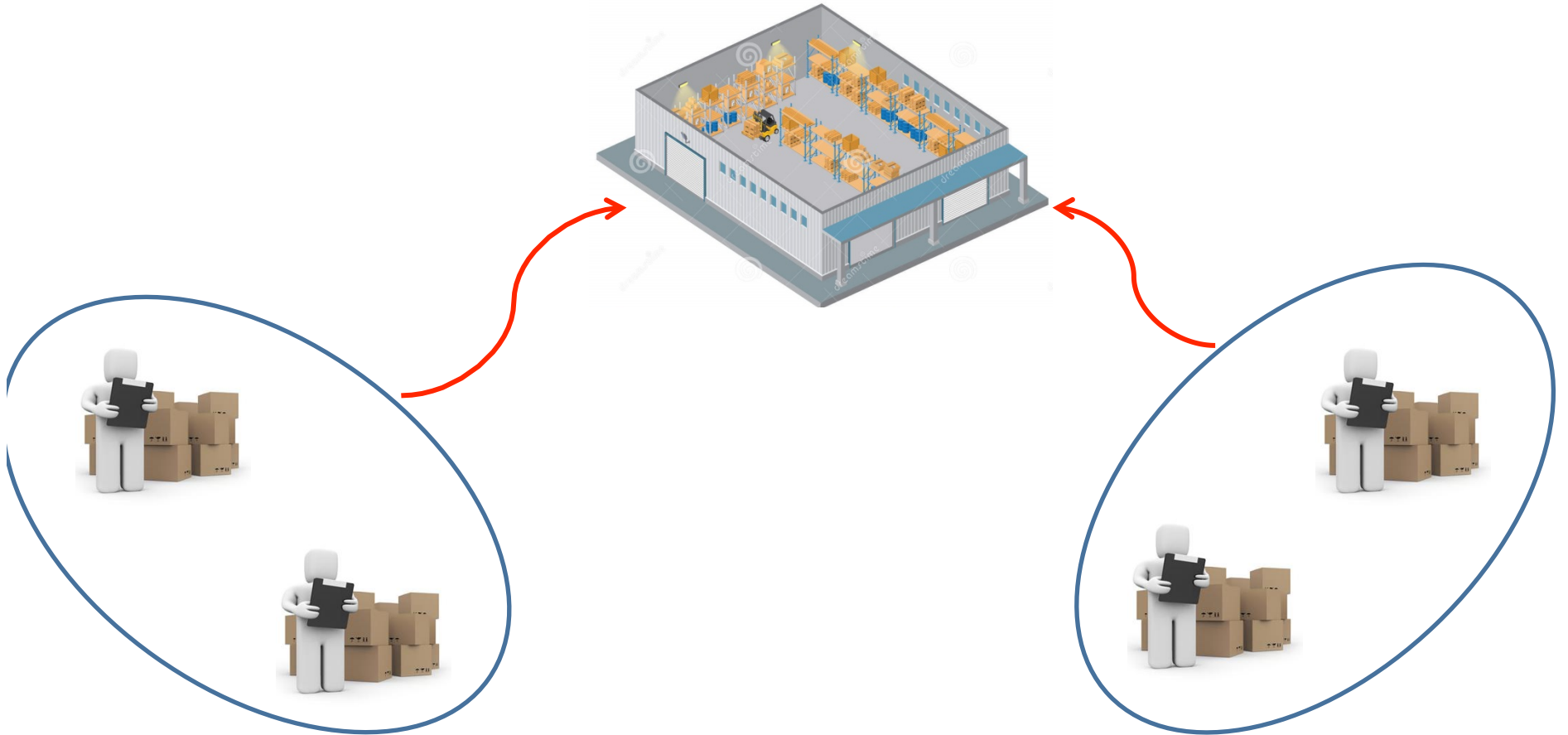




# Locating Urban Consolidation Centres

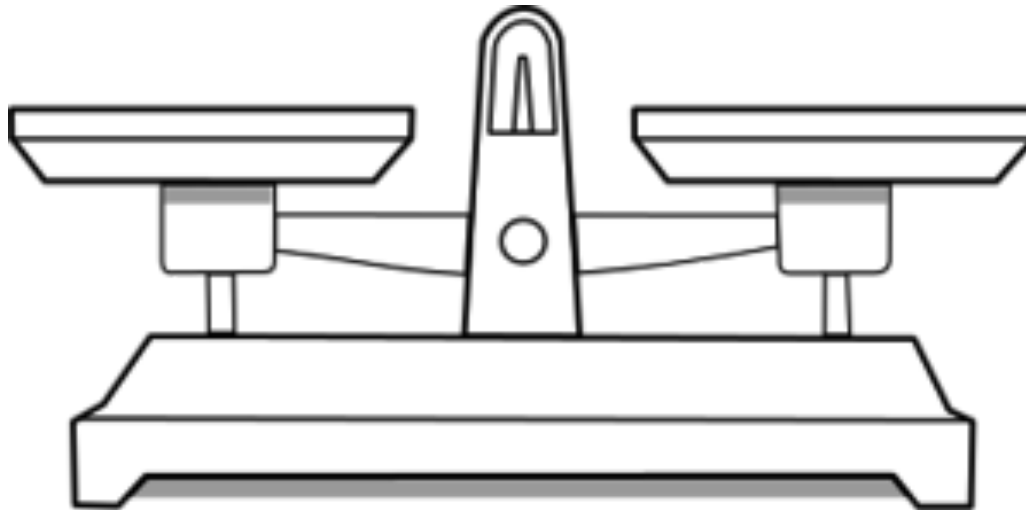
*Mehdi Nourinejad*

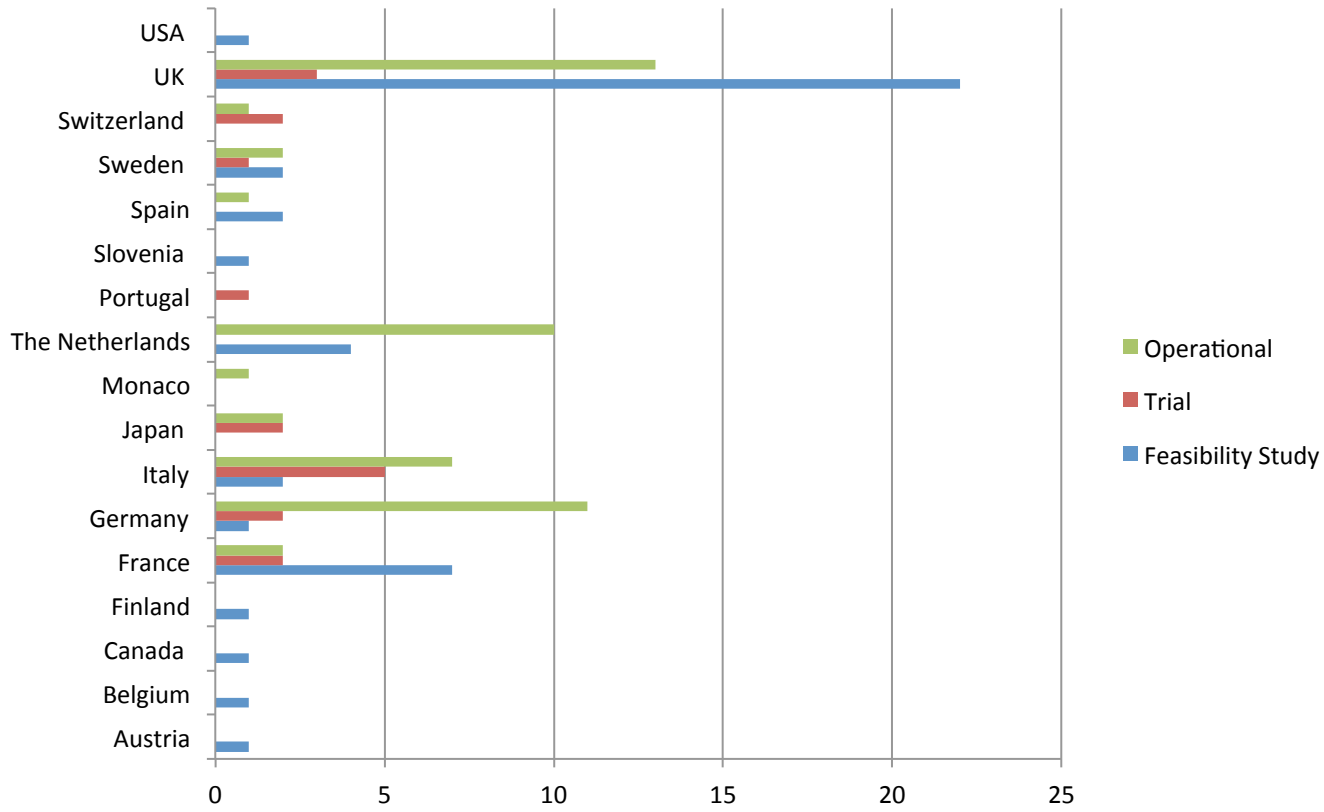
Urban Consolidation Centres are logistics facilities that are situated in relatively close proximity to the geographic area that they serve. Their main objective is the avoidance of poorly loaded trucks.

