

Operational Efficiency

Key Insights

1.) Shipping Cost Efficiency:

- Sea transport offers the lowest average shipping cost (\$4.47), yet is it underutilized compared to other methods. It is also 10.42% cheaper than the average shipping cost.
- There is opportunity to minimize shipping cost by prioritizing Sea routes and limiting the use of Air, Rail, and Road.

2.) Utilization Trends:

- Sea achieves a very short average lead time, which is 3.91% faster than the overall lead time average. Because it is underutilized while offering a faster, cheaper option, investing in Sea shipping methods has a higher potential for cost optimization

3.) Overall Operational Efficiency:

- The current system seems to over utilization Air, Rail, Road, despite higher costs and lead times.
- Shifting towards more Sea friendly routes may reduce total shipping cost and average lead times, improving overall efficiency without sacrificing on reliability.

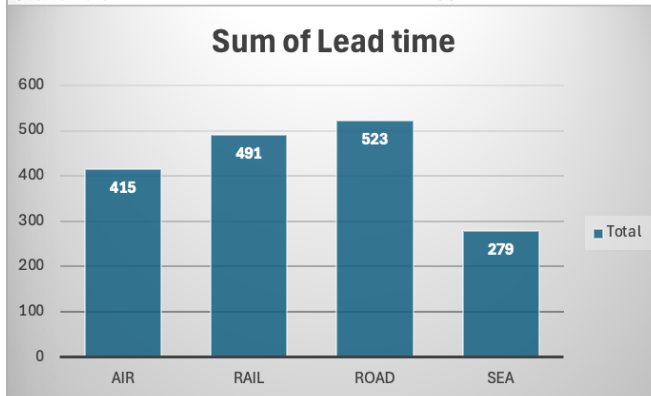
Transportation Modes	Sum of Shipping costs
Air	\$ 156.46
Rail	\$ 153.13
Road	\$ 160.72
Sea	\$ 84.49
Grand Total	\$ 554.81



Transportation Modes	Average of Shipping costs
Air	\$ 6.02
Rail	\$ 5.47
Road	\$ 5.54
Sea	\$ 4.97
Grand Total	\$ 5.55



Transportation Modes	Sum of Lead time
Air	415
Rail	491
Road	523
Sea	279
Grand Total	1708



Transportation Modes	Average of Lead time
Air	15.96
Rail	17.54
Road	18.03
Sea	16.41
Grand Total	17.08



Transportation Modes	Number Times Shipping Method Used
Air	26
Rail	28
Road	29
Sea	17
Grand Total	100

