

Varazdin Development and Entrepreneurship Agency and University North
in cooperation with
Azerbaijan State University of Economics (UNEC)
Faculty of Management University of Warsaw
Faculty of Law, Economics and Social Sciences Sale - Mohammed V University in Rabat
Polytechnic of Medimurje in Cakovec



Economic and Social Development

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Editors:

Altay Ismayilov, Khatai Aliyev, Manuel Benazic



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CONTENTS

INTERNATIONAL ASPECTS OF TRANSPORT INFRASTRUCTURE DEVELOPMENT	1
Mehriban Samadova, Galina Grinenko, Alexander Troshin, Svetlana Ykimchuk	
HUMAN RESOURCES IN DIGITAL ECONOMY	10
Anna Volkova, Dina Konstantinova, Marina Kudaeva, Yulia Masalova	
ROBUST HOMEOSTASIS PARAMETERIZATION - THE REGULATOR OF THE ECONOMIC SYSTEM OPERATING ACTIVITY	17
Mikhail Alekseev, Elizaveta Freydina, Lyudmila Rudi, Tatyana Vladimirova, Nataliya Kravchenko, Nadezda Ulanova	
DIGITAL BANK CONCEPT	30
Yuriy Shvetsov, Galina Tarasova, Vladimir Balikoev, Alexandra Shmyreva	
INFORMATION AS AN OBJECT OF CIVIL RIGHTS	35
Elena Kholmova	
THE IMPACT OF DIGITAL TRANSFORMATION ON THE FORMATION OF MANAGEMENT TOOLS USED BY MODERN COMPANIES	41
Akmaeva Rayasa, Abbasova Sevinj	
IMPROVING THE NORMATIVE LEGAL BASE FOR THE REGULATION OF LABOR RELATIONS	48
Arabiya Mustafayeva	
THE USE OF TOURISM SLOGANS AND LOGOS IN THE CASE OF EUROPEAN CAPITALS – A POSSIBLE CLASSIFICATION	52
Arpad Papp-Vary, David Wolf, Mate Farkas, Szabolcs Szolnoki	
PUBLIC AUDIT IN THE SYSTEM OF ENSURING REGION ECONOMIC SECURITY (THE ASTRAKHAN REGION EXAMPLE)	74
Perepechkina Elena, Samarets Tatyana, Mamedova Aida, Kasumova Lala, Babashirinova Esmira	
CYCLICAL FLUCTUATION IN MONEY LAUNDERING: CASE STUDY OF AZERBAIJAN, TAJIKISTAN, UKRAINE AND KAZAKHSTAN	83
Atik Kerimov, Anton Boyko, Victoria Bozhenko	
THE DIMENSION OF FINANCING OF NON-PROFIT ORGANIZATIONS IN SLOVAK REPUBLIC	93
Dagmar Hraskova	
GREEN INTELLECTUAL CAPITAL AND COMPANY PERFORMANCE	100
Eldar Khanlarov, Serhiy Lyeonov, Lyudmila Starchenko	

THE IMPACT OF TIME MANAGEMENT ON FINANCE OF SLOVAK NON-PROFIT ORGANIZATIONS.....	110
Emilia Gresakova	
TOOLS FOR STRATEGIC RESEARCH OF THE NATIONAL SECURITY SYSTEM - METHODOLOGY FOR RESEARCH USING SIMULATION BUSINESS GAME....	117
Venelin Terziev, Mitko Stoykov	
ELECTRONIC SERVICES AS SUPPORTING FACTOR OF QUALITY OF LIFE IN DIGITAL ECONOMY.....	126
Zuzana Stofkova	
MULTINATIONAL BANKING IN THE TIMES OF CORONAVIRUS OUTBREAK: TRENDS AND CHALLENGES	135
Fahri Murshudli, Roksolana Zapotichna	
MARKETING OF SOCIAL TOURISM.....	147
Farhad Rahmanov, Nataliia Letunovska, Oleksii Lyulyov	
RESEARCH OF INDICATORS OF QUALITY OF RIVER CANCER, (ASTACUS LEPTODACTYLUS) FISHED FROM MINGECHAUR RESERVOIR	161
Farida Guliyeva	
THE ROLE OF BIOKIBERNETICS IN THE HUMAN IMMUNOLOGICAL SYSTEM	165
Vladimir Nikolayevich Golubev, Farzaliyev Elsevar Baba Oglu	
HOW TO INCREASE THE EFFICIENCY OF UTILIZATION OF CREDIT RESOURCES BY THE PRODUCTION SECTOR.....	169
Javadov Ramiz Javad, Feyzullayev Mushfig Ahad	
MANAGERIAL DISRUPTIVE STRATEGIES IN THE GLOBAL MUSIC INDUSTRY: BUILDING OF THE COMPETITIVE ADVANTAGES OF SPOTIFY AND PANDORA DIGITAL STREAMING CORPORATIONS	183
Josko Lozic	
CLUSTERING AS A DRIVER OF REGIONAL ECONOMIC COMPLEXES INNOVATIVE DEVELOPMENT IN CONDITIONS OF KNOWLEDGE ECONOMY FORMATION	195
Elena Kostuchenko, Sevinj Abbasova, Vladimir Klyunya	
REMUNERATION STRUCTURE ACCORDING TO OCCUPATIONS IN POLAND IN 2018	204
Agata Gomolka	
GLOBAL ENERGY SECURITY AS A GLOBAL PUBLIC BLESS.....	212
Rauf Qusxani, Maksimov Ivan, Matsuy Elena, Kryukova Ekaterina	
ABOUT SOME ASPECTS AND FEATURES OF FORMATION OF THE DOMESTIC MARKET OF MERGERS AND ABSORPTIONS	220
Kogan Marina, Svetlana Mammadova, Lala Hamidova, Leman Kashiyeva	

