# MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SUMY STATE UNIVERSITY Educational and Research Institute of Business, Economics and Management Department of International Economic Relations

«Admitted to the defense» Head of the Department

(full name) (signature) 20 p.

# **QUALIFICATION PAPER** It is submitted for the Bachelor's degree

Specialty 292 "International Economic Relations" on the topic "UKRAINE'S PLACE IN THE GLOBAL COMMODITY MARKET"

Bogdan Nechiporenko (full name)

(group's code) Qualifying Bachelor's paper contains the results of own research. The use of the ideas, results and texts of other authors has a link to the corresponding

Research advisor	Dr. of Economics, Pr	rofessor	<u>Fedir Zhuravka</u>
-	(position, scientific degree)	(signature)	(full name)

(signature)

Student 4 Course

group <u>ME-02 а.ан</u>

source

(course number)

# MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SUMY STATE UNIVERSITY Educational and Research Institute of Business, Economics and Management Department of International Economic Relations

# TASKS FOR BACHELOR'S DEGREE QUALIFICATION PAPER

(specialty 292 " International Economic Relations " )

student <u>4</u> course, group <u>ME-02a.aH</u> (course number) (group's code)

Bogdan Nechiporenko

(student's full name)

1. The theme of the paper is UKRAINE'S PLACE IN THE GLOBAL COMMODITY MARKET approved by the order of the university from  $\ll 08 \gg May$  2024 No 0485-VI

2. The term of completed paper submission by the student is «25» <u>May</u> <u>2024</u>

3. The purpose of the qualification paper is to create theoretical and methodological approaches and practical recommendations for enhancing Ukraine's role in the global commodity market.

4. The object of the research is the process of development of Ukraine's export relations and the strategies for its implementation.

5. The subject of research is the theoretical and methodological foundations of developing Ukraine's export potential and the strategic directions for its implementation.

6. The qualification paper is carried out on materials from the electronical sources.

7. Approximate qualifying bachelor's paper plan, terms for submitting chapters to the research advisor and the content of tasks for the accomplished purpose is as follows:

Chapter 1 1. <u>Overview of Ukraine's Commodity Trade</u>: 23.04.2024 (title, the deadline for submission )

Chapter 1 <u>deals with brief and general introduction to the Ukrainian commodities</u> market. Its peculiarities, details, conditions

(the content of concrete tasks to the section to be performed by the student )

Chapter 2 <u>Challenges in the Global Market</u> : 10.05.2024 (title, the deadline for submission )

Chapter 2 <u>deals with an introduction to the various challenges of the global</u> commodity market. Describes the various problems and features that have a major impact on the commodity global marketplace

(the content of concrete tasks to the chapter to be performed by the student )

# Chapter 3 3. Strategic Opportunities for Growth 15.05.2024 15.05.2024

(title, the deadline for submission )

# Chapter 3 <u>deals with the introduction of various opportunities that are available to</u> <u>market participants in the global commodity market, the realization of which</u> <u>contributes to the growth</u>

(the content of concrete tasks to the chapter to be performed by the student )

# 8. Supervision on work:

Chapter	Full name and position of the advisor	Date, signature	
		task issued by task accepted by	
1	Fedir Zhuravka, Dr of Economics, Professor	23.04.2024 23.04.2024	
2	Fedir Zhuravka, Dr of Economics, Professor	10.05.2024 10.05.2024	
3	Fedir Zhuravka, Dr of Economics, Professor	15.05.2024 15.05.2024	

9. Date of issue of the task: « 05 » <u>April</u> 2024

# ABSTRACT on bachelor's degree qualification paper on the topic « UKRAINE'S PLACE IN THE GLOBAL COMMODITY MARKET » student <u>Bogdan Nechiporenko</u> (full name)

The main content of the Bachelor's qualification work is presented on 58 pages, including the list of sources used from 75 titles. The paper contains 7 tables and 3 figures.

The purpose of the Bachelor's qualification work is to create theoretical and methodological approaches and practical recommendations for enhancing Ukraine's role in the global commodity market.

The object of research is the process of development of Ukraine's export relations and the strategies for its implementation.

The subject of the research is the theoretical and methodological foundations of developing Ukraine's export potential and the strategic directions for its implementation.

The task of the qualification work: explore the theoretical foundations of export potential formation and utilization; analysis of statistical data on the volume and structure of Ukrainian exports; examination of expert research in the field of international trade; and analysis of literature sources and scientific publications on trade and economic relations involving Ukraine.

Research methods aims to establish theoretical and methodological frameworks alongside practical recommendations to strengthen Ukraine's position within the global commodity market.

The practical part of the work was to assess Ukraine's position within the global commodity market, this work adopted a multifaceted research approach. It combined general scientific methods with specific methods, particularly those grounded in statistical analysis. This emphasis on statistics allowed for a rigorous examination of relevant data. Export data from Ukraine, along with information

from leading players in the global commodity market, was meticulously analyzed using a combination of techniques.

The information base of the work includes reports from the State Statistics Service of Ukraine, the European Commission, statistics from the World Bank, and insights from international organizations.

Based on the results of the study, the following conclusions are formulated:

1. It is necessary to enhance Ukraine's export infrastructure, including upgrading transportation networks, modernizing ports, and enhancing digital infrastructure. Implementing these measures will contribute to strengthening Ukraine's trade and economic relations with global partners and support the development of the country's export potential.

2. It is important to further develop Ukraine's trade and economic relations by overcoming geopolitical challenges and fostering international cooperation. This will allow Ukraine to realize its export potential, ensure economic growth, and promote economic prosperity.

The results obtained can be used in the process of developing a strategy for Ukraine's foreign economic development and improving its export potential.

Keywords: export potential of Ukraine, global commodity market, trade relations, agricultural exports, international economic relations

The year of qualifying paper fulfillment – 2024 The year of paper defense – 2024

# CONTENT

1. OVERVIEW OF UKRAINE'S COMMODITY TRADE	10
1.1 Current Status of Ukraine's Major Commodity Exports	10
1.1.1 Overview of Key Commodities in Ukraine's Export Portfolio	10
1.2 Ukraine's Competitive Advantage in Key Commodities	16
1.2.1 Geographical and Climatic Benefits	16
1.2.2 Technological Integration and Agricultural Innovations	19
2. CHALLENGES IN THE GLOBAL MARKET	22
2.1. Economic and Political Challenges Impacting Trade	22
2.1.1 Global Economic Fluctuations and Trade Dynamics	22
2.1.2 Political Instability and Regulatory Changes	26
2.2. Market Access and Trade Barriers	30
2.2.1 Tariffs and Non-Tariff Barriers	30
2.2.2 Political Instability and Regulatory Changes	34
3. STRATEGIC OPPORTUNITIES FOR GROWTH	38
3.1. Potential Markets for Diversification	38
3.1.1 Identifying Underexplored Industries	38
3.1.2 Cultural Adaptation and Local Engagement	43
3.2 Policy Recommendations for Enhancing Export Performance	46
3.2.1 Strengthening Trade Infrastructure	46
3.2.2 Enhancing Trade Agreements and Partnerships	
CONCLUSIONS	53
LIST OF REFERENCES	55

#### **INTRODUCTION**

The global commodity market plays a pivotal role in international economic relations, influencing the economic stability and growth of nations. Ukraine's integration into the global economic system necessitates a comprehensive understanding of its export potential, which forms the backbone of its economic interactions. The country's ability to produce and export a diverse range of goods and services, particularly from the agro-industrial sector, significantly contributes to its economic potential and international trade relationships. Historically, Ukraine has held and continues to hold substantial export potential, primarily driven by its agro-industrial complex. However, the country's export dynamics extend beyond agriculture, encompassing sectors such as mining and manufacturing. The scientific and technological revolution has further propelled the international division of labor and specialization, enhancing Ukraine's role in the global commodity market, with a specific emphasis on key export commodities such as grains, iron ore, and sunflower oil.

The importance of enhancing Ukraine's export capabilities in the face of geopolitical and economic challenges is well-documented in recent literature. Scholars from the National Academy of Sciences of Ukraine, including Geets V. M., Ostashko T. A., and Shinkaruk L. V., have analyzed the impacts of the association agreement and free trade area between Ukraine and the EU on the Ukrainian economy. Ishchuk S. O. recommends a gradual transformation of investment flows into high-tech industries and has analyzed the structure of Ukrainian commodity exports, emphasizing the need to mitigate the influence of global commodity market fluctuations on Ukraine's socio-economic development. Sozansky L. I. has assessed the dynamics of Ukraine's export and import of goods, providing relevant recommendations. The analysis of European experience in export organization and management by I. Stuhler and V. Gerzanich, along with detailed studies by the

Razumkov Center, highlights the mechanisms regulating mutual market access and the impacts of the EU-Ukraine free trade zone.

The primary aim of this study is to develop theoretical and methodological approaches and practical recommendations to enhance Ukraine's role in the global commodity market. Specifically, it seeks to:

- Analyze the concept of export capability from a scientific perspective.
- Evaluate methods for assessing a country's export potential.
- Examine the impact of geopolitical developments on Ukraine's key commodity exports.
- Identify and assess underexplored industries with significant growth potential.
- Develop recommendations to improve the efficiency and competitiveness of Ukrainian exports in the global market.

The object of this research is the development process of Ukraine's export relations and the strategies for its implementation. The subject of the research encompasses the theoretical and methodological foundations of developing Ukraine's export potential and the strategic directions for its implementation.

The study is based on a variety of sources, including reports from the State Statistics Service of Ukraine, the European Commission, statistics from the World Bank, and insights from international organizations. This diverse information base provides a comprehensive view of Ukraine's export landscape and the external factors influencing it.

To achieve the study's objectives, a combination of research methods has been employed:

- Deduction and induction methods to explore the theoretical foundations of export potential formation and utilization.
- Statistical analysis of data on the volume and structure of Ukrainian exports.
- Examination of expert research in the field of international trade.
- Literature review and analysis of scientific publications on trade and economic relations involving Ukraine.

The theoretical significance of this study lies in its structured approach to understanding the concept of export potential and its practical applications. The practical significance is reflected in the development of actionable recommendations to enhance the efficiency and competitiveness of Ukraine's exports, thereby contributing to the country's economic growth and integration into the global commodity market.

#### 1. OVERVIEW OF UKRAINE'S COMMODITY TRADE

1.1 Current Status of Ukraine's Major Commodity Exports

1.1.1 Overview of Key Commodities in Ukraine's Export Portfolio

Ukraine's fertile black soil and strategic location have historically made it a major agricultural producer and exporter. This subchapter delves into the key commodities that underpin Ukraine's export portfolio, highlighting their historical significance and contribution to the national economy [4].

