

Method for improving organisational resilience through material resources management within a manufacturing company

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Abstract

Dissertation is describing the topic of organisational resilience fulfilling research gaps which author has identified within this area. On the basis of carried out research author was able to verify 3 hypothesis, confirming the correlation between methodical material resources management and improving organisational resilience.

Chapters 1-4 are focusing on extensive summary of available theory important in the field of organisational resilience. In the first chapter the scope, targets and hypothesis of dissertation were defined as well as research methods were described. Second chapter focused on organisational resilience term. On the basis of extensive literature analysis author tried to build a synthesis out of 20 chosen definitions available in analyzed papers. What is more, in this chapter author has described available methods for measuring resilience which in the end become a strong base for developing universal, quantitative method of measuring organisational resilience. Third chapter has been dedicated to the area of resources management underlying importance of material resources management. In the following chapter instruments used among other within Industry 4.0 were described focusing on their implementation potential and possible increase of processes efficiency.

Chapters 5-7 present results and conclusions out of carried out research. In fifth chapter research focusing on identifying level of understanding and criticality of organizational resilience as well as factors which determine resilience is presented. In sixth chapter author focused on studying the impact of implementation of chosen instruments on organisation's processes. Such research was possible using delphic method. In seventh chapter author described results of simulation research conducted to identify organisational resilience level based on different scenarios (using different instruments). On the basis of conducted research it was possible to define a method for improving organisational resilience through material resources management within a manufacturing company.

Eighth chapter serves as summary in which the structure of dissertation is described together with assumptions, results of research focusing on targets and defined hypothesis. In this chapter final conclusions are presented as well as further plans for continuing the research.