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Socio-economic role and institutional capacity of family farms in the implementation of the sustainable development goals

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▶ Abstract. Rapid changes and dynamic fluctuations in modern social development determine the relevance of institutional transformations in the implementation of proclaimed sustainable development goals. In achieving this, the socio-economic role of effectively reaching the institutional potential of family farms increases. The purpose of the paper is to detail methodological judgments and develop parameters for determining the institutional potential and socio-economic role of family farms in the implementation of the United Nations sustainable development goals for the period up to 2030, considering national economic characteristics. In achieving the purpose, a systematic approach and theoretical (axiomatic, analysis and synthesis, analogies) and empirical research methods (comparison, expert assessments) were applied. The obtained results provide deeper methodological insights and characterisation of the socio-economic and institutional role of family farming in the national economy and sustainable development goals. Family farms play a creative role in maintaining a balance between meeting the population's needs and efficient utilisation of agricultural potential. The paper presents an original interpretation of the category "institutional potential" of family farms. Institutional potential can be defined as the capacity of institutions to maintain stability and conditions conducive to fulfilling their functions, influencing the behaviour of social actors. It also involves delineating and differentiating the socio-economic and institutional characteristics of family farming. The study also

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substantiates economic, social, and environmental factors affecting the development of family farming concerning their role in achieving sustainable development goals. The necessity of making managerial decisions at various levels to increase the level of sustainability of the agri-food system was noted. The practical value of the study is provided by methodological generalisations, consolidation of knowledge, and confirmation of theoretical conclusions about the features of the functioning of family farms in the context of proving the objectivity of their socio-economic role and the effectiveness of using institutional potential in the implementation of sustainable development principles

Keywords: entrepreneurship; sustainable development principles; food security; institutions

Introduction

The dynamism and non-linearity of contemporary world development necessitate the need for supporting institutions and regulatory mechanisms for societal progress. The role of economic systems in ensuring adequate living conditions, economic activities, and sectors that balance interests and limited resources of the national economy while preserving essential potential for future generations is increasing. Family farming plays a crucial role in achieving harmoniouseconomic, social, and ecological development.

Ensuring food security is one of the primary goals of sustainable development, and family farming can provide a local consumer base with food products, reducing reliance on imports and supplies from distant regions within the country. In addition, family farms typically engage in agricultural activities on small plots, utilising conventional methods mainly, which help conserve soil resources, biodiversity, and minimise the negative environmental impact of economic activities (Guth *et al.*, 2022).

Family farming holds the potential to address important challenges related to poverty reduction, inequality, enhancing food security, and producing food items while preserving natural resources. They contribute to local employment and economic development, reducing rural-to-urban migration, especially among the youth, and strengthening the overall resilience of rural areas and their communities. Thus, C. Umstätter *et al.* (2022) discuss the social sustainability of farms.

The special relevance of this subject is underscored by the UN Decade of Family Farming (2019). This is an important initiative that promotes the diversity of family farms to achieve all the sustainable development goals. Family farms are the main actors in achieving these goals, as they comprehensively embody all the characteristics of sustainable development institutions. The Decade of Family Farming promotes the integration of three aspects of sustainable development: stimulating economic growth, social integration, and environmental protection. It encourages the participation and partnership of stakeholders, fostering their collaboration and interest in achieving the proclaimed objectives.

However, despite their importance, family farms, as a form of agrarian entity, face numerous challenges. These challenges include a lack of financial resources (Bórawski, 2008), inadequate support from governments (Bojnec *et al.*, 2022), difficulties in accessing markets, and lower competitiveness compared to large agro-industrial companies (Dung *et al.*, 2021). Hence, it becomes vital to establish and empirically outline the institutional role of family farms as a fundamental basis for shaping their development strategies. F. Becot & S. Inwood (2020) argue that family farms critically need institutional and social support, being a decisive factor in their overall development. The rapid technological advancement and dynamic fluctuations accentuate the necessity of forming a renewed foundation for agricultural development, wherein family farms become key actors driving the development of sustainable institutions within the agricultural sector as a whole.

The purpose of the paper is to establish the socio-economic and institutional role of family farming as a conductor of initiatives, practices, and mechanisms for ensuring sustainable economic development through the achievement of the UN 2030 goals.

Literature review

In the context of wartime conditions and prospects for post-war economic recovery in Ukraine, the relevance of fully achieving the potential of peasant farms, especially family farms, has become evident. These farms play a crucial role in ensuring local food security. The value of family farms and other small-scale forms of agriculture has been recognised, and their importance has been acknowledged in studies and publications. These achievements form the foundational basis for shaping the development concept of family farms. However, there are existing challenges.

Key scientific discussions in global academia regarding the development of family farms and defining their institutional role are related to the following aspects:

Efficiency and environmental productivity. Previous empirical studies show that farm size is inversely related to productivity - the larger the farm, the lower the production per unit of land (Dung et al., 2021; Bojnec et al., 2022; Guth et al., 2022). This is due to changes in transaction costs associated with various operations on the farm. N. Vasylieva & J.Jr. Harvey (2020) highlight that when labour costs are a significant portion of production expenses, small farms can have substantial advantages over larger farming entities, such as self-control, motivation for meticulous work, and flexible management forms to adapt to unpredictable conditions and fluctuations. However, M. Zieliński (2019) indicates that low incomes in small farms do not incentivise their owners to modernise, increase the value of assets, and enhance the added value of production. The author established that the reason for this is that about 69% of managers of small farms do not have formal training for the profession of a farmer.

P. Bórawski (2008) evaluates the performance of small, medium-small, and medium-large farms, indicating their excessive liquidity, leading to a lack of investments and potential financial deterioration in the future. However, these farms have low debt ratios and limited development potential. Thus, empirical data show that there is no single economically optimal agricultural structure, so a variety of forms is the key to the sustainable development of the agricultural sector.

Social development and poverty reduction. In the works of C. Umstätter et al. (2022), Y. Gao et al. (2019), F. Becot & S. Inwood (2020), the development of family farms has been identified as a means to ensure broader participation in decision-making and political processes within rural communities. This can enhance their self-sufficiency and facilitate more effective solutions to human development and strategic planning issues. However, it is important to maintain a balance between small and large farms as both approaches can have their advantages and disadvantages depending on various factors such as market conditions, climate factors, etc. For instance, O. Yermakov & I. Kostetska (2022) compare the experiences of Ukraine and Poland and highlight the importance of creating socio-economic conditions for rural development, which requires adequate living standards for rural communities and substantial financial resources for their livelihoods.

Several provisions were analysed to improve the institutional environment for the development of farms, providing a necessary foundation for the development of programs and projects in this sector that can increase productivity, enhance product quality, and ensure sustainable farming practices.

Legal field. For example, the concept of a "farmer" is interpreted differently in two Polish laws. In the Bankruptcy Law, a farmer is considered a person who is not engaged in entrepreneurial activities, while the Restructuring Law does not provide a clear rationale for such a decision, implying that farmers use institutions similar to entrepreneurs to restore the solvency of their farms (Law of Poland..., 2015; Bankruptcy procedure in..., 2021).. According to M. Komarowska (2018), it would be beneficial to differentiate bankruptcy provisions for farmers, allowing them to declare bankruptcy after meeting certain requirements (such as maintaining accounting records and registering with the appropriate judicial register). This uncertainty is typical for some other EU countries, and Ukraine.

Thus, P. Colnago *et al.* (2021) discuss the need to address the shortcomings of sustainable development on family farms. It is proposed to implement strategies that differ between farms depending on the availability of resources and technologies, which confirms the need for a systematic perspective and individual decisions on resource management and the organisation of the agricultural system as a whole.

