

2025

INVEST INTO
ZAKARPATTIA -
INVEST INTO **UKRAINE!**



INTRODUCTION

Zakarpattia is a region with unique opportunities for creating new projects and ideas; the southwestern gateway of Ukraine to the European Union; an attractive region where residents together with authorities and local governments work to achieve comfortable living conditions; the land of preservation of cultural and historical monuments, traditions and nature; an area where there is a balance between the development of industry and the conservation of unique natural resources; a region where you want to live and work.

In the Zakarpattia region, you will find an attractive investment climate and a rich cultural heritage, known for its diversity and hospitality of the local population. This area is noted for its unique symbiosis of cultures, languages, and traditions, which creates a special atmosphere and provides various opportunities for cultural exchange and cooperation. We invite you to study this investment passport to gain a deeper understanding of the field and the opportunities it provides. Your investment trip to the Transcarpathian region can be not only a successful business decision but also a new stage in your discovery of interesting prospects.

ZAKARPATTIA

is a historical region in the southwest of Ukraine located in the Carpathians' foothills and slopes and within the Tysa River basin. It borders Poland, Hungary, Slovakia, and Romania. Its multiculturalism and multiethnicity are reflected in various traditions and holidays. Ukraine's largest mountain lake, Synevyr, is located here. The administrative center of the region is the city of Uzhhorod.



SUMMARY OF THE AREA

Total Area 12,777 km² (2% of the territory of Ukraine)

Population 1 244,5 thousand people (as of 10.01.2023)

Gross regional product - 122 140 million UAH (2022)

Territorial communities - 64

7th place in rating of population density among all regions of Ukraine (as of January 1, 2020)

The safest region for business in Ukraine (according to a survey by the Institute for Economic Research in 2023)



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Why to choose ZAKARPATTIA REGION if you are looking for a place to invest

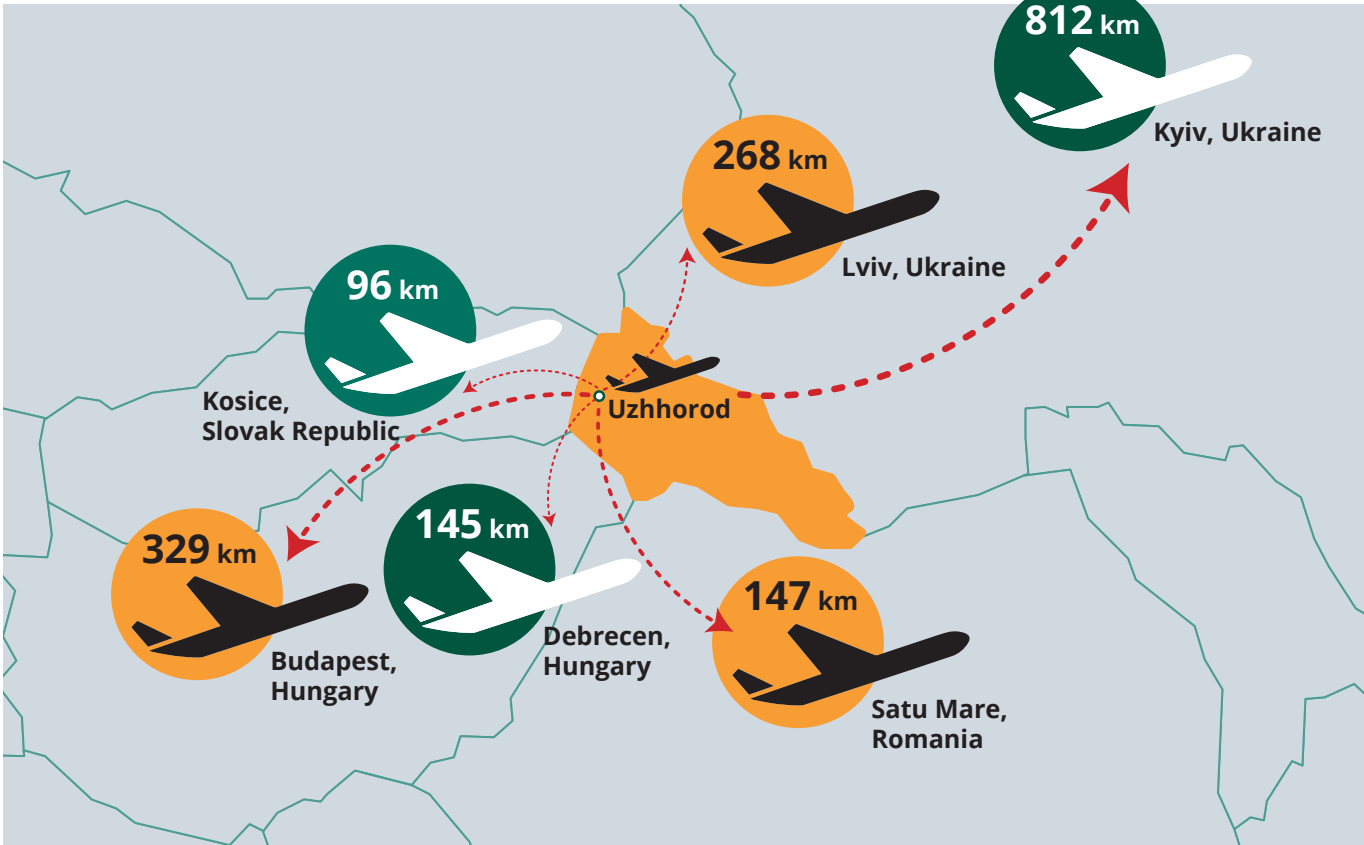
- 1 Advantageous and unique geopolitical location. Proximity to European markets.
- 2 Climatic, landscape and biological diversity.
- 3 Rich natural, forest, water, recreational and balneal resources. The highest indicator of the area of the territories of the nature reserve fund in the country.
- 4 The predominance of the rural population over the urban population. Cultural and traditional diversity.
- 5 The Planning Scheme of the Territory of the Zakarpattia for the period 2031 with the possibility of joint infrastructure facilities with neighboring countries is up-to-date and current.
- 6 Scientific, technical, and human resources for fundamental and applied research.
- 7 High business activity and labor mobility. No language barriers with the nearest neighbors.
- 8 Ramifications of transport, energy, environmental, municipal, industrial, social and communication infrastructure.
- 9 A significant number of places of recreation, accommodation facilities, processes of diversification of tourist services, tourist and recreational products. Positive environmental image of the region.
- 10 Prerequisites for the development of clusters.
- 11 High adaptability of small and medium-sized enterprises to changes in the market environment.
- 12 Successful experience in attracting investment and grant projects.
- 13 Active development of agricultural sector inherent in the region.
- 14 Significant natural, economic, demographic, historical and cultural potential of mountainous and rural areas.
- 15 Zakarpattia has a strategic advantage during wartime due to its protected mountainous location, proximity to EU borders, and distance from active combat zones.

