

Evaluating of suppliers of ALBORZ DAROU Company in a lean and agility SCM using DEMATEL and network DEA.

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Abstract This day's ion of suppliers based on environmental and social issues is one of the most important topics in manufacturing companies. In this research, a new approach is considered considering the environmental indicators as well as the manufacturing systems with a lean-agile approach in the pharmaceutical industry. which considered to help to evaluate the organization performances with Environmental, Social, Economic, Internal Processes and Learn & Growth criteria. On the other hand, for Evaluating the efficiency of suppliers the Network Data Envelopment Analysis (DEA) Models offered that can measure the efficiency of systems with multiple inputs and outputs and considered Decision-Making Units (DMUs) internal process and the relationship among them. Another point is how to determine the relationship between processes, their influences on each other and preparation of their network and structure that DEMATEL method can assist to find these relations. For this reason, in this survey, We decided to use a hybrid model of Network Data Envelopment Analysis (NDEA), Sustainable Balanced Scorecard (SBSC) and Fuzzy Dematel to evaluate the performance and determine the efficiency of "ALBORZDARO" company's suppliers. As a result of this study, it was observed that some of the evaluated suppliers had not a great performance in the sustainability field and more attention to the environmental issues in the domestic car manufacturing industry felt.

Keywords : Keywords: Performance Evaluation, Supply Chain Management, lean, agility, Green, Data Envelopment Analysis (DEA), Network DEA, Fuzzy DEMATEL.

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