base; machining/fabrication for aerospace & defense



Europe

Intel invested \$11 billion in semiconductor chip manufacturing plant in Ireland. Recently, GE Aviation invested \$64 million to expand its manufacturing facility in Poland.

Best-fit capabilities (industrial/metal)

- High-precision machining, tight-tolerance die castings (Aluminum, Zinc, Magnesium), Tools/Dies, complex fabrications, motion & powertrain sub-assemblies, robotics/automation integration
- Ideal for safety-critical and compliance-heavy components (auto, energy, power)

Strengths

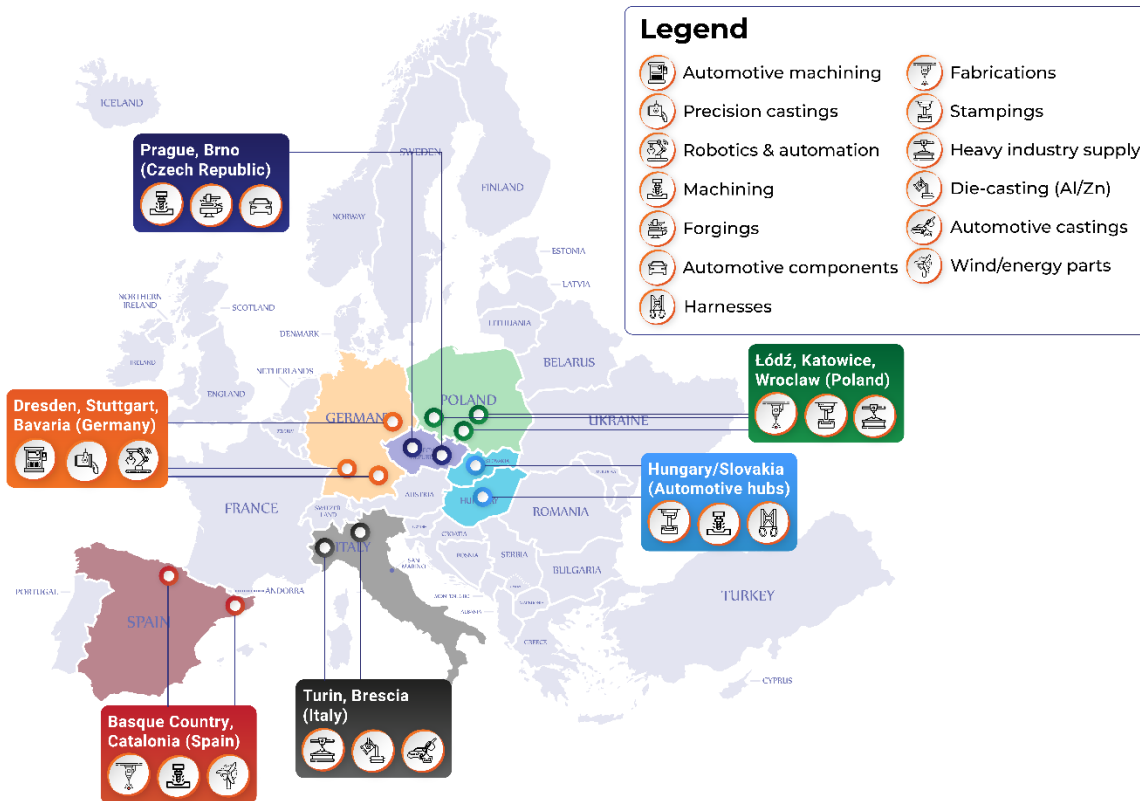
World-class quality/traceability, strong IP/regulatory regime; short EU lead times; engineering collaboration; advance materials know-how

What to watch out for

Heavier piece-price, energy costs in some markets; capacity constraints in peak cycles; higher MOQs for some specialty processes

Manufacturing Clusters

- **Germany (Dresden, Stuttgart, Bavaria):** Automotive machining, precision castings, robotics & automation
- **Czech Republic (Prague, Brno):** Machining, forgings, automotive components
- **Poland (Łódź, Katowice, Wroclaw):** Fabrications, stampings, heavy industry supply
- **Italy (Brescia, Turin):** Die-casting (Al/Zn), machining, automotive castings
- **Spain (Basque Country, Catalonia):** Fabrications, machining, wind/energy parts
- **Hungary / Slovakia:** Automotive hubs (stamping, machining, harnesses)



Mexico

Tesla announced \$10+ billion Gigafactory near Monterrey. FDI in Mexico rose to \$36 billion in 2023 (highest ever) with ~50% of that invested in manufacturing.