Grains, particularly wheat and corn, have earned Ukraine the moniker «The Breadbasket of Europe» [5]. This reputation is well-deserved. Ukraine is consistently ranked among the top global exporters of wheat, accounting for around 10% of global wheat exports in recent years [1, 6]. Corn exports are also significant, with Ukraine contributing roughly 14% of the global corn trade [1].

This dominance in grain exports has historical roots. During the Soviet era, Ukraine was a major supplier of grain to other Soviet republics. Following independence, Ukraine continued to leverage its agricultural prowess, focusing on high-quality wheat and corn production. This focus, coupled with vast fertile land and a skilled agricultural workforce, solidified Ukraine's position as a global grain powerhouse. The economic impact of grain exports is undeniable. Grain sales generate billions of dollars in revenue annually, contributing significantly to Ukraine's GDP. In 2021, for instance, the agricultural sector, dominated by grain production, accounted for approximately 9.4% of Ukraine's GDP [2]. Beyond direct revenue, grain exports play a crucial role in creating jobs throughout the agricultural supply chain, from farmers and processing plant workers to transportation and logistics personnel.

Beyond its agricultural prowess, Ukraine boasts rich deposits of iron ore, a vital raw material for steel production. Ukraine ranks among the top 10 global exporters of iron ore, with significant reserves concentrated in eastern regions [3].

Iron ore exports contribute significantly to Ukraine's industrial sector, generating revenue and supporting jobs in mining and related industries.

Grain type	Total exports	Volume	Percent of global exports	Rank among global exporters	Top markets
Sunflower oil	\$6.4 billion	4,950,000 metric tons (2021-2022 market year)	46%	1st	India, the European Union and China.
Corn	\$5.9 billion	23,000,000 metric tons (2021-2022 market year)	12%	4th	China, the European Union, Egypt, Iran and Turkey.
Wheat	\$5.1 billion	19,000,000 metric tons (2021-2022 market year)	9%	5th	Egypt, Indonesia, Turkey, Pakistan and Bangladesh.
Rapeseed	\$1.7 billion	2,700,000 metric tons (2021-2022 market year)	20%	3rd	the European Union, Pakistan and the United Kingdom
Barley	\$1.3 billion	5,800,000 metric tons (2021-2022 market year)	17%	3rd	China, Turkey, and Saudi Arabia.

Table 1.1 - Ukraine's top agricultural exports (as of 2021)[69]

Ukraine isn't just about wheat and iron ore. The country is also the world's leading exporter of sunflower oil, accounting for over 50% of the global market share [7]. This dominance stems from vast sunflower seed cultivation across Ukraine's fertile plains. Sunflower oil production has become a significant contributor to the country's agricultural sector, offering diversification and economic opportunities for farmers.

Grains, iron ore, and sunflower oil are the cornerstones of Ukraine's export portfolio. These commodities have a rich historical significance, contributing substantially to the nation's economic development. While the ongoing war has disrupted exports, Ukraine's potential as a major agricultural and industrial exporter remains strong. As the situation stabilizes, these key commodities are poised to continue playing a vital role in Ukraine's economic recovery and future growth.

Ukraine's trade turnover in 2023 reached almost 99 billion dollars. Imports amounted to 63.5 billion dollars, while exports amounted to 36 billion dollars. In 2022, these figures were 55.5 and 44.2 billion dollars, respectively.[70]

The largest imports came from China (\$10.4 billion), Poland (\$6.6 billion), and Germany (\$4.9 billion). Major import categories include machinery and equipment (\$19.8 billion), chemical products (\$11 billion), and fuel and energy products (\$10.3 billion).[70]

Exports in 2023 were directed primarily to Poland (\$4.7 billion), Romania (\$3.7 billion), and China (\$2.4 billion). Major export categories include food products (\$21.8 billion), metals and metal products (\$3.9 billion), and machinery and equipment (\$2.9 billion) [70].

1.1.2 Impact of Recent Geopolitical Developments on Ukraine's Commodity Exports

The ongoing conflict between Russia and Ukraine has sent shockwaves through the global economy, with Ukraine's crucial commodity exports facing significant disruptions.[8] This section delves into the multifaceted impact of recent geopolitical developments on Ukraine's ability to export its key commodities – grains, iron ore, and sunflower oil.

The war has severely disrupted Ukraine's agricultural production and export processes [9]. Fighting has displaced farmers, damaged agricultural infrastructure, and limited access to crucial inputs like fertilizers and fuel [10]. Shelling near critical ports and the Black Sea blockade by Russia have significantly hampered the transportation of grain and other commodities, creating bottlenecks and delays. These disruptions have resulted in Reduced Planting and Harvesting: The war forced many farmers to abandon fields or plant less due to safety concerns and a lack of resources [4]. This translates to a potential decrease in future harvests, impacting export volumes for months, if not years, to come.

Logistics Bottlenecks: Blocked ports and damaged transport infrastructure have created a logjam, preventing existing stockpiles from reaching international markets [11]. Even with alternative routes through neighboring countries, increased export times and higher transportation costs significantly affect the competitiveness of Ukrainian exports.

Shortage of Labor: The war has displaced millions of Ukrainians, including many agricultural workers. This labor shortage further hinders planting, harvesting, and processing activities, impacting overall export capacity.

The disruptions caused by the conflict have triggered significant shifts in global commodity markets, impacting demand for Ukrainian exports:

Increased Prices: Concerns about supply shortages from Ukraine, a major grain producer, have pushed global wheat and corn prices to record highs. This price volatility creates uncertainty for importers, potentially leading to a shift towards alternative suppliers in the short term.

Shifting Trade Patterns: The war has forced some countries, particularly those heavily reliant on Ukrainian grain imports, to seek alternative sources. This could lead to a temporary decline in demand for Ukrainian exports while new trade routes are established.

The current geopolitical environment has reshaped global trade dynamics, impacting Ukraine's ability to forge new partnerships and access traditional export markets.

Sanctions and Counter-Sanctions: Western sanctions on Russia have disrupted traditional trade routes and financial channels previously used by Ukraine. Finding alternative routes and financial mechanisms to facilitate exports requires establishing new partnerships and navigating a complex geopolitical landscape. Emerging Opportunities: While the war has posed immense challenges, it has also opened doors for potential new partnerships. Countries seeking to diversify their import sources may turn to Ukraine as a reliable supplier once the conflict subsides.

The full impact of the conflict on Ukraine's commodity exports is still unfolding. The war's duration, the intensity of fighting, and post-war reconstruction efforts will all play a significant role in determining the long-term trajectory of Ukraine's export sector.

However, some key considerations can guide future analysis:

Rebuilding Infrastructure: Rebuilding damaged ports, transportation networks, and storage facilities will be crucial for restoring export capacity. International support will likely play a vital role in this reconstruction process.

Diversification of Export Routes: Finding alternative routes to bypass blockades and ensure efficient delivery of exports will be essential. Increased cooperation with neighboring countries to establish new land or sea routes is critical.

Focus on Sustainability and Value-Added Products: As Ukraine rebuilds its agricultural sector, there's an opportunity to focus on sustainable practices and value-added products. This could enhance the competitiveness of Ukrainian exports in the long run.

The recent geopolitical developments have undoubtedly dealt a harsh blow to Ukraine's commodity exports. However, amidst the challenges lie opportunities. By rebuilding infrastructure, forging new partnerships, and focusing on sustainable practices, Ukraine can navigate these challenging times and emerge as a resilient and competitive exporter once again.

#### 1.2 Ukraine's Competitive Advantage in Key Commodities

#### 1.2.1 Geographical and Climatic Benefits

Ukraine's position as a major exporter of agricultural commodities and a significant player in the mining industry can be attributed in large part to its

advantageous geographical location and favorable climate. This subchapter delves into how these factors contribute to Ukraine's competitive edge in key sectors.

Breadbasket of Europe: Ukraine's nickname, «The Breadbasket of Europe,» is a testament to its fertile black soil, known as chernozem, which stretches across much of the central and southern regions. This rich soil, formed over millennia from decomposed vegetation, offers exceptional nutrients for crops [12, 13]

Favorable Climate: Ukraine's location between 44°N and 53°N latitude provides a temperate climate with warm, humid summers and moderately cold winters. This, coupled with abundant rainfall, creates ideal growing conditions for a variety of crops, particularly wheat, corn, barley, and sunflower seeds.

Access to Water Resources: The presence of major rivers like the Dnipro, Danube, and Siverskyi Donets provides a vital source of irrigation for Ukrainian agriculture, especially in the southern regions where rainfall can be less frequent.

Rich Mineral Deposits: Ukraine boasts vast reserves of minerals that fuel its mining industry.[14] Iron ore, a crucial component in steel production, is one of the country's most significant resources. Ukraine holds an estimated 2.8 billion tonnes of iron ore reserves, ranking it among the top ten globally [15].

Favorable Geographic Location: The Donbas region in eastern Ukraine is particularly rich in mineral deposits, including iron ore, manganese, and coal. This proximity to major industrial centers in eastern Europe facilitates efficient transportation and reduces export costs.

Diverse Resource Base: Beyond iron ore, Ukraine possesses valuable deposits of other minerals like titanium, graphite, and uranium, further strengthening its position in the global mining sector.

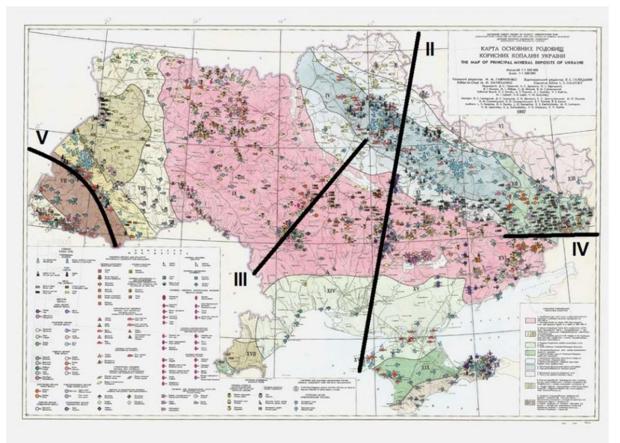


Figure 1.2 - The map of Ukraine's existing mineral deposits with marked position of deep conductive anomalies axis's: I-Carpatian; II-Kirovogradskaya; III-Ryasnopolskaya; IV-Donbaskaya (according to O. Ingerov, 2004)[68]

It's important to acknowledge the ongoing war's devastating impact on Ukraine's agricultural production and mining activities [16]. Disruptions to transportation infrastructure, displacement of farmers, and damage to agricultural land have significantly hampered exports and threaten future harvests [17].