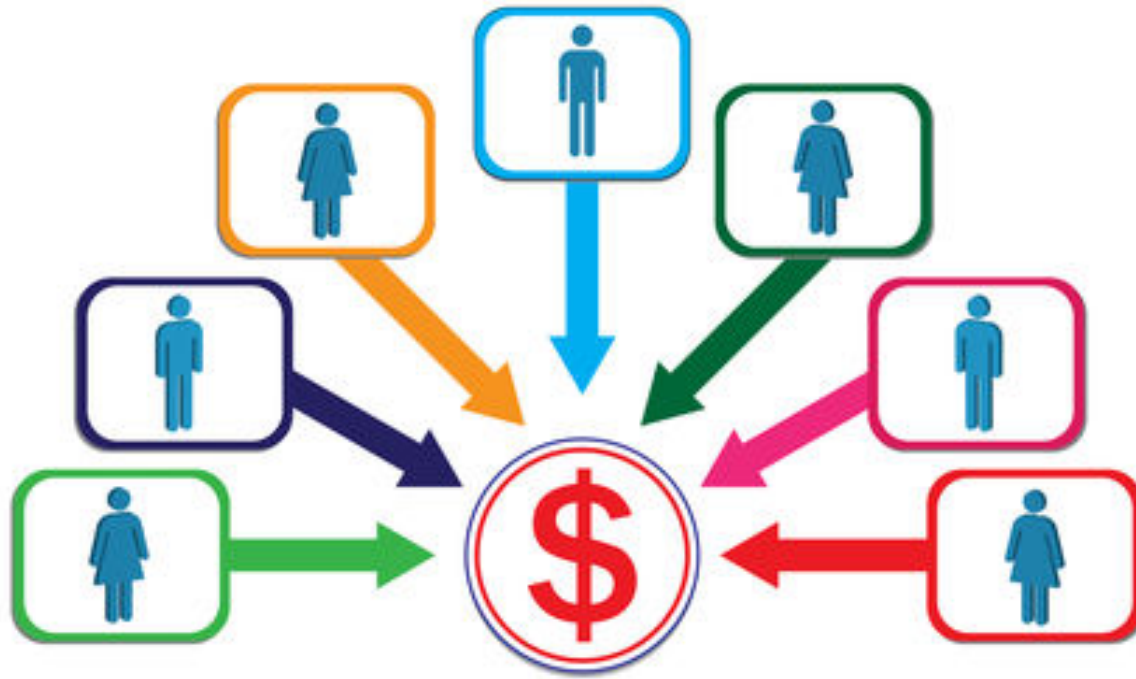


- Better vehicle/driver utilization
- Reduction in unit cost of delivery
  - Fewer deliveries
- Improved reliability in delivery times
  - Reduction in total unloading time
- Reduction in total vehicle trips and km
  - Reduction in total traffic levels
    - Lower usage of fossil fuels

- Third party involvement
- Less contact with customers
- UCC operating and handling costs