Best-fit capabilities (industrial/metal)

- Stampings (progressive/transfer), structural weldments, machining (medium-heavy), die casting, wire harnesses, injection molding, extrusions, strong automotive tier base across Bajío & Nuevo Leon

Strengths

USMCA duty benefits; 1-2 week trucking lead times to US; bilingual engineering talent; deep automotive ecosystem; flexible MOQ's vs Asia

What to watch out for

Wage inflation in hot clusters; security in specific corridors (manage via vetted 3PL's); certain specialty alloys still imported; onboarding slots can be tight due to nearshoring demand

Manufacturing Clusters

- **Nuevo León (Monterrey, Pesquería):** Automotive stampings, castings, forgings, Ternium steel, Nidec EV motors
- **Bajío (Querétaro, San Luis Potosí, Guanajuato):** Automotive OEMs, machining, castings, aerospace machining (Querétaro)
- **Coahuila (Saltillo, Torreón):** Auto components, castings, stampings, fabrications
- **Chihuahua:** Aerospace machining, die-casting, electronics assembly
- **Sonora:** Aerospace/defense castings & machining
- **Puebla:** Auto OEMs, sheet metal stampings



Supplier Identification & Qualification

Where to find suppliers

- **Marketplaces & Databases:** global supplier discovery platforms (ThomasNet, TaiwanTrade, IndiaMart, MESH Works, etc.)
- **Industry Associations & Trade Shows:** Auto Expo (India), Euroguss (Europe)
- **Cluster-Specific Outreach:** engage directly in known regional hubs
- **Government & Export Promotion Boards:** India's EPCC, Vietnam Trade Promotion Agency, ProMexico

Framework for Qualification

Initial Screening →

- Capability check: Do they produce the specific commodity/process that's needed?
- Certifications: ISO 9001, IATF 16949 (auto), AS9100 (aerospace), ISO 14001
- References: Client base (OEMs, Tier 1s)
- Financial health: Credit check, years in business, major export markets

Deeper Qualification →

- RFQ benchmarking: Compare quotes across at least 3 suppliers per category
- Technical data & manufacturing capability review: Evaluate drawings, tolerances, past projects
- Capacity & Scalability: Ask about maximum monthly volume, peak load handling, new investment willingness
- Cultural/Communication Fit: Responsiveness, language proficiency, ability to work across time zones

Auditing & Vetting Suppliers

Audit Questions Checklist:

- **Manufacturing - Plant, Equipment, Processes** (product flow, work instructions, machine condition, current technologies, overall housekeeping)
- **Manufacturing Support Processes** (capacity utilization, custom tooling, production planning processes, on-time delivery performance)
- **Quality** (formal corrective/preventive action process, materials receipt/inspection process, finished goods inspection process, testing & measuring equipment)

- **Engineering** (APQP/project management procedures, production samples & test runs, engineering teams English skills, design tools used)
- **Logistics** (average lead times, export experience, packaging)

[Click here](#), to download a full 45 question Sourcing Assessment Questionnaire along with rating criteria for each question on a 1-5 scale!

Takeaway: Finding suppliers is easy; qualifying the right partners requires structured frameworks, audits & continuous vetting. Procurement leaders should build repeatable processes so sourcing teams can scale supplier discovery without sacrificing quality or compliance.

Risk Management & Resilience

Procurement teams need to have a structured way to identify, measure & mitigate risks. A simple but effective model is the RPN (Risk Priority Number) or weighted scoring methods.

Just the same as you do with FMEA in manufacturing, we have to find the failure modes & effects analysis for our supply chain & procurement footprint.

Risk Dimensions to Score (1-5 scale each):

- **Geopolitical Risk:** tariffs, sanctions, trade restrictions
- **Supply Market Risk:** supplier concentration, dependence on single-source or region
- **Operational Risk:** supplier capacity constraints, labor availability, quality consistency
- **Financial Risk:** supplier solvency, raw material volatility
- **Logistics Risk:** port congestion, long lead times, customs complexity
- **ESG/Compliance Risk:** labor practices, environmental laws, customer-mandated ESG reporting

*Risk Priority Number (RPN) = Probability * Impact * Detection. Higher = more urgent to address.*

Types of Risk in Global Sourcing

- **Country Risk:** political instability, currency volatility, policy changes
- **Supplier Risk:** bankruptcy, capacity shortage, poor quality systems
- **Logistics Risk:** freight cost spikes, shipping delays, customs issues
- **Technology/IP Risk:** counterfeiting, IP theft, design leaks
- **ESG/Regulatory Risk:** forced labor concerns, carbon footprint reporting, REACH/RoHS compliance
- **Force Majeure:** natural disasters, pandemics, strikes

Diversification Strategy Examples

- Geographic Diversification
 - Don't over rely on any one country
 - China+1 strategy: add India, Vietnam or Mexico
 - For critical components, split 70/30 across regions
- Supplier Base Diversification

- Dual sourcing for key components
- At least 2 qualified suppliers per critical commodity
- Balance between global suppliers (scale) and local/nearshore suppliers (agility)
- Customer-Driven Blueprint Example
 - An automotive Tier 1 buys forgings:
 - 60% from India (cost competitiveness, long lead time)
 - 25% from Mexico (fast replenishment, USMCA duty benefits)
 - 15% from domestic US suppliers (critical spares, low MOQ, fast delivery)
 - This mix balances cost savings, risk coverage & flexibility/agility.