TRANSPORT & INFRASTRUCTURE



The length of the network of public roads of the region is **3360.736 km**, including **363.6 km** of international roads and **295.2 km** of national roads.

Nearest cities with an airport [distance from Uzhhorod]



CHECKPOINTS

BORDER WITH THE SLOVAK REPUBLIC -----

Nº	Name of Checkpoint/ Control Point	Checkpoint in the adjacent territory	Types of border crossing points	Checkpoint category, mode of operation	Character of transportation
1	Mali Selmentsi	Velké Selmentse	Pedestrian & Cyclists	international from 09.00 to 21.00 (Kyiv time)	Passenger (citizens of Ukraine, the Slovak Republic, and the countries of the European Economic Area)
2	Malyi Bereznyi	Ublya	Automobile, pedestrian, and cyclist	International, 24/7	Passenger Cargo up to 3.5t
3	Uzhhorod	Vyshne-Nemetske	Automobile	International, 24/7	Passenger Cargo
4	Pavlove	Matyovce	Railway	International, 24/7	Cargo
5	Uzhhorod (control point)		Railway	International, 24/7	Cargo
6	Chop (Guardian)	Čierna nad Tisou	Railway	International, 24/7	Passenger Cargo

BORDER WITH HUNGARY -----

1	Chop (Tisa)	Záhony	Automobile	International, 24/7	Passenger Cargo
2	Chop (Druzhba)	Záhony	Railway	International, 24/7	Passenger Cargo
3	Batiovo (control point)		Railway	International, 24/7	Cargo
4	Salovka	Epereschke	Railway	International, 24/7	Cargo
5	Dzvinkove	Loniya	Automobile (except buses)	international from 07.00 to 18.00 (Central European Time)	Passenger
6	Kosino	Barabash	Automobile (except buses)	international from 07.00 to 19.00 (Central European Time)	Passenger
7	Luzhanka	Beregshuran	Automobile	International, 24/7	Passenger Cargo up to 7.5 t.
8	Vylok	Tisabech	Automobile	International, 24/7	Passenger

BORDER WITH ROMANIA -----

1	Dyakovo	Halmeu	Automobile	International, 24/7	Passenger Cargo
2	Dyakovo	Halmeu	Railway	International, 24/7	Passenger Cargo
3	Solotvyno	Sighetu Marmatiei	Automobile Pedestrian	International, 24/7	Passenger Cargo up to 3.5 t (no more than 9 seats, including the driver's seat)
4	Teresva	Campulung La Tisa	Railway	International, 24/7	Passenger Cargo
5	Dilove	Valea Visheului	Railway	International, 24/7	Passenger Cargo