REGIONAL DIFFERENCES IN THE WAGES OF AGRICULTURAL WORKERS AND THEIR REGULATION.....	227
Mirzabayova Mehriban Samaddin	
SUSTAINABLE GROWTH AND COUNTRY GREEN BRAND: VISUALIZATION AND ANALYSIS OF MAPPING KNOWLEDGE	234
Naila Akhundova, Tetyana Pimonenko, Yana Us	
DIGITAL EDUCATIONAL SERVICES IN THE CONDITIONS OF GLOBAL CHALLENGES: ANTI-CRISIS INSTRUMENT OR NEW REALITY	244
Natig Gadim-Oglu Hajiyev, Pogodina Irina Vladimirovna, Avdeev Danila Alekseevich, Mamedov Sabir Niyazovich, Sugra Ingilab Humbatova	
MORTGAGE LENDING MARKET: CHALLENGES AND PROSPECTS.....	250
Aydin Rafiyev, Natalya Solovjeva, Natalia Melnikova	
EDUCATION FOR SUSTAINABLE DEVELOPMENT AS A TOOL TO REACH HIGH QUALITY IN TEACHING.....	260
Farhad Rahmanov, Nadiya Kostyuchenko, Denys Smolennikov, Farhad Huseynov	
NEW AGE OF MARKETING - NEUROMARKETING	269
Leonarda Jez, Ana Mulovic Trgovac, Ante Roncevic	
EARNINGS MANAGEMENT: THEORETICAL BACKGROUND AND BIBLIOMETRICS ANALYSIS OF THE ISSUE	277
Anna Siekelova	
RATIONALITY OF PUBLIC INFLATION EXPECTATIONS	287
Avaz Alakbarov, Anna Buriak, Anna Lasukova	
CENTRAL BANK INDEPENDENCE MEASURING	296
Azer Babayev, Tetyana Vasilyeva, Victoria Dudchenko	
CHANGE FROM PERSONNEL MANAGEMENT TO HUMAN RESOURCE MANAGEMENT IS AN EPISTEMOLOGICAL NECESSITY OR RHETORIC CHANGE?	306
Hasan Tutar, Teymur Sarkhanov	
POVERTY ALL OVER THE ROMANIAN RURAL AREA - SHORT MONOGRAPH OF SOME RURAL LOCALITIES IN ROMANIA WITH THE LOWEST POVERTY LEVEL.....	314
Cristina Stroe	
THE APPLICATION OF REMOTE SENSING DATA FOR WHEAT YIELD PREDICTION	326
Anna Pavlova	
INTERNATIONAL BANKING BUSINESS' EXPANSION IN DEVELOPING MARKETS: PRE AND POST-CRISIS FRAMEWORKS	333
Fahri Murshudli, Sergii Sheludko	

IMPACT OF INNOVATIONS ON THE STANDARD OF LIVING IN THE CONTEXT OF THE CRISIS AND FALLING EXPORT PRICES FOR ENERGY RESOURCES 344

Farhad Rahmanov, Inna Bagautdinova, Irina Degtyareva

APPLICATION OF SQDCME OPERATIONAL MANAGEMENT SYSTEM IN EDUCATIONAL ORGANIZATIONS.....354

Irina Chistnikova, Yana Mochalova, Svetlana Ivashchenko, Kerimova Tahira, Dilavarov Farid

LABOR MARKET MANAGEMENT MECHANISMS IN GEORGIA ACCORDING TO CURRENT TRENDS361

Nino Paresashvili, Rusudan Kinkladze, Ketevan Chitaladze, Zumurud Nadjafova, Teona Edzgveradze

NETWORK HUMAN CAPITAL AS A FACTOR OF INTER-REGIONAL INTERACTION IN THE CONTEXT OF DIGITAL TRANSFORMATION: RUSSIAN AND FOREIGN EXPERIENCE371

Elena Stryabkova, Leyla Hajiyeva, Elnur Aliyev, Anna Kulik, Mikhail Kochergin

PROSPECTS FOR THE DEVELOPMENT OF INTERNATIONAL TRANSPORT CORRIDORS IN MODERN GEO-ECONOMIC CONDITIONS382

Mansur Barxudarov, Esmira Ahmadova, Kryukova Ekaterina

ASSESSMENT OF VALUE ADDED TAX GAPS: CROSS-COUNTRY ANALYSIS..390

Mirdamad Sadigov, Inna Tiutiunyk, Svitlana Pokhylko

BLOCKCHAIN TECHNOLOGY BASED SYSTEM-DYNAMIC SIMULATION MODELING OF ENTERPRISE'S CYBER SECURITY SYSTEM.....399

Mustafa Sadigov, Olha Kuzmenko, Hanna Yarovenko

SUSTAINABILITY ACCOUNTING & REPORTING ASSESSMENT SYSTEM: ROLE IN INDEPENDENT VERIFICATION FOR STAKEHOLDERS INTERESTS409

Niyazi Ismayilov, Inna Makarenko, Serhiy Makarenko

THE IMPACT OF FINANCIAL CRISIS ON THE PERFORMANCE OF LARGE CROATIAN BANK.....419

Ante Roncevic, Marina Gregoric, Dajana Maria Horvat

ECONOMETRIC ESTIMATION OF THE IMPACT OF INTEGRATION OF EDUCATION AND SCIENCE ON SUSTAINABLE DEVELOPMENT (ON THE EXAMPLE OF CIS COUNTRIES, UKRAINE AND GEORGIA).....429

Yadulla Hasanli, Sardar Shabanov, Salman Najafov, Oleksandr Krupskyi

THE CORONAVIRUS EPIDEMIC AS A WAY TO INFLUENCE TOTAL WORLD ECONOMY'S TRANSFORMATION: ANALYSIS AND FORECAST437

Sevda Mamedova, Inna Bagautdinova, Vitaly Vasiltsov

FORECASTIC CONTOURS OF THE DIGITAL ECONOMY IN THE FUTURE446

Sevinj Abbasova, Inna Bagautdinova, Irina Degtyareva

SIGNIFICANT ISSUES OF ORGANIZATIONAL CONFLICT MANAGEMENT457

Nino Paresashvili, Natiq Gurbanov, Badri Gechbaia, Ketevan Goletiani, Teona Edzgveradze