Different types of farms are characterised by varying levels of social integration. The social integration of farmers depends on the individual characteristics of the farm, as small farmers and part-time farmers show less social integration than full-time farmers (Schou *et al.*, 2022). It is suggested to extend social attachment to three components: community engagement, commitment to responsibility, and commitment to conventional production.

Radical digital transformations are a global trend in the development of the agri-food industry. Significant improvements in economic efficiency, rational use of natural resources, rapid exchange of up-to-date information, new markets, and economic opportunities in the context of modern climate change are possible with digital transformation (Borodina *et al.*, 2021; Lupenko, 2021).

The emergence of new and powerful digital technologies has considerably changed the way businesses produce. As proved by S. Peng *et al.* (2023), factors related to environmental innovation and investment in pollution control play an important role in shaping the link between digital transformation and pollution emissions, and the impact of digital transformation on pollution reduction. Climate change adaptation is a pillar of sustainable development that requires strategic family farming planning (Junges *et al.*, 2022).

Materials and Methods

The investigation of the socio-economic role and institutional potential of family farms in achieving sustainable development goals is multifaceted and multi-elemental. Therefore, the paper is based on a systemic approach, assuming that the studied components form a whole and are interconnected.

Contemporary social development is directly dependent on formal and informal institutions, such as norms and rules that determine the actions and behaviours of social actors. This justifies the application of institutionalism theory as the methodological foundation for the conducted study.

The definition of categories used in international research to ensure their compatibility with national concepts is based on T. Bartol's (2023) study. Specifically, the categories of "small farm" and "small-scale farm" are encountered in the research literature, and it is noted that these concepts cannot be clearly distinguished and are often used interchangeably. This paper uses the category of family farms.

The achievement of the United Nations Sustainable Development Goals for the period up to 2030 (Transforming our..., 2015) serves as a strategic reference point, wherein the agri-food sector plays a crucial role. At the tactical level of research, the UN Global Action Plan for the United Nations Decade of Family Farming 2019-2028 (2019) is considered.

Obtaining the status of a candidate for membership in the European Union Ukraine determines the expediency of investigating the European Green Deal policy (Striving to be..., 2019).

The paper uses several general theoretical research methods. Thus, an axiomatic method was applied to justify the status of the socio-economic and institutional roles of family farms in achieving sustainable development goals. Analysis and synthesis were used to determine the trends in the formation of family farms in the agricultural sector of the Ukrainian economy and the general signs of their functioning in the context of implementing the mechanism for achieving sustainable development goals. The method of analogies was used to qualify the general economic role, socio-economic and institutional effectiveness of family farms as a separate type of business entity. The paper also uses empirical research methods, such as comparison, to contrast the economic performance definitions of farms and agricultural enterprises. The generalisation method is used to summarise the main findings of this study.

Official statistical data on the socio-economic results of farmers ' activities in Ukraine and the dynamics of production of various types of goods by farms in Ukraine were utilised (Agriculture of Ukraine..., 2022). Strategic

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documents and concepts were used, and scientific developments and publications concerning family farming development were considered within the relevant priorities of the roadmap for the development of agri-food systems and rural areas.

Results and Discussion

Ukraine possesses considerable potential in family farming – a sector of agricultural entrepreneurship that has become crucial in the modern development of rural areas and in ensuring food security at the national and local levels (Peculiarities of the..., 2022). The family farming model or type of organisation in Ukraine's agricultural sector has undergone institutional evolution since the early 1990s. The emergence of the family farming movement is linked to the gradual shift from collective and state forms of farming towards a market-oriented model based on private ownership of production means, including land.

Recently, starting in 2016, family farms as a variety of smallholder family-based enterprises gained some prevalence within the institutional framework of the agricultural market and rural development in Ukraine (Peculiarities of the..., 2022). The introduction of family farms into the institutional system of the agricultural market and rural territories is driven by the need to provide organisational status to a large number of household farms and personal peasant farms, which highlights the institutional potential of family farms.

The current development of family farming and the mechanisms and factors contributing to its institutionalisation should be examined within the context of several factors: wartime conditions and post-war economic recovery perspectives in Ukraine, the implementation of measures and national policies as a candidate for European Union membership, the Sustainable Development Goals for the period until 2030 (Transforming our..., 2015), the Decade of Family Farming 2019-2028 (2019), and the policies of the European Green Deal (Striving to be..., 2019). These four segments of scientific-practical knowledge form a system of rules and norms, considering the importance of preserving the traditions of the family farming movement on the European continent while strengthening the role of family farms in ensuring food security and supporting rural development.

Family farms will have distinct roles in sustainable development when considering the social-economic aspect on the one hand and the institutional aspect on the other hand. Social-economic parameters can be seen at a tactical level, mostly related to addressing current tasks and immediate challenges. The institutional level should be considered a strategic one, which concerns the formation of institutions of sustainable development in Ukraine, posing a promising task.

The priority goal of the agricultural sector for Ukraine today is to support the farming movement in wartime and post-war recovery – with the establishment of the farmer as a stable guarantor of food security. Currently, smallholder family farms not only ensure food security but also support internally displaced people, contribute to the development of territories, etc.

Ukraine is now on the path of developing family farming as a viable and scientifically confirmed model based on private ownership, individual management, and the three main components of family entrepreneurship (Spaskyi, 2019). The organisation of family farming is based on principles of social-economic inclusivity and sustainability, derived from a theoretical and analytical assessment of their current development status, projections for effective management support, and the formulation of conceptual principles for the future development of the family farming movement.

In the context of modern development, especially in wartime situations, the mechanism of self-organisation of small farms and the institution of self-sufficiency in the food supply has become more active, reflecting national traditions in the organisation of life and farming in rural areas. One of the organising elements of this process is a simple form of cooperation, based on the formation of social capital of mutual trust without formal cooperative characteristics. From an institutional and legal perspective, "family farms can be created in the form of a legal or physical entrepreneur (at the founder's discretion). In practice, family farms are a type of farm founded and operated exclusively by members of one family; they may use the labour of only their family members, without involving hired workers" (Hubeni, 2022). It is appropriate to identify different types of family farms based on institutional and organisational-economic characteristics (Table 1).

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	Table 1. Institutional an	d organisationa	l-economic c	haracteristics	of family	farms in U	Jkraine
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Features						
Institutional	Organisational-economic					
Logal antity outhorized	Founders – private individuals					
Legal entity – authorised	Size – large and medium-sized, small enterprises					
Legal or physical person – establishment based on a	Founders – family					
declaration of creating a family farm	Size – small and microenterprises					

Source: Law of Ukraine No. 973-IV "On Farming Enterprise" (2003); Law of Ukraine No. 1067-IX "On Amendments to the Law of Ukraine "On Family Farming Regarding the Stimulation of the Creation and Operation of Family Farms" (2016)

The formalisation of the status of a peasant farm means obtaining the corresponding organisational form, which is institutionally regulated according to the legislation. Firstly, status – a legal or physical person defined by family farms, and other small forms, belong to the 4th group of unified taxpayers under the simplified system. Secondly, the form of organisational activity includes personal peasant farms, family farms, and farm households.

Institutionally, a farmer is an owner, and a farm is a form of implementing one's economic and entrepreneurial skills in the market mechanism to achieve socio-economic benefits, including obtaining entrepreneurial

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profit. The acquisition of the status of a farmer, as a subject of entrepreneurial activity in the form of a farm (legal entity or individual entrepreneur), is based on ensuring compliance with legislatively defined criteria, which include the employment of household members, specifics of engaging hired labour, the area of agricultural land, and the size of the income earned (Lupenko, 2021).

