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Thesis title: Risk management method in innovative projects in defence sector

Abstract

The aim of dissertation was to develop original method of innovative risk project management in Polish defense sector. It contains results of literature studies, analysis of accepted business standards, recommendations of US Department of Defence as well as methodologies implemented in top space enterprises (as similar to defense sector). The analysis of specific to the sector formal and legal conditions have been conducted as well as quality research of managerial practice in chosen Polish defense companies. The aim of dissertation was to create risk management method ready to be implemented in such projects with the adaptation and implementation directions for a given organization and a given project. The method is compliant with quality assurance systems obligatory in defense sector as well as national and international government compliance processes (cooperation with armed forces representatives and STANAG regulations). Field research was conducted by combining different methods such as formal analysis of internal project regulations, active research, multicriteria analysis, case study and survey research. The dissertation offers a proposition of risk management maturity level diagnostic tool to be applied in defense sector. Following aspects were identified and covered in created method: innovation type, financial and non-financial resources, number of project members, organizational culture, innovation source and technology readiness level. The method also incorporates experts recommendations resulting from the field research such as coherency, contingency, responsibility aspects and establishing effective communication process. Due to strong links with business practice the created method is efficient and effective, relatively easy in implementation, compliant with obligatory regulations and adaptable to specific company's and / or project's needs.

Key words: risk management, innovation, innovative projects, defense sector, military industry