STRATEGY OF DISORGANIZATION OF LABOR AND HUMAN RESOURCE MANAGEMENT POLICIES	465
Hasan Tutar, Teymur Sarkhanov	
OPPORTUNITIES AND LIMITATIONS OF THE INDICATOR SYSTEM FOR FINANCIAL DIAGNOSTICS AND BANKRUPTCY FORECASTING.....	473
Svetlana Nadezhdina, Sergey Filatov, Tatyana Khramtsova, Alexander Shaposhnikov, Maria Krasnova	
THE CONCEPT OF A PROACTIVE APPROACH TO ANALYZING THE EFFECTIVENESS OF INVESTMENTS IN NATURAL RESOURCES	482
Vladimir Kalugin, Elena Lavrinenko, Mehriban Aliyeva, Yana Bondareva	
THE CURRENT STATE OF RUSSIA’S FISCAL POLICY FUTURE.....	489
Tunzala Gurbanova, Guzel Tokareva, Olga Shalina, Faniya Rastegaeva	
SPATIAL DEVELOPMENT OF TERRITORIES BASED ON A SYSTEM OF KEY PERFORMANCE INDICATORS	499
Vafa Huseynova Arif, Marina Vladyka, Viktor Zakharov, Elena Gorbunova	
HOW TO COMMUNICATE A PRICE TO THE CUSTOMERS	507
Zdenka Vidrova, Lubica Gajanova	
FINANCIAL INNOVATION IN THE CONDITIONS OF DIGITALIZATION OF THE ECONOMY	515
Ali Abbasov, Zahid Mamedov, Victoria Kovalenko	
ON THE POSSIBILITY OF INCREASING THE ROLE OF EDB AND CENTRAL BANKS OF EAEU COUNTRIES IN THE STIMULATION OF INTEGRATION PROCESSES IN THE UNION TERRITORY	525
Zohrab Ibragimov, Elena Linkevich	
HUMAN RESOURCES AS AN AREA FOR ENTERPRISE INNOVATION	533
Zuzana Rosnerova, Boris Kollar	
THE INNOVATIONS ROLE IN FACILITATING REGIONAL DEVELOPMENT...543	
Olga Nosova, Tetiana Nosova, Natiq Qurbanov, Damirov Yashar	
INNOVATIVE MANAGEMENT PERSPECTIVE: ABM - ACTIVITY BASED MANAGEMENT	554
Olga Ponisciakova	
RISK FACTORS FOR MALIGNANCY: SOCIAL AND PSYCHOLOGICAL ASPECTS	562
Diana Tsiring, Yana Sizova	
THE IMPACT OF COVID-19 CORONAVIRUS ON FINANCIAL MARKETS: A QUALITATIVE APPROACH.....	567
Richard Ajayi, Fuzuli Aliyev, Teymur Sarkhanov	

EASTERN MEDITERRANEAN GAS RESERVES: A RISING CRISIS FOR TURKEY AND REGION	572
Sayyad Sadri Alibabalu, Teymur Sarkhanov	
EMISSIONS AND WASTE IN THE CONDITIONS OF SUSTAINABLE DEVELOPMENT: SEARCH FOR THE ECOLOGICAL BALANCE	578
Sadiq Binyamin Oqlu Nazaraliyev, Baranova Alla Fedorovna, Pogodina Irina Vladimirovna, Mamedov Sabir Niyazovich	
FACTORS OF ATTRACTION AND HUMAN CAPITAL ACCUMULATION IN THE FRAMEWORK OF A MACRO-REGION	586
Mustafayeva Zohra Ismayil, Glotova Anastasia Sergeevna, Titova Irina Nikolaevna, Druzhnikova Elena Petrovna	
NEW APPROACHES OF HUMAN CAPITAL MANAGEMENT IN CONTEXT OF EMOTIONAL INTELLIGENCE	595
Peter Seemann, Zuzana Stofkova	
ECONOMIC, SOCIAL, AND INSTITUTIONAL DETERMINANTS OF DOMESTIC CONFLICT IN FRAGILE STATES	603
Syed Muhammad All-e-Raza Rizvi, Marie-Ange Veganzones-Varoudakis	
ECONOMIC GROWTH AND PUBLIC GOVERNANCE: FORESIGHT SCENARIOS	613
Shahin Sadigov, Oleksii Lyulyov, Tetyana Vasylieva	
IMPORT SUBSTITUTION AS FACTOR OF ECONOMIC SECURITY	624
Rauf Gushkhani, Huseynova Shahla Akif, Meshkova Anna	
TO THE QUESTION OF THE CONCEPT OF "CAREER GUIDANCE" IN THE CONCEPT OF COMPETITIVENESS	632
Svetlana Sotnikova, Olga Prokudina	
E-COMMERCE FROM THE PERSPECTIVE OF VISEGRAD COUNTRIES	641
Tatiana Corejova, Milan Garbier, Roman Chinoracky, Alexandra Valicova	
MARKETING MIX AS PART OF MARKETING STRATEGY USED IN THE SERVICE INDUSTRIES	649
Veronika Paurova, Margareta Nadanyiova	
CHANGES IN WORK OF TRUCK DRIVERS FROM THE ASPECT OF SAFETY AND PSYCHOSOCIAL RISKS.....	658
Viera Sukalova	
INTERNATIONAL SANCTIONS AS AN ECONOMIC SECURITY THREAT	668
Ekaterina Vostrikova, Samedova Mehriban, Huseynova Shahla Akif, Aliyeva Mehriban, Leyla Alikhanova	
FINANCIAL SECTOR DEVELOPMENT: EFFICIENCY OF THE REGULATION AND PUBLIC TRUST	677
Zohrab Ibragimov, Maryna Brychko, Serhiy Lyeonov	

