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# **ECONOMIC SCIENCES**

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Nº8 (225)  
2023



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Founder: LLC "Economic Sciences", V. A. Meshcherov

Address: 125057, Moscow, Chapaevskii per. 3-775

E-mail: info@ecsn.ru

WWW: <http://ecsn.ru>

Tel.: +7(995)4844669

The Certificate of registration of mass media:

ПИ № ФС77-21147 from 28.06.2005

Subscription index 20387

ISSN 2072-0858

Issue date 01.08.2023

Format 60×84/8

Printed signatures 24.88

1000 copies

Printed by "24 Print" Ltd

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# **REGIONAL AND SECTORAL ECONOMY**

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# Digital transformation of the public administration system – features, problems, prospects

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To date, many researchers have noted the widespread trend of digital transformation, according to which all spheres of life and sectors are becoming digital. The transition to the digital format provides many advantages and new opportunities for individuals and legal entities, as well as for individual sectors, contributing to economic development at the national level and on a global scale. Today, the Russian Federation sets a key goal – the digital transformation of public and state spheres, the creation of a digital economic environment, which is reflected in the Digital Transformation Strategy until 2035. However, when creating and implementing a digital environment, it is important to realize the essential difference between the phenomenon of digital transformation and digitalization (if digital transformation is the creation of a completely digital environment, then digitalization involves the introduction of innovative products and technologies into certain processes). At the moment, a comprehensive digital transformation has occurred exclusively in several states, at a time when other countries are just beginning to introduce innovations in certain areas and sectors. Thus, there is a need to study the foreign experience of digital transformation of the sphere of public administration, to identify the risks of this process and to form the most optimal digital transformation strategy for the Russian Federation. The article presents the main trends of digital transformation of the public administration system in the Russian Federation, and also presents the author's model of digital transformation of the public administration system, the implementation of which in practice will allow not only to introduce digital technologies into the sphere of public administration, but also to provide a comprehensive digital transformation of this sphere.

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**Keywords:** *digital transformation, digitalization, international experience, digital environment, improving the quality of public services, digital format, digital transformation model, author's model.*

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# The Impact of Digital Innovation on Transforming the Life Cycle of an Industrial Enterprise

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The modern development of industrial enterprises is closely related to digital technologies, the application of which causes the transformation of many socially significant processes and the business environment. Production processes, algorithms for interaction with the external and internal environment, a development strategy, which, in turn, leads to a transformation of the life cycle of the enterprise, undergo transformations. Transformation processes can increase the adaptability and efficiency of the enterprise in the digital economy, provided that the innovative infrastructure is used constructively.

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**Keywords:** *industrial enterprise, innovative technologies, innovative infrastructure, life cycle of the organization, digital transformation.*

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# Application of the concept of non-fungeable tokens in the international sports movement

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**Target.** Describe the process of using non-fungible tokens in the international sports movement.

**Tasks.** To identify the prerequisites for the emergence of non-fungible tokens (NFT) in the sectors of the economy; analyze the methodological aspects of working with NFT; give an interpretation of the methods of using NFT in the marketing activities of the subject of international sports; identify possible solutions for managing the software that supports the operation of the NFT.

**Methodology.** The following methods were used in the article: analysis of scientific literature, systematization and generalization in the study of the concept of sequence and change of Moore's Law. It is most important to note that the relevance is presented in the established sequence.

**Results.** The prerequisites for the application of the concept of a sequence of non-fungible tokens in the international sports movement, which contributes to the decentralization of financing and the growth of the productivity of computing processes, are highlighted. The features of the use of NFT in the marketing activities of the subjects of the sports industry are highlighted. Some possible solutions in the management of this tool are proposed.

**Conclusions.** Justified: the need to create a long-term digital platform with a long life cycle, the importance of improving the legislation on the taxation of non-fungible tokens.