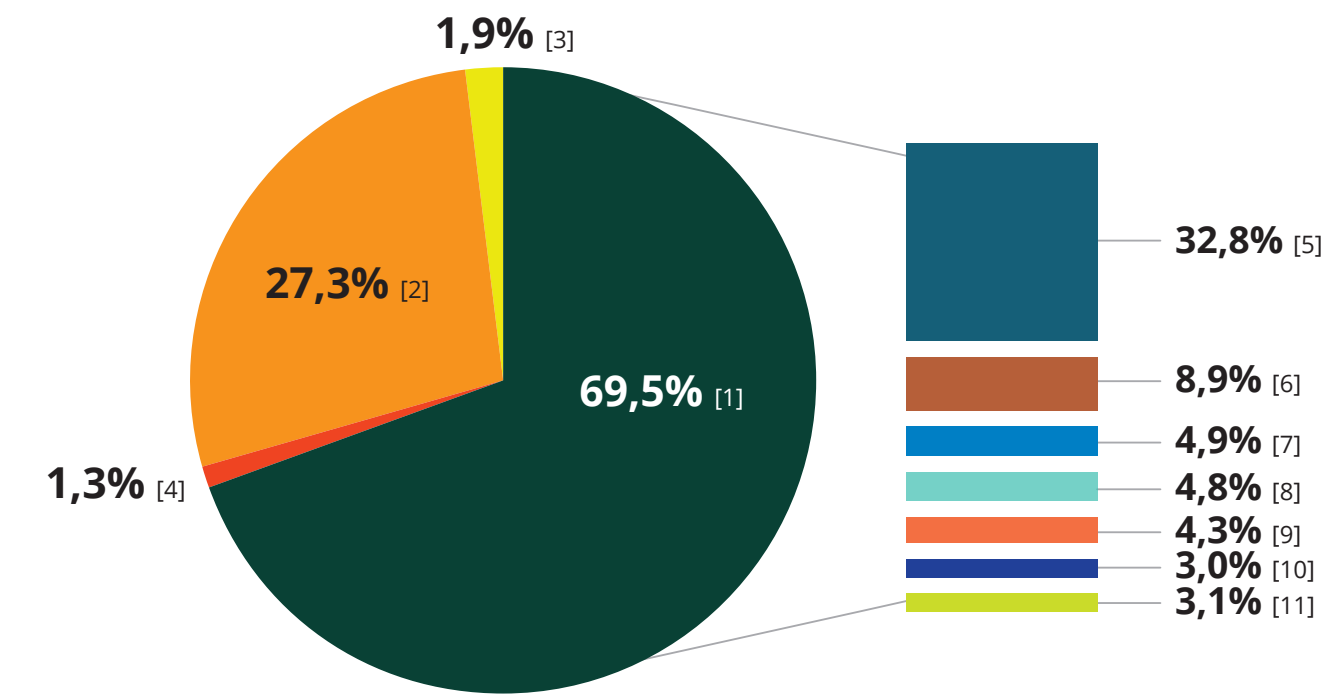
In the future, the following checkpoints are planned to be opened:

Ukraine – Romania: Bila Tserkva – Sighetu Marmăției, Yablunivka – Huta (Remeti).
Ukraine – Hungary: Velyka Palad – Nagyhódos, Dyida – Beregdaróc.
Ukraine – Slovakia: Solomonovo – Čierna, Palad-Komarivtsi – Ruské.
Ukraine – Poland: Lubnya – Wołosate.

INDUSTRY

The volume of industrial products sold in Zakarpattia region in 2024 amounted to 40.2 billion UAH.

The structure of industrial production of the region as of 2024:



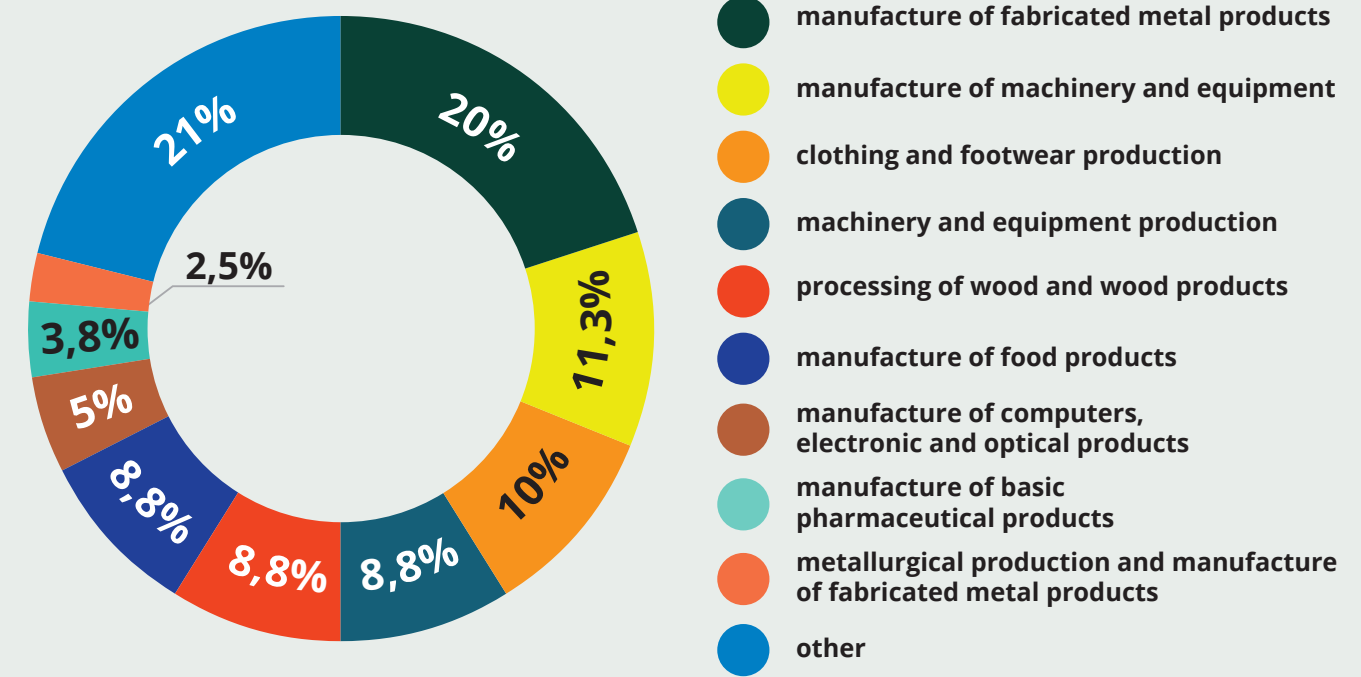
- Processing industry [1]
- Supply of electricity, gas, steam, and conditioned air [2]
- Water supply, sewerage [3]
- Mining industry [4]
- Mechanical engineering [5]
- Production of food, beverages, and tobacco products [6]
- Textile production, production of clothing, leather, leather goods and other materials [7]
- Manufacture of wood product [8]
- Production of chemicals and chemical products [9]
- Production of rubber and plastic products [10]
- Production of finished metal products, except for machines and equipment [11]



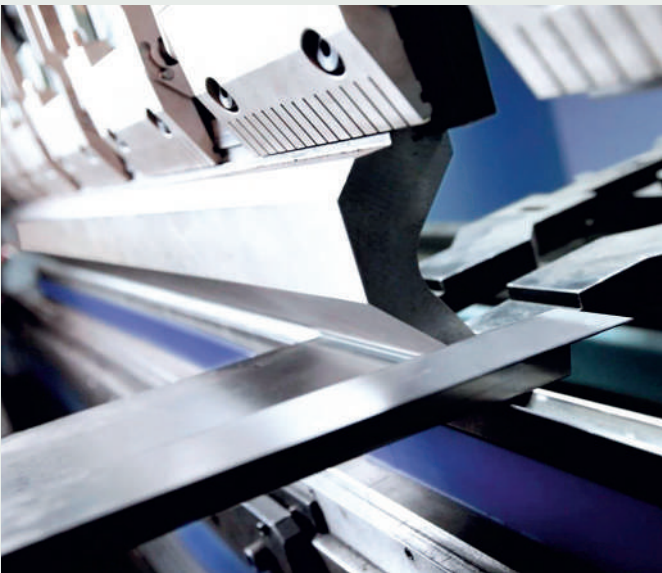
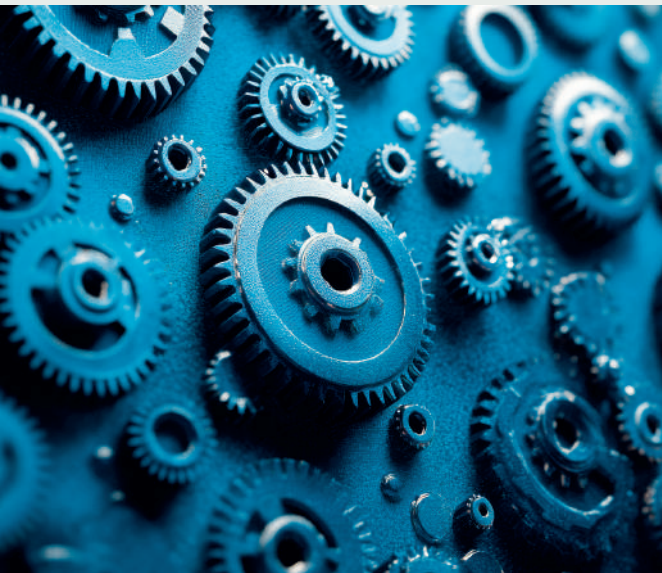
Since the beginning of Russia's full-scale invasion, 286 business entities have relocated to Zakarpattia from other regions of Ukraine.

