

201(1-2)'  
2023

ISSN 1728-6220 (Print)  
ISSN 1728-6239 (Online)  
DOI: <https://doi.org/10.21003/ea>  
WEB: <http://ea21journal.world>

# ECONOMIC ANNALS-XXI

## EA21JOURNAL.WORLD

Scopus

Web of Science (ESCI by WoS)

EBSCOhost

Index Copernicus

Ulrich's Periodicals Directory

C.E.E.O.L.

ERIH PLUS Index

InfoBase Index

SOCIAL SCIENCE

ECONOMICS AND  
MANAGEMENT  
OF ENTERPRISES

WORKFORCE ECONOMY,  
SOCIAL AND ECONOMIC  
POLICY

ISSN 1728-6220 (Print)  
ISSN 1728-6239 (Online)  
<https://doi.org/10.21003/ea>

## ECONOMIC ANNALS-XXI

Research Journal  
Since 1996

201(1-2)'2023

<http://ea21journal.world>

### Publisher

Institute of Society Transformation  
(Poland; Ukraine)

### Head of the Publishing Project

Dr. Oleh Soskin

### Editor-in-Chief

Dr. Nadiya Matviychuk-Soskina

### International Editor

Dmytro Masko

**Economic Annals-XXI Journal is recommended by the Polish Ministry of Science and Higher Education (MSHE points 2019: 40 pkt - management and quality studies, economics and finance)**

### Publication ethics:

the materials submitted for the publication in the journal pass external blind review and reviewing of the members of the Editorial Board of the Economic Annals-XXI Journal.

The ideas and offers, stated in the papers, may not necessarily coincide with the point of view of the Editorial Board.

The responsibility for reliability of information in the papers, accuracy of the titles, names and citations is carried by the authors.

The Editorial Board keeps the right for minor literary changes and shortening of the papers saving the authors' style and conclusions.

The texts submitted cannot be published in the other economic journals worldwide.

All plagiarism issues and issues related to inappropriate citing etc. are to be settled personally by the authors.

**Copyright for papers: CC BY 4.0**

**E-mail:** [economic.annals@gmail.com](mailto:economic.annals@gmail.com)

**WEB:** <http://ea21journal.world>

© Oleh Soskin, 2023

## SOCIAL SCIENCE

- Bisenbaev, A., Bulatbayeva, K., Orynbekov, D., Zhumazhanova, S., & Azambayev, S.** (Kazakhstan).  
Phenomenology of the scientific system of Kazakhstan: a study of social and economic effects through the Hofstede's five-dimensional model of cultural space and beyond 4

## ECONOMICS AND MANAGEMENT OF ENTERPRISES

- Murti, G. T., Winarningsih S., & Sukmadilaga, C.** (Indonesia).  
Empirical study of business intelligence systems and their influence on innovation performance 15

- Alzhaxina, N., Yerbolat, T., Dalabayev, A., Mantay, M. S., & Dauletkeyev, A. B.** (Kazakhstan).  
Economic aspects of obtaining a functional creamy vegetable spread with a balanced fatty acid composition 22

- Muslimov, N., Ospanov, A., Alzhaksina, N., Dalabaev, A., Tuyakova, A., & Sadibaev, A.** (Kazakhstan).  
The economic essence of electro-pulse extraction technology in the production of extracts from sprouted grains of cereal crops 33

- Tultabayeva, T., Chomanov, U., Urazbayev, Zh., Kenenbay, G., Shoman, A. Ye., & Shoman, A. K.** (Kazakhstan).  
Economic viability and market potential of combined intermediate moisture dairy products production in Kazakhstan 44

## WORKFORCE ECONOMY, SOCIAL AND ECONOMIC POLICY

- Mamrayeva, D., Tashenova, L., & Ayaganova, M.** (Kazakhstan).  
System characteristics and matrix tools for evaluating innovative business models of youth tourism 56

- Zhumashov, Ye., Azambayev, S., Bisenbaev, A., Yessenzharov, A., & Bulatbayeva, K.** (Kazakhstan).  
Economic efficiency in grant funding evaluations: streamlining knowledge-intensive applications in Kazakhstan 73

