

**MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION
OF THE REPUBLIC OF UZBEKISTAN**

TASHKENT STATE UNIVERSITY OF ECONOMICS

"DIGITAL ECONOMY AND INFORMATION TECHNOLOGIES"

DEPARTMENT

As a manuscript

UDC:6Π2.15.7:658

MUZAFFAROVA DILBAR MAMALATIF QIZI

**WAYS OF DIGITAL TRANSFORMATION OF FUNCTIONAL
OPERATIONS OF ORGANIZATION**

**Written for an academic master's degree in the specialty 70310106 -
Information technology and systems in economics**

D I S S E R T A T I O N

Scientific supervisor:

PhD in economics

A. Bobojonov

TASHKENT-2023

The master's thesis was defended at the "Digital economy and information technologies" department.

Protocol №. 15 " 25 " 04 2023.

Head of the department: Abdullayev M.K.

U. Fereh 22.05.23
signature date

Scientific supervisor: Bobojonov A.B.

A. Bobojonov 22.05.23
signature date

Student:

Muzaffarova. D.M

[Signature] 22.05.23
signature date

"Recommended for Protection"

"Digital economy and information technologies" department
head, PhD in economics M.K. Abdullayev U. Fereh
" 25 " 05 2023

The defense will be held on 05 " 25 ", 2023 at 10⁰⁰ at the Tashkent
State University of Economics

Abstract

The purpose of this research is to analyze the unique characteristics of the process of implementing the transformation work in the Republic of Uzbekistan and to conduct an analysis based on theoretical considerations. The functional transformation work of the organization was carried out through the "Agile Methodology" analysis. This master's thesis provides its own proposals and recommendations for the way to transform. The TDIU "Department of Working with Gifted Students" was selected to carry out this research work. As a result, the DGS (Digital Gifted Students) platform was proposed for transformation work. This platform aims to develop the abilities of gifted students in all subjects, provide direction for experiences, strengths, methods, and improve them by using new technologies. In addition, proposals and recommendations were developed to streamline the necessary information about gifted students in a single system and facilitate their necessary actions. During the research work, the importance and significance of transformation in the context of the Republic of Uzbekistan and the unique characteristics of working with gifted students in the United States were studied.

Keywords: *Organization, functional, operation, digital, transformation.*

Annotatsiya

Mazkur tadqiqot O‘zbekiston Respublikasidagi tashkilotlarining funksional operatsiyalarini raqamli transformatsiya qilish yo‘llarining o‘ziga xos jihatlarini tahlil qilishni maqsad qiladi va nazariy qarashlardan ko‘ra amaliy tahlillarga tayanadi. Tashkilotning funksional operatsiyalarini raqamli transformatsiya qilish yo‘llari bo‘yicha tahlili “Agile Methodology” si orqali amalga oshirildi. Ushbu magistrlik dissertatsiyasi tashkilotlarni raqamli transformatsiya qilish yo‘llari borasida o‘z taklif va tavsiyalarini beradi. Bu tadqiqod ishini amalga oshirishda TDIU “Iqtidorli talabalar bilan ishlash bo‘limi” tanlab olindi. Bu bo‘lim faoliyatini raqamli transformasiya qilishda “DGS” platformasini yaratish taklifi berildi. Bu platforma orqali iqtidorli talabalarning barcha fanlar bo‘yicha qiziqish va iqtidorlarini rivojlantirish, iste’dod qobiliyatlariga mos keladigan ko‘rik

tanlovlarga yo'naltirish hamda qiziqishlari, kuchli tomonlari, uslublari va afzalliklarini aniqlashda yangicha texnologiyani qo'llash, iqtidorli talabalar to'g'risidagi ma'lumotlarni bir tizimda umumlashtirish va ularni kerakli yo'lishda harakatlantirish bo'yicha taklif va tavsfiyalar ishlab chiqildi. Tadqiqot ishida O'zbekiston Respublikasi hududidagi OTMlari misolida raqamli transformatsiyaning o'rni va ahamiyati, AQSH davlatidagi iqtidorli talabalar bilan ishlashning o'ziga xos jihatlari o'rganildi.