A family farmer is the owner of their economic activity and the head of entrepreneurial concepts through personal work and cooperation with members of their own family. However, small farm owners are increasingly under pressure due to the transformation taking place in the global food system and supply chains. Large processors, wholesalers, and supermarket chains are increasing their purchasing power concentration, using strict standards, both public and private, and seeking greater vertical integration. This leads to more difficult conditions of competition and pressure on small farmers. To ensure the viability of small-scale farming, innovation, and protection from biased competition in the market and its unfavourable conditions are necessary.

The agri-food business plays an active role in the implementation of the concept of sustainable development, as the projected outcome to be achieved through progress within the UN's Sustainable Development Goals for the period up to 2030 (Transforming our..., 2015) includes the expansion of capabilities to overcome hunger, which directly relates to family farmers. This issue is not new, as approaches to its resolution have evolved throughout human history, as the modern economy of human livelihood requires sustainable development across all areas of economic activity. Agricultural activity correlates with the development of rural areas. However, the problem of hunger is becoming more and more acute due to the increase in the population on Earth, urbanisation of territories, manmade problems, and depletion of resources. Economical use of agricultural resources is one of the main global priorities for sustainable development. However, there are certain challenges and obstacles to farm development, such as high initial investment costs and instability in the agri-food market. Therefore, to ensure the sustainable development of agriculture, favourable conditions for the development of farming are needed, such as state support and the creation of favourable conditions for interaction between farmers and other market players.

In the world practice of small agricultural business development, family farms are active, systematic guides to the practices of ensuring food supply to the population and sustainable development of rural areas. However, family farms are organisationally, economically, and institutionally limited in their development prospects. This is a simple system for organising business processes, which does not always positively correlate with their sustainability. The form of complication the investigated system can be cooperation as a way of organising agriculture.

As noted by T. (Ch.) Gong *et al.* (2019), R. Rudnicki *et al.* (2023), and family farms that are not members of cooperatives demonstrate the lowest technical efficiency and the largest gap between observed and potential production. The authors suggest that membership in a cooperative may allow farmers to learn more advanced technologies and take advantage of methods to increase productivity.

To enable small peasant farms to rise from the local or regional level to the national and global levels, state support and the creation of conditions for cooperative development are necessary. In Ukraine, this aspect of the problem is addressed in a fragmented manner, stemming from the nature of social capital regarding the organisation of economic interactions in rural areas Peasants lack the motivation to join formalised economic coalitions, including cooperatives (Shpykuliak & Bilokinna, 2019), not only in the agricultural sector.

It is essential to emphasise that stimulating employment through support for the development of peasant farms, such as forming family farms and their integration into cooperatives, should become a priority. Such a range of events will gradually address many problems of wartime and provide an impulse for post-war recovery in rural areas. There are also prospects for the development of family farms with Ukraine acquiring the status of a candidate member of the European Union. Expected areas for the development of the investigated subjects in the agricultural economy can be outlined based on a scenario approach (Gaviglio *et al.*, 2019; Lopatynskyi *et al.*, 2021).

A retrospective analysis of the development of family farming in Ukraine indicates certain inconsistencies in the role and value of these farms compared to the global tradition. Family farms have their roots in peasant yards and households that have played and continue to play a role in self-sufficiency in food production.

Amid wartime conditions and considering the prospects of post-war recovery in Ukraine, including rural areas, the institutional and organizational-economic roles of family farms, among others, have changed. This type of farming increasingly becomes a driver in ensuring economic prosperity in rural areas and the welfare of citizens, families, and farmers. The importance of farms in the development of the agricultural sector is considered below (Table 2).

Table 2. Structural assessments of socio-economic performance of farms in Ukraine

Year						
2015	2016	2017	2018	2019	2020	2021
71.2	70.6	74.9	73.1	79.1	65.6	90.2
11.9	12.2	12.5	14.1	14.2	13.8	13.2
13.6	13.8	14.3	15.2	15.3	16.6	18.6
3.3	3.4	3.4	2.9	3.0	2.7	2.6
7.9	8.7	8.7	10.9	11.6	10.7	12.7
10.4	11.2	11.3	13.3	14.1	13.2	14.9
1.9	2.0	2.0	2.1	2.3	2.5	2.9
	71.2 11.9 13.6 3.3 7.9 10.4	71.2 70.6 11.9 12.2 13.6 13.8 3.3 3.4 7.9 8.7 10.4 11.2	71.2 70.6 74.9 11.9 12.2 12.5 13.6 13.8 14.3 3.3 3.4 3.4 7.9 8.7 8.7 10.4 11.2 11.3	201520162017201871.270.674.973.111.912.212.514.113.613.814.315.23.33.43.42.97.98.78.710.910.411.211.313.3	2015201620172018201971.270.674.973.179.111.912.212.514.114.213.613.814.315.215.33.33.43.42.93.07.98.78.710.911.610.411.211.313.314.1	20152016201720182019202071.270.674.973.179.165.611.912.212.514.114.213.813.613.814.315.215.316.63.33.43.42.93.02.77.98.78.710.911.610.710.411.211.313.314.113.2

Source: (Agriculture of Ukraine..., 2022)

According to statistics, farms occupy a considerable share in the performance of agricultural enterprises in Ukraine. In particular, they account for a significant share of agricultural production and provide jobs for the local population. Notably, family farms often specialise in cultivating niche crops, allowing them to diversify production and ensure high-quality products. The production structure of family farms can change depending on shifts in market conditions and demand for different types of products (Fig. 1). Therefore, to ensure the sustainable development of a family farm, it is essential to have a flexible production strategy that enables adaptation to changing market conditions and demand for various products.

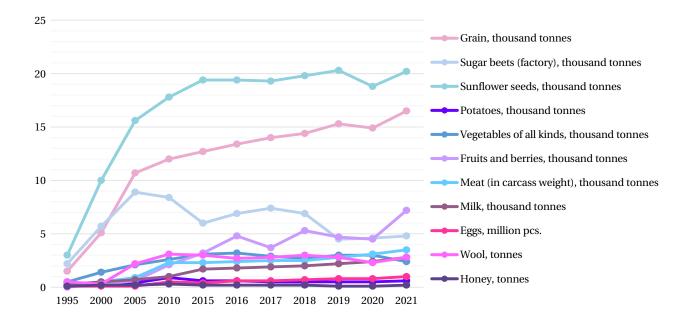


Figure 1. Dynamics of production of various types of goods by farms in Ukraine **Source:** (Agriculture of Ukraine..., 2022)

The analysis of the production structure dynamics of farms in Ukraine from 1995 to 2021 reveals that they engage in the production of a wide range of products, including sunflower seeds, cereals, vegetables, fruits, milk, and meat. The dynamics of increasing production of sunflower seeds, grain, fruits, and berries show a clear dependence on general trends in the agricultural market. However, there are also regional features and imbalances in the development of certain types of products, depending on climatic and geographical conditions, and several institutional factors. In the world practice of small agricultural business development, family farms are active systematic guides to the practices of guaranteeing food supply, employment, and sustainable rural development. According to the definition of the UN institutions, particularly the Food and Agriculture Organization of the United Nations (FAO), family farming should play a central role in their focus on expanding support to achieve the Sustainable Development Goals by 2030 (Transforming our..., 2015). The Global Initiative for the Decade of Family Farming 2019-2028 (2019) is constructively integrated into the mechanism for implementing actions to achieve the Sustainable Development Goals by 2030. In the context of functions inherent to family farms, they possess the institutional capability to purposefully implement sustainability initiatives in rural areas. Compared to other forms of farming, family farmers act exclusively and creatively.

