# Report

## 1. Inventory Management

Shows current stock, safety stock, and reorder levels.

Total inventory value: $4.78K , Revenue: $577.6K.

Mumbai holds the highest inventory; Delhi the lowest.

Monthly data shows seasonal inventory patterns.

## 2. Order Fulfillment

Tracks how efficiently orders are processed and delivered.

Fulfilled Orders: 46 , Pending Orders: 54.

On-time delivery rate: 54%.

Mid-year shows peak fulfillment activity.

Highlights areas needing faster coordination between inventory and logistics.

## 3. Supplier Performance

Measures supplier reliability and quality.

Avg Manufacturing Lead Time: 15 days.

Avg Delivery Time: 16 days.

Avg Defect Rate: 2.3%.

Supplier 3 & 5 deliver faster and more consistently.

Overall supplier performance is steady across the years.

## 4. Transportation Efficiency

Evaluates delivery performance and carrier effectiveness.

Avg Shipping Time: 6 days , On-Time Deliveries: 54%.

Late Deliveries: 46 - needs review of routes and schedules.

Carrier B performs slightly better than others.

## 5. Supply Chain Costs

- Tracks overall and category-wise costs.

- Total Cost: $52.92K | Manufacturing Cost: $4.73K.

- Main cost drivers: Shipping and Other expenses.

- Monthly costs fluctuate due to demand and supplier changes.

## Role of the Dashboard

- Gives a complete view of the company's supply chain performance.

- Tracks inventory, orders, suppliers, transport, and costs in one place.

- Helps management make faster, data-based decisions.

- Reduces delays, avoids stockouts, and controls unnecessary costs.

# INVENTORY MANAGEMENT

| Inventory Level | Total Revenue | Safety Stock | Recorder Point | Availability | Total Cost |
|---|---|---|---|---|---|
| **5K** | **$577.60K** | **22.52K** | **7.87K** | **4840** | **$52.92K** |

## Current Inventory levels by Product and Warehouse

● Bangalore ● Chennai ● Delhi ● Kolkata ● Mumbai

**Haircare**: 397 | 381 | 191 | 484 | 191

**Skincare**: 233 | 268 | 202 | 636 | 269

**Cosmetics**: 226 | 150 | 358 | 319 | 472

## Inventory Level by Year

**Invertory Level Over Time**

- 2023: 1,818
- 2024: 1,651
- 2025: 1,308
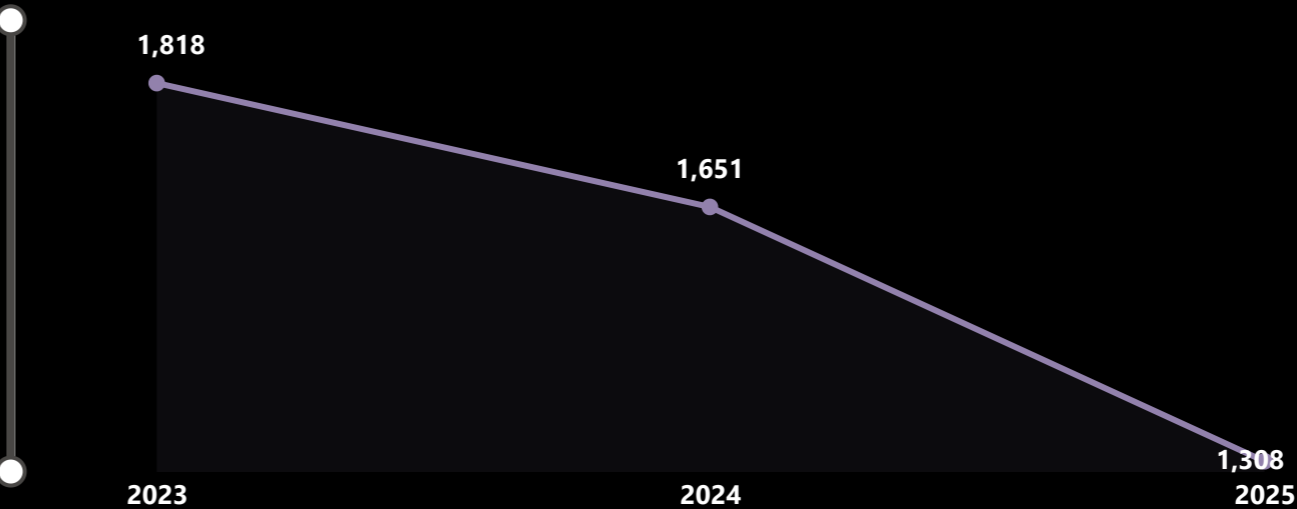
## Inventory Level by Month

**Inventory Level Over Time**

- Jan: 368
- Feb: 197
- Mar: 425
- Apr: 821
- May: 225
- Jun: 233
- Jul: 635
- Aug: 306
- Sep: 256
- Oct: 579
- Nov: 441
- Dec: 291
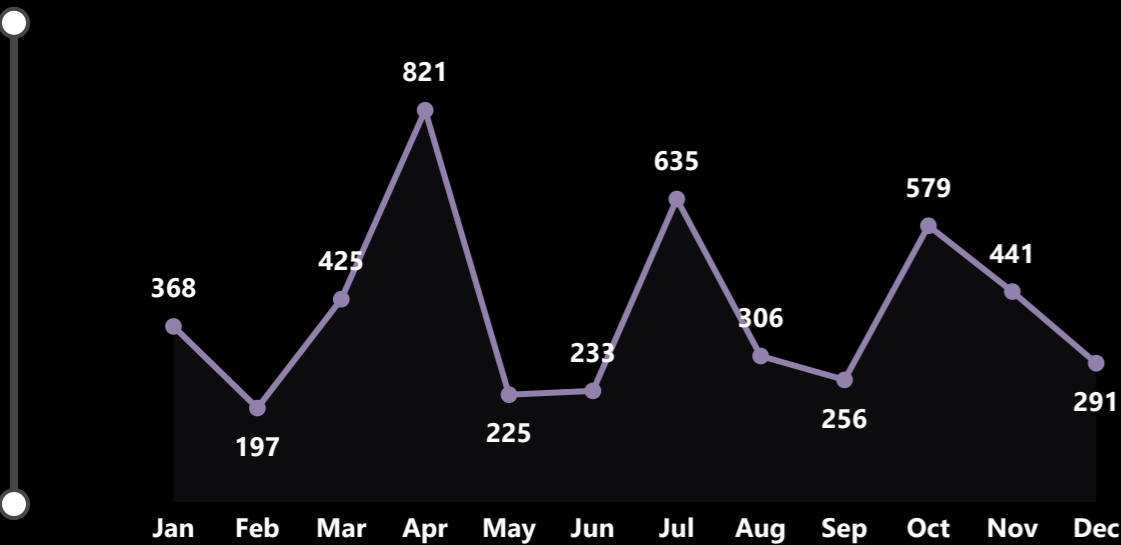
## Inventory Level by Day

