Mauritius Foldable Container Off-Network Cost Analysis

Do foldable containers reduce container fleet management costs?
The effect of foldable containers on the costs of container fleet management in liner shipping networks. Maritime Economics & Logistics. 2012. Vol. 14. No. 4. P. 455-479. DOI: 10.1057/mel.2012.16. Shintani, K. & Konings, R. & Imai, A. Combinable containers: A container innovation to save container fleet and empty container repositioning costs.

How to solve a minimum-cost multi-commodity network flow problem?
This resolves a minimum-cost multi-commodity network flow problem by optimizing container fleet size and empty container relocation in a multi-port shipping service network. Port handling time and sailing speed provided by obtained optimal solutions enable the determination of ship BCs as a secondary step.

How will foldable containers affect exporters?
Despite the increase in operational complexity,one foreseeable impact of foldable containers is that the availability of empty containers for exporters should logically improve,since carriers would find it cheaper to rebalance stocks of foldable containers between IPI locations,as represented in Leg F of Fig. 2.

How many foldable containers are needed for the Inland network?
Out of a total of about 5000 containers,an estimated fleet and critical mass of just 695 foldable containersare required for the inland network under study (and the rest of the containers being conventional ones),with a 71% load factor on the back haul.

With Port Louis, Mauritius, as a case study, a simulation exercise is performed with the use of foldable/collapsible containers as opposed to the current standard equipment.

This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the empty containers and bunker costs (BCs) ...

A rather unfamiliar, but interesting option to save costs is the possibility to fold empty containers. This could save transport costs, but also transhipment and storage costs. In ...

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In this study, we conducted an analysis of the effects of using foldable containers in various circumstances, with particular emphasis on addressing the issue of container imbalances.

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable containers with more advanced designs. A ...

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The costs and benefits of using foldable containers in these logistic concepts are calculated and compared with the situation in which ...

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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 ...

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oving logistics management as an alternative to the current standard containers. With Port Louis, Mauritius, as a case study, a simulation exercise is performed with the use.

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