They demonstrate the current institutional and organisational-economic capacity "to provide innovative solutions to social, ecological, and economic challenges, such as preserving biodiversity, landscapes, cultural heritage, and local traditions of producing nutritious and cultural food" (United Nations Decade..., 2019). It is worth noting that family farms, in addition to the economic mission, perform a social one, especially this aspect is manifested in Ukraine in modern conditions, wartime conditions. For small-scale farming, priority tasks include ensuring food security for the farmer, their family, and the local community, beyond solely pursuing profit. The economic aspect has somewhat receded, while the social mission of these farms lies in their abilities to implement practices that support employment, foster territorial development, and offer opportunities to generate income through entrepreneurial activities.

Therefore, family farms contribute to sustainability and inclusivity in the economic, ecological, and social spheres of rural development. Thus, they serve as a starting point, a factor in promoting food availability and preserving rural resources for future generations through a balanced alignment of benefits and costs. Therefore, the socio-economic role and institutional value of farms should be justified by the following components of sustainable development (Fig. 2).

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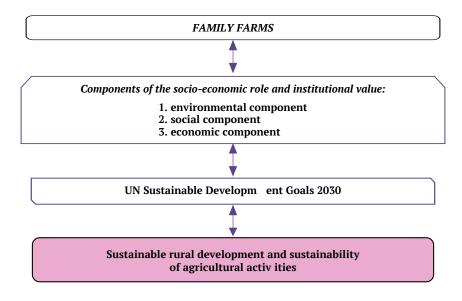


Figure 2. Concept of a scheme for structuring the components of the socio-economic role and institutional importance of family farms in the implementation of the sustainable development goals Source: compiled based on the analysis of literary sources and generalisations of authors

1. Environmental component. Family farms are of great institutional importance for maintaining environmentally sustainable agroecosystems in the long term. According to the concept of similarity to nature, an agricultural system is environmentally sustainable if it protects natural resources such as biodiversity, water, soil, and air quality provided by the ecosystem. With this in mind, family farms can play a key role in conserving these resources, as they often focus on following traditional farming practices that promote biodiversity conservation and ensure soil and water quality. In addition, family farmers usually have a greater interest in preserving natural resources, as they depend on them, they use them for their lives and work, which contributes to the formation of sustainable environmental practices and the maintenance of the natural environment. Thus, family farms can play a crucial role in ensuring sustainable agricultural development and maintaining environmentally sustainable agroecosystems.

2. Social component. In recent years, more attention has been paid to the institutional importance of family farms, in particular their role in preserving the social heritage of territories, cultures, and traditions. However, less attention is paid to assessing the role of family farms in social sustainability compared to environmental and economic sustainability. This may be because the perception of social issues is heterogeneous and causes a lack of conceptual clarity, and depends on the local context and socio-political influences. Family farms can play a key role in maintaining the social sustainability of territories by ensuring the development of local economic structures and promoting employment in rural areas. The multifunctional role played by agriculture makes it necessary to restore the role of family farms in local economic structures and develop small farms to ensure the social sustainability of territories.

3. Economic component. The relationship between consumers and farmers who maintain short supply chains is based on mutual trust provided by direct contact be-

tween them. This strengthens links between agriculture and local communities, which can have a positive impact on the sustainability of rural development. Moreover, short supply chains reduce the number of intermediate links in the food supply system and losses in the transportation and storage of products, which contributes to more sustainable economic development and ecosystem sustainability.

The multi-functional nature of the farm is another factor that affects its resilience to economic instability and reveals its importance in achieving the economic goals of sustainable development. According to this concept, the importance of family farms is enhanced through the development of diversification in their activities, particularly the production of non-agricultural products and services such as agritourism, food establishments, boarding houses, and educational farms. This establishes appropriate parameters for evaluating their multi-functionality.

Therefore, it is crucial to recognise the substantial social-economic role and value of various types of family farming, organisational-legal forms, and characteristics, including their sizes, in increasing employment rates, ensuring food security, and achieving sustainable development goals in Ukraine. However, the application and assessment of the category "institutional potential" are not straightforward. The application of the theory of institutionalism requires the establishment of an institutional framework in research. Hence, it is proposed to define the concept of "institutional potential" of family farms, which should be considered as one of the research outcomes.

As M.R. Bhagavan & I. Virgin (2004) note, although the institutional potential is often mentioned in the context of development and is well understood in general terms, it can be challenging to define precisely and measure with specific terms and methods. In addition, institutional capacity has two dimensions: internal organisational features and external institutional context (Sukumar, 2001).

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From the perspective of new economic theory, in a methodological aspect, institutional potential can be viewed as opportunities and resources related to organisation and achieved through a set of rules, norms, values, procedures, and structures that shape the behaviour of the agents and determine their properties. The institutional potential may depend on the institutional culture, customs, and practices that are formed based on social interactions, social norms, and influence the participants of the organisation. Furthermore, it is determined through the level of trust in the institution and the level of its legitimacy in the eyes of society and the public. These factors can affect an organisation's performance and ability to innovate, develop, and adapt to changing environments. This may involve the presence of monitoring and evaluation systems, the ability to address issues promptly and effectively, and the capacity for collaboration with other institutions and stakeholders.

In the applied context, the institutional potential of family farms is defined as a set of institutional capabilities of an economic structure. They are acquired within the organisational-legal framework, following the fundamental principles of economic, social, and political participation of the subject in the practices of achieving specific goals (including sustainable development). It is also related to ensuring competitiveness in the market through appropriate social capital.

As for the assessment of the level of institutional potential, there is no unambiguity. For instance, P.E. Prasetyo *et al.* (2022) state that there is a need to remove institutional barriers to enhance the efficiency and productivity of socio-cultural-economic systems. The development of institutional potential falls under the theory of resource dependence, which is relevant for Ukrainian family farms. Investment in high-quality human capital and the development of the latest technologies are important for institutional potential.

Addressing the problematic issues of developing the institutional potential of family farms is challenging. In their discussion, N. Chandran (2020) notes that the free market development model with limited government has become an ecological and social catastrophe for developing countries. They state that sustainable and equitable development is only possible with the active participation of a strong central government capable of managing the economy, protecting the environment, and prioritising the basic needs of its people. On the other hand, A. Cid & A.M. Lerner (2023) emphasise the crucial role of the local level, as local self-government bodies are key participants in climate change adaptation and are responsible for conveying risk information to vulnerable population groups and can scale up grassroots initiatives in adaptation planning. The authors also add self-development and self-organisation of the institutional potential of family farms to the key participants.

In the applied aspect, the effective implementation of the institutional potential of family farms is important. An alternative approach is sustainable intensification, which refers to increasing resource productivity in the agricultural sector without harming the natural environment. In the context of the EU, J. Staniszewski *et al.* (2023) note that sustainable intensification, taking into account the dynamic perspective, regional structural features, and social dimension of sustainability, has not yet occurred. This increases the institutional role of farms, and Ukraine is no exception. Although alternative assessments in Ukraine show powerful development of holding-type agrarian enterprises, it has not been thoroughly studied.

The obtained results indicate the necessity of increasing the effectiveness and efficiency of management decisions at various levels, considering endogenous conditions, exogenous factors, and the institutional potential of the country, specific regions, territorial units, and family farms concerning the components of sustainable development. Therefore, the implementation of proposed measures approaches, and mechanisms to ensure sustainable development for achieving UN 2030 goals through economic, social, and environmental components is considered pivotal.

