

# Supply Chain Risk Management Dashboard – GlobalLogiX

Power BI Skill Test Presentation

Ellina Dutta\_CPDA\_B4



Made with GAMMA

# Understanding GlobalLogiX: Our Foundation and Challenges

**GlobalLogiX** is a multinational leader in supply chain management, orchestrating the complex flow of goods from procurement to warehousing, logistics, and returns. Our global footprint demands precision and resilience in every operation.

## Key Operational Challenges:

- Supplier risks jeopardizing sourcing continuity.
- Shipment delays impacting delivery schedules and customer satisfaction.
- Inventory shortages leading to missed sales opportunities.
- High return costs eroding profitability.



# Supplier Risk Deep Dive: Identifying Critical Vulnerabilities

## Overall Risk Score

Average supplier risk score is **74.44**, indicating a moderately high level of potential disruption within our supplier network.

## Critical Suppliers Flagged

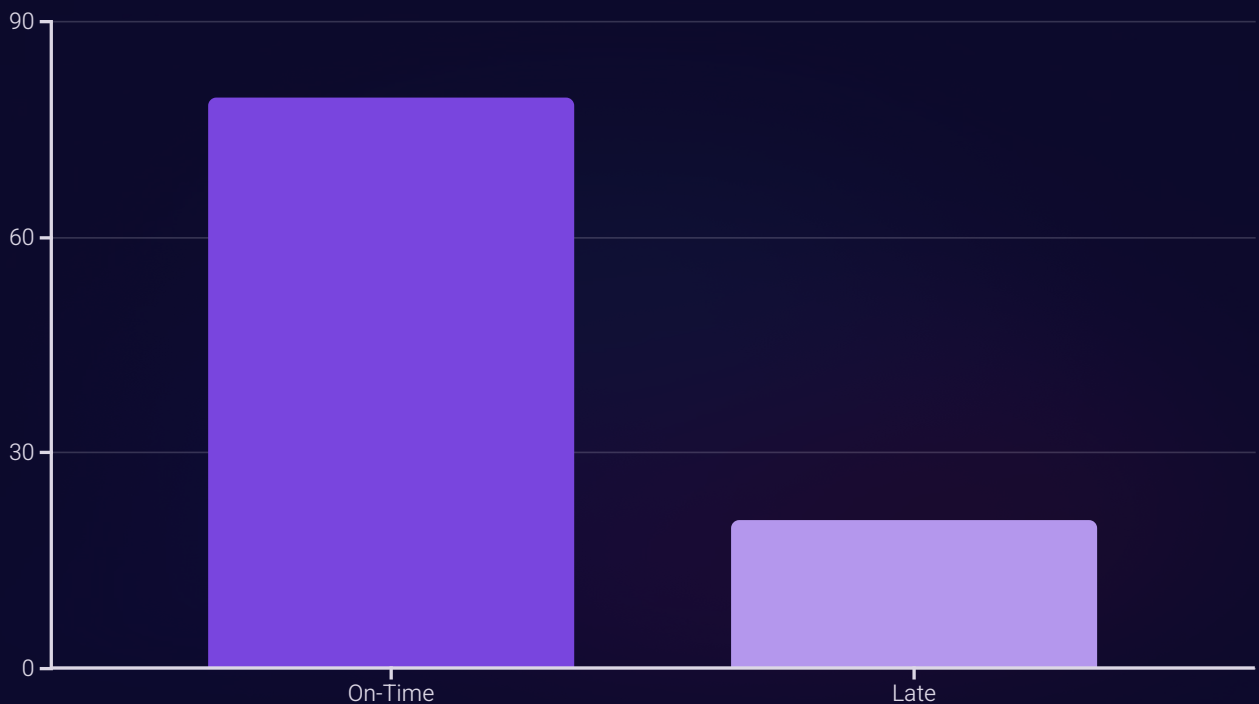
Several suppliers exhibit a risk score **> 80** and a reliability rating of **1** (lowest), categorizing them as **critically high risk**.