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**Keywords:** *non-fungible tokens, NFT, blockchain, technologies, international sports movement.*

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# Analysis of the dynamics of the sector of small and medium entrepreneurship in Russia in various sectors of the economy

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The article studies the dynamics of the functioning of small and medium-sized businesses in Russia. Attention is paid to topical issues of the functioning of this sector. As you know, the mission and functions of small and medium-sized businesses in Russia are modified under the influence of external and internal factors, making adjustments to the living conditions of not only small and medium-sized businesses, but also the population geographically close to the location of these business units.

The article analyzes the distribution of the annual turnover of small and medium-sized enterprises by type of economic activity. The result of the study allowed the authors to identify the excess of the total annual turnover in all sectors of activity of small enterprises over the total annual turnover of medium-sized enterprises, which indicates the dominance of such a business model in the Russian economy. In addition, the authors determined the uneven dynamics of the sector of small and medium-sized businesses in various sectors of the Russian economy, which leaves open for discussion the development and functioning of this sector of the economy of our country.

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**Keywords:** *activity, uneven dynamics, annual turnover, small and medium business, development, economic sector.*

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# Digital transformation and improvement of the activities of chemical companies

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This article discusses the impact of digitalization on the activities of chemical companies. The characteristic features of the current external environment and the specifics of the business operations of chemical companies, which determine the features of digital transformation in this sector, are highlighted. It is concluded that digital and innovative technologies significantly affect the business strategy of chemical firms, pushing companies to concentrate their efforts on the main areas of digital transformation of activities. The opportunities and challenges associated with digitalization in the chemical industry are analyzed. As a result of the study, the main directions of digital transformation of chemical firms were identified depending on the regions and their specialization. The factors slowing down the digital transformation of chemical firms are analyzed. It is concluded that in addition to improving operational efficiency, digital transformation in the chemical industry helps companies solve such problems as supply chain optimization, new product development, sustainability and workplace safety.

**Keywords:** *Business processes, chemical companies, chemical industry, improving the efficiency of economic activities of chemical companies, the competitiveness of chemical companies, digital transformation, digitalization.*

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# Methodological approach to assessing the effectiveness of innovations in the context of sustainable development of an oil and gas enterprise

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The article provides a content analysis of the Sustainable Development Goals declared by the largest oil and gas companies, including Rosneft, Lukoil and Gazprom. A methodological approach to the formation of a system of private indicators and a generalized assessment of the effectiveness of innovations from the standpoint of achieving these goals is proposed. The approach is designed to improve the mechanism of sustainable development.

**Keywords:** *sustainable development goals, oil and gas companies, innovation assessment.*

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# Topical issues of the functioning of small and medium enterprises in Russia

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The article reveals topical issues of analysis and evaluation of the activities of small and medium-sized enterprises in Russia, analyzes the main economic indicators and identifies the features of their functioning in uncertain conditions. Attention is paid to the peculiarities of small and medium-sized enterprises, the characteristics of the main indicators determining the state of this sector are given. Attention is drawn to the impact of the COVID-19 pandemic to varying degrees, which has affected the functioning of small and medium-sized enterprises. In order to understand the current situation on the Russian market and identify the main trends and problems of the activities of economic entities of small and medium-sized enterprises, a statistical analysis of the main indicators was carried out. The types of activities of small and medium-sized enterprises are analyzed. The analytical study made it possible to identify the most developed sectors among small and medium-sized enterprises in Russia. Thus, it was revealed that trade and manufacturing have the largest share in the total.

**Keywords:** *small and medium enterprises, uncertainty, indicators, risks, functioning, economics.*

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# The Impact of COVID-19 on the Value of Automotive Companies

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The period of the COVID-19 pandemic has had a significant impact on the state of the automotive industry market. This article analyzes the state and development trends of the global automobile industry and identifies factors influencing the stock prices of car manufacturers during the pre-crisis period (2018–2019) and the crisis period (2020–2022). The results of the analysis conducted using the Knime platform are presented.