Conclusions

Family farms play a crucial role in achieving sustainable development goals, which will help ensure economic and social growth in rural areas, reduce poverty and inequality, guarantee food security, and preserve natural resources, contributing to sustainable development both at the national and global levels. However, for family farms to reach their potential, they require proper support from the government and international organisations, and the development of relevant infrastructure, including access to markets and financial resources. Ukraine has considerable potential in family farming, an agricultural entrepreneurial sector that has become increasingly important in modern rural development and the formation of food security guarantees at the national and local levels. To enhance the role of family farms in promoting sustainable rural development, several measures are needed: the establishment of new institutional support structures, government and regional programmes supporting specific production types, and the organisation of infrastructure for the storage and processing of agricultural products, etc.

The scientific originality is determined by the deepening of methodological assessments and the development of elements for defining the institutional potential and the socio-economic role of family farms in achieving the UN Sustainable Development Goals for the period up to 2030, considering national features of economic activities.

The examination of the prospects for the development of family farms in the context of the European Green Deal policy represents a task for further research in this area. Family farms, considering that agricultural production has always been and will remain a foundation for national well-being, play a substantial role in shaping the "green" economy and will be influenced by the "green" course. The "greening" of the economic activities of family farmers makes sense and holds value in achieving the principles of sustainable development, as this type of economic entity globally determines food security and trends in territorial development.

The details and elements required for ensuring the sustainability of family farms in the country serve as a means to promote the synergistic effect of correlating institutional transformation and the green course, aiming at achieving balanced development: economic growth, environmental preservation, and favourable social progress. Gradual approaches (iterations) will be implemented through small steps, starting from individual initiatives, family farms, and extending to the national economic system, following an institutionally driven backward motion.

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Соціально-економічна роль та інституційний потенціал сімейних фермерських господарств у реалізації цілей сталого розвитку

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Анотація. Стрімкі зміни та динамічні флуктуації сучасного суспільного розвитку зумовлюють актуальність інституційних трансформацій у реалізації проголошених цілей сталого розвитку. У досягненні цього зростає соціально-економічна роль ефективної реалізації інституційного потенціалу сімейних фермерських господарств. Мета статті полягала у деталізації методологічних суджень і розробці параметрів визначення інституційного потенціалу та соціально-економічної ролі сімейних фермерських господарств у реалізації Цілей сталого розвитку Організації Об'єднаних Націй на період до 2030 року з урахуванням національних особливостей господарювання. У процесі розкриття проблеми застосовано системний підхід і загальнонаукові теоретичні (аксіоматичний, аналізу і синтезу, аналогій) та загальнонаукові емпіричні методи дослідження (порівняння, експертних оцінок). Отримані результати полягають у поглибленні методичних оцінок і елементів визначення теоретико-методологічних характеристик соціально-економічної й інституційної ролі сімейних фермерських господарств у національній економіці та у реалізації Цілей сталого розвитку. Фермерські господарства сімейного типу є креативними у забезпеченні балансу в задоволенні потреб населення й ощадливому використанні потенціалу сільського господарства. Подано авторське трактування категорії «інституційний потенціал» сімейних фермерських господарств. Інституційний потенціал може визначатися: як спроможність інституцій до стабільності та збереження умов, що забезпечують реалізацію їх функцій, які формують поведінку соціальних акторів; полягати у окресленні та розмежуванні соціально-економічні та інституційні характеристики сімейних фермерських господарств. Обґрунтовані економічні, соціальні та екологічні фактори розвитку сімейних фермерських господарств у контексті їхньої ролі у реалізації Цілей сталого розвитку. Зазначена необхідність прийняття управлінських рішень різних рівнів з метою підвищення рівня сталості розвитку агропродовольчої системи. Практичну цінність досліджень становлять методологічні узагальнення, закріплення знань і підтвердження теоретичних висновків про особливості функціонування сімейних фермерських господарств у контексті доведення об'єктивності їх соціально-економічної ролі та ефективності використання інституційного потенціалу у реалізації засад сталого розвитку

Ключові слова: підприємництво; засади сталого розвитку; продовольче забезпечення; інституції

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Foreign trade in agri-food products between Ukraine and the United Kingdom of Great Britain

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> Abstract. Among the most important regional allies of Ukraine, it is worth highlighting the United Kingdom, which first as an EU member state, and then, from 2021, independently, within the framework of a bilateral agreement, contributes in every possible way to the development of free trade, in particular, agricultural, between the two countries. This is evidenced by the constantly growing volumes of exports and imports of agricultural raw materials and food products for Ukraine and the United Kingdom until 2022. The purpose of the study is to examine the dynamics of foreign trade in agricultural and food products between Ukraine and the United Kingdom, including the relationship between the development of mutual trade and the liberalisation of its conditions. Generalisation, analysis, and synthesis, comprehensive assessment, historical, graphic, and tabular methods were used. The general socio-economic characteristics of the UK are given, considering its withdrawal from the European Union and focusing on the current state of trade in agri-food products on the international market. The quantitative and cost indicators of foreign trade in agri-food products between Ukraine and the United Kingdom of Great Britain and Northern Ireland since 2012 are analysed, the characteristic features of the commodity structure of export sales and import purchases of Ukraine are considered, including in 2022, the prospects for agricultural trade between the parties in the near future are assessed, in particular, areas for deepening foreign economic cooperation between Ukraine and the United Kingdom are proposed, and groups of products that will remain a priority even in war conditions, considering the needs of internal food markets of both countries are identified. The provisions of the study are aimed at providing information on the possibilities of developing trade in agricultural and food products with the UK for Ukrainian food sector enterprises and public authorities that ensure foreign policy and international cooperation

Keywords: international cooperation; food; important partner; liberalisation; development; transformation

Introduction

For Ukraine, even in the context of a constant increase in food exports, its diversification in terms of product range and geographical coverage was relevant. Therefore, any initiatives under agreements on the creation of free trade zones have always been perceived as another step towards expanding foreign sales markets and facilitating access to them for Ukrainian enterprises. The full-scale Russian military aggression has put the country's agri-food sector in front of unprecedented challenges that have seriously changed the conditions for the functioning of internal and foreign markets for agricultural products. Moreover, the negative consequences of war are felt at all stages of the product cycle - from production to sales to end users. Against this background, financial and economic assistance from European partners greatly facilitates the passage of such a difficult period.

The United Kingdom is one of the most economically developed countries in Europe. In addition, it is a large-capacity consumer market with a high purchasing power of the population, which in general has more than 67 million people (Statistical Yearbook, 2022). The United Kingdom is also one of the key players in the pan – European food market in all fundamental parameters-production, consumption, and international trade (Agricultural Outlook 2022-2031, 2022). For their own needs, the country's agricultural sector and processing industry provide more than half of the current consumption volume (Agriculture in the..., 2022; Mayho *et al.*, 2023). On

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the other hand, this country has a negative balance of foreign agricultural trade, according to the latest available data in 2021, its exports of agri-food products amounted to 27 billion USD while imports reached 62 billion USD (Crops and livestock..., 2023). Thus, food imports have a substantial impact on the UK internal market. In this context, it is important to examine the export opportunities of Ukrainian agri-food exports through the identification of products that are in demand among British consumers, but the volume of its sales by Ukrainian enterprises to the United Kingdom is still insufficient.

The specific features of the functioning of the international market of agricultural products at the present stage are highlighted in monographic publications of Ukrainian agricultural researchers, in particular, Yu. Lupenko *et al.* (2015), with a focus on their scale on the global and regional scales. General characteristics of Ukraine's foreign trade in agri-food products, including its individual types, are given in the study by Ya. Hadzalo & Yu. Luzan (2021), also highlighted the urgent need to improve the state industry policy.