**Inventory Level Over Time**

- Sun: 1,064
- Mon: 501
- Tue: 772
- Wed: 647
- Thu: 595
- Fri: 648
- Sat: 550
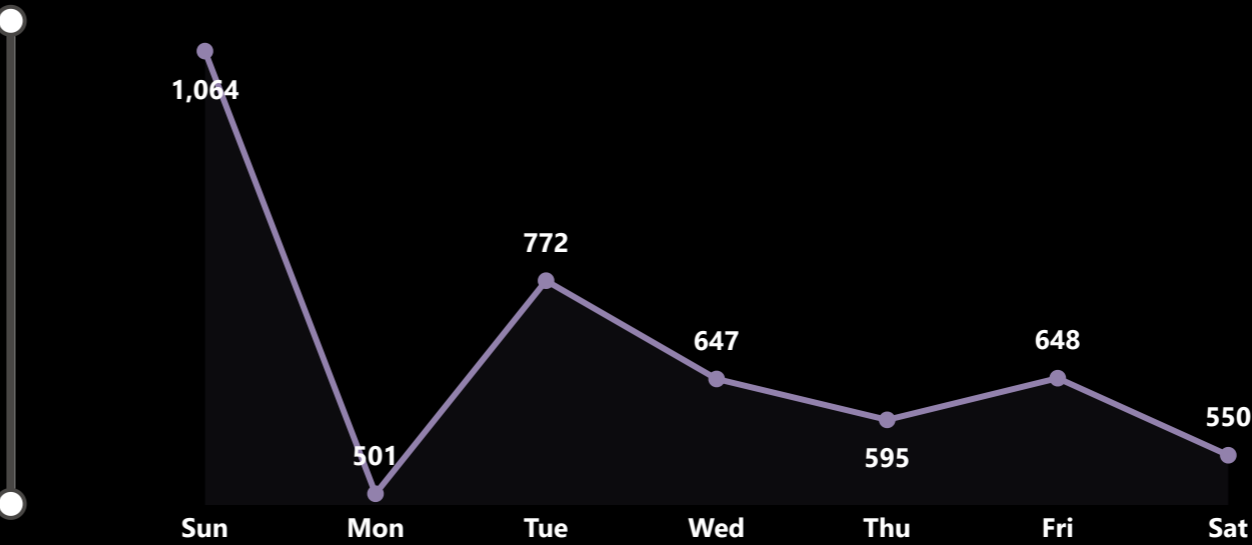
**Report 1**

**Report 2**

**Report 3**

**Order Fullfillment**

**Supplier Performance Fullfillment**

**Transportation Efficiency**

**Supply Chain Costs**

# ORDER FULLFILLMENT

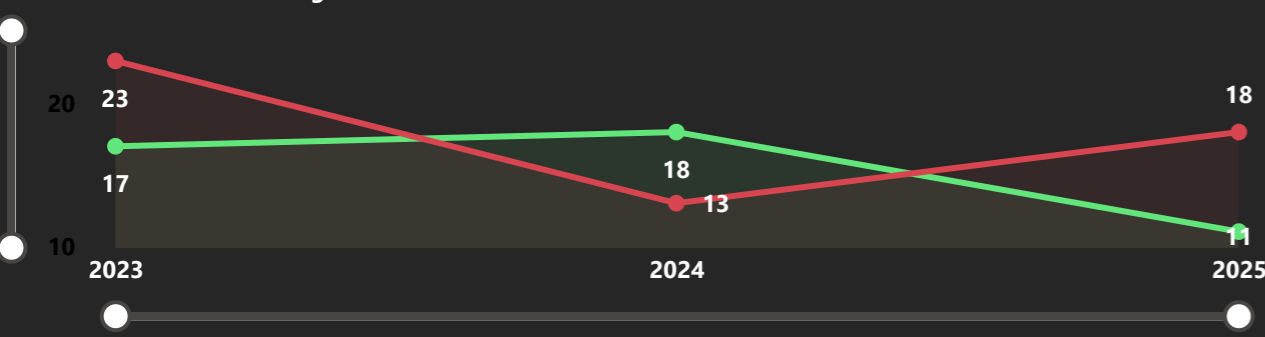| Inventory Level | Total Revenue | Fulfilled Orders | Pending Orders | Availability | Delivery Rate |
|---|---|---|---|---|---|
| 5K | $577.60K | 46 | 54 | 4840 | 54.00% |

## Order Fulfillment by Year
**Order Fulfillment Over Time**

● Fulfilled Orders  ● Pending Orders



- 23, 17 (2023)
- 18, 13 (2024)
- 18, 11 (2025)

## Order Fulfillment by Month
**Order Fulfillment Over Time**

● Fulfilled Orders  ● Pending Orders



Jan 3/3, Feb 2/2, Mar 6/4, Apr 8/7, May 3/2, Jun 6/1, Jul 7/6, Aug 6/1, Sep 5/2, Oct 6/6, Nov 6/4, Dec 4
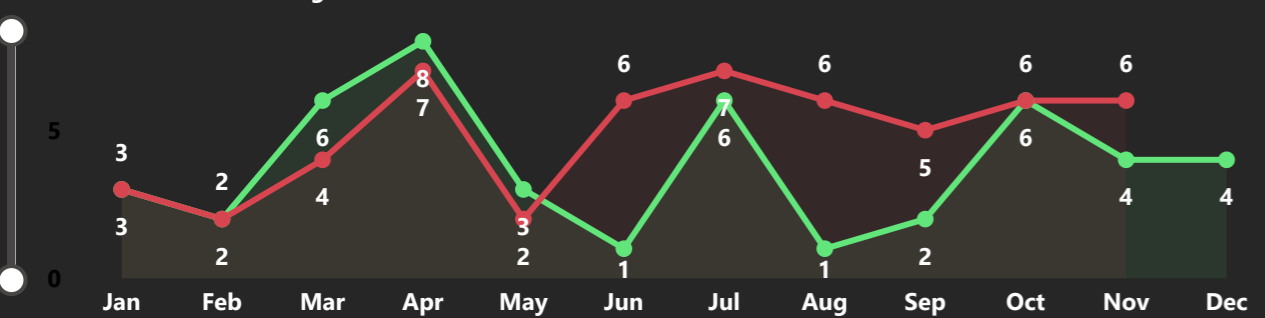
## Order Fulfillment by Day
**Order Fulfillment Over Time**