However, Ukraine's geographical and climatic advantages remain. Rebuilding efforts and international support can help the country regain its position as a dominant player in the global agricultural and mining sectors.

Ukraine's geographical location and favorable climate provide a strong foundation for its agricultural and mining sectors. By implementing sustainable practices, fostering technological advancements, and overcoming the current challenges, Ukraine can solidify its role as a leading exporter of key commodities.

Ukraine's status as a major exporter of agricultural commodities and a significant player in the mining industry is largely due to its advantageous

geographical location and favorable climate. The fertile chernozem soil, temperate climate, and abundant water resources underpin its agricultural dominance, earning it the nickname «The Breadbasket of Europe». Additionally, the country's rich mineral deposits and strategic position in the Donbas region bolster its mining sector. These factors collectively contribute to Ukraine's competitive edge in these key economic sectors.

# 1.2.2 Technological Integration and Agricultural Innovations

While Ukraine's geographic location and climate provide a solid foundation for its agricultural prowess, the country is not solely relying on tradition. A wave of technological advancements and innovative practices is transforming Ukrainian agriculture, boosting efficiency, quality, and global competitiveness. This section explores how Ukraine is embracing modern tools and techniques to solidify its position as a major player in the global commodity market.

Precision Agriculture: One of the most significant trends is the adoption of precision agriculture (PA) technologies [18]. PA utilizes a data-driven approach, employing tools like GPS, satellite imagery, and sensors to collect real-time information on soil conditions, crop health, and weather patterns.[19] This data empowers farmers to make informed decisions about resource allocation, such as optimizing fertilizer and water usage, leading to increased yields and reduced environmental impact [23].

A study by the Food and Agriculture Organization (FAO) suggests that precision technologies like variable rate application (VRA) can generate savings of 10-30% on fertilizer costs and potentially raise profitability by up to 50% [23].

Modern Machinery: The Ukrainian agricultural landscape is witnessing a shift towards modern farming equipment. Replacing outdated machinery with tractors, harvesters, and seeding equipment equipped with advanced technologies like auto-guidance and yield monitors leads to improved efficiency, reduced labor costs, and minimized crop losses during harvest. Digitalization and Connectivity: The digital revolution is transforming agricultural practices in Ukraine.[20] The integration of farm management software, online marketplaces, and digital platforms streamlines processes, facilitates communication, and improves market access for farmers. Additionally, the rise of internet connectivity in rural areas allows for real-time monitoring of crops, weather data access, and the implementation of Internet of Things (IoT) solutions in agriculture [21].

Technology	Potential Impact	Considerations	
Yield Monitors & Data Analysis	- Optimize fertilizer and pesticide application - Reduce waste and environmental impact - Improve crop yield and quality	- Requires investment in equipment and software - Data security and privacy concerns	
Remote Sensing & Satellite Imagery	- Monitor crop health and identify problem areas - Improve irrigation management - Track field activity and optimize resource allocation	- Cloud cover can limit data availability - Requires expertise to interpret imagery	
GPS Guidance & Autonomous Systems	<ul> <li>Improve planting and spraying accuracy - Reduce labor costs and fatigue - Increase efficiency and productivity</li> <li>High initial investment equipment - Require infrastructure for sign reception</li> </ul>		
Variable Rate Technology	<ul> <li>Apply fertilizer and pesticides based on specific needs of different field zones - Reduce waste and environmental impact</li> <li>Improve crop yield and quality</li> </ul>	- Requires detailed soil maps and field data - Complexity in managing multiple application rates	
Precision Irrigation Systems	- Optimize water usage and reduce waste - Improve crop health and drought tolerance - Increase water efficiency in a resource-limited region	- Requires investment in infrastructure and sensors - May not be suitable for all types of irrigation systems	
Digital Decision Support Systems	<ul> <li>Integrate data from various sources to make informed decisions - Optimize farm management practices - Improve overall farm profitability</li> </ul>	- Requires reliable internet connectivity and data access - Limited availability of Ukrainian-language software	

Table 1.2 - Potential Impact of Precision Agriculture Technologies in Ukraine Sustainable Practices

While maximizing production is crucial, Ukrainian agriculture is increasingly focusing on sustainable practices. Techniques like crop rotation, cover cropping, and conservation tillage help maintain soil health, reduce erosion, and promote biodiversity. Additionally, the adoption of biofertilizers and integrated pest management (IPM) strategies minimizes reliance on chemical inputs, leading to environmentally friendly production methods [22].

Despite the significant progress, integrating new technologies presents challenges. The high initial investment costs associated with precision agriculture equipment and infrastructure pose a hurdle for smaller farms. Additionally, a skilled workforce adept at operating and utilizing these technologies is necessary to maximize their benefits. Addressing these challenges through government support, training programs, and fostering public-private partnerships can accelerate the widespread adoption of these advancements.[19]

By embracing technological advancements, Ukraine is transforming its agricultural sector. Precision agriculture, modern machinery, digitalization, and a focus on sustainable practices are propelling efficiency, quality, and environmental responsibility. As Ukraine overcomes the current conflict's challenges and continues on this path of innovation, it can solidify its position as a global leader in the production and export of key commodities.

#### 2. CHALLENGES IN THE GLOBAL MARKET

#### 2.1. Economic and Political Challenges Impacting Trade

2.1.1 Global Economic Fluctuations and Trade Dynamics

Ukraine's position as a major exporter of agricultural commodities and a significant player in the mining industry hinges not only on its internal strengths but also on the ever-changing dynamics of the global economy. This subchapter explores how external economic fluctuations, such as recessions, inflation, and currency fluctuations, can significantly impact international trade flows, including those of Ukrainian exports.

Recessions and Trade Slowdowns: Global economic downturns, characterized by recessions, can trigger a domino effect on international trade. When consumer spending weakens in major economies, the demand for imported goods, including agricultural products and raw materials, often declines [24]. This can lead to a decrease in export prices and volumes for countries like Ukraine, impacting their trade revenues and potentially triggering trade imbalances.

For instance, the 2008 financial crisis resulted in a significant decline in global trade, with a 12% drop in merchandise trade volume in 2009 [25]. This, in turn, could have affected Ukrainian exports of commodities like wheat and corn, impacting farmers' incomes and the overall export sector.

Inflationary Pressures and Shifting Trade Patterns: Rising global inflation, characterized by a sustained increase in price levels, can disrupt trade flows in several ways. Higher input costs for agricultural production, such as fertilizers and fuel, can squeeze profit margins for Ukrainian exporters. Additionally, inflation in importing countries can erode consumer purchasing power, potentially leading to a decrease in demand for imported goods.

The current global inflationary wave, partly fueled by the war in Ukraine and supply chain disruptions, is an example of this phenomenon. The impact on Ukrainian exports remains to be seen, but it highlights the vulnerability of international trade to inflationary pressures.

Currency Fluctuations and Trade Competitiveness: Fluctuations in exchange rates can significantly affect the competitiveness of a nation's exports. A depreciation (weakening) of the Ukrainian hryvnia relative to major currencies like the US dollar can make Ukrainian exports cheaper on the global market, potentially boosting export volumes. Conversely, an appreciation (strengthening) of the hryvnia can have the opposite effect, impacting competitiveness and potentially leading to a decline in export volumes.

Governments can implement various trade policies to mitigate the impact of global economic fluctuations on their exports. These include:

Trade Diversification: Reducing reliance on a single export market or a few key commodities can help buffer the impact of external shocks. By diversifying its export markets and product portfolio, Ukraine can lessen its dependence on specific economic conditions in any single country.

Tariffs and Subsidies: Strategic use of tariffs on imports and subsidies for exports can be tools to influence trade flows. However, these measures can also lead to trade disputes and require careful consideration of their potential consequences.

Free Trade Agreements (FTAs): Joining FTAs with major trading partners can reduce trade barriers and facilitate smoother trade flows, even during periods of economic turbulence. Ukraine has existing FTAs with the European Union and other countries, which provide some level of stability and predictability for its exports [26].

Global economic fluctuations and trade dynamics are vividly highlighted in the "World Economic Situation and Prospects 2024" report by the United Nations. The global economy, which exhibited resilience in 2023 with an unexpected growth rate of 2.7%, is projected to slow down to 2.4% in 2024. This anticipated deceleration underscores the vulnerabilities and short-term risks underlying the seemingly robust performance of the previous year. Inflation, although projected to decline from 5.7% in 2023 to 3.9% in 2024, remains a concern. In about a quarter of developing countries, inflation is anticipated to exceed 10%, which significantly erodes economic gains and exacerbates poverty, particularly in the least developed countries. Since January 2021, consumer prices in developing economies have risen cumulatively by 21.1%, driven by supply-side disruptions, conflicts, and extreme weather events, which have disproportionately affected the poorest households.

In this context, global cooperation and prudent economic policies are critical. The report calls for substantial investments, suggesting an SDG Stimulus of at least \$500 billion per year to support sustainable development and climate action. This includes reforming development finance, addressing debt challenges, and scaling up climate financing to foster sustainable and inclusive growth.

Global economic fluctuations and trade dynamics are vividly highlighted in the "World Economic Situation and Prospects 2024" report by the United Nations.[71] The global economy, which exhibited resilience in 2023 with an unexpected growth rate of 2.7%, is projected to slow down to 2.4% in 2024.[71] This anticipated deceleration underscores the vulnerabilities and short-term risks underlying the seemingly robust performance of the previous year.

Inflation, although projected to decline from 5.7% in 2023 to 3.9% in 2024, remains a concern. In about a quarter of developing countries, inflation is anticipated to exceed 10%, which significantly erodes economic gains and exacerbates poverty, particularly in the least developed countries.[71] Since January 2021, consumer prices in developing economies have risen cumulatively by 21.1%, driven by supply-side disruptions, conflicts, and extreme weather events, which have disproportionately affected the poorest households.[71]

In this context, global cooperation and prudent economic policies are critical. The report calls for substantial investments, suggesting an SDG Stimulus of at least \$500 billion per year to support sustainable development and climate action.[71] This includes reforming development finance, addressing debt challenges, and scaling up climate financing to foster sustainable and inclusive growth. The global economy is a complex and interconnected system, where fluctuations in one region can have ripple effects across the globe. Understanding how global economic conditions impact trade dynamics is crucial for countries like Ukraine to navigate the ever-changing international marketplace. By adopting a combination of internal advancements and strategic trade policies, Ukraine can strive for continued success in exporting its key commodities, even in the face of external challenges.

## 2.1.2 Political Instability and Regulatory Changes

Ukraine's journey as a major exporter of agricultural commodities and a significant player in the mining industry is not without its challenges. Political instability and frequent regulatory changes pose significant hurdles to smooth trade operations. This subchapter delves into the direct and indirect impacts of political instability on trade, exploring how these factors influence Ukraine's ability to export its key commodities.

