

Title: Off-network cost of foldable containers for base stations in Africa

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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.

Do foldable containers generate revenue?

However, this does not generate revenue and incurs container management costs (CMCs). Some container carriers may use foldable containers (FLDs), such as four-in-one designs, instead of standard containers (STDs), in order to minimize the costs associated with relocating empty containers.

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

Are foldable containers economically viable?

In order to examine the economic viability of the developed foldable container as compared to a standard 40-ft high-cube container, cost analysis is performed for an example route, i.e., the Busan-Vostochny-Moscow route (Fig. 10), which involves both inland and maritime transportation.

By bypassing the need to transport empty containers to a dedicated folding facility and instead folding and bundling them on-site, we achieve significant cost savings.

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 ...

Based on these insights, we propose a hypothesis regarding the use of FLDs by which they can lower empty container volumes to be relocated, resulting in fewer CMCs and shorter container ...

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio ...

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We comprehensively analyzed numerical experiments to illustrate trade-offs between cost savings and potential risks concerning reliability in supply of empty containers by ...

Containers are concentrated in the wrong areas due to high demand and the reluctance to ship empty containers back to other ports. ...

Abstract--This study investigates the commercial viability of foldable containers from a carrier's perspective. A cost-benefit and sensitivity analysis is conducted for operating regular and ...

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable ...

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