FISCAL EFFECTIVENESS OF ENVIRONMENTAL TAXES: CASE OF EUROPEAN COUNTRIES	688
Avaz Alakbarov, Alina Vysochyna, Yaryna Samusevych	
CURRENT TRENDS IN THE STATE AND DEVELOPMENT OF THE INSURANCE SECTOR	698
Nizami Khudiyev, Natalia Putivtseva, Tatyana Zaitseva	
EVALUATION OF THE FINANCIAL HEALTH OF NON-PROFIT ORGANIZATIONS: A CASE STUDY IN THE SLOVAK REPUBLIC	708
Ivana Podhorska	
FROM CULTURAL HERITAGE TO CULTURAL TOURISM IN OSIJEK-CROATIA: CURRENT SITUATION AND DEVELOPMENT PERSPECTIVES	717
Marta Boric Cvenic, Hrvoje Mesic, Marija Tolusic	
FINTECH IN ECONOMIC GROWTH: CROSS-COUNTRY ANALYSIS	729
Shahin Sadigov, Tetyana Vasilyeva, Pavlo Rubanov	
THE IMPACT OF FINANCIAL CRISIS ON THE BANKING DEVELOPMENT (WORLD EXPERIENCE AND UKRAINE)	740
Zahid Mamedov, Ulyana Vladychyn, Sophia Lobozyńska	
THE IMPACT OF CURRENCY RESTRICTION ON THE FOREIGN EXCHANGE MARKET (EXPERIENCE OF UKRAINE)	751
Azer Babayev, Iryna Skomorovych, Roya Khanlarova	
IMPACT INVESTMENT: A SMART STRATEGY FOR SUSTAINABLE DEVELOPMENT GOALS ACHIEVEMENT	761
Huseynova Vafa Arif, Julia Lyshchikova, Tatyana Dobrodomova	
TRENDS OF THE ATTRACTIVENESS OF AZERBAIJAN TOURISTS IN GEORGIA	770
Nino Abesadze, Otar Abesadze, Lala Amanova	
OIL PRICES AND MACROECONOMIC INDICATORS OF OIL EXPORTING AND OIL IMPORTING COUNTRIES	778
Sugra Ingilab Humbatova, Manuela Tvaronaviciene, Natig Gadim–Oglu Hajiyev	
TRANSPORT COSTS AND THEIR POSITION IN THE LOGISTICS CHAIN	790
Peter Majercak	
TRANSNATIONALIZATION AND DIGITALIZATION OF BANKS AS MEANS OF EVOLVING EFFICIENCY NOT ACCOUNTABILITY	798
Fahri Murshudli, Boris Loguinov	
CREATIVE ACCOUNTING AND ITS POSSIBLE NEGATIVE IMPACTS IN SELECTED COUNTRIES OF THE CENTRAL EUROPE REGION	810
Boris Kollar	

APPLICATION OF THE KOTHARI MODEL TO ASSESS THE EXISTENCE OF EARNINGS MANAGEMENT IN ENTERPRISES IN THE CZECH REPUBLIC	820
Lenka Strakova, Peter Adamko	
THE PARADIGM OF HUMAN CAPITAL IN THE CONTEXT OF DIGITALIZATION ACROSS COUNTRIES	829
Bayramova Sevinc Rafiq, Anna Kogteva, Natalya Gerasimova, Elena Veiss	
BENCHMARKING AS A TOOL FOR IDENTIFYING THE DIRECTIONS OF SMART SPECIALIZATION IN THE REGION.....	838
Elnara Samedova, Elena Stryabkova, Mikhail Kochergin, Anna Kulik	
THE METHODS OF MANAGING FOR RISK OF COMBATING MONEY LAUNDERING (LEGALIZATION) OF PROCEEDS FROM CRIME AND THE FINANCING OF TERRORISM.....	846
Atik Kerimov, Galina Azarenkova, Alexander Masharsky, Tetiana Tomarovych	
HOUSEHOLD FINANCIAL BEHAVIOR IN COUNTRIES WITH TRANSITION ECONOMIES: EFFECTS AND CONTRADICTIONS	856
Azer Babayev, Bogdan Stetsenko	
BRANDING OF CROATIAN ISLANDS ON SELECTED EXAMPLES.....	864
Ivana Bekic, Nina Bozickovic, Zrinka Mrkonjic	
BLOCKCHAIN TECHNOLOGY IN BANK'S ANTI-MONEY LAUNDERING.....	874
Atik Kerimov, Vitaliia Koibichuk, Serhii Mynenko	
MARKETING AND MANAGEMENT STRATEGIES FOR ENHANCING GREEN COMPETITIVENESS	884
Eldar Khanlarov, Olena Chygryn, Oleksii Lyulyov	
DEVELOPMENT OF METHODOLOGY AS PART OF APPLIED TOOLS FOR STRATEGIC RESEARCH AND ASSESSMENT OF INSTITUTIONAL STABILITY OF THE NATIONAL SECURITY SYSTEM	894
Venelin Terziev, Mitko Stoykov	
DIGITALIZATION OF THE BANKING ENVIRONMENT: FORMATION OF EFFECTIVE BANK ECOSYSTEMS.....	905
Fahri Mourshoudli, Natalya Bykanova, Denis Evdokimov	
LINKING BETWEEN FINANCIAL LITERACY AND EXTENDING OF FINTECH SERVICES.....	915
Mirdamad Sadigov, Olena Pakhnenko, Serhiy Lyeonov	

ECONOMIC GROWTH AND PUBLIC GOVERNANCE: FORESIGHT SCENARIOS

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ABSTRACT

The stable social and economic development of the national economy could be achieved by developing the mechanism to solve the contradictions in the triangle: society-government-economics. In this case, the most crucial goal was synchronising and harmonisation of economics and political reforms on the target and goals. In the paper, the authors highlighted that reforming was closely connected to the foresight of political institutions impact on economic development, which emphasised the features and efficiency of the national economy. The paper goal was to the foresight of economic growth, considering the tendency on political institutions efficiency. The generalisation of the approaches to estimate of the political institutions' role, confirmed the significant impact on the social development. Thus, political institutions structured the institutional environment and developed the stimulus on offers of production's factors, specialisation and realisation of innovations. The political competitiveness had an impact on the different parts of the neoclassical model of economic growth: the accumulation of labour and capital, the accumulation of human capital, and productivity. However, the scientists had not investigated the features of political institutions' impact on the quality and quantity parameters of economic growth mentioned above. The study used the developed autoregressive integrated moving average model (ARIMA) for the foresight of economic growth of the selected countries considering the tendency on political institutions efficiency. The null hypothesis of the investigation was the checking of a unit root was present in a time series sample using the augmented Dickey-Fuller test. The core criteria of political institutions' efficiency were indicators developed by the World Bank – «The Worldwide Government Indicators». The time of analysis was 2000-2019 with a forecast horizon of 10 years. The findings confirmed the dependency of economic growth from the level of corruption and political stability at the most significant level. It means that declining corruption leads to direct and indirect positive effects: increasing the efficiency of political institutions.