Changes in Government and Trade Policy Shifts: Political upheaval or changes in government leadership can lead to shifts in trade policies. New governments may prioritize different trade partners or implement new regulations that impact export procedures. This uncertainty can disrupt established trade relationships and create challenges for Ukrainian exporters in navigating the new landscape [27].

International Sanctions and Trade Barriers: Political disputes or international conflicts can trigger sanctions or trade barriers against a country. In the case of Ukraine, the ongoing war with Russia has resulted in sanctions imposed by Western nations on Russia, which in turn, have indirectly impacted Ukrainian trade flows [28].

For instance, disruptions to transportation routes and logistical challenges in the Black Sea region have hampered Ukrainian grain exports, affecting global food security [29]. Disruptions to Trade Infrastructure and Logistics: Political instability can lead to disruptions in crucial trade infrastructure, such as ports, roads, and transportation networks. This can significantly hinder the movement of goods, leading to delays and increased costs for Ukrainian exporters.

Investment Uncertainty and Capital Flight: Political instability often creates uncertainty for investors, both domestic and foreign. This can lead to capital flight, where businesses and individuals move their funds out of the country, hindering investment in key sectors like agriculture and mining. Reduced investment can constrain growth and limit the development of infrastructure and technology needed to support efficient commodity exports.

Corruption and Bureaucracy: Political instability can exacerbate existing problems like corruption and bureaucratic inefficiencies. This can lead to delays in obtaining export permits, increased transaction costs, and discourage potential trade partners from engaging with Ukrainian businesses.

Focus on Short-Term Gains over Long-Term Strategies: In times of political instability, governments might prioritize short-term economic gains over long-term strategic trade policies. This can lead to inconsistent regulations and unpredictable trade environments, creating difficulties for businesses planning long-term export strategies.

Geopolitical tensions and conflicts can significantly impact trade dynamics [30]. In the case of Ukraine, the ongoing war with Russia has disrupted trade routes, triggered sanctions, and created an overall environment of uncertainty [31]. This has not only hindered Ukrainian exports but also has had a ripple effect on global food security and commodity prices.

Impact Area	Description	Examples	
Trade Policy & Regulations	Frequent changes in government or leadership can lead to unpredictable trade policies and regulations, making it difficult for businesses to plan and invest in international trade.	- Imposition of new tariffs or quotas Cancellation of existing trade agreements Uncertainty surrounding trade negotiations.	
Investment Climate	Political instability can create an uncertain and risky environment for foreign investment, discouraging businesses from investing in export-oriented industries.	- Capital flight (investors withdrawing funds from the country) Reduced foreign direct investment Difficulty accessing financing for trade activities.	
Logistics & Supply Chains	Political instability can disrupt transportation networks and infrastructure, making it difficult and expensive to move goods across borders.	<ul> <li>Civil unrest leading to road closures or port blockades</li> <li>Damage to infrastructure due to conflict Increased security risks for transportation workers.</li> </ul>	
Currency Fluctuations	Political instability can lead to currency depreciation, making exports cheaper but also increasing the cost of imported goods.	<ul> <li>Reduced purchasing power of importers in unstable countries Difficulty for businesses to hedge against currency fluctuations.</li> </ul>	
Consumer Confidence	Political instability can create uncertainty among consumers, leading them to reduce spending on imported goods.	<ul> <li>Decline in demand for imported products</li> <li>Businesses may struggle to find new markets for their exports.</li> </ul>	

Table 2.1 - Potential Impacts of Political Instability on Trade

Despite the challenges, Ukraine can build resilience against the negative impacts of political instability on trade. Strategies include:

Diversification of Trade Partners and Markets: Reducing reliance on a single export market or a few key trade partners can lessen the impact of political disputes or sanctions. Fostering trade relationships with new partners and exploring diverse markets can provide stability and mitigate risks. Strengthening Institutions and Transparency: Building strong and transparent institutions can help combat corruption and reduce bureaucratic inefficiencies. This creates a more predictable and business-friendly environment for trade.

Investing in Trade Facilitation: Investments in improving trade infrastructure, streamlining export procedures, and adopting digital solutions can enhance efficiency and reduce costs associated with exporting Ukrainian commodities.

International Cooperation and Regional Integration: Building strong relationships with international organizations and fostering regional integration can provide Ukraine with greater political and economic stability. This can also offer support in navigating complex trade environments.

Political instability and regulatory changes are inherent challenges in the global trade landscape. By implementing strategies that promote diversification, transparency, and international cooperation, Ukraine can navigate these challenges and strengthen its position as a reliable and competitive exporter of key commodities. The country's ability to overcome these obstacles will be crucial in determining its long-term success in the global marketplace.

- 2.2. Market Access and Trade Barriers
- 2.2.1 Tariffs and Non-Tariff Barriers

Ukraine's ability to successfully export its agricultural commodities and minerals hinges on its access to international markets. However, navigating the global trade landscape is not without hurdles. Tariffs and non-tariff barriers (NTBs) erected by importing countries can significantly impact the cost, competitiveness, and overall volume of Ukrainian exports. This subchapter explores how these measures influence market access for Ukrainian commodities.

Definition and Impact: A tariff is a tax levied on imported goods [32]. By raising the price of imported products, tariffs aim to protect domestic industries from foreign competition. This can incentivize consumers to purchase domestically

produced goods, potentially benefiting local producers but potentially raising prices for consumers [33].

For instance, if Country A imposes a 10% tariff on imported wheat, Ukrainian wheat exports to that country might become less attractive compared to domestically produced wheat. This could lead to a decrease in Ukrainian wheat exports to Country A.

Impact on Pricing and Competition: Tariffs directly affect the price of imported goods [34]. A higher tariff translates to a higher price for consumers in the importing country [34]. This can lead to a decrease in demand for imported goods, potentially impacting export volumes for Ukrainian producers.

Negotiations and Trade Agreements: International trade agreements often involve tariff reductions or eliminations between member countries [35]. This facilitates freer trade flows and creates a more level playing field for exporters like Ukraine. Ukraine has existing Free Trade Agreements (FTAs) with the European Union and other countries, which provide preferential access to these markets and reduce tariff burdens on Ukrainian exports [36].

NTBs are a diverse set of measures that can restrict international trade without directly imposing a tax.[37] Common NTBs include:

Quotas: These limit the quantity of a specific good that can be imported into a country during a particular period.[38] Quotas can significantly restrict market access for Ukrainian exports if set at low levels.

Embargoes: These are complete bans on the import of specific goods from a particular country [39]. While rarely used, embargoes can completely block Ukrainian exports to a specific market.

Technical Barriers to Trade (TBTs): These are regulations or standards that imported goods must meet to be sold in a particular country.[40] Stringent TBTs can pose challenges for Ukrainian exporters if their products do not comply with the specific requirements of the importing country.

Sanitary and Phytosanitary (SPS) Measures: These measures aim to protect human, animal, or plant health from risks associated with imported goods. While necessary for safety, overly stringent SPS measures can create unnecessary burdens for Ukrainian exporters trying to comply with regulations.

Trade Barrier Type	Description	Example	
Tariff	A tax levied on imported goods, raising their price for consumers in the importing country.	- A 10% import duty on clothing from a specific country.	
Quota	A limit on the quantity of a specific good that can be imported during a certain period.	- An annual quota of 1 million tons of wheat allowed for import.	
Embargo	Embargo A complete ban on trade with a particular country.		
A financial grant or other form of support provided by a government to a domestic industry, making it more competitive with foreign imports.		- Government subsidies for domestic steel producers to lower their production costs.	
Licensing	A requirement for importers to obtain a license before they can import a particular good.	- A licensing requirement for importing certain types of electronic equipment to ensure safety standards.	
Standards & Regulations	Safety, health, or environmental regulations that can make it difficult or expensive for foreign goods to comply, hindering their import.	- Strict food safety regulations that may require additional processing for imported food items.	
Customs Delays	Intentional or unintentional delays in the customs clearance process for imported goods, increasing costs and lead times.	- Lengthy inspections of imported goods at the border.	

Table 2.1 - Examples of Tariffs and Non-Tariff Barriers

While tariffs and NTBs can serve legitimate purposes like protecting domestic industries or ensuring food safety, they can also distort trade flows and hinder market

access for exporters like Ukraine. Striking a balance between these objectives is crucial for promoting a fair and efficient global trading system.

Compliance and Capacity Building: Ensuring Ukrainian exports meet the TBTs and SPS measures of importing countries is essential. Investing in quality control measures and compliance procedures can help Ukrainian producers navigate these requirements.

Engaging in Trade Negotiations: Actively participating in international trade negotiations can help Ukraine secure lower tariffs and advocate for fairer trade practices that benefit its exports.

Diversifying Export Markets: Relying less on a single market or a few key trading partners can lessen the impact of trade barriers imposed by any one country. Exploring new markets and fostering trade relationships with diverse partners can provide stability and mitigate risks associated with specific trade barriers.

Tariffs and NTBs are a reality of the international trade landscape. By understanding their impact, implementing strategies to overcome them, and actively engaging in the global trade dialogue, Ukraine can continue to expand its market access and solidify its position as a major exporter of key commodities.

#### 2.2.2 Political Instability and Regulatory Changes

In the ever-evolving landscape of international trade, intellectual property (IP) rights play a significant role, often acting as a double-edged sword. While IP protections incentivize innovation and creativity, they can also present complexities and potential barriers for businesses like those in Ukraine seeking to access foreign markets for their agricultural products and potentially new mining technologies. This subchapter delves into the intricate relationship between intellectual property rights and trade, exploring the challenges and opportunities they present for Ukrainian exporters.

Definition and Scope: Intellectual property refers to intangible creations of the human mind, including inventions, literary and artistic works, designs, and symbols.[41] Patents, copyrights, trademarks, and trade secrets are legal mechanisms that protect these creations and grant exclusive rights to their owners.[42]

For example, a Ukrainian scientist might develop a new, high-yielding wheat variety. A patent on this new variety would grant the scientist exclusive rights to produce and sell it for a defined period, incentivizing further research and development in the agricultural sector.

Impact on Trade: Strong IP protection regimes can stimulate innovation by providing inventors and creators with the confidence to invest in research and development (R&D).[43] This, in turn, can lead to the development of new products and technologies that benefit consumers worldwide.[44] Additionally, robust IP enforcement can attract foreign investment and technology transfer, facilitating knowledge sharing and boosting export competitiveness.

Stringent IP Laws and Market Access: While IP protection is crucial, overly stringent IP laws in certain countries can create challenges for Ukrainian businesses seeking to enter those markets. For instance, high licensing fees for patented technologies or strict plant variety protection laws might make it difficult for Ukrainian agricultural companies to access essential technologies or improved seed varieties.