**Shipper Profits**



**Social Welfare**

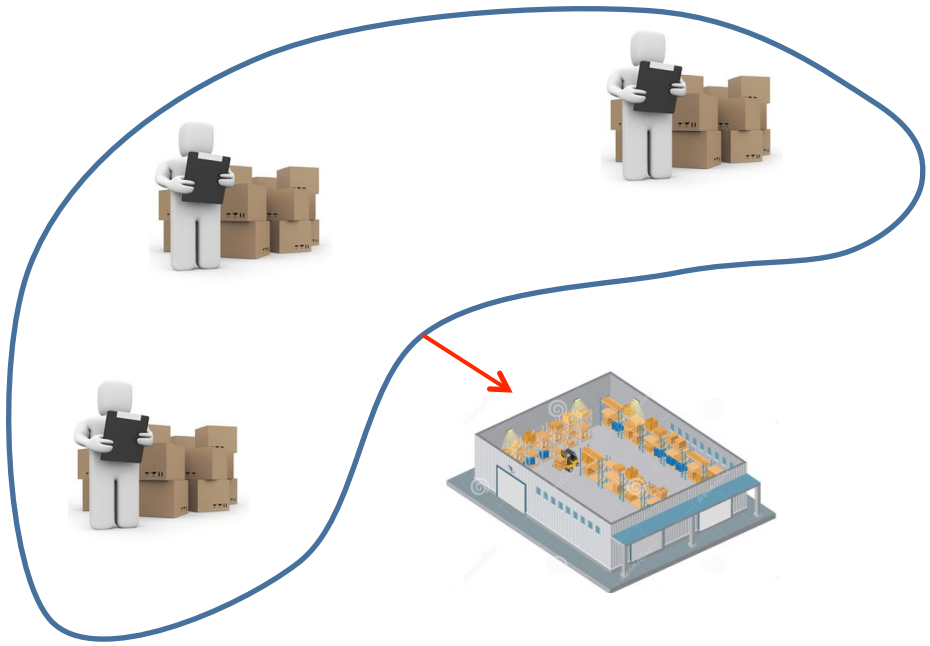
# Shipper Rationality

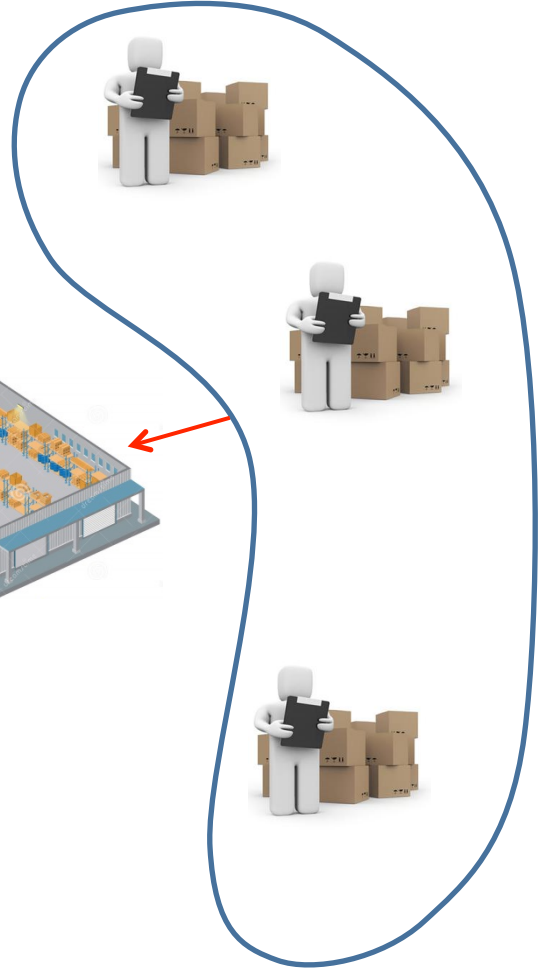
