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Title: Mauritius Foldable Container Off-Network Cost Analysis

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Do foldable Containers save money?

particularly because empty transport can never be completely eliminated (see section 2). The potential cost savings of foldable containers however extend beyond low transport costs. Containers also provides cost savings. Nevertheless there are obviously hacks and eyes on

Are foldable containers a viable alternative to empty containers?

However, due to trade imbalances transport movements of empty containers remain to some extent unavoidable. Therefore, foldable containers seem an attractive option from the point of view of saving transport costs as well as handling and storage costs. So far, however, these containers have not been introduced successfully.

How do shipping lines manage empty containers?

Empty container transport involves high costs, particularly for shipping lines, since they generally bear these container management costs. Not surprisingly, shipping lines try to reduce the costs of moving empty containers as much as they can. Most strategies are focussed on improving the instruments to match cargo with empty containers.

What is the best fleet management model for liner shipping networks?

Shintani, Konings, and Imai (2012) introduced a fleet management model for liner shipping networks by considering both foldable and standard containers, which motivated our study, and the mathematical model used revealed the optimal mix of using both types of containers in the fleet.

In this study, we formulated a novel Mixed-Integer Linear Programming (MILP) model considering a multi-period and multi-region shipping network to minimize the total cost for empty ...

For this purpose a cost-benefit analysis is adopted in which four logistic concepts to use foldable containers are presented as a framework for analysis. The costs and benefits of using ...

the costs of container fleet management in liner shipping (Shintani et al, 2012). Given that even with the perfect information systems to management & minimize the transportation movements ...

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In this regard, a decision-maker should make a great effort to find a suboptimal mix of foldable and standard containers by a cost-efficient and reliable design of a container network with ...

However, the optimal number of foldable containers differs in each situation, and the cost of fold-able containers is high. To address this, we propose implementing effective container usage ...

Freight costs constitute on average 8% of the total costs of importing (when cost of goods are included) for the selected products. Of these, sea freight costs charged by shipping ...

Therefore, foldable containers seem an attractive option from the point of view of saving transport costs as well as handling and storage costs.

Konings [7] analyzed the economic and logistical viability of introducing foldable containers through a cost-benefit analysis, showing that the use of foldable containers could lead to substantial ...

To illustrate the impact of foldable containers on back haul shippers, a numerical analysis is performed on the same shipping network in the US Mid-West which was analyzed in Goh and ...

This paper puts in focus the potential of foldable/collapsible containers towards improving logistics management as an alternative to the current standard containers. With Port Louis, ...

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