## Geographic Concentration

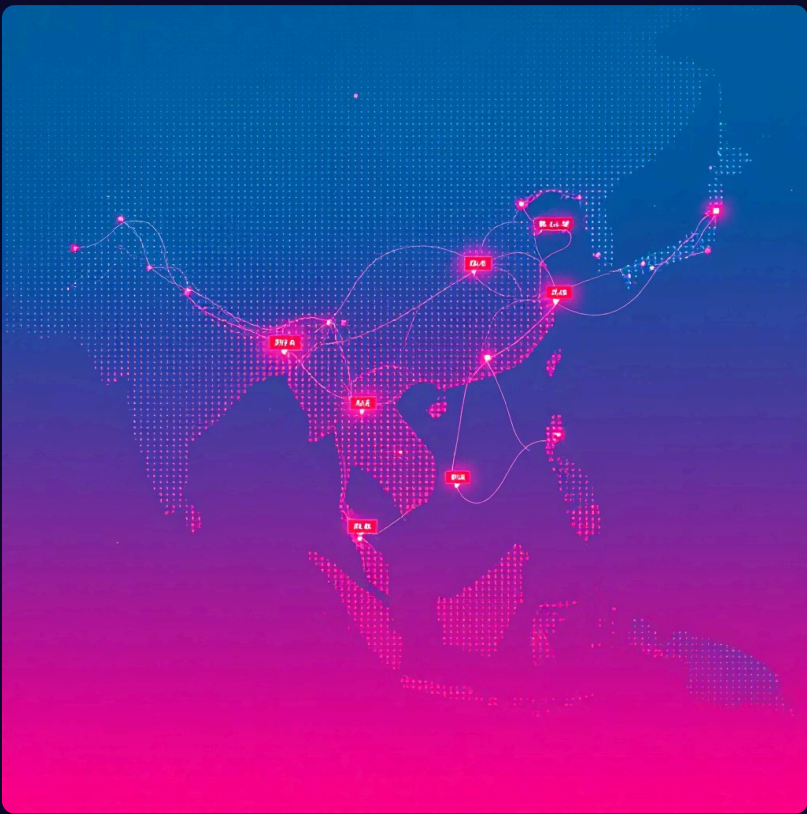
High-risk suppliers are geographically diverse, concentrated across key regions including **China, and Germany**, demanding a multi-faceted mitigation strategy.



# Shipment Performance: Unpacking Delays



While the average delay is only **1.02 days**, a significant **20.54% of all shipments** are arriving late. This means 1 in 5 shipments experiences delays, impacting overall efficiency and customer satisfaction.



## Regional Impact:

Regions like **China** show a disproportionately higher impact from shipment delays compared to our operations in Europe and the US, indicating a need for targeted logistical improvements.

# Inventory Stock Monitoring: Proactive Stock-Out Prevention

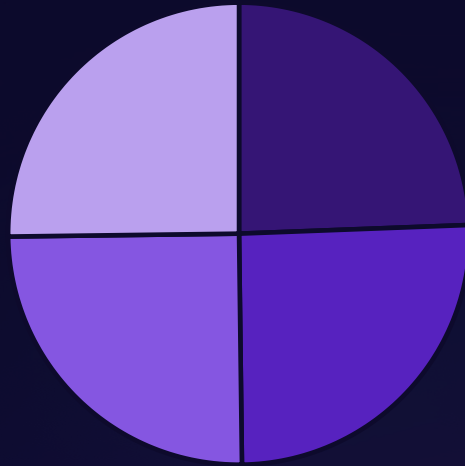
Our analysis reveals critical low stock levels at several key warehouses, posing a significant risk of stock-outs and potential disruptions to our supply chain. Proactive replenishment planning is essential to maintain operational fluidity.

