



Tomasz Kosalka

CENTRALIZED AND DECENTRALIZED DISTRIBUTION STORAGE SYSTEMS

**DECISION MAKING THROUGH THE SIMULATION OF
CENTRALIZED AND DECENTRALIZED DISTRIBUTION
STORAGE SYSTEMS**



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The look of a Source Chain network includes a great impact on a company's performance. Due to applying this methodology, it had been found that the centralized distribution storage system allows the company to operate at a lower cost (savings from 11. This research provided a methodology for determining data needs, building an analytical database, creating simulation models with Arena software, optimizing the models with OptQuest software program, and performing sensitivity evaluation. The techniques were put on a decision making procedure for reconfiguring an existing distribution storage program, and modifying it from centralized to a decentralized one. Simulation modeling and optimization techniques were selected to investigate and solve supply chain and distribution storage space problems.03% to 19.09%) while providing customers with better services. The sensitivity evaluation proved that cost savings are affected by transportation cost, demand volume, and the time at which products need to be designed for delivery. Simulation/optimization strategy was found to work and allowed for the creation of a methodology that can be repeated for equivalent types of problems.



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