● Fulfilled Orders  ● Pending Orders



Sun 13/8, Mon 5/5, Tue 12/5, Wed 10/5, Thu 5/7, Fri 7/7, Sat 7/4
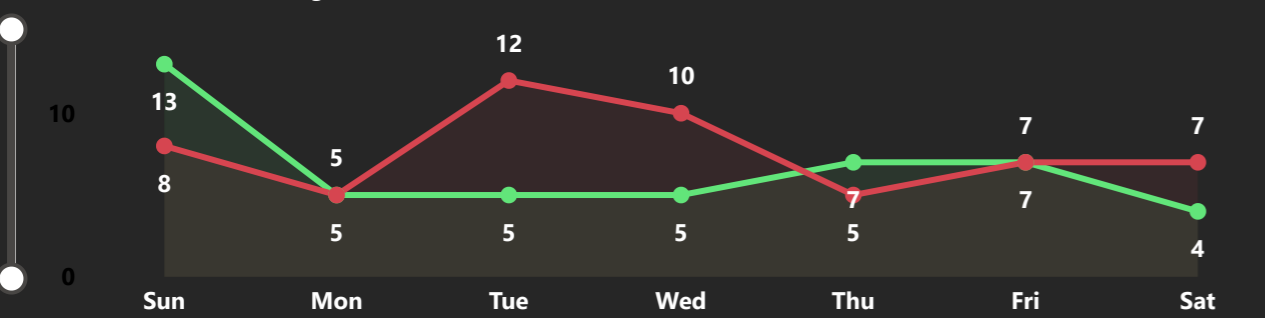
## On-time delivery rates by Product & Locations



- **Skincare:** 66.67%, 77.78%, 53.85%, 28.57%
- **Cosmetics:** 66.67%, 80.00%, 50.00%, 25.00%
- **Haircare:** 55.56%, 50.00%, 37.50%, 28.57%
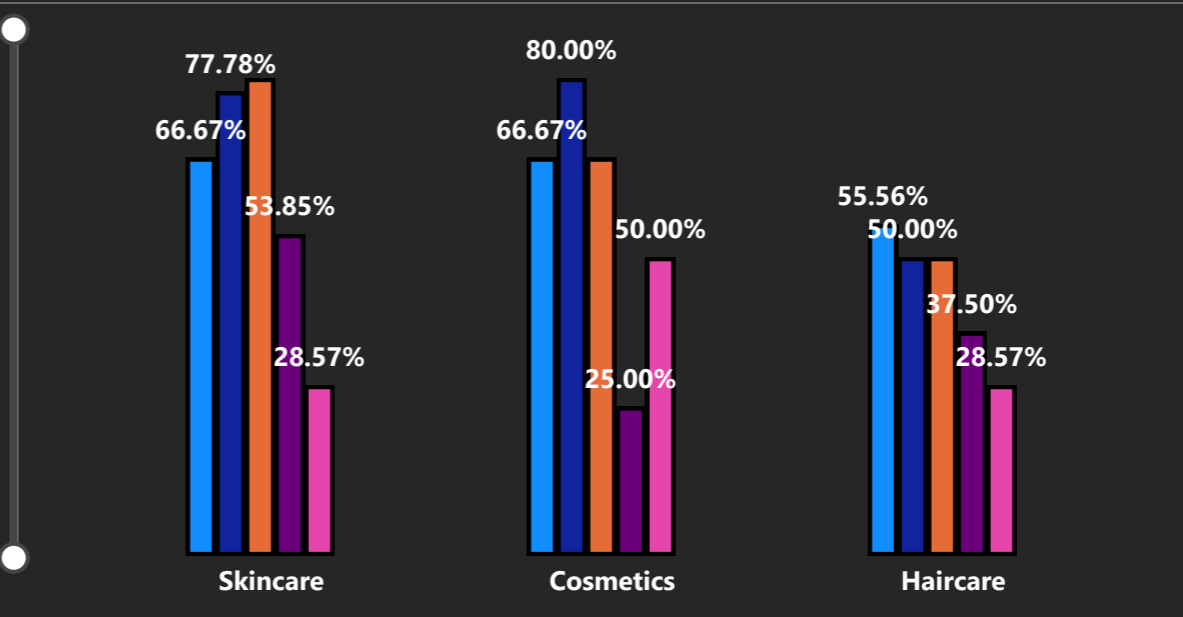
## On-time delivery rates by Customers & Routes

