

# The Influence of Warehouse Area onto the Efficiency of Warehouse Management

Izabela Kudelska<sup>1,a,\*</sup>, and Krystian Jędrzejak<sup>2,b</sup>

<sup>1</sup> Poznan University of Technology, Faculty of Engineering Management, 60-965 Poznan, Poland

<sup>2</sup> FHU IGLOO, 63-700 Krotoszyn, 79 Kobylińska St, Poland

E-mail: <sup>a,\*</sup>izabela.kudelska@put.poznan.pl (Corresponding author), <sup>b</sup>jedrzejak.krystian@o2.pl

**Abstract.** The warehouse is an important part of the supply chain. They include fluctuations in demand and supply. The decision on the layout of the warehouse is important because it affects several aspects of the warehouse process. The article presents an analytical case study. The authors gain insight into the characteristics of the company's layout and by presenting an alternative warehouse layout for the company, they identify the factors influenced by an incorrectly designed spatial layout. The factors are grouped into three groups: economic, social, organizational. The results of this study provide valuable information for practitioners, showing a holistic approach to reorganizing the spatial layout of the warehouse.

**Keywords:** warehouse, design, warehousing, warehouse layout design