

**Ministry of Education and Science of Ukraine
Sumy State University
Kaunas University of Technology, School of Economics and
Business
University of Bradford, School of Management
Riga Technical University
Czech University of Life Sciences Prague
University of New Brunswick
International Centre for Enterprise and Sustainable**



"ECONOMICS FOR ECOLOGY"

*Materials
International scientific-practical conference
(Ukraine, Sumy, May 16-19, 2023)*

*Sumy
Sumy State University
2023*

УДК : 333.7:502.7

Авторський знак: S70

Editor-in-Chief Prof., Dr. Karitseva Oleksandra, Head of the Department of Economics, Entrepreneurship and Business Administration, Sumy State University

Approved by the Academic Council of Sumy State University
(order № 0586-I, 03 July, 2023)

Economics for Ecology : Proceedings of the International Scientific and Practical Conference, Sumy, May 16–19, 2023 / edited by Karitseva Oleksandra and Kubatko Oleksandr . – Sumy : Sumy State University, 2023 – 104 p. (*electronic edition*)

For scientists, scientists, students, graduate students, representatives of business and public organizations and higher education institutions and a wide range of readers.

MODERN TRENDS IN THE DEVELOPMENT OF AUTOMOTIVE CONGLOMERATIVES

*Leonid Melnyk, Dr. of Econ., Prof.,
Oleksandra Karintseva, Dr. of Econ., Prof.,
Mykola Kharchenko, PhD in Econ., Ass. Prof.,
Yevhenii Kulomza, student,
Sumy State University, Ukraine*

Industrial revolutions have had a significant impact on the development of automotive companies [1-20]. Since the beginning of the 20th century, when the first car was invented, automotive companies have become one of the most important players in the global market.

The first cars were handmade and expensive, making them accessible only to wealthy customers. However, with the onset of the industrial revolution, automotive companies were able to introduce new technologies and increase production efficiency. Car production became more automated and mass-produced, which reduced production costs and allowed automakers to lower the price of their products.

In addition, the development of industrial revolutions allowed automotive companies to respond quickly to changes in market conditions and adapt to consumer needs. Car manufacturers began to focus on increasing the efficiency of engines, improving the quality of materials and providing a more comfortable ride for passengers.

In the 21st century, automotive companies continue to introduce new technologies and innovations, such as electric and hybrid engines, automatic control systems and internet connectivity. Industry 3.0, Industry 4.0 continue to influence the development of the automotive industry and allow automotive companies to remain competitive in the global market.

One of the current trends in the development of automotive concerns is the transition to electric and hybrid cars. According to the International Energy Agency (IEA), sales of electric vehicles in the world are growing every year. In 2016, more than 750,000 electric vehicles were sold, and in 2020, more than 3 million. It is predicted that by 2030, sales of electric vehicles could reach 70 million units annually.

Another trend is the development of autonomous technologies. Companies such as Tesla, Google, Apple, and Uber are investing in the development and production of autonomous vehicles. According to Allied Market Research, the autonomous car market grew from \$54 billion in 2019 to \$556 billion in 2026, indicating the rapid development of this sector.

In addition, carsharing and carpooling, the collective use of cars through special applications, are becoming increasingly popular around the world. According to Frost & Sullivan, the global car-sharing market could grow from \$1.5 billion in 2017 to \$2.2 billion in 2025.

Finally, modern automotive companies are actively exploring the possibilities of using blockchain technologies in their business. For example, in 2020, the MOBI (Mobility Open Blockchain Initiative) blockchain platform was launched, which included such companies as BMW, Ford, GM, Renault, and others. The aim of this initiative is to create a single standard for blockchain technologies.

