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# Cost-effectiveness analysis of a 40-foot collapsible container in Jamaica

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

Which containers are foldable or collapsible?

As mentioned above, the foldable or collapsible containers that have been actually commercialized to date are SIO, Fallpac and HCI. Among them, only HCI is fully foldable whereas SIO is collapsible and Fallpac combines collapsible and foldable features.

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.

Why are foldable containers so controversial?

One main reason for this controversy is the high purchase cost of the foldable container. The current purchase cost of the developed foldable container is currently set to US\$20,000 but will be lowered to US\$10,000 in case of mass production, which is still significantly higher than the purchase price of US\$5,000 of a standard 40-foot container.

Keyword 40-ft high-cube container Cost-effectiveness Empty container repositioning Foldable container Folding ratio All Science Classification Codes (ASJC) ...

The cost-effectiveness of six Arctic route alternatives, including the Arctic routes likely to be opened in far future due to ice melting faster than ...

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 ...

The 40 foot shipping container is the largest and most cost-effective portable storage option available today. With over 320 square ...

C Box Containers & Modular Solutions specializes in selling high-quality, utilized shipping containers and containers certified for international ...

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were ...

This could save transport costs, but also transshipment and storage costs. In this paper, we analyse the opportunities for commercial application of foldable containers. For this ...

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The implementation of collapsible containers provides a new perspective for logistics cost savings, since using collapsible containers ...

The deterministic analysis and stochastic analysis are used to formulate the cost saving formulations depending on the initial number of collapsible container and the collapsible rate.

What is cost-effectiveness analysis? Cost-effectiveness analysis (CEA) is a way to examine both the costs and health outcomes ...

The performance evaluation of the collapsible container system and total cost estimation are provided through model analysis. Furthermore, fuzzy control method is ...

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 ...

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