Location ● Bangalore ● Chennai ● Delhi ● Kolkata ● Mumbai



- **Male:** 22.1%, 8.8%, 29.4%, 22.1%, 17.6%
- **Unknown:** 7.4%, 16.7%, 16.7%, 25.9%, 33.3%
- **Non-binary:** 19.8%, 19.8%, 26.4%, 34.0%
- **Female:** 28.7%, 14.4%, 23.9%, 21.5%, 11.5%
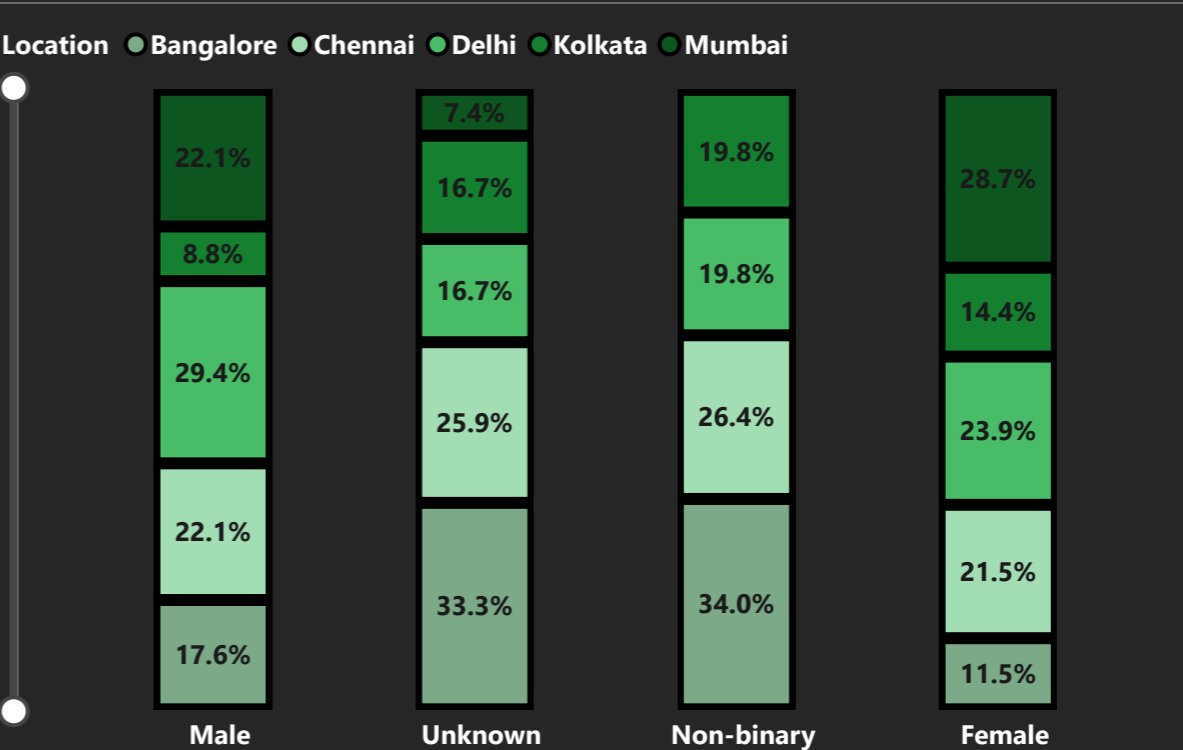
Report 1

Report 2

Report 3

Inventory Management

Supplier Performance Fullfillment

Transportation Efficiency

Supply Chain Costs

# SUPPLIER PERFORMANCE FULLFILLMENT

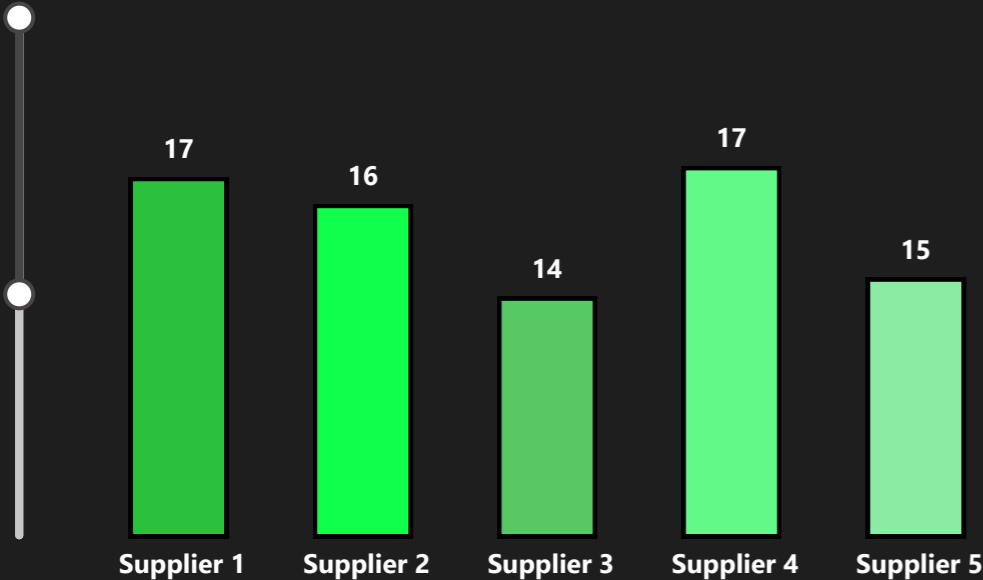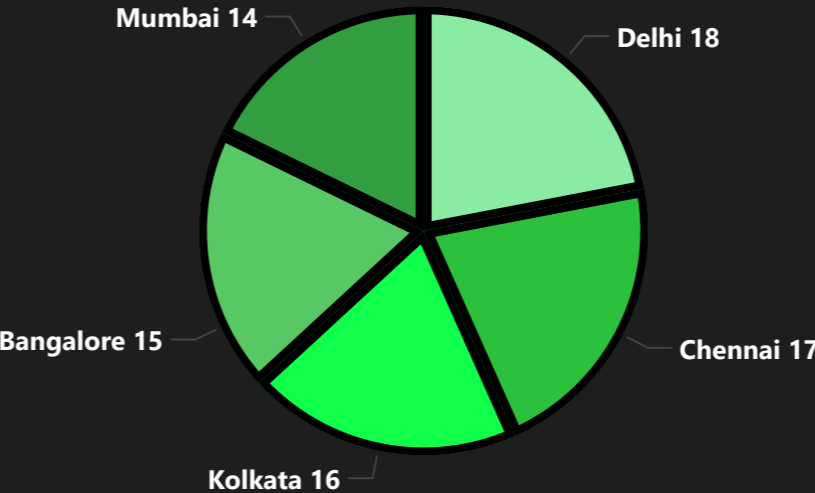| Avg Cost per Supp. | Total Revenue | Avg Delivery Time | Avg Defect Rates | Avg Man. Lead Time | Delivery Rate |
|---|---|---|---|---|---|
| $529.25 | $577.60K | 16 | 2.3 | 15 | 54.00% |

## Average delivery time by suppliers (in Days)

| Supplier 1 | Supplier 2 | Supplier 3 | Supplier 4 | Supplier 5 |
|---|---|---|---|---|
| 17 | 16 | 14 | 17 | 15 |