80 units of the total number of relocated enterprises are enterprises of the processing industry.

The main activities of these enterprises are as follows:



- manufacture of fabricated metal products
- manufacture of machinery and equipment
- clothing and footwear production
- machinery and equipment production
- processing of wood and wood products
- manufacture of food products
- manufacture of computers, electronic and optical products
- manufacture of basic pharmaceutical products
- metallurgical production and manufacture of fabricated metal products
- other



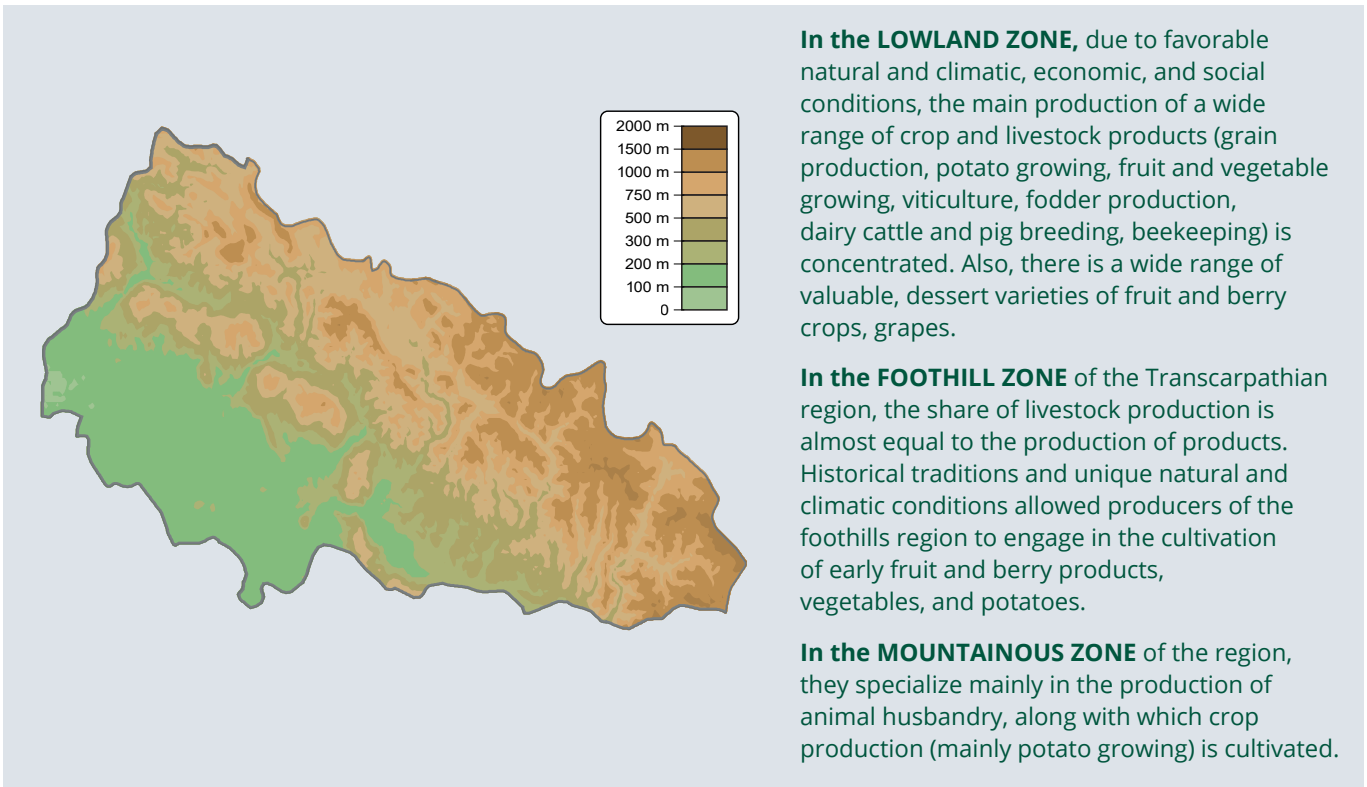
AGRO-INDUSTRIAL COMPLEX

The agro-industrial complex is an important sector of the region’s economy, which annually forms up to 15% of the gross value added produced by all sectors of the economy, ensures the production of the main types of agricultural products and creates conditions for the development of the region.

Zakarpattia is one of the regions of Ukraine, in which the rural population prevails urban and is **63.0%**, with 31.9% in Ukraine.

To produce agricultural products, the main resource is agricultural land. In all categories of farms, **451.46** thousand hectares of agricultural land are accounted for, including **200.22** thousand hectares of arable land. Personal farms own and use **88.7%** of agricultural land and 84.4% of arable land. Agricultural enterprises use **43.6 thousand hectares** or 11.2% of agricultural land, including 30.0 thousand hectares of arable land or **15.6%** of the total area.