- Akhmetova, B., Sadykov, S., Adilova, V., Zhanbekov, Kh., & Akhmadiyeva, Zh.** (Kazakhstan).  
Complex economic effects of balanced nutrition for athlete-schoolchildren in ethno-intellectual sports 84

**The Economic Annals-XXI Journal  
is included into nine international indexation databases:**

**1) Scopus**, The Netherlands  
(SJR 2014: 0.186; SJR 2015: 0.239; SJR 2016: 0.243; SJR 2017: 0.219; SJR 2018: 0.210; **SJR 2019: 0.234**);

**2) WoS Emerging Sources Citation Index (WoS ESCI);**

3) Ulrich's Periodicals Directory, Great Britain, the USA; 4) EBSCOhost, the USA;

5) Central and Eastern European Online Library (C.E.E.O.L.), Germany;

6) InfoBase Index, India; 7) ERIH PLUS Index (Norway);

8) Index Copernicus, Poland (**ICV 2020 = 128.67**).

**Recommended by the Polish Ministry of Science and Higher Education**

*(MSHE points 2019-2021: 40 pkt - management and quality studies, economics and finance)*

**Editorial Board of Economic Annals-XXI:**

<b>Bersheda Yevhen</b>	Associate Member of the National Academy of Sciences (NAS) of Ukraine, D.Sc. (Economics), Professor, First Deputy Director, Institute of Legislation of the Verkhovna Rada of Ukraine, Kyiv, Ukraine
<b>Bilorus Oleg</b>	Academician of the NAS of Ukraine, D.Sc. (Economics), Professor, Head of Department of Global and Civilization Processes, Institute of the World History of the NAS of Ukraine, Kyiv, Ukraine
<b>Chernyak Volodymyr</b>	D.Sc. (Economics), Professor at the Economic Theory Department, University of Economy and Law «Krok», Kyiv, Ukraine
<b>Filipenko Anton</b>	D.Sc. (Economics), Professor at the World Economy and International Economic Relations Department, Institute of International Relations, Taras Shevchenko Kyiv National University, Kyiv, Ukraine
<b>Galeotti Mark (USA)</b>	PhD, Clinical Full Professor of Global Affairs at the Center for Global Affairs, New York University, USA
<b>Horbulin Volodymyr</b>	Academician of the National Academy of Sciences of Ukraine, D.Sc. (Engineering), Professor, Member of Presidium of the NAS of Ukraine, Director of The National Institute for Strategic Studies under the President of Ukraine, Kyiv, Ukraine
<b>Kanygin Yuriy</b>	D.Sc. (Economics), Professor, Department of Finance, Accounting and Audit, University of Modern Knowledge, Kyiv, Ukraine
<b>Kravtsiv Vasyl</b>	D.Sc. (Economics), Professor, Director of the State Institution «Institute of Regional Studies named after M.I. Dolishnyi of the NAS of Ukraine», Lviv, Ukraine
<b>Libanova Ella</b>	Academician of the National Academy of Sciences of Ukraine, D.Sc. (Economics), Professor, Member of the Presidium of the NAS of Ukraine, Director of Ptoukha Institute for Demography and Social Studies of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
<b>Matviychuk-Soskina Nadiya</b>	PhD (Economics), <b>Editor-in-Chief of the Economic Annals-XXI</b> , Ukraine; Poland
<b>Melnyk Mariyana</b>	D.Sc. (Economics), Professor, Senior Research Fellow, Head of Sector for Spatial Development of the State Institution «Institute of Regional Studies named after M.I. Dolishnyi of the NAS of Ukraine», Lviv, Ukraine
<b>Nor Safwan Mohd (Malaysia; Australia)</b>	PhD (Finance), RHB Islamic Endowed Scholar in Finance, UMT Fund Manager, University of Malaysia Terengganu, Terengganu, Malaysia; Research Associate, Victoria Institute of Strategic Economic Studies, Victoria University, Melbourne, Australia
<b>Ozhevan Mykola</b>	D.Sc. (Philosophy), Professor, Honoured Worker of Science and Technology of Ukraine, Chief Researcher, the National Institute for Strategic Studies under the President of Ukraine, Kyiv, Ukraine
<b>Podgorny Boris (Russian Federation)</b>	D.Sc. (Sociology), Professor, Department of Philosophy and Sociology, Southwest State University, Kursk, Russian Federation
<b>Radionova Iryna</b>	D.Sc. (Economics), Professor, Kyiv National Economic University named after Vadym Hetman, Head of the Economic Theory Department of University of Economy and Law «Krok», Kyiv, Ukraine
<b>Shevchuk Vasyl</b>	D.Sc. (Economics), Professor, Director-in-General of the Research Centre for Sustainable Development, Kyiv, Ukraine
<b>Shnyrkov Alexander</b>	D.Sc. (Economics), Professor, Head of the World Economy and International Economic Relations Department, Institute of International Relations, Taras Shevchenko Kyiv National University, Kyiv, Ukraine
<b>Soskin Oleh</b>	PhD (Economics), PhD (Theology), Associate Professor, Director of Institute of Society Transformation, Professor of the National Academy of Management, <b>Director-Editor &amp; Publisher of the Economic Annals-XXI, Kyiv, Ukraine</b>
<b>Stecenko Inna (Latvia)</b>	PhD (Economics), Professor, Vice-Rector of the Baltic International Academy, Head of PhD Program «Regional Economy and Economic Policy», Riga, Latvia
<b>Storonyanska Iryna</b>	D.Sc. (Economics), Professor, Head of Regional Financial Policy Department of the State Institution «Institute of Regional Studies named after M.I. Dolishnyi of the NAS of Ukraine», Lviv, Ukraine
<b>Táncošová Judita (Slovakia)</b>	PhD (Economics), Professor in the Department of Economics and Finance, Vice-Rector for Education, School of Economics and Management in Public Administration in Bratislava, Slovakia
<b>Vasa Laszlo (Hungary)</b>	PhD (Agricultural Economics), Associate Professor, Institute for Foreign Affairs and Trade, Budapest; Research Professor, Szechenyi Istvan University, Győr, Hungary
<b>Wierzbicka Ewa (Poland)</b>	PhD (Economics), Adjunct Professor, Institute of Value Management, Warsaw School of Economics, Warsaw, Poland
<b>Zernetska Olga</b>	D.Sc. (Politics), Professor, Head of Global and Civilization Processes Department, Institute of the World History of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
<b>Zvorych Roman</b>	D.Sc. (Economics), Associate Professor, Vice-Director, B. Havrylyshyn Education and Research Institute of International Economic Relations, Ternopil National Economic University, Ternopil, Ukraine