## Average delivery time by Location (in Days)

- Mumbai 14
- Delhi 18
- Bangalore 15
- Chennai 17
- Kolkata 16

Supplier 1
Supplier 2
Supplier 3
Supplier 4
Supplier 5

Report 1
Report 2
Report 3
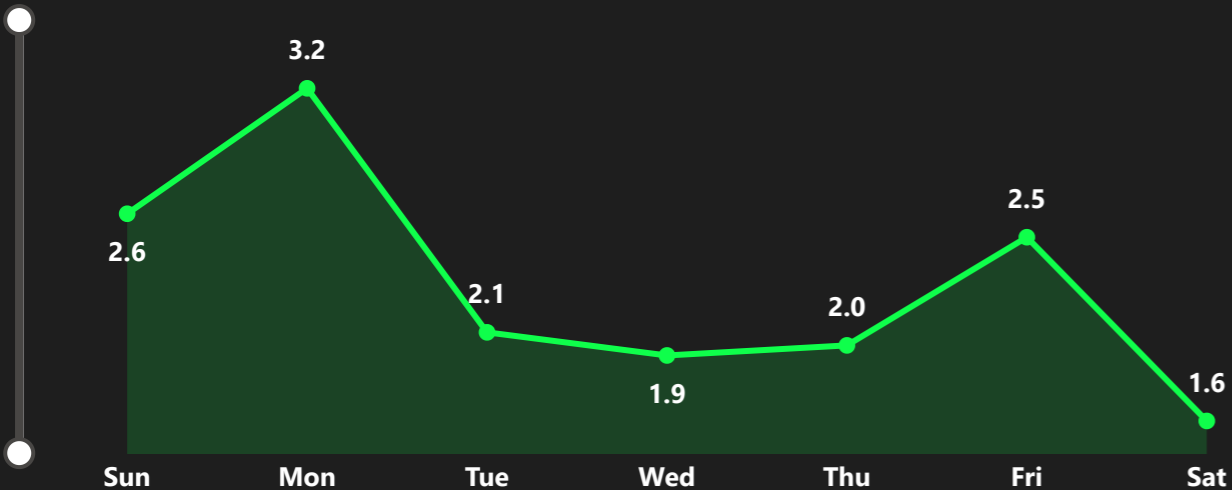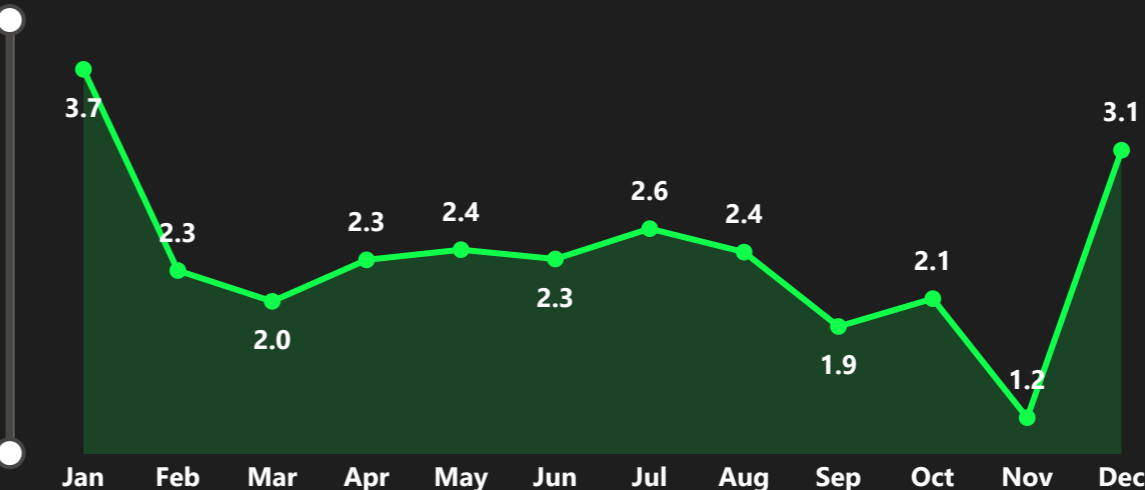Inventory Management
Transportation Efficiency
Supply Chain Costs
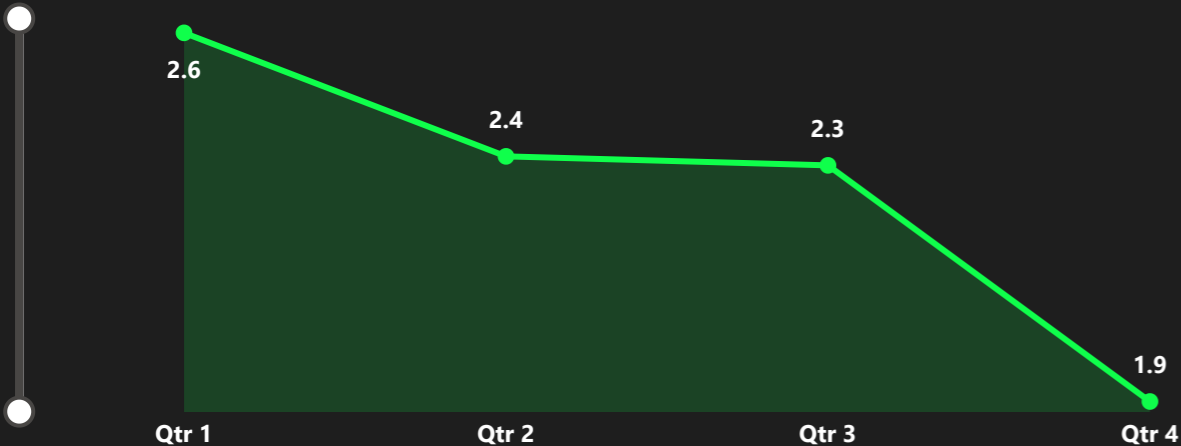
## Avg Defect Rate by Days (in %)
Defect Rate Over Time

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---|---|---|---|---|---|---|
| 2.6 | 3.2 | 2.1 | 1.9 | 2.0 | 2.5 | 1.6 |

## Avg Defect Rate by Month (in %)
Defect Rate Over Time

| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.7 | 2.3 | 2.0 | 2.3 | 2.4 | 2.3 | 2.6 | 2.4 | 1.9 | 2.1 | 1.2 | 3.1 |

## Avg Defect Rate by Quarter (in %)
Defect Rate Over Time

| Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
|---|---|---|---|
| 2.6 | 2.4 | 2.3 | 1.9 |