Keywords: ARIMA, Unit root, Foresight, Government indicators

1. INTRODUCTION

Providing stable social and economic development of the national economy requires the development of effective mechanisms to overcome the contradictions in the triangle: society-government-economy (Bilan et al., 2019; Ibragimov et al., 2019). In this case, the most crucial goal is to synchronize and harmonize economic and political reforms (Sadigov, 2018).

Thus, the first task of the social and economic system of relations that exist in the country is providing economic growth. The reforming of the national economy is closely related to the estimation of the dimensions which influenced economic growth. Besides, these dimensions identify the features and efficiency of the national economy (Sadigov, 2004). The short-term analysis of the economy could be characterized by the continuing fluctuating of the production volumes, unemployment rate, price, increasing of the real production volume (Shkolnyk et al., 2018; Rekunen et al., 2019; Jafarzadeh, Shuquan, 2019; Pavlyk, 2020). In the long-term perspectives, economic growth is a positive dynamic of the aggregate supply or potential output of goods and services, the analysis of factors and patterns of which is one of the central tasks of economic science.

2. LITERATURE REVIEW

The complexity and multidirectional of economic growth as a term justified the ambiguities at the stage of determining the nature and content categories (Ibragimov et al., 2019). Thus, the American economists – representatives of the classical school, P. Samuelson and W. Nordhaus, economic growth defined as the longterm tendency of increasing the real output of goods and services in the economy. The findings of the analysis of the approach to defining "economic growth dimensions" allowed identifying the differences in the interpretation of its category. The scientists allocated the dimensions as follows as: the main factors of production that ensure GDP growth; resources involved in the production process; GDP growth determinants; sources and processes that determine economic growth, etc. Relevant scientific directions on identifying the parameters of the macroeconomic stability and its impact on economic growth formed the separate scientific school. J.B. Sei, unlike other classical, allocated three factors of production: labour, capital and land ("The Three Factors Theory"). J. Schumpeter (2000) introduced the concept of "entrepreneurship" into economic science as the fourth factor of production. J. M. Keynes (1971) considered the volume of investments in the national economy as the main factor influencing the growth of national income. In the methodology, Keynes highlighted non-economic factors, in particular the state (political system), which should stimulate consumer demand for the means of production, investment and psychology of people (Özgür, Memis, 2017). At the same time, Kondratiev (who developed the concept of long waves) identified the necessity to analyse of the impact on the economic growth of legal, social, political factors, as well as the role of the government in economic growth (Özgür, Memis, 2017). Further, in the second half of the twentieth century, scientists justified the institutional determinants of growth: people's interests, their behaviour, rules, norms, socio-economic relationships. K. Marx, identifying two fundamental factors of economic growth: the personal and the real formed the basis for their classification of factors and identified the relationship with other elements of the economic system (Peterson, Jolibert, 1995). S. Kuznets (1966) did the comprehensive analysis of the economic growth and factors which boosted the fundamental understanding of social development and its economic and social nature. He made a powerful contribution to the comparative analysis of economic growth. In the modern economic theory, the role of the human capital was underlined in the endogenous growth models and modified models by R. Solow (1956). The model provoked the considering of the quality variables in the modelling of economic growth, which provoked the modernisation of long-term analysis of the economic growth [50]. Solow model used as the first stage of each scientific, economic investigation. Solow model analysed four variables: output Y, capital K, labour L and the level of "knowledge" E accumulated in society. Output Y could change over time only when the factors of production K, L, E change. From the standpoint of dynamics, the Solow model is considered as a closed whole, in which the manufactured universal product is fully consumable. The dynamic model considers five macroeconomic (endogenous) variables: Y is the gross domestic product (GDP); I – gross investment; C – consumption fund; K – fixed assets; L is the number of the employed population.

The first three variables (Y, I, C) are performance indicators (their values accumulate over the year), the variables K, L are instantaneous variables (their values could be changed at any time). The results of the analysis confirmed that traditional dimensions did not allow to confirm the hypothesis on the significant role of the capital in the economy. Thus, the findings in the paper (Dehmej, Gambacorta, 2019), confirmed that from 1929 to 1982 years, only 20% of the American national revenue growth was provoked by the accumulation of real capital. In 1996 OECD published the report on knowledge economic (De Beaufort Wijnholds, Kapteyn, 2001; Sutherland, Hoeller, 2014). The scientists did not accept its theory during the few years. However, in 2000 the European Commission declared the Lisbon program which changed the scientists' views on the knowledge economy. The knowledge economy consists of:

- 1) Socio-political aspects of the social life of countries.
- 2) Civilizational and economic evolution and the emergence of a new paradigm in economics that is critical to the economic development of knowledge and innovation, which are much more important than the "classical" factors of production.

