

Business decision support model on global supply network planning under financial and demand uncertainties using stochastic programming optimization

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This work addresses the business decision support model for global trading company with multi-products, multi-site production and distribution networks under foreign exchange rate and demand uncertainties. Nowadays most companies have global networks for production, distribution and sales to customers. Traditional approaches of supply network managements usually focus on the operational level far from the financial aspect. Turbulence of foreign exchange rate affects on the profit of company on trading imports and exports and it is one of the serious problems on global business. Companies make a decision of business plan based on several uncertainties every year. We propose a method of global supply network planning under exchange rate change for business decision support in corporate level for maximizing profits using a stochastic method.