## Avg Defect Rate by Year (in %)
Defect Rate Over Time

| 2023 | 2024 | 2025 |
|---|---|---|
| 2.2 | 2.5 | 2.2 |
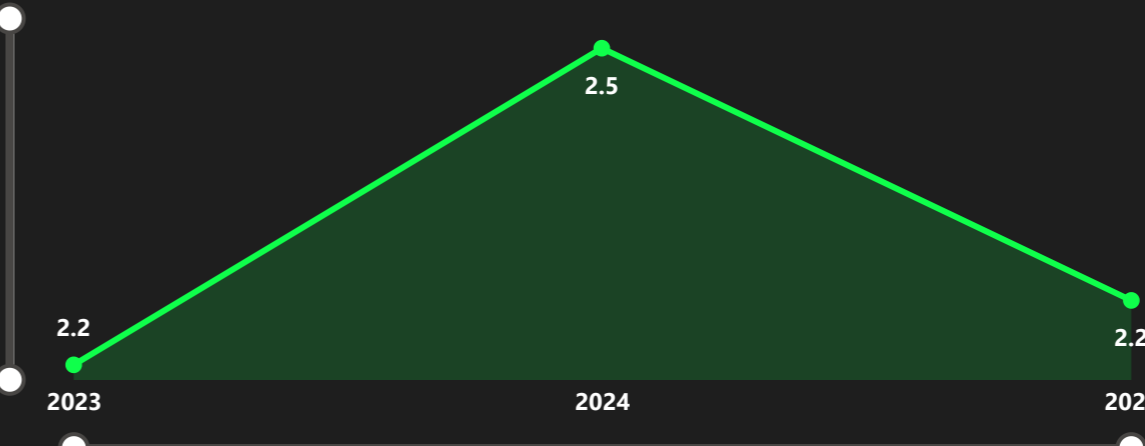
# TRANSPORTATION EFFICIENCY

| Total Delivery Time | On Time % | Avg Ship Time | Late Deliveries | On Time Deliveries |
|:---:|:---:|:---:|:---:|:---:|
| 575 | 54% | 6 | 46 | 54 |

**Carrier A** | **Carrier B** | **Carrier C**

## Transit times by carrier and delivery status.

Delivery Status ● Late ● On Time

Avg Shipping Time

6.5
6.0
5.5

Carrier A  Carrier B  Carrier C

Shipping carriers
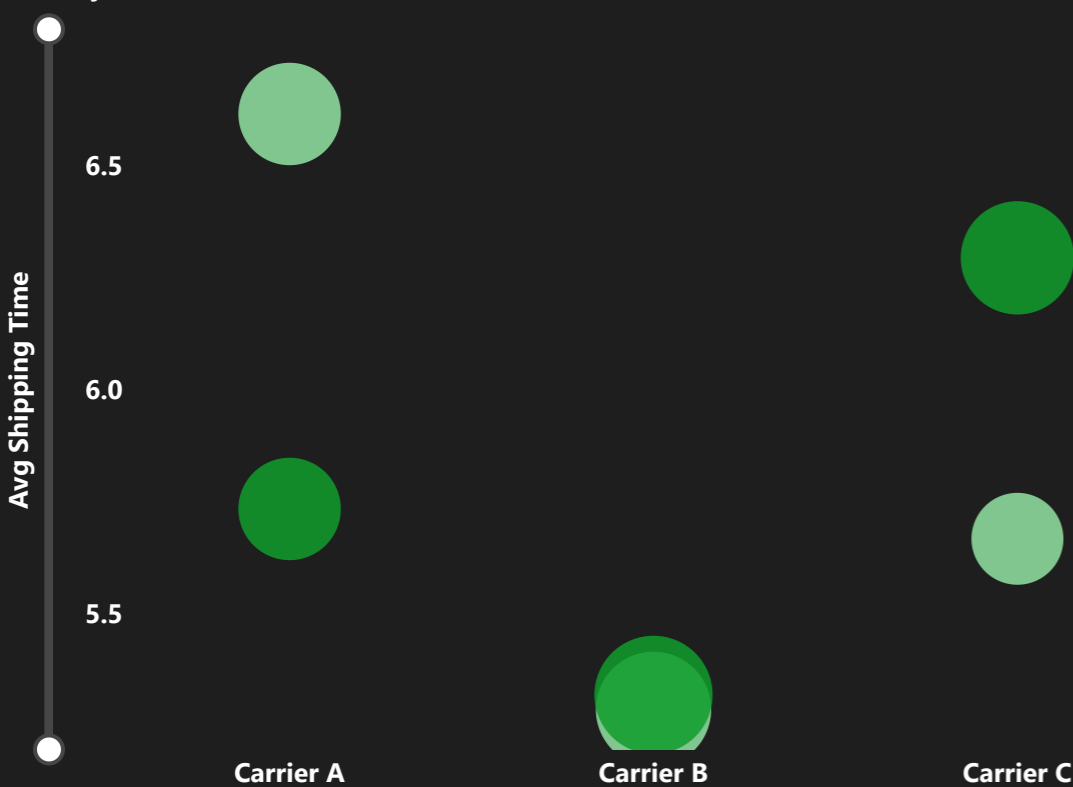
## On Time delivery by Month

Delivery status Over Time

On-Time Deliveries

6, 2, 6, 5, 2, 3, 6, 5, 4, 8, 4, 3

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
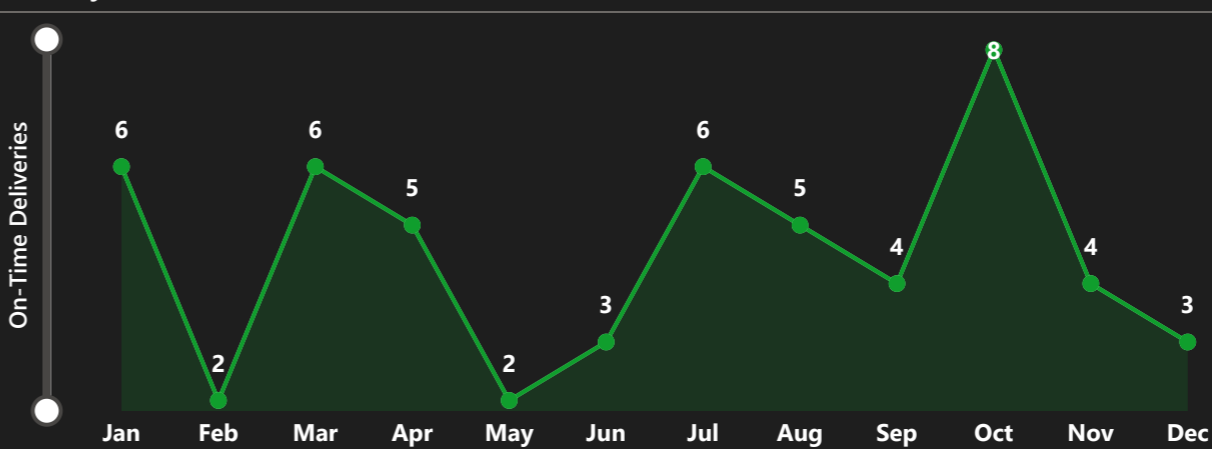
## Late Deliveries by Month