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**Keywords:** *Automotive industry, COVID-19, Pandemic, Crisis, Volatility, Risk, Recovery, Factors.*

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# Development of Russian electric power industry enterprises at the present stage: status and prospects

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The article analyzes the data characterizing the state of the Russian electric power industry enterprises on a wide range of parameters, including innovative indicators, summarizes the targets for the development of the industry. The conclusion is made about the need to improve management mechanisms at the micro level in order to innovatively update fixed assets.

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**Keywords:** *electric power industry, investments, fixed assets, equipment, digitalization, carbon-free energy sources.*

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# Innovative Development of an Industrial Enterprise in a Digital Economy: the Role of Human Capital

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Global digitalization, which covers an increasing number of socially significant human life processes, leads to the transformation of the economy at the world and national levels, as well as at the level of functioning of each individual industrial enterprise. For the effectiveness of the processes of economic and social transformation, reducing the risks from the introduction of digital technologies, which it is possible to consider as negative results and consequences, it is necessary to ensure the implementation of these processes by highly qualified personnel (human capital). However, digital transformation also influenced the development of human capital, fundamentally changing the requirements of the labor market for the knowledge and skills of demanded specialists, as well as provoking the emergence of new areas of professional employment (new professions), requiring specialists to have a new set of professional competencies and knowledge.

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**Keywords:** *industrial enterprise, digitalization, innovative development, innovative infrastructure, human capital, automation of production processes.*

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# Fuzzy-multiple approach to risk assessment analysis in the oil industry

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The oil industry is a vital component of the global economy, providing fuel for transportation, raw materials for production, and energy for households and businesses. Despite its importance, the oil industry is inherently risky, with numerous hazards associated with extraction, transportation, and storage. Therefore, risk assessment is necessary for stakeholders to make informed decisions that reduce potential threats and ensure sustainable industry development. This article discusses the challenges of risk assessment in the oil industry and presents an approach to solving such problems based on the use of a fuzzy-set model. By applying the capabilities of fuzzy logic and decision making based on multiple criteria, the presented model allows for the evaluation of risk levels and their dynamics over time. Data from the period 2015 to 2022 were analyzed. The article considers four groups of risks – resource availability, demand, financial obligations, and consumer-related risks. The advantages of the presented fuzzy-set model include its ability to effectively reflect the uncertainty inherent in the oil industry, allowing for a more accurate and reliable risk assessment procedure. Moreover, the approach presented allows for the identification of significant risk groups when developing an oil field, providing industry participants with valuable information to improve their risk management strategies.

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**Keywords:** *fuzzy-multiple model, oil industry, oil deposit, risk management, uncertainty, risk assessment, sustainability, energy, raw materials, production.*

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# Improving the regulatory framework for environmental and economic taxation and substantiation of the use of land and other types of natural resources

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This article discusses the features of the implementation of taxation in order to improve the regulatory framework of the environmental-economic justification for the use of land and other types of natural resources. Control over the receipt of tax payments to the budget of the region is of great importance and has an impact not only on the economy of the state, but also on socio-economic tasks and the status of the tax system as a whole. Scientific research on this topic is aimed at identifying the problems of the implementation of the activities of the subjects of the environmental-economic justification for the use of land and other types of natural resources. The purpose of this study is to study the problems of management and control of taxation, aimed directly at ensuring the security of budget revenues from the outside.

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**Keywords:** *taxes, budget, region, land tax, natural resources, land, environmental and economic justification.*

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# On the role of small and medium businesses in the context of the comprehensive development of monocities

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The activity of small and medium-sized businesses makes a significant contribution to the implementation of the goals and principles of sustainable development, positively affects the socio-economic policy of single-industry towns. Today in Russia, small and medium-sized businesses are focused on balanced economic, social and environmental development.

The development of small and medium-sized businesses or small and medium-sized enterprises is a key factor in building an efficient and diversified economy in a sustainable environment. Small and medium business is a key factor in the development of the economy of many countries, as it contributes to the growth of production and employment. The development of small and medium-sized businesses in Russia is important for creating new jobs, improving the living standards of people and reducing unemployment, especially in single-industry towns that are entirely dependent on the activities of city-forming enterprises.