K. Makarchuk & M. Shuba (2020) in their publication reviewed trade in all goods and services between the parties, highlighting the special prospects for Ukraine's agrifood exports even after the UK leaves the European Union. M. Ellington *et al.* (2022) explore the economic implications for the United Kingdom no longer an EU member and the uncertainties that have emerged since the coronavirus pandemic, using two different mathematical models. R. Vriezen *et al.* (2022) develop the reasons and benefits of a new trend in the UK market, which is the desire of local consumers to pay extra for the ability to track a specific product.

However, on the other hand, in this context (the United Kingdom..., 2023) discusses the actual increase in food prices in the country, which forces buyers to resort to austerity, although, in the healthy food segments and some others, the potential for import supplies remains inexhaustible. Therewith, the detail of the commodity structure of Ukrainian exports and British imports requires additional coverage, which determines the relevance of this study.

The purpose of the study is to determine the priorities for the development of trade in agri-food products between Ukraine and the United Kingdom during the war period and after its end.

A comprehensive study of agricultural exports and imports of Ukraine should consider the trends of 2021 inclusive and new aspects of trade, starting from 2022. to assess the future potential of bilateral cooperation, the current features of the food markets of Ukraine and the United Kingdom, which are discussed in this publication, are of key importance.

Materials and Methods

In the course of investigating the foreign trade in agri-food products between Ukraine and the United Kingdom, a set of appropriate methods was used. In particular, the generalisation method is used to characterise the UK's foreign trade in food, including its commodity and geographical structure, and the dependence of the internal market on import supplies. Methods of analysis and synthesis were used to comprehensively cover the indicators of foreign trade between the two countries. The method of complex estimation was used to compare key parameters of mutual food trade in 2022 and previous periods. The historical method is used to describe the internal European processes that preceded the UK's exit from the European Union and its signing of a free trade agreement with Ukraine and other states of the continent. The forecasting method is implemented for proposals and assumptions regarding the development of exports and imports of agri-food products of Ukraine with the United Kingdom in the short term. The graphical and tabular methods are practically implemented to optimise and visually display digital research results.

The general structure of the study includes three main stages, outlined sequentially. The 1st stage is a description of the economic state of Great Britain and its foreign trade in agricultural products, that is, a description of the general socio-economic situation in the country, highlighting the balance between agricultural exports and imports, focusing on product groups, the cost of purchases abroad is the highest. The 2nd stage is an analysis of trade in agrifood products between Ukraine and the United Kingdom in recent years, namely, the presentation of final cost indicators, a study of the commodity structure of exports and imports, highlighting the main changes that occurred in 2022 under the influence of the war and its accompanying consequences for both states. The 3rd stage is an assessment of further prospects for cooperation in the agri-food sector, including systematic interpretation of available statistical data, analytical information and operational monitoring of the international market of agricultural products and the food industry. The analysis was conducted to predict the development of mutual sectoral trade between the parties, optimise its structure, minimise the associated negative impact of war, and achieve the economic interests of all market participants.

The information base of this scientific research was publications of Ukrainian and foreign experts, data from the state statistics service of Ukraine, the state customs service of Ukraine, thematic materials of the Food and Agriculture Organisation of the United Nations (FAO), the International Trade Centre (ITC), studies of the analytical and statistical nature of the Foreign Service of the US Department of Agriculture (USDA), author's developments, generalisations, conclusions, and assessments.

Results and Discussion

The UK's agricultural trade did not have a synchronous development. If exports for the period of 2015-2021 remained at a stable level of 2 26-27 billion USD, food imports by this country, in general, increased from 57 billion USD in 2015 up to 62 billion USD according to 2021 data (Crops and livestock..., 2023). It is necessary to consider the fact that the United Kingdom is conventionally included in the list of the ten largest food-importing countries. In 2021, the United Kingdom ranked seventh in it, located between Japan (agricultural imports worth about 63 billion USD) and Italy (49 billion USD).

Among the types of agri-food products purchased abroad, this country spends the most money on beverages, fruit and berry products, meat and offal, finished grain products, and vegetables. According to the results of 2021, these product groups accounted for approximately 47% of the total value of UK agricultural imports (Table 1). Therewith, with some exceptions, the main trading partners and suppliers of food for it are the EU countries (List of supplying..., 2023).

		0 1	
Product group	2019	2020	2021
Beverages	8	8	9
Fruits and berries	6	6	6
Meat products	5	5	5
Finished grain products	5	5	5
Vegetables	4	4	4

Table 1. Commodity structure of imports of agri-food productsby the UK in 2019-2021 (main groups), billion USD

Source: compiled by the author based on (List of supplying..., 2023)

In the context of the United Kingdom's foreign trade prospects, its withdrawal from the European Union was important, which was scheduled to take place on January 31, 2020, according to the results of a referendum held back in 2016. After that, from February 1 to December 31, 2020, the transition period lasted, during which the UK remained in the common customs and trade space with the EU (Britain and Turkey ..., 2020). By mutual agreement of the parties, it could be extended for another 1-2 years. For Ukraine in this case, the key point was the functioning of the free trade zone, because the UK withdrew from all the agreements that were concluded on behalf of the European Union during its membership in it, that is, the Association Agreement no longer applied to it. Thus, before the end of the transition period, the British had to negotiate new trade agreements with the European Union, the United States, and several other countries. As a result of rather complex and lengthy negotiations, a Free Trade Agreement between the UK and the EU was signed at the end of 2020 (Britain and Turkey..., 2020). Until the end of 2020, the preliminary conditions for foreign trade between Ukraine and the United Kingdom were still in effect. However, then in October, the parties signed an agreement on political cooperation, free trade, and partnership, which was ratified by the Verkhovna Rada in December. On January 1, 2021, the Free Trade Agreement between Ukraine and the United Kingdom entered into force. According to the conditions set out in it, 98% of products from Ukraine have free access to the British market, and another 2% of commodity items were to be liberalised from 2023 (The Free Trade..., 2021).

However, a full-scale war affected the overall situation, and at the end of April 2022, the UK became the first country to abolish duties and quotas on all goods imported from Ukraine (Great Britain cancelled..., 2022). Since May 4, 2022, both countries have fixed the abolition of import duties and tariff quotas in mutual trade by signing a corresponding agreement. It will be valid for 12 months but can be extended by agreement. According to the latest available information, the British government has extended temporary liberalisation measures for Ukraine until the beginning of 2024 (Ukraine and Great Britain..., 2022). In general, there is a situation where the two countries, starting in 2020, are undergoing a constant process of transformation both about each other and about the fundamental foundations of the functioning of their economy. It is substantial that in Ukraine and the UK, transformation measures were caused not only by planned but also by forced reasons (the COVID-19 pandemic, and Russian military aggression). Judging by the fact that at the beginning of 2023, socio-political circumstances in the world and Europe are unstable, affecting the economic environment, the transition period for Ukrainians and the British may well drag on for a long time (Dalampira & Nastis, 2020).

The UK's exit from the European Union was perceived sceptically by many experts, but even despite the impact of the coronavirus pandemic and the global consequences of the war in Ukraine the British economy turned out to be more stable and strong than expected (Yurchyshyn, 2022; Ellington *et al.*, 2022; UK economy rebounds..., 2023).

The dynamics of trade in agri-food products between Ukraine and the UK up to and including 2021, against the background of general growth, there were declines in exports and imports in 2014-2016, caused by many negative events that led, among other things, to internal socio-economic instability in Ukraine, which also worsened the situation with agricultural trade in general during this period. Since 2017, Ukraine's agricultural trade with the United Kingdom has grown, and in 2021, the highest export (566 million USD) and import (147 million USD) figures were achieved. However, in 2022, under the influence of the war, mutual trade between the parties decreased by 54%, especially noticeable was the decline in Ukrainian exports (Fig. 1).