Delivery status Over Time

2, 4, 10, 3, 4, 7, 2, 3, 4, 6, 1

Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
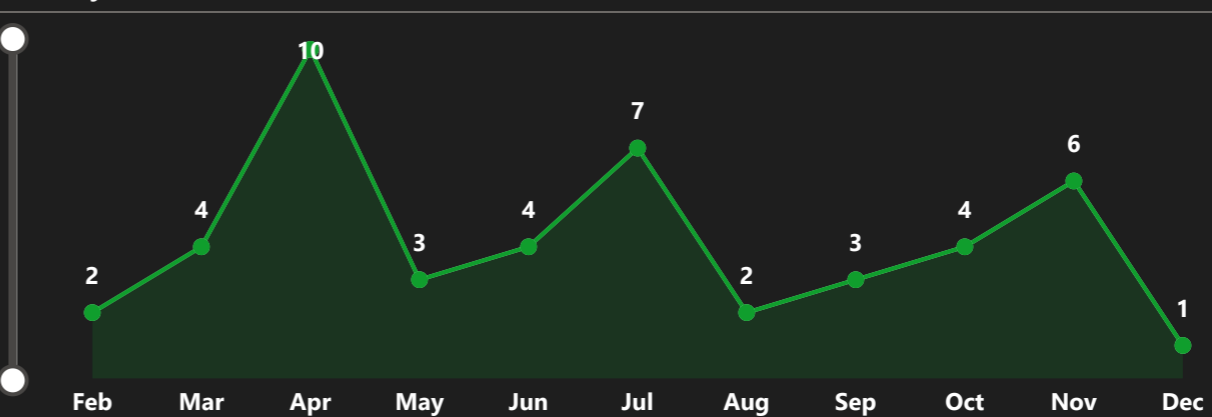
## On Time delivery by Year

Delivery status Over Time

21
20
18
16

21, 18, 15

2023 2024 2025
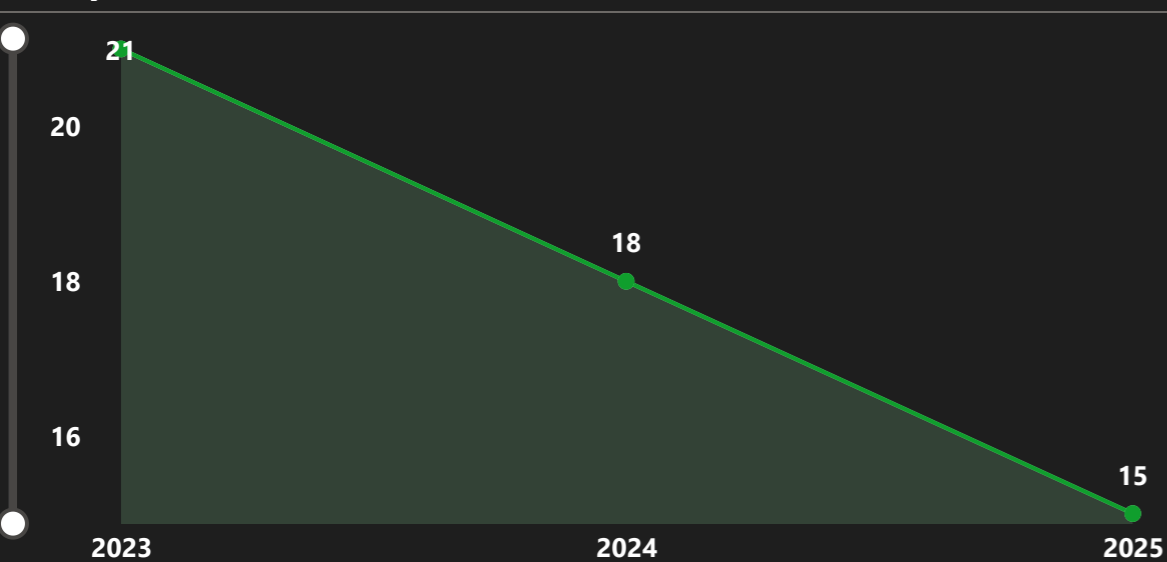
## Late Deliveries by Year