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**Keywords:** *city-forming enterprises, single-industry towns, socio-economic policy, efficient economy.*

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# Mathematical model of logistics

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The purpose of this article is to describe the interaction process between component suppliers necessary for production and the actual enterprises. A rational approach to systematizing the functioning of the enterprise is proposed, which will contribute to achieving two main goals: ensuring production and increasing profitability. The interdependencies of production volumes and the procurement of necessary components are discussed. The distinguishing feature of this model is that it takes into account both the costs of acquiring components and the revenue from product sales. The model assumes a close relationship between the capabilities of the enterprise's suppliers and its needs. In this model, the main focus is on ensuring the reliability, timeliness, and volume of component deliveries, which should be fixed in contracts. It takes into account accounts payable, which directly influences the amount of funds allocated for procurement. The model considers the availability of component stocks at the time of their acquisition. One of the significant advantages of this model is efficient inventory and component management while optimizing their level. The model can help reduce the need for working capital by using a logistics strategy based on available working capital, attracting enterprise assets in the form of debt obligations, and using them to timely procure the necessary components in the required volume. Such a strategy ensures financial stability and security for the enterprise, helps cope with economic challenges and risks, and increases its profitability, leading to increased revenue.

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**Keywords:** *Logistics, economic-mathematical model, economic security of the enterprise, production program.*

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# FINANCE

# Self-employed citizens: status and financial support.

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Among representatives of small businesses – self-employed citizens, a special tax regime remains relevant – the professional income tax (NDP), which is designed for ease of use: simplification of tax registration, automatic formation of the tax base, exclusion of tax reporting. The article considers the aspect of the special status of self-employed citizens as a precariat, characterized not as a class, but as a “social stratum” that does not have stable employment, social guarantees, development in the profession, which contributes to the limitation of the ability to think for the future and who have no involvement in the life of society, to create the most effective conditions for successful management by the state they are business owners. The author proposes to define such a list of professions for the NDP, which would require high qualifications and demand for services and developments of the self-employed in the development of the economy. In this regard, it is necessary to clarify the essence and effectiveness of the measures proposed by the state.

**Keywords:** *self-employed citizens, precariat, financial support for the self-employed, professions of the self-employed.*

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# The importance of transparency in venture funds: strengthening accountability and stimulating growth

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Transparency plays a critical role in the operation of venture capital funds, helping to increase accountability, investor confidence and the overall growth of the industry. This article discusses the importance of transparency in venture capital activities, highlights its benefits, and explores the challenges associated with its implementation. By reviewing existing literature and industry practices, this article provides insight into the role of transparency in improving investment decision making and creating a healthy investment ecosystem. The findings highlight the need for robust reporting and disclosure mechanisms, industry-wide standards and regulatory frameworks to ensure transparency in venture capital activities.

**Keywords:** *venture investments, reporting, transparency, monitoring.*

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# Genesis of the value of digital assets in the context of the priestization of capital logic

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Global digitalization has led to the emergence of a new class of digital assets that require essential decomposition to form the correct conceptual apparatus. The relevance of this process is dictated by the rapid growth of the capitalization of this class of assets. The purpose of this research work is to comprehend the genesis of the development of the property of value of a digital object for an attempt to subsequently verbalize the boundaries of the definition of a digital asset. The basic research method is the axiological approach, due to the interdisciplinary nature of the subject. The main results of the study include the following: the genesis of the value of digital assets within the framework of the dominance of capital logic is based on the complex interaction of technological, economic, socio-legal and philosophical factors; digital asset – a representation of the value of a digital object, which, in fact, is a virtual reflection of an idea. The results obtained will be useful to researchers in the field of digital currencies, cryptocurrency exchanges, financial technologies.