One of the features of Zakarpattia is a pronounced spatial vertical zoning, which includes **lowland, foothill, and mountainous** natural and economic zones.



Compared to other regions of Ukraine, the ripening of these products in the region is faster on average by 2-3 weeks, which allows you to have favorable advantages in sales and a competitive price. Agricultural products of the region are sold in the food markets of the region, wholesale markets of agricultural products throughout the country.

As of 01.01.2025, according to the operational information for all categories of farms, the harvest of grain and legumes was completed on an area of 72.1 thousand hectares (100% of the forecast), with a gross harvest of 310.3 thousand tonnes and a yield of 43.0 c/ha.

The projected gross harvest of grain crops in the region is expected to be within 328 thousand tons, which is almost 6.5% more than last year.



Production and yield of agricultural crops in all categories of farms for 2024

	Production of thousand tons	Yield c/ha	Area, thousand hectares
Total cereals	310,3	43,0	72,1
All wheat	83,8	35,1	23,9
Whole barley	5,8	31,0	1,9
Oat	3,4	26,2	1,3
Corn	214,7	49,3	43,6
All pome fruits	90,3	114,3	7,9
Including apples	88,8	120,0	7,4
All berries	3,1	90,9	0,3
Including strawberries	1,6	79,0	0,2
Nut crops in total	6,8	45,3	1,5
Grape	29,3	94,5	3,1

Since the beginning of the government program of grant support for small and medium-sized businesses for the development of greenhouses, horticulture, berry growing, viticulture, the Transcarpathian region has been the leader both in terms of the volume of agreed grants and in perennial plantations laid out for grant funds.

In 2024 year 48 business entities received over UAH 250.7 million under the government grant program. The Transcarpathian region leads both in terms of the volume of approved

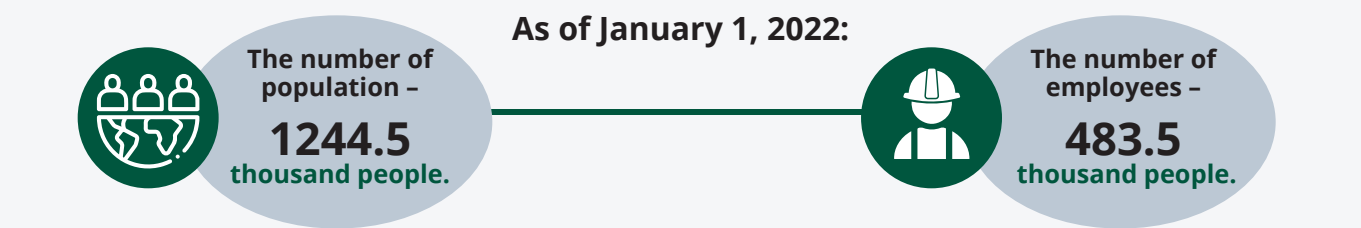
grants and the area of perennial plantings planted with these funds within the project.

In 2024, the geographical indications “Zakarpattia wine” and “Zakarpatsky honey” were registered. This registration of geographical indications supports local businesses and farmers, provides competitive advantages for products, promotes the economic growth of the region, and helps protect Ukrainian heritage in times of war. The registered GI will be transferred to the EU according to the established procedure for protection on European markets.

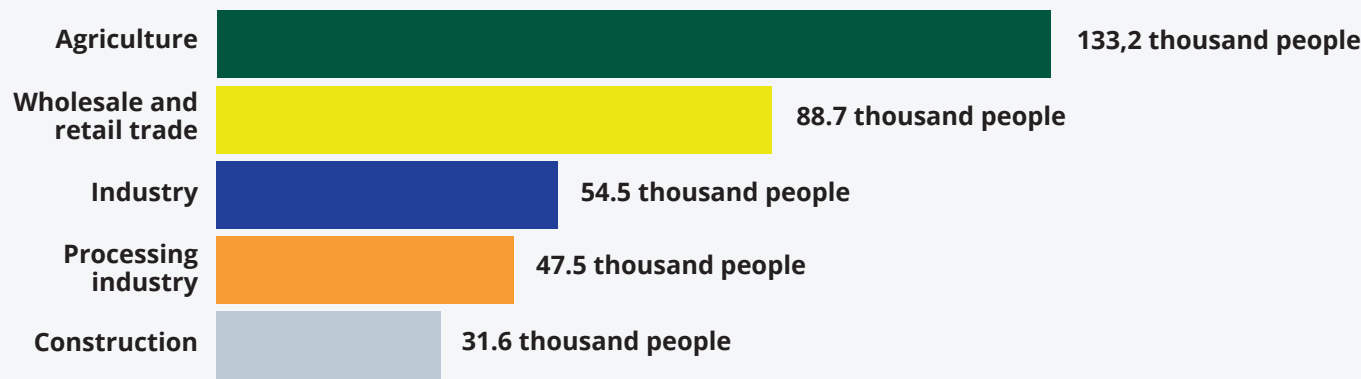


HUMAN POTENTIAL

Zakarpattia has a significant labor potential, educational institutions train specialists in many specialties. Zakarpattia region has many unique features that make its people an important resource for the development of the region and the whole country.