Thus, the beginning of the functioning of the Free Trade Zone between the parties in 2021 was an impetus for accelerating the growth rate of mutual food trade, but how long this effect would last in the longer term, now, due to Russian military aggression, it is difficult to answer. Therewith, there were no changes in the commodity structure of exports and imports for Ukraine, only their volumes increased. In any case, the existing conditions of liberalisation allow expecting the maintenance of well-established ties between Ukrainian and British partner companies, and export and import indicators at the level of 2022, which are acceptable in the context of retrospective dynamics.

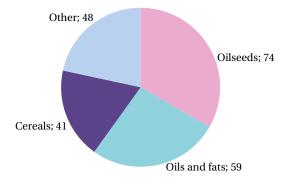
In 2021, the basis of agri-food exports from Ukraine to the UK were oils and fats (namely, sunflower oil), seeds and fruits of oilseeds (mainly rapeseed), and cereals (mainly corn), which formed 86% of its value. Additionally, the export of other products, in particular, confectionery products made from sugar, sunflower cake, and pasta is also notable. In 2021, alcoholic and non-alcoholic beverages were imported from the United Kingdom to Ukraine (ethyl alcohol less than 80% vol.), fish and crustaceans (frozen fish), and various food products, the total share of

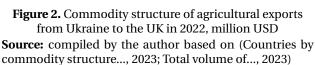
which was 88% in its value (Total volume of..., 2023; Countries by commodity structure..., 2023).



Figure 1. Trade in agri-food products between Ukraine and the United Kingdom, million USD **Source:** compiled by the author based on (Countries by commodity structure..., 2023; Total volume of..., 2023)

In 2022, the commodity structure of export supplies from Ukraine to the UK, in general, did not change: oilseeds, oils, and cereals together provided 78% of revenues for their companies. In addition, sales of food industry





For Ukraine, food trade with representatives of the British Isles plays an extremely important, though not decisive, role in the global context (Makarchuk & Shuba, 2020). In the general list of the largest buyers of Ukrainian agricultural products in 2022, the United Kingdom was outside the top twenty. Therewith, in the rating of the main suppliers of agricultural and food industry products to Ukraine, Great Britain took a position in the middle of the second ten, in fact, the fourteenth. In 2021, the positions of the United Kingdom in the corresponding table of ranks were largely similar: in exports – 14th place, in imports – 15th place (Countries by commodity structure..., 2023; Total volume of..., 2023).

residues and waste and meat products were also substantial (Fig. 2). The basis of imports in 2022 was again beverages, fish and seafood, and various food products, which in total accounted for almost 90 % (Fig. 3).

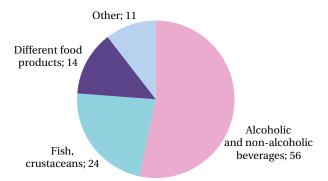


Figure 3. Commodity structure of agricultural products imported to Ukraine from the UK in 2022, million USD **Source:** compiled by the author based on (Countries by commodity structure..., 2023; Total volume of..., 2023)

An integrated approach is crucial for the development of foreign trade between the two countries, including food (Hadzalo & Luzan, 2021). That is, for export, it is necessary to compare the corresponding potential of Ukraine, the objective needs of the UK in imports, current consumer trends in this country, and the purchasing power of the population (Lupenko *et al.*, 2015). This list of parameters will already determine the characteristics of the food market of Ukraine and the export capabilities of specialised enterprises in the United Kingdom to assess possible imports (Hrubá *et al.*, 2021).

In particular, the UK internal food market is currently undergoing substantial changes. In 2023, there are crisis

phenomena in consumer spending, which are the expected global consequences of the COVID-19 pandemic (Ahn & Steinbach, 2021) in the country's food sector, forming a key problem (the United Kingdom..., 2023). The rate of price growth is the fastest in the last 30 years, and the reasons for this are the war in Ukraine, certain shortcomings in supply chains, and an increase in the cost of energy carriers. According to the observations of the British Retail Consortium, food inflation reached its highest level in 45 years, exceeding 12%. To understand the capacity of the UK's internal food market, local experts cite a figure of 260 billion USD as of 2021 (Inflation in Britain, 2022). As expected, based on the current situation, discount supermarkets will become the growing trading channel in 2023, attracting those consumers who are trying to save money on food. Instead, the UK's public facilities (cafes, restaurants, etc.) will experience a decline in demand as consumers eat less outside the home without buying premium food in stores. Therewith, the British food market continues to provide ample opportunities for deliveries from outside the country in the segment of products that are focused on specific consumers, for example, healthy food, wines, sauces, fruits, nuts, and juices (United Kingdom..., 2023).

Another trend that is also becoming global in the UK market is the growing interest in traceability, that is, people want to have more information at all stages of the movement of goods - from the manufacturer to the consumer, including intermediate links for storage, refinement, and processing of products, delivery, and its environmental friendliness, avoiding the use of prohibited substances and genetically modified organisms, etc. (Aldrighetti et al., 2021). Tracking is becoming all the more important as an effective tool for confirming food safety and optimising logistics processes. Implementing, using, and maintaining the proper functioning of such multi-purpose monitoring systems requires certain additional costs. Therefore, manufacturers, intermediaries, retailers, or suppliers try to understand the effectiveness of these innovations through the willingness of consumers to pay specifically for tracked products (Vriezen et al., 2022).

Given the current commodity structure of Ukraine's exports to the UK and the key groups of agri-food imports of this country, poultry meat should be considered potentially the most realistic position for increasing sales, because so far Ukraine occupies within 1% of British external purchases (Kryvenko, 2022; Crops and livestock..., 2023). According to 2021-2022 data on grain and oilseeds, Ukraine is one of the main suppliers for the UK, while simultaneously taking first place in the geographical structure of its imports of sunflower oil. As for the prospects for imports to Ukraine from the United Kingdom, it is almost impossible to replace the existing structure with the predominance of branded strong alcohol and frozen fish since there is still a strong dependence on their supplies from abroad, and Ukraine's supply of these products is now practically absent (Crops and livestock..., 2023).

In a full-scale war, any forecasts are characterised by a low probability, especially for the medium and long term, so it is more appropriate to consider the period of the next 1-2 years for estimates for the future (Lupenko *et al.*, 2015; Hadzalo & Luzan, 2021). Although even in this case, the situation can change dramatically, respectively affecting the final indicators of food exports and imports. If export opportunities remain relatively stable, that is, at least those that developed in the second half of 2022, sales of Ukrainian agricultural products to the UK in 2023-2024 are quite capable of gradually (by 5-10% per year) growing, but they will not recover to the maximum level of 2021. Imports are somewhat more difficult, as they will directly depend on the deteriorating purchasing power of the population and the stability of the hryvnia. Most likely, food imports from British countries in the short term will remain in the range of 100 million USD for a year, with slight fluctuations in market conditions in Ukraine and abroad. In this aspect, the situation with food prices is indicative: although recent price trends in the world are decreasing, that is, the main groups of food are generally getting cheaper, the opposite picture is developing for Ukraine – due to war, force majeure, and other adverse consequences, Ukrainians face a constant increase in the cost of the consumer basket, including food and beverages as its most important components.

Thus, the study of the current state and prospects of foreign trade in agri-food products between Ukraine and the largest European states is essential for the formation of the export potential of its agricultural sector and the specific features of the internal food market, including their interdependence. If in the normal situation, the list of factors influencing exports and imports is standard, then force majeure is decisive for Ukraine, namely the Russian-Ukrainian war and the negative consequences for the entire economy caused by it (Shumska *et al.*, 2023).