1	Warehouse W0167 Flagged for low stock, requiring immediate attention.
2	Warehouse W0332 Inventory below minimum threshold.
3	Warehouse W0419 Potential for stock-out without replenishment.
4	Warehouse W0485 Critical low levels detected.
5	Warehouse W0725 Urgent need for inventory review.
6	Warehouse W01752 At risk of supply disruption.

**Action:** Implement robust replenishment planning to prevent supply disruptions and ensure continuous product availability.



# Return Analysis: Pinpointing Process Issues



■ Wrong Product   ■ Quality Issues   ■ Damaged Items   ■ Late Delivery

Our return data indicates a near-even distribution across the top four categories: **Wrong Product (1.22K)**, **Quality Issues (1.27K)**, **Damaged Items (1.25K)**, and **Late Delivery (1.26K)**. This even spread suggests that the root causes of returns are not isolated to a single point but rather reflect systemic process issues spanning multiple touchpoints within our supply chain. Addressing these will require a holistic approach.



## Global Delivery

Global delivery performance  
Delivery performance map



10.50%

Delivery performance

# Region-Wise Delivery: Geographic Performance Highlights

Our delivery performance shows strong on-time rates in established markets, but also highlights areas requiring immediate operational focus to mitigate delays.



## Strong Performers

Regions like **Paris, Sydney, and New York** consistently demonstrate high on-time delivery rates, showcasing efficient logistical operations and strong local partnerships.



## Areas for Improvement

**Mumbai and London** are experiencing a higher incidence of delayed deliveries. These regions require immediate operational attention and a review of local logistics to improve efficiency.



## Targeted Interventions

Focused efforts in **India and the UK** are crucial to align their delivery performance with global standards and enhance overall customer satisfaction.

# Supplier Performance KPIs: Averages and Critical Clusters

A closer look at our key performance indicators for suppliers reveals both overall trends and specific areas of concern that demand immediate strategic intervention.

74.44

Avg Risk Score

A moderately high score indicating the need for continuous vigilance across our supplier base.

1.02

Avg Delay (Days)

While seemingly low, this average can still impact overall supply chain fluidity and customer satisfaction.

2.5

Avg Reliability

Suggests our suppliers are not consistently dependable, highlighting a need for improved quality assurance and partnership management.