Balancing Innovation and Access: Finding the right balance between protecting innovation and ensuring access to technologies and products is crucial. Some countries might utilize compulsory licensing, where governments can issue licenses to produce patented inventions under certain conditions. This can help ensure access to essential technologies for developing countries like Ukraine.

Protecting Ukrainian Innovations: For Ukraine, robust IP protection can be an opportunity. By securing patents on new agricultural technologies or plant varieties developed by Ukrainian scientists, the country can protect its own innovations and potentially generate revenue through licensing agreements.

Geographical Indications (GIs): Geographical indications (GIs) are a form of IP that identifies a product as originating from a specific geographical location and possessing qualities or characteristics specific to that location. For instance, Ukrainian producers could seek GI protection for specific varieties of wheat or other agricultural products known for their unique quality, potentially fetching a premium price in the global market.

Table 2.3 - Examples of IP Rights and their Potential Impact on Ukrainian Exports

IP Right	Description	Potential Impact on Ukrainian Exports
Patents	Grants exclusive rights to inventions for a limited period, allowing inventors to recoup their investment and control how their invention is used.	<ul> <li>Patents on innovative agricultural machinery could give Ukrainian manufacturers a competitive advantage in export markets.</li> <li>However, strict patent enforcement in some countries could make it difficult for Ukrainian companies to access essential technologies.</li> </ul>
Trademarks	Protects distinctive signs used to identify the source of goods or services.	<ul> <li>Strong trademarks for Ukrainian food products (e.g., sunflower oil) can differentiate them from competitors and command premium prices.</li> <li>Counterfeiting of Ukrainian trademarks in other countries could damage brand reputation and reduce export revenue.</li> </ul>
Copyrights	Protects original creative expressions, such as literary works, music, and software.	<ul> <li>Copyright protection for Ukrainian software could encourage investment in its development and facilitate export to other countries.</li> <li>Weak copyright enforcement could discourage Ukrainian creators from developing innovative software due to concerns about piracy.</li> </ul>
Plant Variety Protection	Provides rights to breeders of new varieties of plants.	<ul> <li>Protection for Ukrainian-developed crop varieties could incentivize research and development, leading to higher quality and more productive exports.</li> <li>Lack of protection in other countries could allow competitors to freely use Ukrainian varieties, reducing potential export revenue.</li> </ul>

Navigating the complexities of IP rights in a global marketplace requires international cooperation.[45] Organizations like the World Trade Organization (WTO) play a crucial role in establishing international standards for IP protection and fostering dialogue between member countries.

Ukraine's political instability and regulatory changes are deeply influenced by recent events and structural reforms. The full-scale Russian invasion since February 24, 2022, has profoundly impacted the nation's political landscape. At one point, Russia occupied 17% of Ukraine's territory, leading to widespread devastation and increased poverty, with one-fifth of the population living in poverty by the end of 2022 [72]. The war caused a 30% drop in GDP, and unemployment soared to one-third of the population [72].

Ukraine's defense expenses increased tenfold, consuming nearly half of fiscal spending. Despite these challenges, Ukraine's societal support for EU and NATO membership has surged to over 80%, uniting the country against Russian aggression.[72] Reforms have been accelerated, particularly in the judiciary, anti-corruption, and media sectors, driven by Ukraine's EU candidate status.

International assistance has been critical, with Ukraine receiving approximately \$32 billion in 2022. The banking system remained stable, and egovernment services have helped maintain public administration despite the conflict. Structural reforms since 2014, especially decentralization, have enhanced local governance, while the development of online administrative services has improved transparency and efficiency [72].

Intellectual property rights are a complex and ever-evolving aspect of international trade. While they can pose challenges for market access, they also present opportunities for Ukrainian businesses to protect their innovations and potentially gain a competitive edge. By actively engaging in international discussions and pursuing strategic IP management practices, Ukraine can ensure a more level playing field for its exporters in the global marketplace.

#### **3. STRATEGIC OPPORTUNITIES FOR GROWTH**

#### 3.1. Potential Markets for Diversification

#### 3.1.1 Identifying Underexplored Industries

Ukraine's position as a major exporter of agricultural commodities and minerals is well-established [46]. However, for long-term economic stability and resilience, diversification into new and emerging industries is crucial. This subchapter delves into the process of identifying underexplored sectors with significant growth potential, exploring case studies of industries like sustainable construction materials, space tourism, and alternative proteins.

Over-reliance on Traditional Sectors: Excessive dependence on a few key export commodities can leave an economy vulnerable to external fluctuations in price or demand.[47] Diversifying into new industries can mitigate this risk and create a more robust and adaptable economic base.

Innovation and Technological Advancement: Focusing on emerging industries can propel Ukraine to the forefront of innovation and technological advancement. This can attract foreign investment, create high-skilled jobs, and enhance the country's overall competitiveness in the global marketplace.

There's no one-size-fits-all approach to identifying promising new industries. However, some key factors can guide the process:

Market Trends and Consumer Demand: Analyzing global trends in consumer preferences and identifying unmet needs can reveal potential opportunities for new products or services.

Technological Advancements and Disruptions: Emerging technologies can create new industries or revolutionize existing ones. Understanding these advancements and their potential applications can help pinpoint promising sectors.

Government Policies and Incentives: Government support and investment in specific industries can create fertile ground for their development. Examining these policies can highlight areas with potential for growth. 1. Sustainable Construction Materials:

Market Potential: The global construction industry is undergoing a shift towards sustainable practices [48]. This creates demand for eco-friendly building materials like recycled steel, bio-based composites, and low-carbon concrete.

Ukraine's Advantages: Ukraine has a strong foundation in steel production and a growing focus on renewable energy. These resources can be leveraged to develop and export sustainable construction materials [50].

2. Space Tourism:

Market Potential: The space tourism industry is in its nascent stages but holds immense growth potential. As space travel becomes more accessible, demand for suborbital flights and space experiences is expected to rise [51].

Ukraine's Advantages: Ukraine has a rich history in aerospace engineering and a skilled workforce [49]. This expertise can be channeled into developing technologies and services for the space tourism industry.

3. Alternative Proteins:

Market Potential: Concerns about environmental sustainability and animal welfare are driving the growth of alternative protein sources like plant-based meat and cultivated meat.

Ukraine's Advantages: Ukraine has a strong agricultural base and a growing food processing industry. These resources can be utilized to develop and export innovative alternative protein products.

These are just a few examples, and the possibilities for diversification are vast. By actively exploring underexplored industries, Ukraine can position itself as a leader in new and innovative sectors, ensuring long-term economic growth and prosperity.

Industry	Description	Growth Potential for Ukraine	Considerations
Precision Agriculture	Utilizing technologies like sensors, data analysis, and automation to optimize crop yields and resource use.	- Improve efficiency and profitability of Ukrainian agriculture, a major export sector Reduce environmental impact through targeted fertilizer and pesticide application.	- Requires investment in infrastructure and farmer training Data security and privacy concerns need to be addressed.
Information Technology (IT) Services	Offering software development, IT support, and other technology- related services to businesses around the world.	- Leverage Ukraine's strong talent pool in IT and computer science Capitalize on the growing global demand for IT services.	- Competition from established IT service providers in other countries Need to ensure reliable internet infrastructure.
Renewable Energy	Developing and utilizing solar, wind, and biomass energy sources.	<ul> <li>Reduce dependence on imported fossil fuels and enhance energy security.</li> <li>Contribute to environmental sustainability goals and attract investment.</li> </ul>	- Initial investment required for infrastructure development Government policies to incentivize renewable energy adoption.
Creative Industries	Encompassing sectors like animation, gaming, filmmaking, and fashion design.	- Capitalize on Ukraine's rich cultural heritage and artistic talent Growing global demand for digital content and entertainment.	<ul> <li>Need for investment in infrastructure and development programs.</li> <li>Strengthening intellectual property protection for creative works.</li> </ul>
High-Value Agriculture	Production of specialty crops, organic produce, and processed food products.	<ul> <li>Increase export value by focusing on niche markets and premium products Leverage Ukraine's fertile land and agricultural expertise.</li> </ul>	<ul> <li>Requires investment in research and development for new food products Meeting stringent quality standards for international markets.</li> </ul>
Medical Tourism	Attracting foreign patients for medical treatments and wellness services.	- Capitalize on Ukraine's well-trained medical professionals and competitive costs Growing global demand for affordable healthcare options.	- Investment in modernizing healthcare facilities and infrastructure Developing a strong reputation for medical tourism services.

Table 3.1 - Underexplored Industries with Growth Potential for Ukraine



Figure 3.1 – Ukraine's top potential non-food manufacturing sectors[74]

Diversifying its export portfolio beyond traditional commodities is crucial for Ukraine's long-term economic success. By carefully analyzing market trends, technological advancements, and government policies, Ukraine can identify underexplored industries with significant growth potential. The case studies presented offer a glimpse into the exciting possibilities that lie ahead for Ukraine as it embraces innovation and carves its niche in new and emerging markets.

# 3.1.2 Cultural Adaptation and Local Engagement

As Ukraine ventures beyond its traditional export base to diversify its economy, successfully entering new markets requires more than just identifying promising industries. Cultural adaptation and local engagement are fundamental for navigating the complexities of doing business in culturally distinct environments.[52] This subchapter explores the critical role of understanding and integrating into local customs, consumer behavior, and business practices to ensure a smooth and successful market entry.

Understanding Consumer Preferences: Consumer behavior and product preferences vary widely across cultures.[53] Ignoring these differences can lead to marketing campaigns that fall flat and products that fail to resonate with local audiences.

For instance, color symbolism can differ significantly across cultures. A color that signifies wealth and prosperity in one country might be associated with mourning in another.[54] Companies entering new markets need to be mindful of such cultural nuances to avoid inadvertently offending consumers.

Navigating Business Etiquette: Business practices, communication styles, and negotiation tactics can vary considerably.[55] Failing to adapt to local norms can lead to misunderstandings, damaged relationships, and missed opportunities.[56]

In some cultures, direct and assertive communication is preferred, while others value a more indirect and relationship-based approach.[57] Understanding these differences is crucial for effective communication and building trust with potential business partners.

Building Trust and Long-Term Relationships: Many cultures place a high value on personal relationships and building trust before entering into business agreements. Companies that invest time in understanding local customs and fostering genuine connections with potential partners are more likely to achieve long-term success.

Market Research and Cultural Sensitivity Training: Conducting thorough market research and providing cultural sensitivity training for employees venturing into new markets are crucial first steps. This equips companies with the knowledge and understanding necessary to navigate cultural differences effectively.