**Keywords:** *digital object, digital asset, value, axiology, capitalization of ideas.*

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# Estimation of public debt as an indicator of financial and budgetary security of the region

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The subject of the study relates to the issue of efficiency, with regards to the financial security of the country and regions, in particular. To date, there is no single methodology for assessing the financial and budgetary security of regions that correspond to modern, dynamically changing economic conditions, taking into account the characteristics of Russian regions. The purpose of the study in this article is to assess the balance of the budget and public debt as indicators of the financial and budgetary security of the region. The objects of the study are the financial and budgetary security of the constituent entities of the Russian Federation and monitoring as a necessary institution for its provision. The subject of the study is the public debt as an indicator of the financial and budgetary security of the region. The scientific novelty of the study is as follows: The theoretical significance of the results of the study lies in the critical generalization of the existing domestic experience in assessing the financial and budgetary security of the regional level, systematization and calculation of financial and budgetary security on the basis of the main indicators - the balance of the budget and public debt in order to find ways to improve economic security regions of Russia. The possibility of using the results of the study as a basis for research, analytical and project activities for authors studying the problems of financial and budgetary security of the regions. The results of the study can be used in the activities of the executive bodies of state power in the field of budgetary relations.

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**Keywords:** *Balanced budget, indicator of economic security, financial and budgetary security, public debt of the republic, budget policy, method of extremely critical indicators.*

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# Impact of big data on the Russian financial sector

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The realities of the current moment in time are that analysts are more and more faced with modern Big Data technologies and will learn how to handle them in order to remain in demand in the labor market. The main goal of big data technology in the financial sector is to increase productivity while reducing risks and errors, with the ultimate goal of increasing the profitability of the company. Accordingly, the purpose of the study is to analyze the implementation of Big Data technology in the financial sector of Russia. To achieve the goal of the study, empirical analysis methods were used to conduct a qualitative assessment of technology penetration, namely, a descriptive method that allowed us to characterize the essence of Big Data technologies in the financial sector, as well as historical, to analyze the process of introducing new technologies in the financial sector. The sources of information are analytical materials, articles and data published by companies. The conclusion of the study noted the advantages of Big Data technology: allows you to store and process a gigantic array of unstructured data that cannot be processed using classical and processing methods. Big Data can provide benefits in terms of developing and monitoring the performance of companies and managers, as well as in predicting certain financial indicators. The effective implementation of Big Data technologies requires trained staff to respond quickly to management decisions and use Big Data technologies appropriately in their work. Therefore, it is advisable for the management of companies to provide training to their staff in working with Big Data technologies. A further area of research is the study of the impact of big data on the example of a particular company.

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**Keywords:** *Big Data, digitalization, technologies, financial sector, management, investments.*

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# **WORLD ECONOMY**

# Systems of payments and settlements in the national currencies of Russia and Central Asian countries as an element of support for economic cooperation

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In the context of growing sanctions pressure on Russia, there is an active reorientation of trade and investment payment flows to Asian countries. The closest neighbors of Russia and its traditional economic partners are the countries of Central Asia. In this regard, it seems important to consider the features of the payment systems existing there.

**Keywords:** *settlements, payment system, national currency, Central Asia, economic cooperation.*

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# MANAGEMENT

## The choice of the best platform for building dashboards

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With the sharply increasing popularity of dashboards for analysing various company metrics, the number of software products that allow to build a dashboard is increasing. This article describes the methodology of selecting the best software to build a dashboard using the hierarchy analysis method.

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**Keywords:** *dashboard, hierarchy analysis method, platform, Microsoft BI, Qlick Sence, preference scale.*

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## Analysis of modern methods and tools of strategic enterprise management

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The article deals with topical issues related to the implementation of the concept of strategic management of modern enterprises. Special attention is paid to the methods and tools of strategic management, which are used by business entities. Particular emphasis is placed on the effectiveness of their use and the conditions for more efficient use, depending on business objectives.

**Keywords:** *strategy, enterprise, management, plan, cost, customers, market, competition, method.*

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