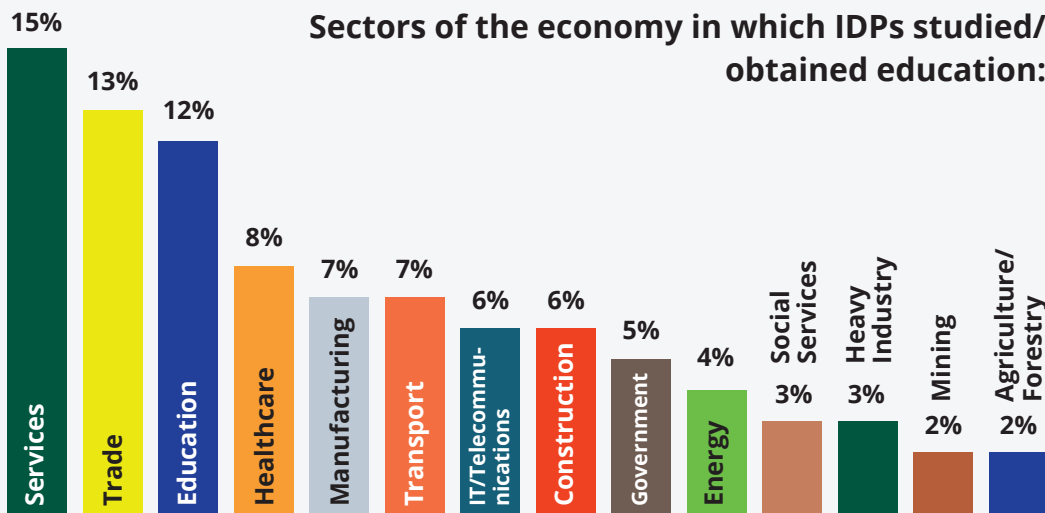
Employment of the population of the region by types of economic activity:



Internally displaced persons (IDPs) play an important role in the labor potential of the Zakarpattia region.

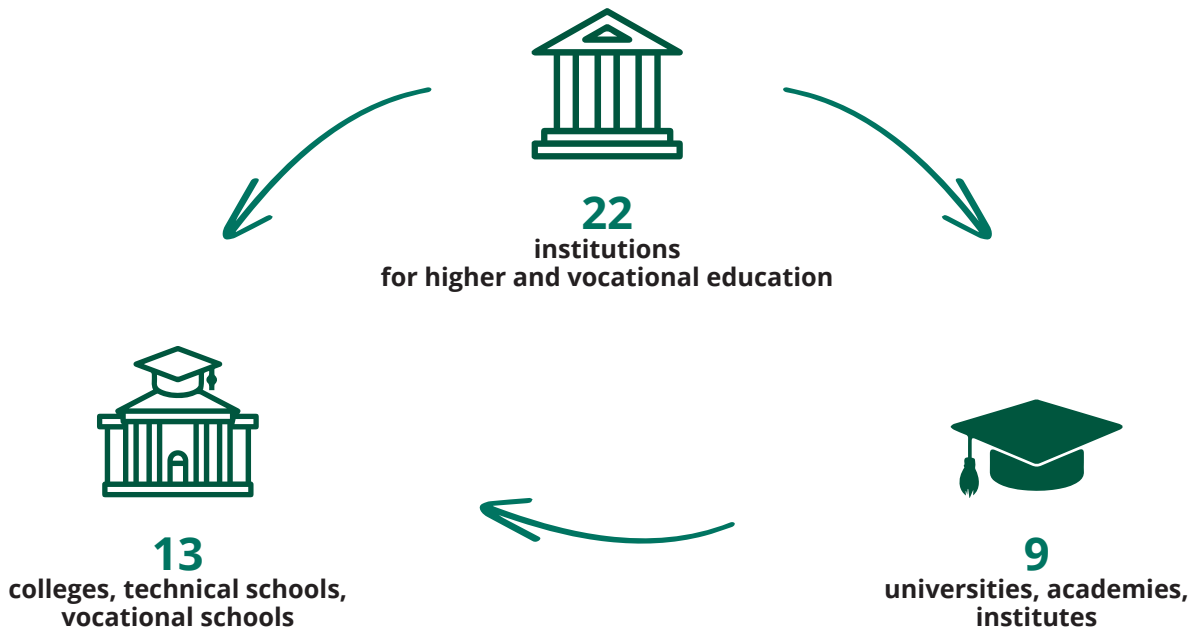
As of 01.02.2025, 125 368 internally displaced persons (IDPs) are registered in Zakarpattia region. (замінити).