Net Benefit  $> 0$

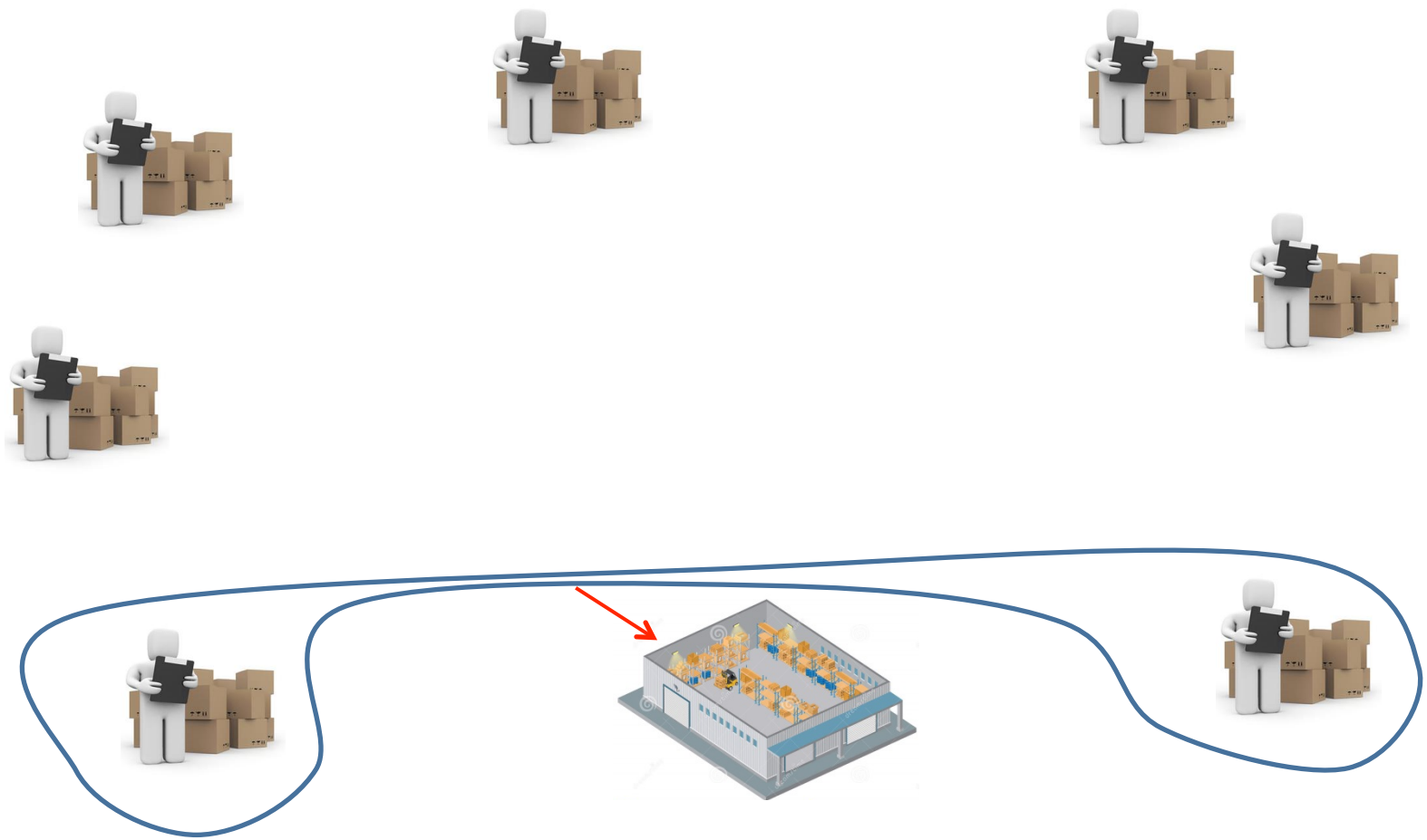
Cost of Not Using UCC - Cost of Using UCC  $> 0$