References

1. Babenko V., Matsenko O., Voronenko V., Nikolaiev S., Kazak D. Economic prospects for cooperation the European Union and Ukraine in the use of blockchain technologies. The Journal of V. N. Karazin Kharkiv National University. Series: International Relations. Economics. Country Studies. Tourism. 2020. № 12. С. 8-17. <https://essuir.sumdu.edu.ua/handle/123456789/83746>
2. Hrytsenko P., Voronenko V., Kovalenko Ye., Kurman T., Omelianenko V. Assessment of the development of innovation activities in the regions: Case of Ukraine. Problems and Perspectives in Management. 2021. 19(4). P. 77-88. <https://essuir.sumdu.edu.ua/handle/123456789/85729> (SCOPUS)
3. Hrytsenko, P.V., Kovalenko, Y.V., Voronenko, V.I., Smakouz, A.M., Stepanenko, Y.S. Analysis of the Definition of “Change” as an Economic Category. Mechanism of Economic Regulation. 2021. № 1. С. 92-98. <https://essuir.sumdu.edu.ua/handle/123456789/84025>
4. Ji, Z., & Sotnyk, I. (2023). Economic analysis of energy efficiency of China’s and India’s national economies. Mechanism of an Economic Regulation, (1(99), 11-16. <https://doi.org/10.32782/mer.2023.99.02>
<https://essuir.sumdu.edu.ua/handle/123456789/91221>
5. Jianming Mu, Goncharenko O. S., Chortok Yu. V., Yaremenko A. H. Peculiarities of Formation of the Region's Logistics Infrastructure on the Basis of Eco-Innovations Within the Framework of Stakeholders' Partnership in the Enterprise-Region-State System // Mechanism of Economic Regulation. 2021. № 4. P. 22-29. DOI: <https://doi.org/10.21272/mer.2021.94.03>
<https://essuir.sumdu.edu.ua/handle/123456789/87514>
6. Karintseva O. I., Yevdokymov A. V., Yevdokymova A. V., Kharchenko M. O., Dron V. V. Designing the Information Educational Environment of the Studying Course for the Educational Process Management Using Cloud Services. Механізм регулювання економіки. 2020. № 3. С. 87-97. DOI: <https://doi.org/10.21272/mer.2020.89.07>

7. Kovalov, B., Karintseva, O., Kharchenko, M., Khymchenko, Y., & Tarasov, V. (2023). Methods of evaluating digitization and digital transformation of business and economy: the experience of OECD and EU countries. *Економіка розвитку систем*, 5(1), 18-25. <https://doi.org/10.32782/2707-8019/2023-1-3> <https://essuir.sumdu.edu.ua/handle/123456789/91585>
8. Kubatko, O. V., Kubatko, O. V., Sachnenko, T. I., Oluwaseun, O. O. Organization of Business Activities with Account to Environmental and Economic Aspects // *Mechanism of Economic Regulation*. 2021. № 2. P. 76-85. DOI: <https://doi.org/10.21272/mer.2021.92.08> <https://essuir.sumdu.edu.ua/handle/123456789/85180>
9. Kubatko, O., Merritt, R., Duane, S., & Piven, V. (2023). The impact of the COVID-19 pandemic on global food system resilience. *Mechanism of an Economic Regulation*, (1(99), 144-148. <https://doi.org/10.32782/mer.2023.99.22> <https://essuir.sumdu.edu.ua/handle/123456789/91371>
10. Lukash, O. A., Derev'yanko, Y. M., Kozlov, D. V., Mukorez, A. I. Regional Economic Development in The Context of the COVID-19 Pandemic and the Economic Crisis // *Mechanism of Economic Regulation*. 2021. № 1. P. 99-107. DOI: <https://doi.org/10.21272/mer.2021.91.08> <https://essuir.sumdu.edu.ua/handle/123456789/84026>
11. Melnyk, L. Hr., Shaulska, L. V., Mazin, Yu. O., Matsenko, O. I., Piven, V. S., Konoplov, V. V. Modern Trends in the Production of Renewable Energy: the Cost Benefit Approach // *Mechanism of Economic Regulation*. 2021. № 1. P. 5-16. DOI: <https://doi.org/10.21272/mer.2021.91.01> <https://essuir.sumdu.edu.ua/handle/123456789/83761>
12. Melnyk, L., Karintseva, O., Kubatko, O., Derev'yanko, Y., & Matsenko, O. (2022). Restructuring of socio-economic systems as a component of the formation of the digital economy in Ukraine. *Mechanism of an Economic Regulation*, (1-2(95-96), 7-13. <https://doi.org/10.32782/mer.2022.95-96.01> <https://essuir.sumdu.edu.ua/handle/123456789/89627>
13. Melnyk, L., Kovalov, B., Mykahilov, S., Mykhailov, S., Skrypka, Y., & Starodub, I. (2022). Dynamics of reproduction of economic systems in the transition to digital economy – in the light of synergetic theory of development*. *Mechanism of an Economic Regulation*, (3-4(97-98), 7-14. <https://doi.org/10.32782/mer.2022.97-98.01> <https://essuir.sumdu.edu.ua/handle/123456789/90520>
14. Melnyk, L., Matsenko, O., Kalinichenko, L., Holub, A., & Sotnyk, I. (2023). Instruments for ensuring the phase transition of economic systems to management based on Industries 3.0, 4.0, 5.0. *Mechanism of an Economic Regulation*, (1(99), 34-40. <https://doi.org/10.32782/mer.2023.99.06> <https://essuir.sumdu.edu.ua/handle/123456789/91226>