It is necessary to underline, that institutional changes had an impact on the technological progress and management, could fundamentally transform the economic system, determine the structure of economic development and macroeconomic growth (Saher et al., 2018; Meresa, 2019). At the same time, the political institutions allow structuring and declining of the transaction costs, optimizing property relations, and, conversely, could negatively disorganize the socio-economic structure of society, while reducing the effectiveness of innovation, investment and other development processes. The current investigations focused on the assessment of the good governance, analysis of the impact on the country's competitiveness and macroeconomic dynamic, assessment of the achieving stable balance in separate economic sectors, analysis of the dependence of the good governance from the financial and economic parameters (traditionally from GDP, inflation, unemployment, money supply, budget deficits, the stability of the national currency, balance of payments and trade, government debt, etc.) (Sadigov, 1999; Letunovska et al., 2017; Makarenko, Sirkovska, 2017; Nagy, Kiss, 2018; Kremen et al., 2018), environmental (Bhandari, 2017; Cebula et al., 2018; Hens et al., 2019; Kuzior et al., 2019; Bilan et al., 2019), social (Vasylijeva et al., 2017) and marketing dimensions (Saher, 2015; Kwilinski et al., 2019; Bozhkova et al., 2018) (Figure 1).

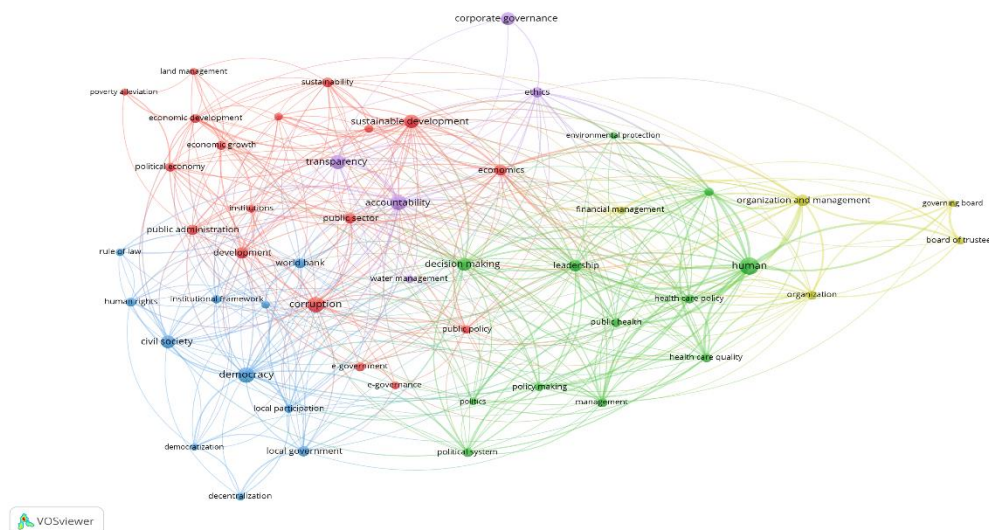


Figure 1: Content analysis of literature on good governance and visualization using VOSviewer

(Source: developed by the authors based on the Scopus, 2000-2020)

The findings confirmed that in the last ten years, the number of publications on analysis of the relationships between economic growth and good governance in the scientific databases – 292 documents. At this time, the annual growth of the publications on the selected theme – 12% (Figure 2a). The results of the analysis showed that scientists from the United States, United Kingdom, China, Spain, Germany, Netherlands, Italy, made a significant impact in the selected directions (Figure 2b).

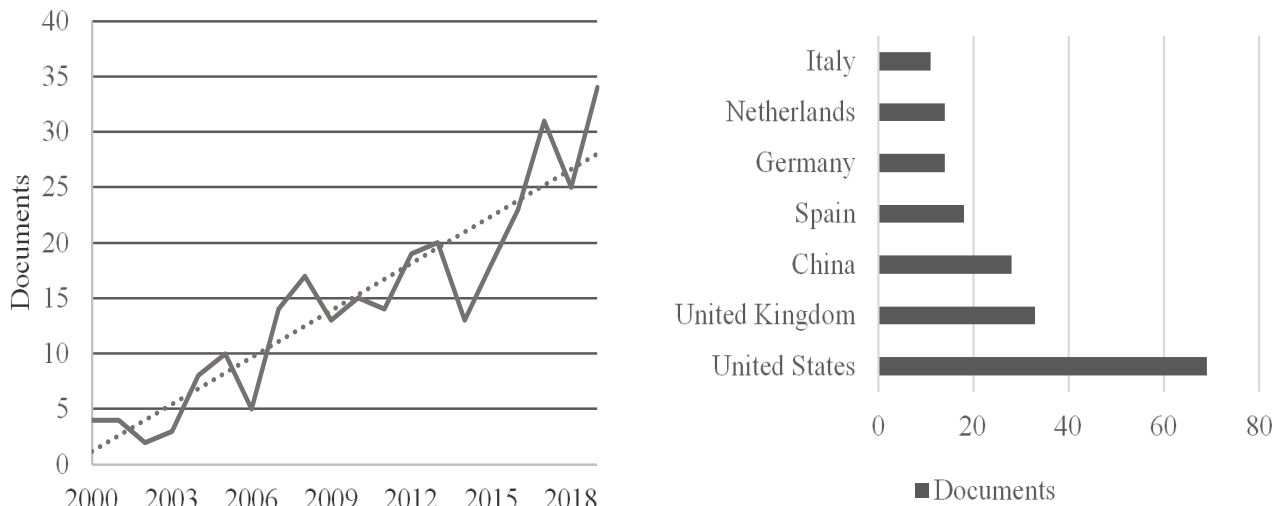


Figure 2: The dynamic (a) and countries' affiliation (b) of the papers on the relationships between economic growth and good governance, 2000-2019 years.
(Source: developed by the authors based on the Scopus, 2000-2020)

Table 1 showed the descriptive statistics of good governance efficiency on the indicators which developed by the experts from the World Bank (WGI, 2020) with its correlation features for countries: USA, UK, China, Spain, Germany, Netherlands, Italy: voice and accountability (vae), political stability and absence of violence (pve), control of corruption (cce), government effectiveness (gee), the rule of law (rle), regulatory quality (rge). All indicators for the analysed countries had a positive value, excluding cce (Minimum=-.0296416) during 2000-2018 years. Besides, all institutional variables had a positive correlation with the fluctuation of the coefficient from 0.6268 to 0.9791 for different indicators. The findings proved the significant relationship which allowed concluding that the selected countries focused on increasing the efficiency of the good governance and macroeconomic stability.