For the UK, the COVID-19 pandemic and Russian military aggression in Ukraine, which have had global consequences, have caused substantial crisis pressure (Yurchyshyn, 2022). However, their negative impact has been substantially minimised, and the economic performance of the United Kingdom, in general, looks better than in other European countries.

In a period of substantial socio-economic changes and acceleration of integration processes, it is necessary to establish the role and place of agriculture in them (Lupenko *et al.*, 2022). It is determined that for this purpose it is advisable to conduct activities classified as structural adjustment, in particular, the introduction of European principles of regulation and organisation of activities. The authors note that the development of agriculture in the context of the national economy is implemented in three areas - increasing investment potential, digitalisation, and entering the international market.

Even before the full-scale war, the consumption of most food products by the Ukrainian population was insufficient to meet physiological needs (Salo *et al.*, 2023). In addition, energy-rich nutrition increases markedly in parallel with the increase in income. However, the ongoing military operations and the deteriorating economic situation in Ukraine only deepen the gap between people's real incomes and the cost (availability) of the food basket.

Since 2022, under martial law, the parameters of the functioning of the Ukrainian agricultural market have been radically changed (Boiko, 2022). Since this has caused completely new challenges and problems, the necessity to apply some additional measures of the state sectoral policy to stabilise it is emphasised.

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The unprovoked Russian invasion of Ukraine has resulted in an apparent humanitarian and economic catastrophe extending beyond Ukraine (Mudrak, 2022). One of its consequences was the spread of famine both on the territory of Ukraine and on a global scale. Given the complexity of the forced situation, the key is the formation of internal stocks of agricultural products to provide stable food to Ukraine.

In response to new challenges, the Ukrainian government has introduced a plan of measures in the field of food security, including its monitoring, tracking the balance of major food groups, and providing appropriate support to producers (Polukhina, 2022). Among them, according to the author, some carry certain risks, in particular, the easing of land procedures throughout Ukraine, which are under various influences of military operations.

The global economy, which was recovering from the coronavirus crisis together with Ukraine (Patyka, 2021), faced an unprecedented problem of organising its functioning due to the conditions of martial law (Irtyshcheva *et al.*, 2022). The scale of sanctions pressure has also become maximum, so it takes time to adapt and adjust mutual economic activity for Ukraine and its Western partners (Ostashko *et al.*, 2022). The forecast for the development of the global economy is based on the assumption that price growth in developed and developing countries will accelerate, and there will be geopolitical uncertainty.

Therewith, the export potential of Ukraine is decreasing, although not as much for agri-food products (Osipova, 2022). In this regard, special assistance from the United Kingdom, which lifted all restrictions on the import of Ukrainian-made goods, is notable. An effective way to improve this overall situation is to strengthen cooperation with European Union countries and other regional leaders.

The war provoked an actual decline in Ukraine's exports, including grain crops, the demand for which has been stable and growing over the past decade (Gafarov *et al.*, 2022). Since the beginning of the Russian invasion, the positive dynamics have simply been lost. The authors believe that it will be extremely difficult to avoid an imbalance in the Ukrainian grain market in the short term because actual exports are equally likely to increase or decrease.

The results obtained in this study are confirmed, according to which Ukrainian-made poultry meat is one of the most promising products on the British market. In general, the demand in the world for it is growing, which leads to an increase in the volume of international trade (Kryvenko, 2022). In addition, on a global scale, Ukraine is one of the main exporters of poultry meat, and the United Kingdom, accordingly, belongs to the largest importers of poultry meat.

Thus, both countries are united by the confrontation with extreme socio-economic challenges, and with Russian aggression, it is conducted jointly. The UK has coped relatively well with the consequences of the coronavirus pandemic, and Ukraine has adapted to a certain extent to economic realities in the context of war. However, the development of cooperation, in particular, trade relations, remains relevant for both sides under all circumstances. In 2022-2023, there were numerous liberalising concessions of a mutual nature in this area. Export-import operations with food must occupy an important place in the overall trade balance of Ukraine and the United Kingdom, which demonstrates their priority.

Conclusions

The United Kingdom of Great Britain is one of the most economically developed countries in Europe, but simultaneously it consistently has a high import dependence on agri-food products. In addition, this country is one of the main importers of food in the world. Trade in agricultural products between Ukraine and the UK developed dynamically, especially after 2016, and considering the beginning of the Free Trade Zone between the parties from January 1, 2021, in connection with its withdrawal from the European Union. However, the full-scale Russian invasion led to a sharp decline in agricultural exports and imports for Ukraine, although the established ties with British partners remained, allowing for the continuation of mutual supplies of products. The commodity structure of food sales from Ukraine to the United Kingdom is generally focused on oilseeds, butter, and grain. Purchases in the UK also correspond to the main trends in Ukrainian imports, including premium alcohol and fish products. A comparison of Ukrainian exports and British imports showed that Ukraine's most unrealised potential is in the supply of poultry meat. Therewith, there are no prerequisites for serious changes in the commodity structure of Ukraine's imports. Forecast estimates show that, despite the war, it is likely that Ukraine will slowly increase exports of agri-food products to the UK, while imports will remain at the level of 2022. In any case, Ukraine needs to diversify its supply range, focusing on ready-to-eat products and value-added raw materials.

Promising areas of further research on the subject of foreign trade in food with the UK may be the analysis of the impact of the Free Trade Zone between the parties in dynamics over several years and the consequences of its complete lifting of restrictions on purchased products from Ukraine, and monitoring consumer trends in the British market, which show rapid changes, providing additional incentives for the supply of the necessary range of goods from abroad.

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 Conflict of Interest
 None.

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Зовнішня торгівля агропродовольчою продукцією між Україною та Великою Британією

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Анотація. Серед найважливіших регіональних союзників України окремо варто виділити Велику Британію, яка спочатку в ролі держави-члена ЄС, а потім, з 2021 року самостійно в рамках двосторонньої Угоди всіляко сприяє розвитку вільної торгівлі, зокрема аграрної, між двома країнами. Свідченням цього стали постійно зростаючі в динаміці до 2022 року обсяги експорту та імпорту сільськогосподарської сировини і продуктів харчування для України з Великою Британією. Мета статті – дослідити динаміку зовнішньої торгівлі продукцією сільського господарства і харчової промисловості між Україною та Великою Британією, в тому числі зв'язок розвитку взаємної торгівлі з лібералізацією її умов. Було використано методи узагальнення, аналізу і синтезу, комплексної оцінки, історичний, графічний і табличний. Наведено загальну соціальноекономічну характеристику Великої Британії з врахуванням її виходу зі складу Європейського Союзу та акцентом на поточному стані торгівлі агропродовольчою продукцією на міжнародному ринку. Проаналізовано кількісні і вартісні показники зовнішньої торгівлі агропродовольчою продукцією між Україною та Сполученим Королівством Великої Британії і Північної Ірландії з 2012 року, розглянуто характерні особливості товарної структури експортних продажів та імпортних закупівель України, в тому числі, у 2022 році, здійснено оцінку перспектив аграрної торгівлі між сторонами у найближчий час, зокрема, запропоновано напрями поглиблення зовнішньоекономічної співпраці між Україною та Великою Британією, визначено групи продукції, які залишатимуться пріоритетними навіть в умовах війни з огляду на потреби внутрішніх продовольчих ринків обох країн. Положення статті спрямовані на надання інформації стосовно можливостей розвитку торгівлі продукцією сільського господарства і харчової промисловості з Великою Британією для українських підприємств продовольчого сектору та органів державної влади, що забезпечують зовнішню політику і міжнародне співробітництво

▶ Ключові слова: міжнародне співробітництво; продовольство; важливий партнер; лібералізація; розвиток; трансформація