

#038 : Multimodal Logistics

(Effect on Replenishment Planning)



Traditionally, logistics networks are segregated into different modes, e.g. road, rail, air, water. A combination of the above for a single supply chain, has not been viewed from cost or environmental perspectives.

Multimodal logistics refers to **integrating multiple transportation modes** into a single supply chain from global cost, convenience and environmental perspectives.



Benefits

Cost effective
Improves inventory consolidation > Less inventory
More eco-friendly

Effect on Replenishment Planning

Requires a more centralized replenishment planning
Can reduce overall inventory and cost
May increase operational complexity

Enablers

1. Supply chain redesign with logistics nodes
2. Digital infrastructure
3. More traceable assets
4. Centralized planning