	vae	pve	gee	rge	rle	cce
Mean	1.320909	.8442897	1.345696	1.418939	1.335567	1.396952
SD	.2256454	.3390176	.6106336	.4367875	.6021135	.8089634
Minimum	.9118239	.2703004	.1976259	.6418828	.2467615	-.0296416
Maximum	1.696608	1.760102	2.09252	2.098008	1.980403	2.206632
Observations	60	60	60	60	60	60
Correlations						
vae	1.0000					
pve	0.6309	1.0000				
gee	0.9292	0.7520	1.0000			
rge	0.9372	0.6268	0.9366	1.0000		
rle	0.9252	0.6967	0.9700	0.9345	1.0000	
cce	0.9336	0.6938	0.9728	0.9440	0.9791	1.0000

Table 1: Descriptive statistics, 2000–2018
(Source: developed by the authors)

However, the correlation matrix did not allow to confirm the role in the transformation relationships into the economic growth. In this case, the econometric models allow analysing it (Bojarko et al., 2012; Lyulyov, Pimonenko, 2017; Zergawu et al., 2018; Bilan et al., 2019; Khan, Hanif, 2020; Céspedes-González et al., 2020; Alexiou, 2020). Thus, in the paper Henisz (2000), which the most cited papers on the analysed theme in the scientific database Scopus (777) and 1894 citations in Google Scholar, the author used OLS, GLS, and GMM estimation techniques for analysis of political institutions impact on economic growth. J. Wright (2008) analysed authoritarian institutions on economic growth and investment using the econometric model (1) and OLS estimation technique. J. Wright (2008) highlighted the different impact of political regimes on economic growth.

$$Investment = \beta_0 + \beta_1 Leg. + \beta_2 RegimeType * Leg. + \beta_3 RegimeType * NoLeg. \quad (1)$$

In the empirical study Kim et al. (2018), the authors confirmed the nonlinear relations between the quantity of the government, governance efficiency and economic growth. The scientists identified the government-size threshold, which influenced the country's productivity and output (increasing threshold lead to declining productivity and output). Thus, the improving of the governance in the country was the catalyst for the country's benefits from expanding government. The findings of the model (2) were similar with Fouquau et al. (2008) and confirmed the synergy effect from the impact of the government efficiency and increase of the government-size on the economic growth.

$$\Delta y_{it} = \alpha_i + \beta_0 govsize_{it0} + \beta_1 govsize_{it0} g(q_{it0}; \gamma, c) + \delta_0 governance_{it0} + \delta_1 governance_{it0} g(q_{it0}; \gamma, c) + \varphi_0 y_{it0} + \varphi_1 y_{it0} g(q_{it0}; \gamma, c) + \varepsilon_{it} \quad (2)$$

Where: y – economic growth or productivity growth, $govsize$ - government size, $governance$ - the level of governance, i – country indicator, t – the period index, α – country fixed effect, ε – error term.

Thus, the findings allowed confirming that context of the institutional factors of economic growth means the national wealth and capital relate not only from the available resources but also from the rules and norms which regulate the using of the resources.

3. METHODOLOGY AND RESEARCH METHODS

The core hypotheses of the investigation were:

- H0: There is no statistically significant difference in the level of economic growth for countries that implement effective governance policies (values of vae , pve , cce , gee , rle , rqe are higher than zero) and countries have less than zero governance effectiveness;
- H1: There is a statistically significant difference in the level of economic growth for countries that implement effective governance policies (values of vae , pve , cce , gee , rle , rqe are below zero) and countries have less than zero governance effectiveness. The authors used, the similar tests as in the paper Shymon et al. (2020), the parametric (Two-sample t-test) and nonparametric test (Wilcoxon Rank-sum test) (Butt, 2006) with the purpose to check the abovementioned hypothesis (check for normal distribution, equality of dispersions of the studied trait).
- H2: the efficiency of the country's governance positive influences on the economic growth in the longterm. The authors checked the H2 using the instruments of the economic growth foresight considering the governance efficiency tendency based on the autoregressive integrated moving average model (ARIMA) ARIMA model:

$$y_t = a + \beta_1 y_{t-1} + \dots + \beta_p y_{t-p} + \mu_t \quad (3)$$

Where y – economic growth, t – the time index, $\beta_1 \dots \beta_p$ – parameters, μ – white noise. At the first stage model (3) checked the null hypothesis that a unit root is present in a time series sample using augmented Dickey-Fuller test (ADF) (Im et al., 2003; Levin et al., 2002).

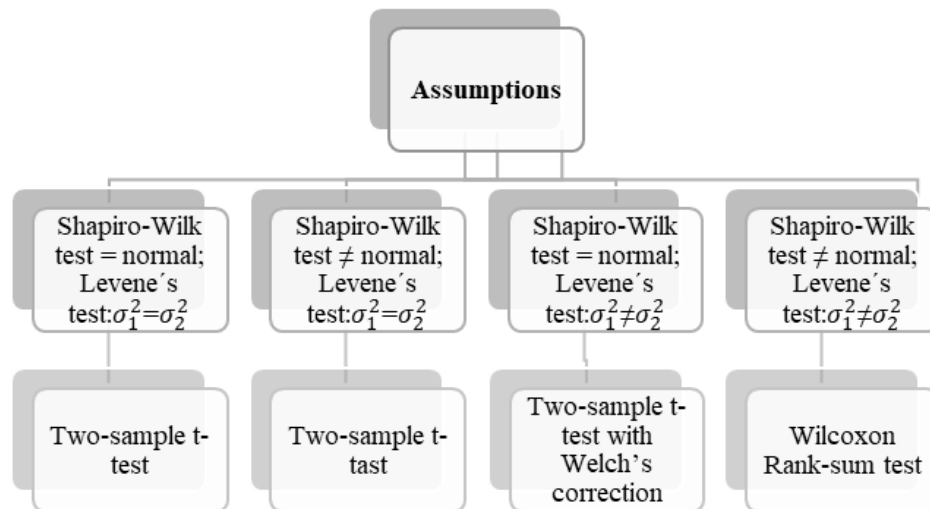


Figure 3: The structural scheme of the investigation
(Source: developed by Shymon et al. (2020))

4. RESULTS

Table 2 showed the findings of Two-sample t-test for 40 European countries for 1996-2018 years. The core dependence variable was – level of economic development per capita, dependence variables which divided countries by two groups: 1) absolute level of governance performance indicators higher than zero; 2) absolute level of governance performance indicators below zero.

