

Simulating port expansion plans using agent based modelling

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Abstrak

Jakarta International Container Terminal (JICT), which is the main international port of Indonesia, is overcrowded and is going to be expanded. Various expansion plans are considered, so the aim of the current paper is to simulate the plans using an agent-based modeling approach. The plans are treated as scenarios in the agent-based simulation model. Then, the throughputs from all scenarios are compared. The comparison shows that some of the plans can support the JICT vision. The results can be used as an input for the decision maker to either choose one of the plans or renegotiate the plans to achieve results that greatly support the JICT vision.