Kalit so'zlar: *Tashkilot, funksional, operatsiya, raqamli, transformatsiya*

Аннотация

Настоящее исследование направлено на анализ конкретных аспектов способов цифровой трансформации функциональной деятельности организаций в Республике Узбекистан и опирается на практический анализ, а не на теоретические взгляды. Проведен анализ путей цифровой трансформации функциональных операций организации с использованием «Аджайл-методологии». В этой магистерской диссертации представлены предложения и рекомендации по путям цифровой трансформации организаций. Для реализации данного исследования был выбран ТДИУ «Отдел по работе с одаренными студентами». Внесено предложение о создании платформы «DGS» для цифровой трансформации деятельности кафедры. С помощью этой платформы развивались интересы и таланты одаренных учащихся по всем предметам, направляя их к вариантам скрининга, которые соответствуют их способностям таланта, и используя новые технологии для выявления их интересов, сильных сторон, стилей и предпочтений, одаренных учащихся. Предложения и спецификации были предназначены для обобщения информации о На примере вузов Республики Узбекистан изучены роль и значение цифровой трансформации, особенности работы с талантливymi студентами в США.

Ключевые слова: *Организация, функционал, работа, цифра, трансформация.*

Content

Abstract	3
List of tables	6
List of figures	7
Abbreviations.....	8
INTRODUCTION.....	9
The basis and relevance of the dissertation topic.....	10
Purpose and objectives of the research	11
Main issues and questions of the research	12
Object and subject of the research	12
Scientific novelty of the research	12
Brief description of the dissertation structure.....	13
CHAPTER I. LITERARY REVIEW	14
1.1 Introduction	14
1.2 Theoretical and conceptual approaches related to the topic.....	14
1.3 Local legislative and regulatory frameworks related to the topic.....	17
1.4 Summary.....	24
CHAPTER II. METHODOLOGY	25
2.1 Research design	25
2.2 Data collection process.....	25
2.3 Analytical techniques used for the research	36
2.4 Required conditions for conducting the research	40
2.5 Anticipated issues and their resolutions during the research process	41
2.6 Expected scientific and practical outcomes	42
CHAPTER III. ANALYSIS AND FINDINGS.....	43
3.1 Analysis of the digital transformation process of functional operations in higher education institutions	43
3.2 Analysis of the implementation of the interactive platform for providing information to students.....	52
3.3 Discussion of the research findings.....	55
CONCLUSION.....	57
Summary of the research.....	57
Main recommendations for further research.....	58
Limitations and suggestions for overcoming them	58
References	59

INTRODUCTION

The practical implementation of digital technologies defines important directions for the development of society and the economy and leads to radical changes in people's lives. The formation of a digital economy is considered a priority for many countries, including the economic leaders - the United States, Great Britain, Germany and Japan. The emergence of new generation technologies, such as artificial intelligence, robotics, and the Internet of Things, requires the start of a new wave of transformations in the social sphere and business activity. According to experts, the introduction of such technologies in regions and companies will increase productivity by 40 percent. According to Microsoft's definition, the main goal of digital transformation is to increase competitiveness and enable a company to develop in an ever-changing economic environment. The difference between digital transformation and a traditional automated system is a dramatic increase in efficiency. Therefore, the successful implementation of transformation usually leads to the creation of new business models. Also, digital transformation cannot be called any ongoing project for the implementation or modernization of corporate information systems in enterprises.

Microsoft highlights the following functions in digital transformation projects:

- 1 a dramatic increase in efficiency:** the key performance indicators of the enterprise can be improved by half.
- 2. the use of cost-effective, large-scale and flexible modern technologies** (Cloud Services, Artificial Intelligence, Internet of Things, big data, robotics, etc.).
- 3. the presence of interrelated changes, that is,** the project should affect several areas of business. Customers should not only be consumers, but should become part of the business and influence the quality of goods and services. The digital economy determines the transformation of traditional sectors of the economy and the direction of entry into new markets. New business models are customer-