Resiliency Tactics in Supply Chains

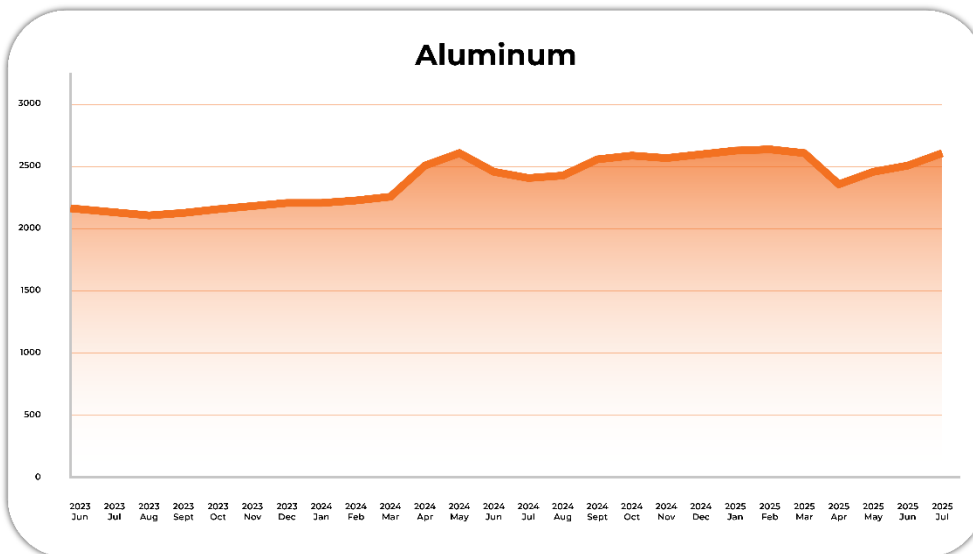
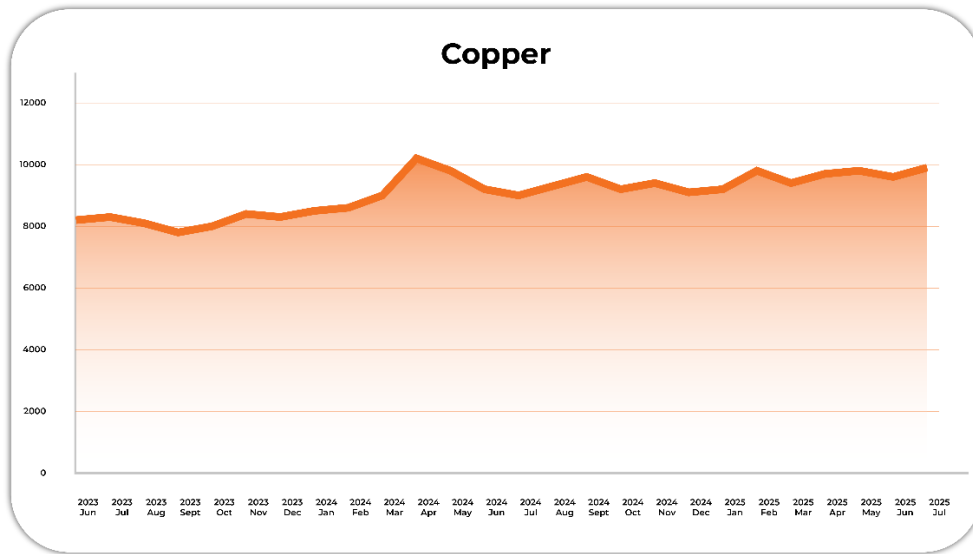
- **Safety stock buffers:** strategic inventory for high-risk parts (calculate based on supplier reliability + lead times)
- **Supplier Collaboration:** share forecasts, co-invest in tooling, incentivize capacity reservation
- **Multi-Modal Logistics:** develop air + sea contingency plans
- **Onshoring Critical Items:** for highly specialized or critical-to-production parts
- **Digital Monitoring:** Use dashboards to monitor supplier performance, lead times, & disruptions in real-time
- **Scenario Planning:** simulate tariff hikes, port closures, or raw material spikes & build plans for each
- **Contractual Levers:** service level agreements, penalties for late delivery, and clauses for currency/tariff pass-through

