

Abstract

Title of the doctoral dissertation: The impact of mobility on ensuring the material security of military units and institutions.

Author: Paweł Osiak

Mobility is one of the key factors that determine the effectiveness with which military units and institutions can carry out their missions. In a rapidly changing operational environment, ensuring adequate material security is paramount for maintaining the continuity of military unit and institution operations. Material security is defined as the capacity to fulfil requirements promptly and adequately.

This doctoral dissertation aimed to analyse and evaluate the importance of mobility in the material supply process of military units and institutions, and to identify ways to enhance existing solutions. This objective was achieved. Mobility and its impact on the material security of military units and institutions were analysed using theoretical and empirical research methods. The following theoretical research methods were applied to address the research problems: analysis, synthesis, comparison, abstraction, generalisation and inference. Furthermore, to give the study a practical dimension, the following empirical methods were employed: analysis and synthesis of source documents; direct observation; survey research using questionnaires; and expert interviews and simulation modelling. These methods enabled the positive verification of the main research hypothesis. The study found that physical mobility influences the material security of military personnel and institutions.

Logistical security refers to the ability of military units and institutions to maintain supply continuity, secure and protect stockpiles, and adapt to changing operational conditions. In today's world, asymmetric threats, supply chain disruptions and the mobility of logistics infrastructure mean that materiel security is essential for gaining an operational advantage. Improving the mobility of the materiel subsystem is essential for ensuring the security of military units and institutions.

Keywords: mobility, material security, military units and institutions