

# DIGITAL TRANSFORMATION IN LOGISTICS: THE NECESSITY OF THE NEW AGE

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## ABSTRACT

**Purpose:** With the development of technology, change and transformation are now a given in any industry. It is common knowledge that utilizing information technology and good management are crucial for corporate success and creating a competitive advantage. Organizations may continue operating more quickly, more effectively, and competitively by providing a strategic framework for adopting digital advances and technological progress. The necessity of finding the correct balance between technological/digital efficiency and company innovation will be emphasized in this article. Additionally, it will go through how permitting safe innovation in response to the shifting demands of the commercial environment may help firms continue operating in a more rapid, effective, and competitive manner.

**Design/methodology/approach:** Our study intends to construct the architectural model of the job to be used for transformation utilizing the TOGAF architectural approach model and DDD (domain-driven design) as a guide. In our analysis of how to build a future journey by utilizing the existing applications/platforms in the company, we incorporate a logistics process that will ensure that every step in the supply chain is traceable and the logistics activities are automated.

**Findings:** Our findings include the absence of a workflow that can examine applications' processes holistically, the absence of a common language between the business unit and technology teams, the duplication of studies, and the inability to develop business processes because of the business execution's immaturity level.

**Research limitations/implications** (if applicable): It is a study where we aim to increase efficiency by using more innovative and technological solutions instead of conventional methods in logistics operations, to provide competitive advantage and to automate logistics processes.

**Practical implications** (if applicable): The foundation of our work is the development of a platform and procedure that will allow transportation functions to be managed from a single location while making use of global architectures and emerging technologies that can be used everywhere while maintaining a high level of security.

**Originality/value:** In this essay, we present the model of the requirement for an enterprise-wide technological and business-oriented transformation to occur simultaneously with a cultural shift toward greater security. By enabling a better understanding and efficient management of risks in transformation projects, this model raises the likelihood that projects will succeed.

**Keywords:** Digital Transformation, Logistics, Technology, Architecture, Culture

## Introduction

Today, all standards and sanctions have changed as a result of technological advancements. It is common knowledge that efficient management and access to knowledge via technology are essential components of corporate success and a crucial instrument for attaining a competitive advantage. They are able to develop digital innovations and provide a strategic context for execution and direction more quickly, efficiently, and effectively in response to the solutions provided by the business environment.

This article will concentrate on the significance of striking the correct balance between corporate innovation and technological/digital efficiency on institutions. We'll talk about studies that let businesses innovate responsively to get a competitive edge.