15. Nesterenko V., Dolhosheieva O., Kirilieva A., Voronenko V., Hrytsenko P. «Green» vector of the economic development of the country. Mechanism of Economic Regulation. 2021. № 3. C. 82-90.
<https://essuir.sumdu.edu.ua/handle/123456789/87533>

16. Nikulina, M., Sotnyk, I., Derykolenko, O., & Starodub, I. (2022). Unemployment in Ukraine's economy: COVID-19, war and digitalization. Mechanism of an Economic Regulation, (1-2(95-96), 25-32.
<https://doi.org/10.32782/mer.2022.95-96.04>
<https://essuir.sumdu.edu.ua/handle/123456789/89630>

17. Omelyanenko V., Pidorychev I., Voronenko V., Andrusiak N., Omelianenko O., Fyliuk H., Matkovskiy P., Kosmidailo I. Information & Analytical Support of Innovation Processes Management Efficiency Estimations at the Regional Level. International Journal of Computer Science and Network Security. 2022. Vol. 22, No. 6. P. 400-407.
<https://essuir.sumdu.edu.ua/handle/123456789/89615>

18. Sotnyk, I. M., Matsenko, O. M., Popov, V. S., Martymianov, A. S. Ensuring the Economic Competitiveness of Small Green Energy Projects // Mechanism of Economic Regulation. 2021. № 1. P. 28-40. DOI:
<https://doi.org/10.21272/mer.2021.91.03>
<https://essuir.sumdu.edu.ua/handle/123456789/84021>

19. Tambovceva, T. T., Melnyk, L. Hr., Dehtyarova, I. B., Nikolaev, S. O. Circular Economy: Tendencies and Development Perspectives // Mechanism of Economic Regulation. 2021. № 2. P. 33-42. DOI:
<https://doi.org/10.21272/mer.2021.92.04>
<https://essuir.sumdu.edu.ua/handle/123456789/85156>

20. Voronenko V., Horobchenko D. Approaches to the Formation of a Theoretical Model for the Analysis of Environmental and Economic Development. Journal of Environmental Management and Tourism. Craiova: ASERS Publishing, 2018. Vol. 9, Issue Number 5(29). P. 1108-1119.
<https://essuir.sumdu.edu.ua/handle/123456789/77227>

The publication was prepared in the framework of the research project 0122U001232, "Restructuring of the national economy in the direction of digital transformations for sustainable development", funded by the National Research Foundation of Ukraine.

Наукове видання Економіка для екології. Матеріали Міжнародної науково-практичної конференції (Суми, 16 – 19 травня, 2023 року)

Стиль та орфографія авторів збережені.
Організаційний комітет і редакційна колегія можуть не поділяти точки зору авторів.

Автори відповідають за точність, достовірність і зміст матеріалів.
Посилання на матеріали конференції обов'язкові.

Відповідальний за випуск та комп'ютерне верстання: П.В. Гриценко

Формат 60×84/16. Ум. друк. арк. 7,26.
Обл.-вид. арк. 8,18.

Видавець і виготовлювач Сумський державний університет,
вул. Римського-Корсакова, 2, м. Суми, 40007
Свідоцтво суб'єкта видавничої справи ДК № 3062 від 17.12.2007