ISSN 1728-6220 (Print)  
ISSN 1728-6239 (Online)  
<https://doi.org/10.21003/ea>

**ЕКОНОМІЧНИЙ ЧАСОПИС-XXI**  
науковий журнал

**201(1-2)'2023**

Видається з 1996 року

**Керівник проекту**  
Олег Соскін  
**Головний редактор**  
Надія Матвійчук-Соскіна  
**Міжнародний редактор**  
Дмитро Масько

**E-mail:** [economic.annals@gmail.com](mailto:economic.annals@gmail.com)

**WEB:** <http://ea21journal.world>

**Журнал перереєстровано**  
Міністерством юстиції України  
Свідоцтво КВ № 20731-10531ПР  
від 15.05.2014 р.

Журнал рекомендовано до друку та поширення через мережу Інтернет.

Підписано до друку 28 лютого 2023 р.

**Видавець:**  
Олег Соскін  
Свідоцтво про внесення до  
Державного реєстру  
суб'єктів видавничої справи  
ДК № 3273 від 03.09.2008 р.

Відповідальність за точність наведених даних і цитат покладається на авторів.  
Передрук — за погодженням із редакцією.  
Матеріали друкуються англійською, українською, російською та польською мовами.  
У разі цитування посилання на «Економічний часопис-XXI» обов'язкове.

© Олег Соскін, 2023