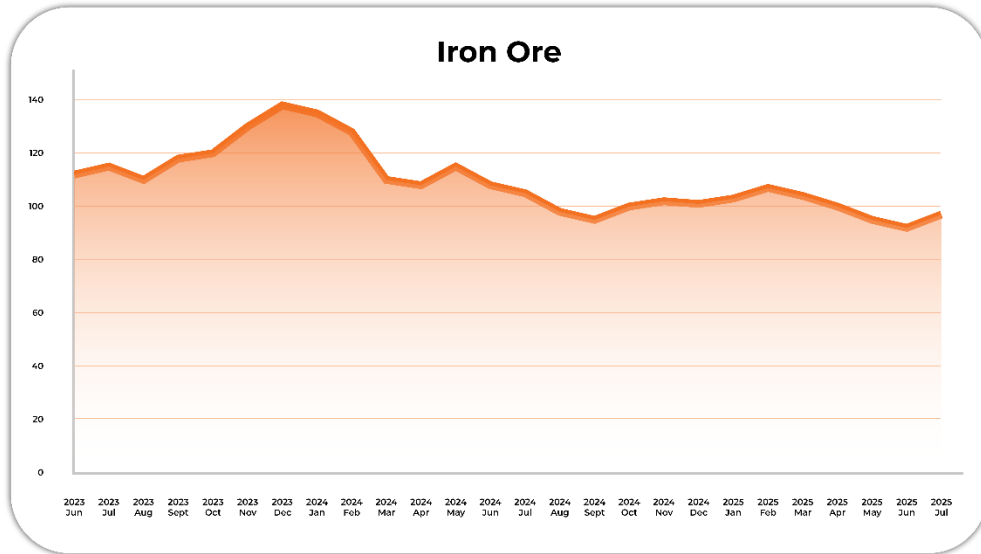
You can utilize sourcing companies who specialize in this like [Zetwerk](#), [MES Inc](#), [EQI Ltd](#), [Bombay Metrics](#) & many more.

Takeaway: Supply chain resilience isn't about avoiding all risks – it's about knowing where the vulnerabilities are, diversifying intelligently, and building playbooks that let you respond fast when disruptions happen.

Cost Benchmarking

Raw Material Price Graphs





Labor Pricing Benchmarks

According to the International Labor Organization, here are the minimum wages by country:

Country	Monthly Minimum Wage
India	\$233 USD
China	\$544 USD
Vietnam	\$693 USD
Poland	\$2,075 USD
Mexico	\$589 USD
United States	\$1,257 USD

Shipping & Logistics




Ocean Freight

Country	Days
India to US East	35-42 days
India to US West	28-35 days
Vietnam to US East	25-35 days
Vietnam to US West	20-25 days
China to US East	15-25 days
China to US West	45-55 days
Europe to US	10-15 days
India to Mexico	35-37 days
Vietnam to Mexico	25-35 days
China to Mexico	25-45 days

Air Freight

Between 2-7 days from Asia to the US with costs around 5-10x compared to Ocean

Incoterms Overview

Types of Transport	 Any Mode or Modes of Transport	 Sea and Inland Waterway Only	 Any Mode or Modes of Transport	
	EXW	FOB	CIF	DDP
INCOTERMS 2020	Ex Works (place)	Free On Board (port)	Cost, Insurance & Freight (port)	Delivered Duty Paid (place)
Transfer of Risk	At Buyer's Disposal	On Board Vessel	On Board Vessel	At Named Place
Responsibilities & Charges				
Export Packaging	SELLER	SELLER	SELLER	SELLER
Loading Charges	BUYER	SELLER	SELLER	SELLER
Delivery to Port/Place	BUYER	SELLER	SELLER	SELLER
Export Duty, Taxes & Customs Clearance	BUYER	SELLER	SELLER	SELLER
Origin Terminal Handling Charges	BUYER	SELLER	SELLER	SELLER
Loading on Carriage	BUYER	SELLER	SELLER	SELLER
Freight Charges	BUYER	BUYER	SELLER	SELLER
Insurance	NEGOTIABLE	NEGOTIABLE	SELLER	NEGOTIABLE
Destination Terminal Handling Charges	BUYER	BUYER	BUYER	SELLER
Delivery to Destination	BUYER	BUYER	BUYER	SELLER
Unloading at Destination	BUYER	BUYER	BUYER	BUYER
Import Duty, Taxes & Customs Clearance	BUYER	BUYER	BUYER	SELLER




Thank You

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