Table following on the next page

Group	Results					
	Group	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
vae	0	2762.481	259.4981	2043.29	2243.583	3281.38
	1	22166.05	1391.615	15116.81	19410.03	24922.07
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-19403.57	1931.529		-23215.21	-15591.93
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	
pve	0	3054.822	639.0962	4825.071	1774.558	4335.085
	1	21241.81	1368.588	15178.38	18532.56	23951.07
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-18186.99	2059.621		-22251.41	-14122.57
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	
gee	0	2647.136	241.0238	1987.533	2166.05	3128.221
	1	23275.56	1390.133	14711.78	20520.92	26030.2
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-20628.42	1795.845		-24172.31	-17084.54
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	
rqe	0	2646.733	244.6481	2002.531	2158.277	3135.189
	1	23093.24	1389.786	14773.63	20339.56	25846.93
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-20446.51	1816.704		-24031.56	-16861.46
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	
rle	0	2762.481	259.4981	2043.29	2243.583	3281.38
	1	22166.05	1391.615	15116.81	19410.03	24922.07
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-19403.57	1931.529		-23215.21	-15591.93
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	
cce	0	3131.132	517.0386	4356.644	2099.931	4162.332
	1	23528.05	1400.15	14618	20752.71	26303.39
	combined	15482.6	1145.713	15371.35	13221.76	17743.44
	diff	-20396.92	1785.822		-23921.03	-16872.81
	Ha: diff < 0			Ha: diff != 0		Ha: diff > 0
	Pr(T < t) = 0.0000		Pr(T > t) = 0.0000		Pr(T > t) = 1.0000	

Table 2: Results of Two-sample t-test
(Source: developed by the authors)

The findings of Two-sample t-test in Table 2 confirmed the statistically significant difference in the level of countries' economic growth depending on the governance effectiveness. It allowed confirming the alternative hypothesis H1. The authors selected two countries (Poland and Ukraine) for the checking H2. Poland and Ukraine have the common border and different level of governance effectiveness by the data of the World Bank. The descriptive statistics of economic countries and governance efficiency showed in Table 3.

	Poland	gdp	vae	pve	gee	rqe	rle	cce
Mean	4.083973	.977593	.7050882	.6016045	.8666326	.6375191	.5336866	
SD	1.505159	.1123883	.2735542	.1270884	.1120842	.1574141	.1887703	
Minimum	1.391892	.7238377	.1529493	.3737843	.7166154	.404506	.1388244	
Maximum	7.034828	1.105113	1.072063	.8273836	1.054908	.8575056	.8196566	
Ukraine								
Mean	1.393952	-.200909	-.6342768	-.6307194	-.5183161	-.8018321	-.9662357	
SD	6.942069	.2435141	.7826493	.1339378	.1202495	.0966547	.150309	
Minimum	-14.7585	-.6710514	-2.020833	-.8750501	-.7573931	-1.108805	-1.269784	
Maximum	12.10876	.0906661	.1731321	-.4134186	-.2200751	-.6813426	-.7218982	

Table 3: Descriptive statistics for Ukraine and Poland, 1996–2018
(Source: developed by the authors)

The findings of foresight in economic growth for the two countries showed in Figure 4.

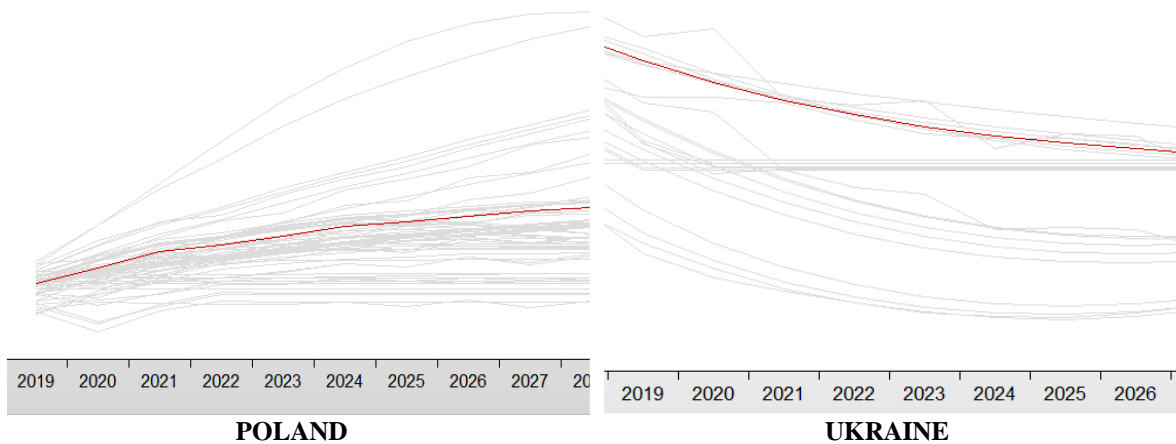


Figure 4: Forecast Comparison Graph
(Source: developed by the authors)

The graphs analysis showed that each from 100 models emphasised the cyclical structures due to the inclusion of exogenous regressors as significant indicators of governance effectiveness. It allowed confirming the hypothesis H2: high level of government efficiency lead to increasing of the economic growth in the longterm.

5. CONCLUSION

Thus, the providing of the reforms on improving the governance efficiency was the core factors which positively influenced economic growth. At the same time, the transparency of the theoretical and methodological approaches to develop the multigoal programs on the country's economic growth. In this case, the key indicators were: government rules and features of the institutional factors. Besides, the multigoal programs on the country's economic growth should be based on the findings using the foresight.

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