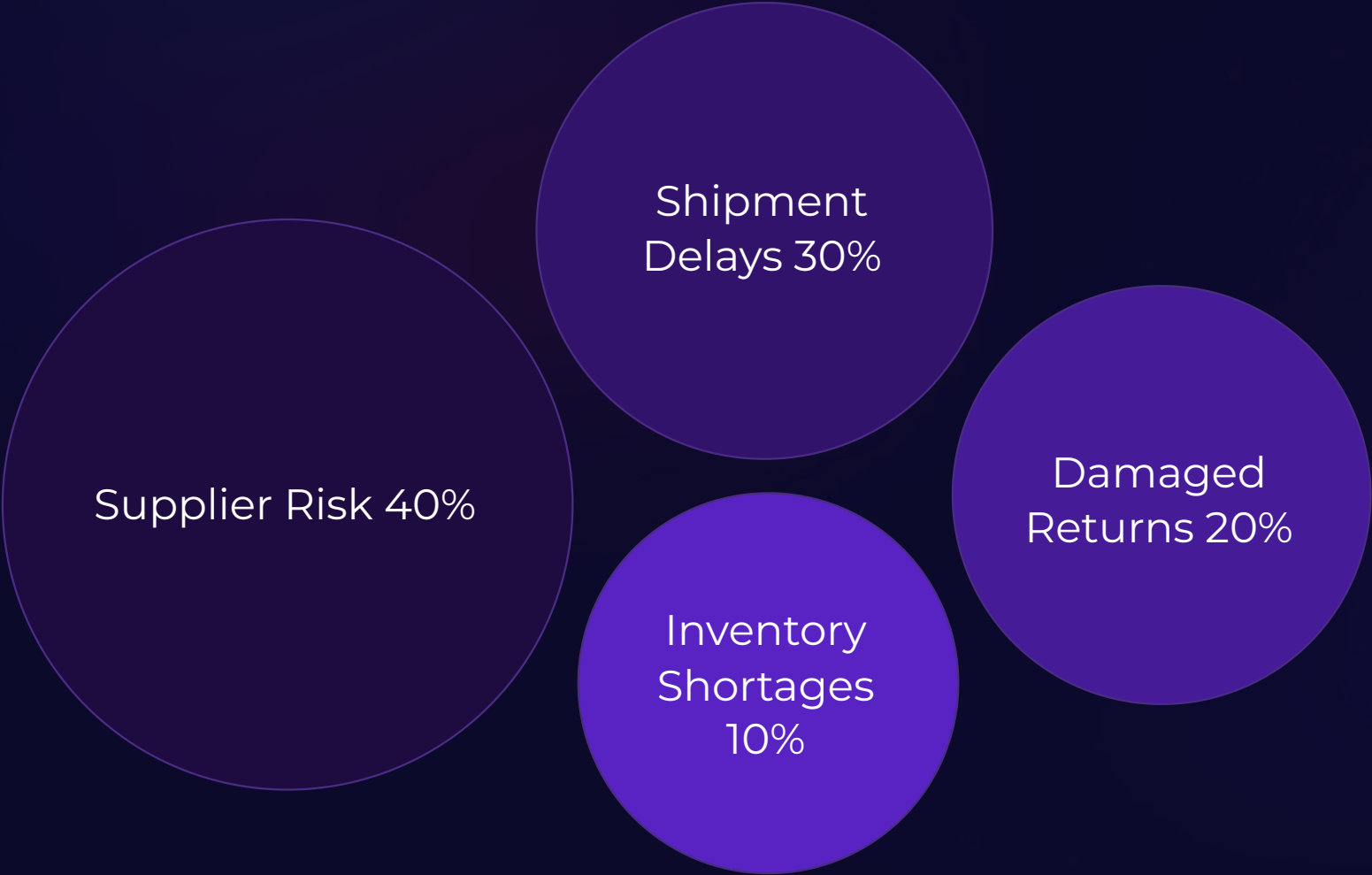
⊗ **Critical Cluster Identified:** Filtering by high-risk scores (>80) and low reliability (<3) uncovers a clear cluster of underperforming suppliers that require immediate action and potential re-evaluation.





# Composite Risk Score: An Advanced Holistic View

Our advanced weighted model provides a holistic composite risk score, integrating key supply chain vulnerabilities to offer a clearer picture of regional risk exposure.



The model reveals China, Germany **exhibits the highest composite risk (represented in red on the map)**, primarily driven by high-risk suppliers and persistent shipment delays in the region. Conversely, Europe and North America appear relatively stable (green/yellow), indicating more robust supply chain operations.

# Strategic Insights & Recommendations: Charting the Path Forward

## Overall Insights:

- **Multi-dimensional Risks:** Supply chain risks are complex, with supplier reliability as the primary contributor.
- **Key Contributors:** Shipment delays and damaged returns together account for nearly 50% of our identified issues.
- **Critical Shortages:** While less frequent, inventory shortages pose significant, critical disruptions when they occur.

## Actionable Recommendations:

- **Supplier Mitigation:** Prioritize high-risk suppliers (Risk > 80, Reliability < 3) with targeted mitigation plans.
- **Quality Enhancement:** Implement stricter quality control checkpoints to reduce "wrong product" and "quality issue" returns.
- **Logistics Optimization:** Improve logistics infrastructure and processes specifically in Asia, UK, and India regions.
- **Proactive Replenishment:** Develop and implement demand-driven inventory planning for low-stock warehouses.
- **Continuous Monitoring:** Utilize the [Composite Risk Score](#) as a core KPI for ongoing monitoring in management dashboards.