

# Abstract

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## **Decision Support Tool for Inland Container Depot Location and Capacity with Multiple Objectives**

Container Terminal Capacity (CTC) has become a major problem in many ports around the world. Some researchers expressed a deep concern about how to cope with the capacity problem. Some claimed that container ports terminals must cope with overcapacity since it is a significant feature that indicates how reliable important the port is to users. In addition, the increasing demand from shipping lines, some ports had no other option for the capacity problem than to increase the hinterland areas build inland terminals such as dry ports, with a view to maintaining their competitive position. This research aims to develop a decision support tool helps port operators to optimize the Inland Container Depot (ICD) location capacity using Simulation Modeling. Also, the research will investigate the concept of dry port literature from different research perspectives.