Building a Local Team: Partnering with or hiring local representatives with deep cultural understanding can provide invaluable insights and bridge the gap between the company and the local market.

Adapting Marketing and Branding Strategies: Marketing messages, branding elements, and product features might need to be adapted to resonate with local consumer preferences and cultural norms.

Respecting Local Laws and Regulations: Understanding and complying with local regulations, business laws, and labor practices is essential for avoiding legal complications and gaining legitimacy in the new market.

Enhanced Brand Reputation: Demonstrating a genuine commitment to understanding and respecting local culture can enhance a company's brand reputation and foster goodwill among consumers.

Stronger Relationships with Local Partners: Investing in building relationships with local businesses and communities can create a strong support network and facilitate long-term success.

Reduced Risk of Market Entry Failure: By adapting to local customs and preferences, companies can significantly reduce the risk of misunderstandings and setbacks during market entry.

Coca-Cola, a global beverage giant, provides a prime example of successful cultural adaptation. The company understands that consumer preferences and cultural nuances vary widely across markets. In China, for instance, Coca-Cola incorporates auspicious red colors and imagery into its marketing campaigns to resonate with local cultural symbolism [59].

Cultural adaptation and local engagement are not simply «check-the-box» exercises. They are ongoing processes that require continuous learning and sensitivity.[58] By embracing cultural differences, building trust with local stakeholders, and adapting its approach to each unique market, Ukraine can unlock the full potential of its diversification efforts and establish itself as a successful player in new and exciting economic spheres.

3.2 Policy Recommendations for Enhancing Export Performance

3.2.1 Strengthening Trade Infrastructure

The war has inflicted severe damage on Ukraine's transport infrastructure, amounting to USD 36.2 billion in the first year alone. Road infrastructure suffered the most, with losses estimated at USD 26.7 billion, followed by railway infrastructure at USD 4.3 billion, bridges at USD 2.6 billion, aviation infrastructure at USD 2.1 billion, and port infrastructure at USD 496 million.[73] The overall cost of reconstruction and recovery is projected to exceed USD 411 billion over a decade, with transport infrastructure alone requiring USD 92 billion.[73]

Ukraine's ambition to solidify its position as a major exporter of agricultural commodities and minerals hinges on a robust trade infrastructure. This infrastructure acts as the lifeblood of export activity, encompassing everything from physical transportation networks to digital platforms that facilitate trade flows. This subchapter delves into the importance of trade infrastructure for enhancing export performance in Ukraine, exploring recommendations for improvements across various domains.

Transportation Networks: Efficient and reliable transportation networks are crucial for moving goods from producers to export hubs. This includes wellmaintained roads, railways, and inland waterways. Upgrading and expanding these networks can significantly reduce transportation costs and expedite delivery times, making Ukrainian exports more competitive in the global marketplace.

Ports and Logistics Services: Modern and efficient ports are vital gateways for maritime exports. Investment in port infrastructure, including cargo handling equipment and storage facilities, can streamline export processes and minimize delays. Additionally, fostering a competitive logistics services sector with skilled professionals can further enhance export efficiency.

For instance, congestion at Ukrainian Black Sea ports due to the ongoing war has significantly hampered grain exports.[62] Upgrading port infrastructure and diversifying export routes can help mitigate such disruptions in the future.[60]

Digital Infrastructure: The digital age has transformed international trade, and a robust digital infrastructure is now essential. This includes trade facilitation platforms that streamline customs procedures, e-commerce capabilities for connecting with international buyers, and real-time data exchange for efficient supply chain management.

Ukraine has made progress in developing its digital trade infrastructure, with initiatives like the Single Window for Trade Facilitation.[63] Further investments in digital solutions can significantly enhance transparency, reduce administrative burdens, and expedite export processes [61].

Table 3.2 - Pillars of Trade Infrastructure and their Impact on Export Performance

Pillar	Description	Impact on Export Performance	Examples
Transport Infrastructure	Physical networks that facilitate the movement of goods between countries, including roads, railways, ports, and airports.	- Efficient and reliable transportation reduces export costs and delivery times, making exporters more competitive Connectivity to major trade routes allows access to a wider range of markets.	<ul> <li>Investment in modernizing roads, railways, and port facilities</li> <li>Developing efficient logistics networks to connect production centers to ports.</li> </ul>
Trade Facilitation	Measures that simplify and streamline the process of importing and exporting goods, such as customs procedures, documentation requirements, and border security checks.	- Faster clearance times at borders reduce export delays and associated costs Transparent and predictable regulations create a more business- friendly environment for exporters.	- Implementing electronic customs clearance systems Harmonizing trade documents and regulations with international standards.
Information & Communication Technology (ICT) Infrastructure	Technologies that enable the efficient exchange of information for trade transactions, including reliable internet connectivity, trade finance platforms, and e- commerce solutions.	- Improved access to trade information allows exporters to identify new markets and opportunities Online platforms facilitate communication with buyers and expedite transactions.	- Investment in broadband internet infrastructure to ensure nationwide coverage Developing secure e- commerce platforms for international trade.
Financial Infrastructure	The institutions and processes that provide	- Trade finance provides exporters	- Expanding access to trade finance products

	financial services essential for trade, such as access to trade finance, foreign exchange markets, and risk mitigation instruments.	with the working capital needed to fulfill export orders Foreign exchange markets facilitate the conversion of currencies for international transactions.	for small and medium-sized exporters Developing a robust insurance market to mitigate export risks.
Logistics Services	The industry that provides services related to the physical movement, storage, and handling of goods, including warehousing, freight forwarding, and customs brokerage	- Efficient logistics services ensure the timely and cost- effective movement of goods through the supply chain Value- added services like packaging and labeling can enhance the competitiveness of exports.	- Investment in modern logistics facilities and infrastructure Developing a skilled workforce in the logistics sector.

Public-Private Partnerships (PPPs): Collaborations between the government and private sector can leverage private sector expertise and financing for infrastructure development projects. PPPs can be instrumental in upgrading transportation networks, modernizing ports, and investing in digital trade solutions.

Focus on Regional Integration: Participating in regional trade agreements and fostering closer cooperation with neighboring countries can facilitate the development of cross-border infrastructure projects. These projects can improve transportation links and enhance regional trade connectivity.

Investing in Human Capital: Building a skilled workforce with expertise in logistics, customs procedures, and digital trade management is crucial for operating and maintaining a robust trade infrastructure. Investments in education and training programs can equip Ukrainians with the necessary skills to navigate the complexities of the global trade landscape.

Prioritizing Trade Facilitation: Streamlining customs procedures, reducing red tape, and adopting international best practices in trade facilitation can significantly improve the ease of doing business for Ukrainian exporters. This can be achieved through investments in digital customs systems, automation of processes, and harmonization of trade regulations.

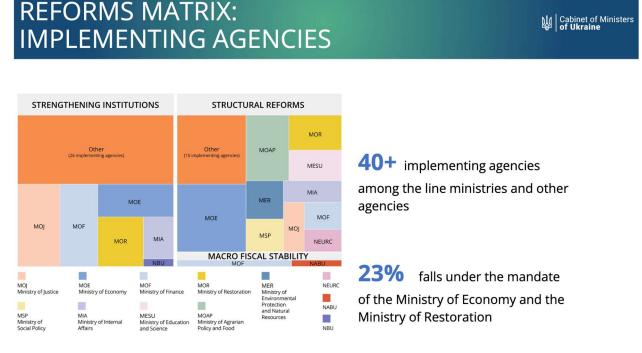


Figure 3.1 - Reforms matrix: implementing agencies [75]

Investing in and strengthening trade infrastructure is a strategic imperative for Ukraine's continued success as a major exporter. By prioritizing improvements across physical networks, logistics services, and digital solutions, Ukraine can create a more efficient and competitive export environment, facilitating the smooth flow of goods to international markets. This, in turn, can contribute to economic growth, job creation, and overall prosperity for the nation.

## 3.2.2 Enhancing Trade Agreements and Partnerships

In the fiercely competitive world of international trade, securing access to foreign markets is paramount for a country's export success.[65] Trade agreements and partnerships play a pivotal role in achieving this objective. This subchapter explores the benefits of these agreements, strategies for negotiating favorable terms, and the role of diplomacy in securing and expanding market access for Ukrainian exports.

Tariff Reductions and Elimination: Trade agreements typically involve reductions or elimination of tariffs (taxes) levied on imported goods. This makes Ukrainian exports more affordable in foreign markets, increasing their competitiveness and potentially boosting export volumes.

Non-Tariff Barrier Reduction: Many trade agreements address non-tariff barriers (NTBs) like quotas, cumbersome customs procedures, and stringent technical standards. By reducing these barriers, Ukrainian exporters face fewer hurdles in accessing foreign markets.

Improved Market Access: Trade agreements can create preferential access for Ukrainian exports to specific markets, granting them an advantage over competitors from countries without such agreements.

Dispute Settlement Mechanisms: Trade agreements often establish mechanisms for resolving trade disputes between member countries.[66] This provides a predictable and impartial framework for addressing any trade-related issues that might arise.

Understanding Negotiating Positions: Thorough preparation is key to successful trade negotiations. This involves understanding the strengths and weaknesses of Ukraine's bargaining position, as well as the interests and priorities of potential trading partners.

Focus on Reciprocity and National Interests: Negotiations should aim for mutually beneficial outcomes. While seeking market access and tariff reductions for Ukrainian exports, negotiators should also consider potential concessions that align with Ukraine's national interests.

Building Strategic Alliances: Collaborating with like-minded countries with shared trade objectives can strengthen Ukraine's negotiating position and create a more unified front vis-à-vis potential trading partners.

Building Strong Relationships: Diplomacy is essential for establishing and fostering strong relationships with potential trading partners. This includes highlevel political engagement, as well as active participation in international trade forums and organizations. Advocating for Trade Liberalization: Ukrainian diplomats can play a crucial role in promoting the benefits of free trade and advocating for the reduction of trade barriers in international discussions.

Addressing Trade Concerns: Diplomacy provides a platform for addressing any trade concerns or disputes that may arise with existing trading partners.[67] Open communication and a commitment to finding solutions are key to maintaining positive trade relationships.

The DCFTA, signed in 2016, is a landmark agreement that has significantly boosted trade between Ukraine and the European Union.[64] The agreement has led to tariff reductions on a wide range of Ukrainian exports, simplified customs procedures, and improved market access for Ukrainian businesses in the EU, a major export market.[64]

Expanding and optimizing trade agreements and partnerships is a strategic imperative for unlocking Ukraine's full export potential. By strategically negotiating favorable terms, leveraging effective diplomacy, and building strong relationships with trading partners, Ukraine can create a more open and competitive trade environment, paving the way for sustained export growth and economic prosperity.