# Less-than Truckload





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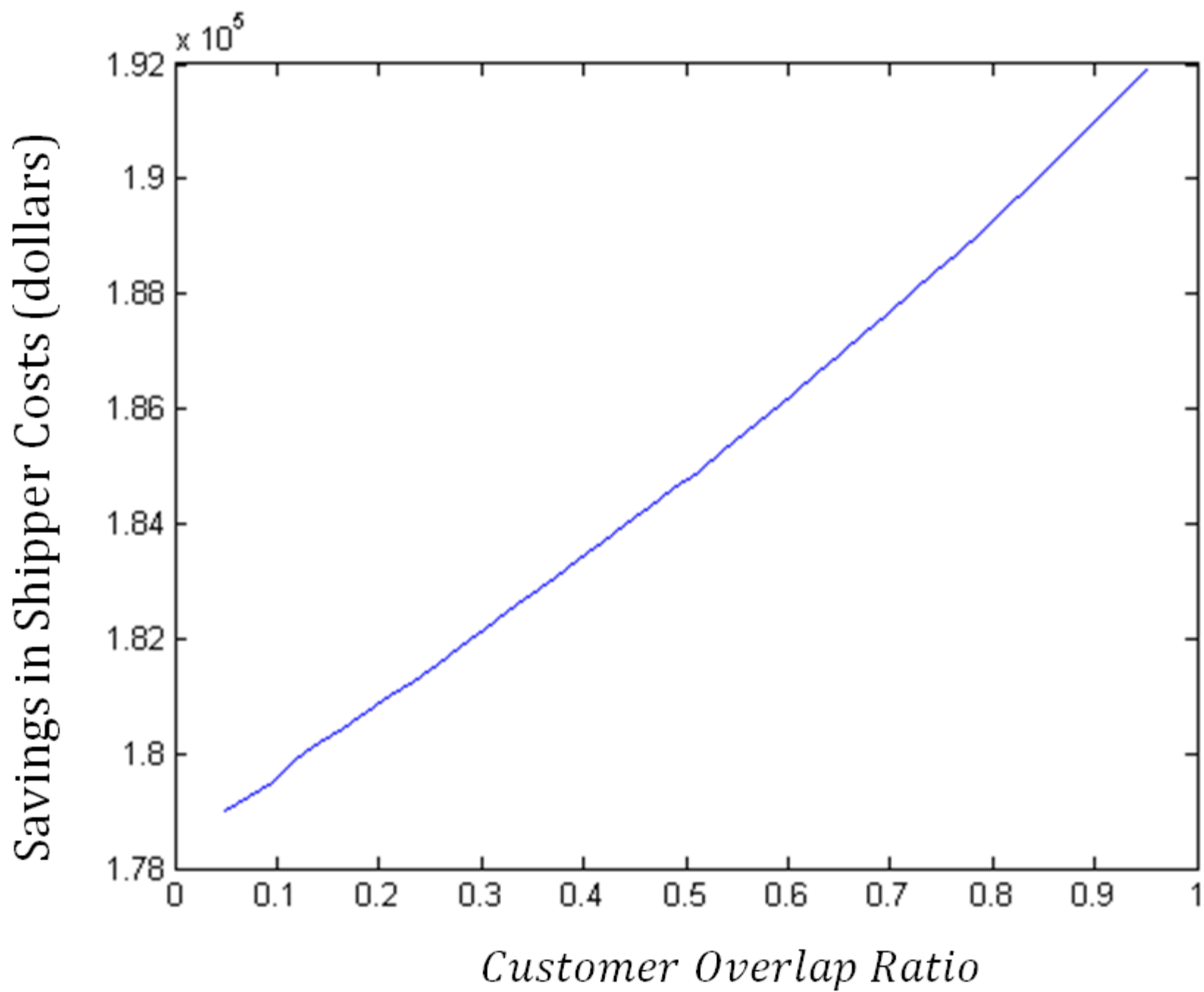


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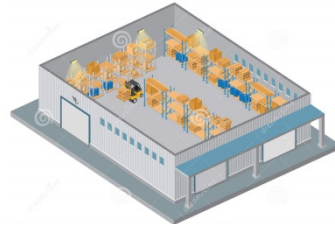


Customer Overlap

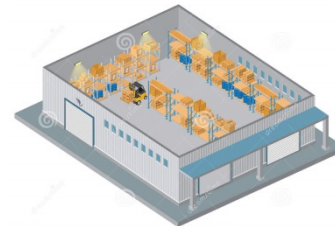




More drivers

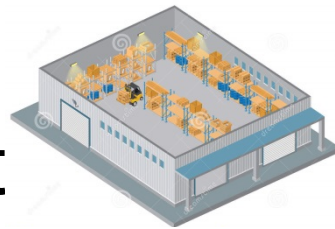


Location



Optimal

Higher Capital Cost





Thank You

di Nourinejad

o. Candidate

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