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Title: High-efficiency folding container for subway stations
Generated on: 2026-03-22 13:32:38
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Can a 5-tier stacking foldable container be economically produced?
This paper presents the design of a new 5-tier stacking foldable container with convenient folding and unfolding process and that can be produced economicallycompared to previous products. The selected size of the container is the standard 40-ft high cube because it represents about 70% of the maritime container fleet transiting Korean ports.

How can a foldable container reduce the cost of storage?
The satisfaction of such conditions and the eventual adoption of the foldable container by the market would reduce the operation costs by 50% to 60%,the storage space in yard and depot by 80% and CO 2 emissions by 20% [8,12].

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 should you choose a foldable container?
But on the way back with the empty condition,the foldable container could deliver cost reductionup to 35.6% compared to the standard container. Furthermore,the longer the period of storage and transportation in empty state,the greater the benefit of the foldable container.

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