## **CONCLUSIONS**

Ukraine's place in the global commodity market is undeniably significant, driven by its substantial contributions in agricultural exports, iron ore, and sunflower oil. The country's fertile soil and strategic location have historically positioned it as a major agricultural producer, often referred to as the «Breadbasket of Europe». Key commodities like wheat, corn, and sunflower oil not only generate substantial revenue but also create jobs across the agricultural supply chain, playing a crucial role in Ukraine's economy.

However, recent geopolitical developments, particularly the ongoing conflict with Russia, have severely disrupted Ukraine's commodity exports. The war has caused significant damage to agricultural infrastructure, displaced farmers, and created bottlenecks in transportation, all of which have led to reduced planting and harvesting, logistics challenges, and a shortage of labor. These disruptions have resulted in significant decreases in export volumes and increased global commodity prices, highlighting the vulnerability of Ukraine's export sector to external shocks.

Despite these challenges, Ukraine's geographical and climatic advantages, combined with its rich mineral deposits, provide a strong foundation for its agricultural and mining sectors. The adoption of technological innovations, such as precision agriculture and modern farming equipment, is transforming Ukrainian agriculture, enhancing efficiency, quality, and sustainability. These advancements, coupled with sustainable practices like crop rotation and integrated pest management, are crucial for maintaining soil health and reducing environmental impact, ensuring long-term productivity and competitiveness.

The global economic environment also significantly impacts Ukraine's trade dynamics. Recessions, inflation, and currency fluctuations can all affect the demand for Ukrainian exports, while political instability and regulatory changes pose additional challenges. The war has led to sanctions, disrupted transportation routes, and increased logistical costs, further complicating Ukraine's export activities. However, strategies such as trade diversification, strengthening institutions, and investing in trade facilitation can help mitigate these challenges and enhance Ukraine's resilience in the global market.

To further bolster its export performance, Ukraine must invest in strengthening its trade infrastructure. This includes upgrading transportation networks, modernizing ports, and enhancing digital infrastructure to facilitate efficient and cost-effective trade. Public-private partnerships and regional integration can play a crucial role in these efforts, providing the necessary resources and expertise for infrastructure development.

Moreover, expanding and optimizing trade agreements and partnerships is essential for securing access to foreign markets. Trade agreements can reduce tariffs, address non-tariff barriers, and provide mechanisms for dispute resolution, making Ukrainian exports more competitive globally. Effective diplomacy and strategic alliances are also vital for building strong trade relationships and advocating for trade liberalization.

While Ukraine faces significant challenges due to recent geopolitical developments and global economic fluctuations, its inherent advantages and strategic initiatives position it well for recovery and growth. By leveraging its geographical and climatic strengths, embracing technological innovations, and investing in trade infrastructure and partnerships, Ukraine can solidify its role as a major exporter and navigate the complexities of the global commodity market. The resilience and adaptability demonstrated by Ukraine in the face of adversity underscore its potential to emerge stronger and more competitive in the future.

## LIST OF REFERENCES

 Ukraine production. USDA Foreign Agricultural Service. URL: https://ipad.fas.usda.gov/countrysummary/Default.aspx?id=UP (дата звернення: 10.04.2024).

2.Ukraine.WorldBank.URL:https://www.worldbank.org/en/country/ukraine (date of access: 10.04.2024).

3. U. S. Geological U.S. Geological Survey. Mineral commodity summaries2022.IndependentlyPublished,2022.URL:https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-iron-ore.pdf(date of access:10.04.2024).

4. From the ground up: demining farmland and improving access to fertilizer to restore Ukraine's agricultural production. CSIS | Center for Strategic and International Studies. URL: https://www.csis.org/analysis/ground-demining-farmland-and-improving-access-fertilizer-restore-ukraines-agricultural (date of access: 11.04.2024).

5. Ukraine: still Europe's breadbasket. Eurozine | Eurozine: Europe's leading cultural journals at your fingertips. URL: https://www.eurozine.com/ukraine-still-europes-breadbasket/ (date of access: 11.04.2024).

6. Eisele I. Five facts on grain and the war in Ukraine – DW – 11/01/2022. dw.com. URL: https://www.dw.com/en/five-facts-on-grain-and-the-war-inukraine/a-62601467 (date of access: 11.04.2024).

7. Grain from ukraine. Ministry of Foreign Affairs of Ukraine. URL: https://mfa.gov.ua/en/grain-ukraine (date of access: 12.04.2024).

8. Kammer A., Azour J., Goldfajn I. How war in ukraine is reverberating across world's regions. IMF BLOG. URL: https://www.imf.org/en/Blogs/Articles/2022/03/15/blog-how-war-in-ukraine-isreverberating-across-worlds-regions-031522 (date of access: 12.04.2024).

9. The impacts and policy implications of Russia's aggression against Ukraine on agricultural markets. OCED. URL: https://www.oecd.org/ukraine-hub/policy-

responses/the-impacts-and-policy-implications-of-russia-s-aggression-againstukraine-on-agricultural-markets-0030a4cd/ (date of access: 12.04.2024).

10. Agricultural war damages review. Kyiv School of Economics. URL: https://kse.ua/agricultural-war-damages-review/ (date of access: 13.04.2024).

11. Ben Hassen T., El Bilali H. Impacts of the russia-ukraine war on global food security: towards more sustainable and resilient food systems?. Foods. 2022. Vol. 11, no. 15. P. 2301. URL: https://doi.org/10.3390/foods11152301 (date of access: 13.04.2024).

12. Live Coverage, Opinions and Videos. URL: https://www.trtworld.com/magazine/what-s-so-special-about-ukraine-s-black-soil-56186 (date of access: 13.04.2024).

13. Agro ukraine. Ministry of Agrarian Policy and Food of Ukraine. URL: https://minagro.gov.ua/en (date of access: 14.04.2024).

14.Mining-UkraineInvest.URL:https://ukraineinvest.gov.ua/en/industries/mining/ (date of access: 14.04.2024).

15. Ukraine - resources, power, economy. Encyclopedia Britannica. URL: https://www.britannica.com/place/Ukraine/Resources-and-power (date of access: 14.04.2024).

16. Martyshev P., Nivievskyi O., Bogonos M. Regional war, global consequences: Mounting damages to Ukraine's agriculture and growing challenges for global food security. IFPRI : International Food Policy Research Institute. URL: https://www.ifpri.org/blog/regional-war-global-consequences-mounting-damages-ukraines-agriculture-and-growing-challenges (date of access: 15.04.2024).

17. The impact of the 2022 Ukraine/Russian conflict on cancer clinical trials.PubMedCentral(PMC).URL:https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9751167/(date of access:15.04.2024).

18. Tendencies of precision agriculture in ukraine: disruptive smart farming tools as cooperation drivers. MDPI. URL: https://www.mdpi.com/2077-0472/12/5/698 (date of access: 15.04.2024).

19. Precision farming technologies in the Ukrainian agricultural sector. (2021). Kyiv: Ukrainian Agribusiness Club. Commissioned by the Netherlands Enterprise Agency (RVO) and the Embassy of the Kingdom of the Netherlands in Kyiv, Ukraine. URL: https://www.agroberichtenbuitenland.nl/binaries/agroberichtenbuitenland/documen ten/publicaties/2021/11/5/ukraine-precision-farmingstudy/Precision+farming+Ukraine.pdf (date of access: 16.04.2024).

20. What drives digital transformation of agriculture: the case of ukraine. Large Scale Agriculture. URL: https://www.largescaleagriculture.com/home/news-details/what-drives-digital-transformation-of-agriculture-the-case-of-ukraine/ (date of access: 16.04.2024).

21. With EU support, Ukraine has launched the State Agrarian Registry, an online platform for farmers' support. EEAS. URL: https://www.eeas.europa.eu/delegations/ukraine/eu-support-ukraine-has-launched-state-agrarian-registry-online-platform-farmers\_en?s=232 (date of access: 16.04.2024).

22. World Bank Group. Farmers in Ukraine to benefit from world bank support. World Bank. URL: https://www.worldbank.org/en/news/press-release/2023/10/30/farmers-in-ukraine-to-benefit-from-world-bank-support (date of access: 17.04.2024).

23. Digital technologies in the grain sector of Ukraine. FAO, 2022. URL: https://doi.org/10.4060/cc1600en (date of access: 17.04.2024).

24. USDA ERS - A weakening global economy interrupts agricultural trade. USDA ERS - Home. URL: https://www.ers.usda.gov/amber-waves/2009/june/aweakening-global-economy-interrupts-agricultural-trade/ (date of access: 17.04.2024).

25. Baldwin R. E. Great trade collapse: causes, consequences and prospects. Centre for Economic Policy Research, 2011 (date of access: 18.04.2024). 26. Free trade agreements (FTA). Ministry of Foreign Affairs of Ukraine. URL: https://mfa.gov.ua/en/about-ukraine/economic-cooperation/free-tradeagreements-fta (date of access: 18.04.2024).

27. Impact of political instability on international investment and trade in pakistan | qadri | european online journal of natural and social sciences. URL: https://european-science.com/eojnss/article/view/5987/0 (date of access: 18.04.2024).

28. One year of war in Ukraine: assessing the impact on global trade and development. World Trade Organization - Home page - Global trade. URL: https://www.wto.org/english/res\_e/publications\_e/oneyukr\_e.htm (date of access: 19.04.2024).

29. The importance of Ukraine and the Russian Federation for global agricultural markets and the risks associated with the current conflict. Food and Agriculture Organization of the United Nations. URL: https://openknowledge.fao.org/server/api/core/bitstreams/3d62caef-1749-404e-8217-6ac4783a135b/content (date of access: 19.04.2024).

30. The impact of geopolitical conflicts on trade, growth, and innovation. World Trade Organization, 2022. URL: https://doi.org/10.30875/25189808-2022-9 (date of access: 19.04.2024).

31. How the war in Ukraine is reshaping world trade and investment. World Bank Blogs. URL: https://blogs.worldbank.org/en/developmenttalk/how-war-ukraine-reshaping-world-trade-and-investment (date of access: 20.04.2024).

32. Tariff | Access2Markets. Trade - European Commission. URL: https://trade.ec.europa.eu/access-to-markets/en/glossary/tariff (date of access: 20.04.2024).

33. Benefits of tariffs: protection, quotas, import impacts. StudySmarter UK. URL: https://www.studysmarter.co.uk/explanations/macroeconomics/international-economics/benefits-of-tariffs/ (date of access: 20.04.2024).

34. Berstein J. What are tariffs, and how do they affect you?. Investopedia. URL: https://www.investopedia.com/news/what-are-tariffs-and-how-do-theyaffect-you/ (date of access: 21.04.2024).