Delivery status Over Time

19
18
16
14

19, 13, 14

2023 2024 2025

**Report 1**

**Report 2**

**Report 3**

**Inventory Management**
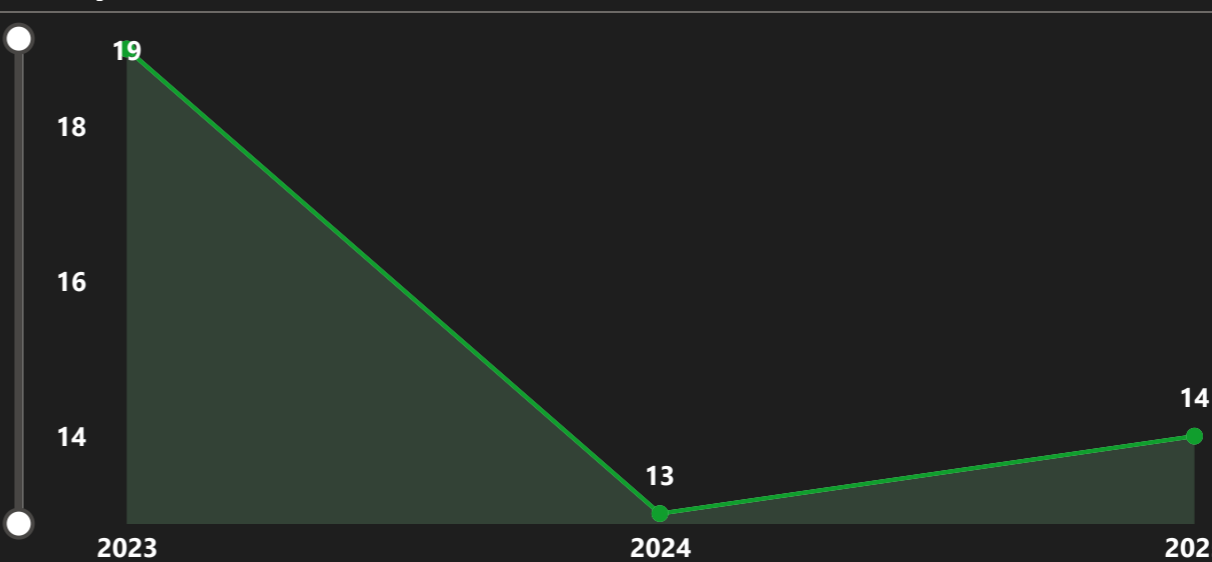
**Order Fullfillment**

**Supplier Performance Fullfillment**

**Supply Chain Costs**

# SUPPLY CHAIN COSTS

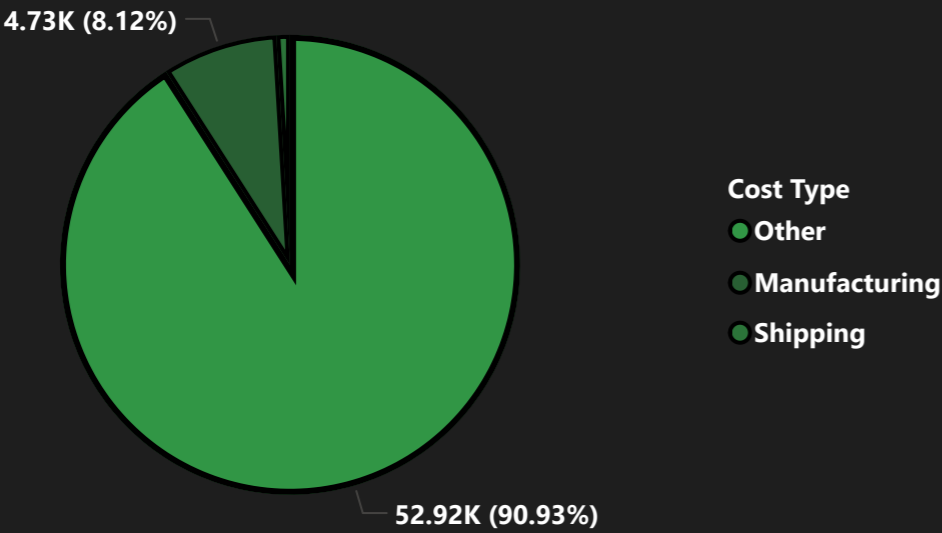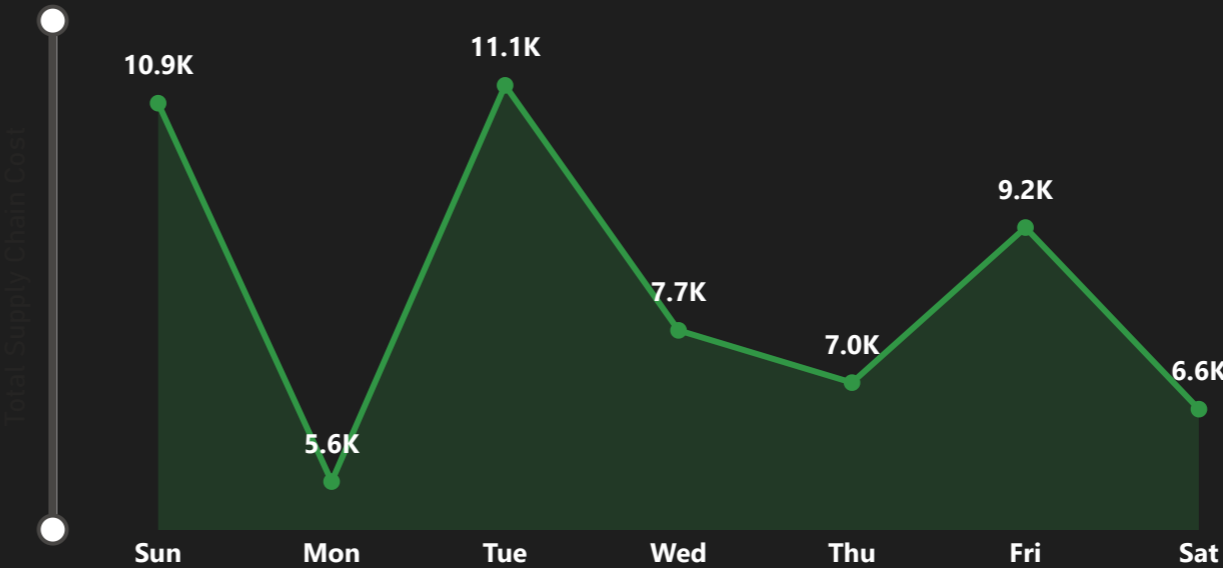| Total Manufacturing Cost | Supply Chain Cost | Avg Cost per Product | Maximum Cost | Minimum Cost |
|:---:|:---:|:---:|:---:|:---:|
| **$4.73K** | **$52.92K** | **$529.25** | **$997.41** | **$103.92** |

## Distribution of costs by type

4.73K (8.12%)

52.92K (90.93%)

**Cost Type**
- Other
- Manufacturing
- Shipping

## Supply Chain Cost by Days

**Supply Chain cost over time**

| | | | | | | |
|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| 10.9K | 5.6K | 11.1K | 7.7K | 7.0K | 9.2K | 6.6K |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |

## Supply chain costs by Month

**Supply Chain Cost over Time**

| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| 3.1K | 1.8K | 6.7K | 10.1K | 2.9K | 5.5K | 6.1K | 3.8K | 2.9K | 7.0K | 5.6K | 2.7K |

## Supply chain costs by Year

**Supply Chain cost over Time**

| 2023 | 2024 | 2025 |
|:---:|:---:|:---:|
| 24.9K | 17.9K | 15.4K |

Report 1

Report 2

Report 3

Inventory Management

Order Fullfillment

Supplier Performance Fullfillment

Transportation Efficiency