35. Trade agreements - benefits, types & global impact guide | zonos docs. Zonos. URL: https://zonos.com/docs/guides/country-guides/trade-agreements (date of access: 21.04.2024).

36. EU trade relations with Ukraine. Trade. URL: https://policy.trade.ec.europa.eu/eu-trade-relationships-country-and-region/countries-and-regions/ukraine en (date of access: 21.04.2024).

37. Congressional Research Congressional Research Service. Non-Tariff Measures (NTMs): An Overview. Independently Published, 2024 (date of access: 22.04.2024).

38. Team T. I. What is a quota?. Investopedia. URL: https://www.investopedia.com/terms/q/quota.asp (date of access: 22.04.2024).

39. Country-specific restrictions. Zoll online - Startseite. URL: https://www.zoll.de/EN/Businesses/Movement-of-

goods/Import/Restrictions/Countries/countries.html (date of access: 22.04.2024).

40. Technical barriers to trade. Trade. URL: https://policy.trade.ec.europa.eu/help-exporters-and-importers/accessing-markets/technical-barriers-trade en (date of access: 23.04.2024).

41. What is intellectual property (IP)?. WIPO - World Intellectual Property Organization. URL: https://www.wipo.int/about-ip/en/ (date of access: 23.04.2024).

42. WTO | intellectual property (TRIPS) - what are intellectual property rights?. World Trade Organization - Home page - Global trade. URL: https://www.wto.org/english/tratop\_e/trips\_e/intel1\_e.htm (date of access: 23.04.2024).

43. Insights G. Intellectual property: protecting innovation and creativity. Gray Group International. URL: https://www.graygroupintl.com/blog/intellectual-property (date of access: 24.04.2024).

44. Olsen A. How does intellectual property affect international trade?. Schmeiser, Olsen & Watts, LLP. URL: https://iplawusa.com/how-does-intellectual-property-affect-international-trade/ (date of access: 24.04.2024).

45. Navigating the complexities of international ip rights - fastercapital. FasterCapital. URL: https://fastercapital.com/topics/navigating-the-complexities-of-international-ip-rights.html (date of access: 25.04.2024).

46. The war in ukraine, agricultural trade and risks to global food security. Intereconomics. URL:

https://www.intereconomics.eu/contents/year/2022/number/3/article/the-war-in-ukraine-agricultural-trade-and-risks-to-global-food-

security.html#:~:text=Russia%20and%20Ukraine%20are%20key,fourth%20larges t%20exporter%20of%20corn. (date of access: 25.04.2024).

47. Commodity-dependent countries urged to diversify exports. UNCTAD. URL: https://unctad.org/news/commodity-dependent-countries-urged-diversifyexports (date of access: 26.04.2024).

48. Buzio J. Six trends shaping the future of the global construction industry. Marsh. URL: https://www.marsh.com/kz/en/industries/construction/insights/sixtrends-shaping-the-future-of-the-global-construction-industry.html (date of access: 26.04.2024).

49. Aerospace innovation: setting your course in ukraine's business sky. GTInvest. URL: https://good-time-invest.com/blog/aerospace-innovation-setting-your-course-in-ukraines-business-sky/ (date of access: 27.04.2024).

50. Howard M. Global Green Building Materials Market Research: Size, Share, Analysis, Trends, Opportunities, and Sustainable Growth Strategies. LinkedIn. URL: https://www.linkedin.com/pulse/global-green-building-materials-market-research-size-share-howard-gssqf (date of access: 27.04.2024).

51. Space tourism market size, share | industry analysis report. Allied Market Research. URL: https://www.alliedmarketresearch.com/space-tourism-market-A10674 (date of access: 28.04.2024). 52. How to deal with cultural differences during international expansion? · Kompass Blog. Kompass Blog. URL: https://www.solutions.kompass.com/blog/how-to-deal-with-cultural-differencesduring-international-

expansion/#:~:text=Cultural%20Intelligence%20is%20a%20vital,cultural%20com plexities%20during%20international%20expansion (date of access: 28.04.2024).

53. Niosi A. Culture explained. BCcampus Open Publishing – Open Textbooks Adapted and Created by BC Faculty. URL: https://opentextbc.ca/introconsumerbehaviour/chapter/cultureexplained/#:~:text=39%20Culture%20Explained&text=Since%20different%2 0cultures%20have%20different,customs%20of%20the%20targeted%20culture (date of access: 29.04.2024).

54. Color theory for designers, part 1: the meaning of color – smashing magazine. Smashing Magazine. URL: https://www.smashingmagazine.com/2010/01/color-theory-for-designers-part-1-the-meaning-of-color/ (date of access: 29.04.2024).

55. What to consider when expanding A business internationally | product distribution strategy. Product Distribution Strategy. URL: https://productdistributionstrategy.com/what-to-consider-when-expanding-a-business-internationally/#:~:text=a%20market%20leader.-

,Cultural%20Considerations%20for%20Global%20Business,can%20vary%20signi ficantly%20across%20cultures (date of access: 30.04.2024).

56. Nation E. Language barriers and cultural differences when selling overseas. Enterprise Nation. URL: https://www.enterprisenation.com/learn-something/language-barriers-cultural-differences-selling-

overseas/#:~:text=It%20involves%20understanding%20and%20adapting,fail%20i n%20its%20endeavours%20abroad (date of access: 30.04.2024).

57. Communication across cultures in the workplace swimming in scandinavian waters. SCIRP. URL:

https://www.scirp.org/journal/paperinformation?paperid=124317 (date of access: 01.05.2024).

58. Unlocking global potential: key cultural adaptation strategies for success | learnexus. Learnexus. URL: https://learnexus.com/cultural-adaptation-strategies/#:~:text=By%20embracing%20cultural%20adaptation%20and,flexibility ,%20and%20an%20open%20mindset (date of access: 02.05.2024).

59. Chen K. Research on the marketing strategy of coca-cola in china. Advances in economics, management and political sciences. 2023. Vol. 6, no. 1. P. 80–84. URL: https://doi.org/10.54254/2754-1169/6/20220154 (date of access: 03.05.2024).

60. Global Food Security Is Under Threat After Russia suspends Black Sea Grain Initiative. Embassy of Ukraine in Romania. URL: https://romania.mfa.gov.ua/news/global-food-security-under-threat-after-russiasuspends-black-sea-grain-initiative (date of access: 04.05.2024).

61. Coordination and digitalization as a means to accelerated and climatesmart trade facilitation. UNCTAD. URL: https://unctad.org/news/commoditydependent-countries-urged-diversify-exports (date of access: 05.05.2024).

62. Tobin J. Impact of Ukrainian port blockade on food supply to developing countries. UK Parliament. URL: https://lordslibrary.parliament.uk/impact-of-ukrainian-port-blockade-on-food-supply-to-developing-countries/ (date of access: 06.05.2024).

63. Third international seminar on trade facilitation: «trade facilitation in ukraine. the «single window – local solution» project in odessa. achievements and new challenges». Single Window. URL: http://singlewindow.org/dnevnik/36?lang=en (date of access: 07.05.2024).

64. EU trade relations with Ukraine. Trade. URL: https://policy.trade.ec.europa.eu/eu-trade-relationships-country-and-region/countries-and-regions/ukraine\_en (date of access: 08.05.2024).

65. Pressing ahead with trade openness. IMF eLibrary. URL: https://www.elibrary.imf.org/display/book/9780821378595/ch07.xml (date of access: 09.05.2024).

66. Dispute settlement in free trade agreements as a suggested alternative to WTO dispute settlement (chapter 17) - international economic dispute settlement. Cambridge Core. URL: https://www.cambridge.org/core/books/abs/international-economic-dispute-settlement/dispute-settlement-in-free-trade-agreements-as-a-suggested-alternative-to-wto-dispute-

settlement/1299FDECA27FC696CB331F6161E6FA72 (date of access: 10.05.2024).

67. The role of diplomacy and negotiations in resolving trade disputes - fastercapital. FasterCapital. URL: https://fastercapital.com/topics/the-role-of-diplomacy-and-negotiations-in-resolving-trade-

disputes.html#:~:text=Diplomatic%20channels%20and%20platforms%20provide, disputes%20with%20a%20cooperative%20mindset (date of access: 11.05.2024).

68. Ingerov I., Ermolin E., Belyakov S. Particularities of 5-component magnetotelluric soundings application for mineral exploration. ASEG extended abstracts. 2018. Vol. 2018, no. 1. P. 1–8. URL: https://doi.org/10.1071/aseg2018abt4\_1f (date of access: 12.05.2024).

69. Feingold S. Ukraine's food exports by the numbers. The World Economic Forum. URL: https://www.weforum.org/agenda/2022/07/ukraine-s-food-exports-by-the-numbers/ (date of access: 13.05.2024).

70. Импорт значительно больше экспорта: товарооборот Украины в 2023 году достиг почти 100 млрд долларов. *https://www.ucsc.org.ua*. URL: <u>https://www.ucsc.org.ua/ru/import-znachno-bilshe-eksportu-tovaroobig-ukrayiny-</u>u-2023\_roczi-syagnuv-majzhe-100-mlrd-dolariv/ (дата звернення: 03.06.2024).

71. Overview – world economic situation and prospects 2024. *United Nations*. URL: <u>https://www.un.org/sustainabledevelopment/blog/2024/01/overview-world-</u> economic-situation-and-prospects-2024/ (дата звернення: 03.06.2024). 72. BTI 2024 ukraine country report. *BTI 2024*. URL: <u>https://bti-project.org/en/reports/country-report/UKR#pos3</u> (date of access: 03.06.2024).

73. Issue 20: ukraine: reconstructing international trade. *PMCG*. URL: <u>https://pmcg-i.com/publication/issue-20-ukraine-reconstructing-international-trade/</u> (date of access: 03.06.2024).

74. Ukraine's TOP potential manufacturing sectors and opportunities for the Norwegian-Ukrainian cooperation: market analysis. *The Norwegian-Ukrainian Chamber of Commerce*. URL: <u>https://nucc.no/ukraines-top-potential-manufacturing-sectors-and-opportunities-for-the-norwegian-ukrainian-</u>cooperation-market-analysis/ (date of access: 03.06.2024).

75. Ministry of Finance of Ukraine. Ministry of finance publishes presentation of reforms matrix prepared by the government in cooperation with the world bank. *Кабінет Міністрів України*. URL: <u>https://www.kmu.gov.ua/en/news/minfin-publikuie-prezentatsiiu-matrytsi-reform-pidhotovlenu-uriadom-ukrainy-u-spivpratsi-zi-svitovym-bankom</u> (date of access: 03.06.2024).