Internally displaced persons (IDPs) play an important role in the labor potential of the Zakarpattia region.



EDUCATION AND SCIENCE

In total, there are 22 institutions for higher and vocational education in the Zakarpattia region, 13 of them are colleges, vocational schools, and 9 are universities, academies, and institutes.



In 2024, 3100 thousand students were admitted to vocational (vocational and technical) education institutions. students, and the number of students at the end of the year was 5 317 people.

As for institutions of pre-higher professional education, in 2024 2 539 students were admitted, and the number of students at the end of the year was 10 036 people.

5145 students were admitted to higher professional education institutions, and the number of students at the end of the year was 22 788 people.

Number of students in higher educational institutions

	State Higher Educational Institution "Uzhgorod National University"	14237
	Mukachevo State University	3142
	Zakarpattian Academy of Arts	365
	Academy of Culture and Arts	752
	Uzhgorod Trade and Economics Institute of the State Trade and Economics University	533
	Zakarpattian Hungarian Institute named after F. Rákóczi II (private)	1663
	Carpathian University named after A. Voloshyn (private)	1061
	Separate structural unit of the higher education institution "Open International University of Human Development "Ukraine" Carpathian Institute of Entrepreneurship (private)	370

Total: 22 123

FOREIGN ECONOMIC RELATIONS

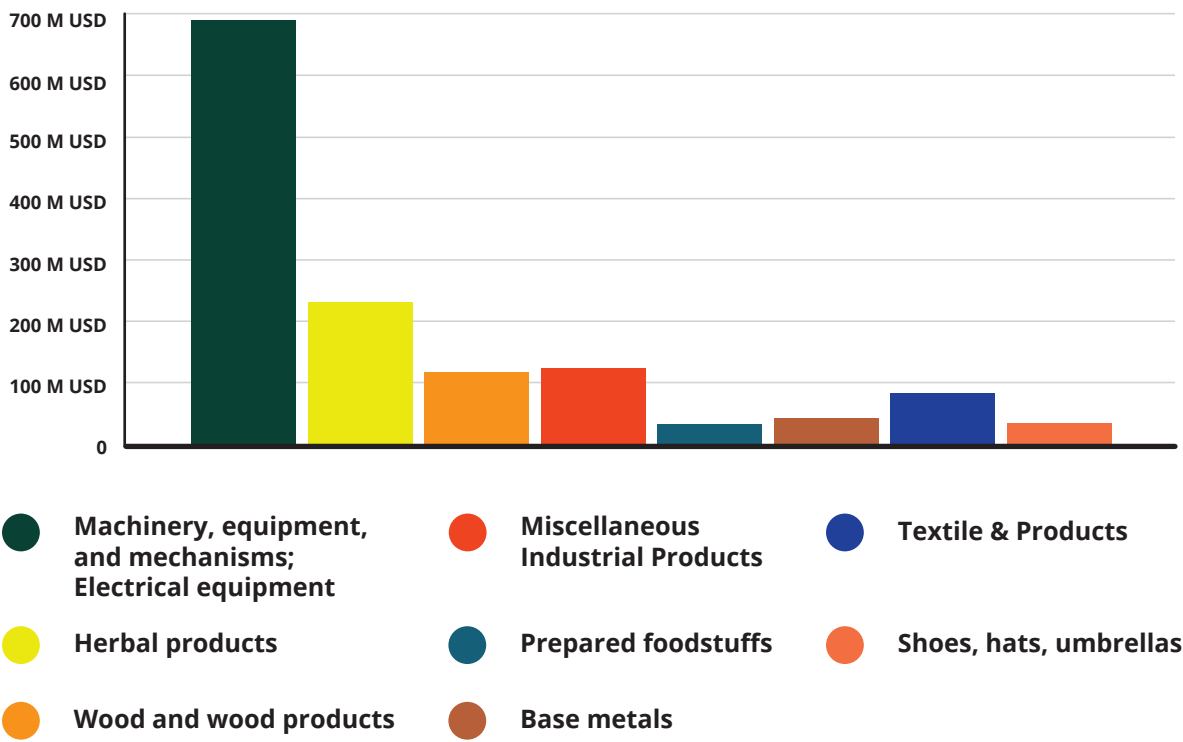
In 2024, the foreign trade turnover in foreign trade in goods of the Zakarpattia region amounted to **3066,6 million USD**. Exports of goods amounted to **1446,2 million USD**, and imports amounted to **1620,4 million USD**. Foreign trade operations were carried out with partners from 121 countries around the world.

The main partner countries of the Zakarpattia region in the field of foreign trade in goods were:

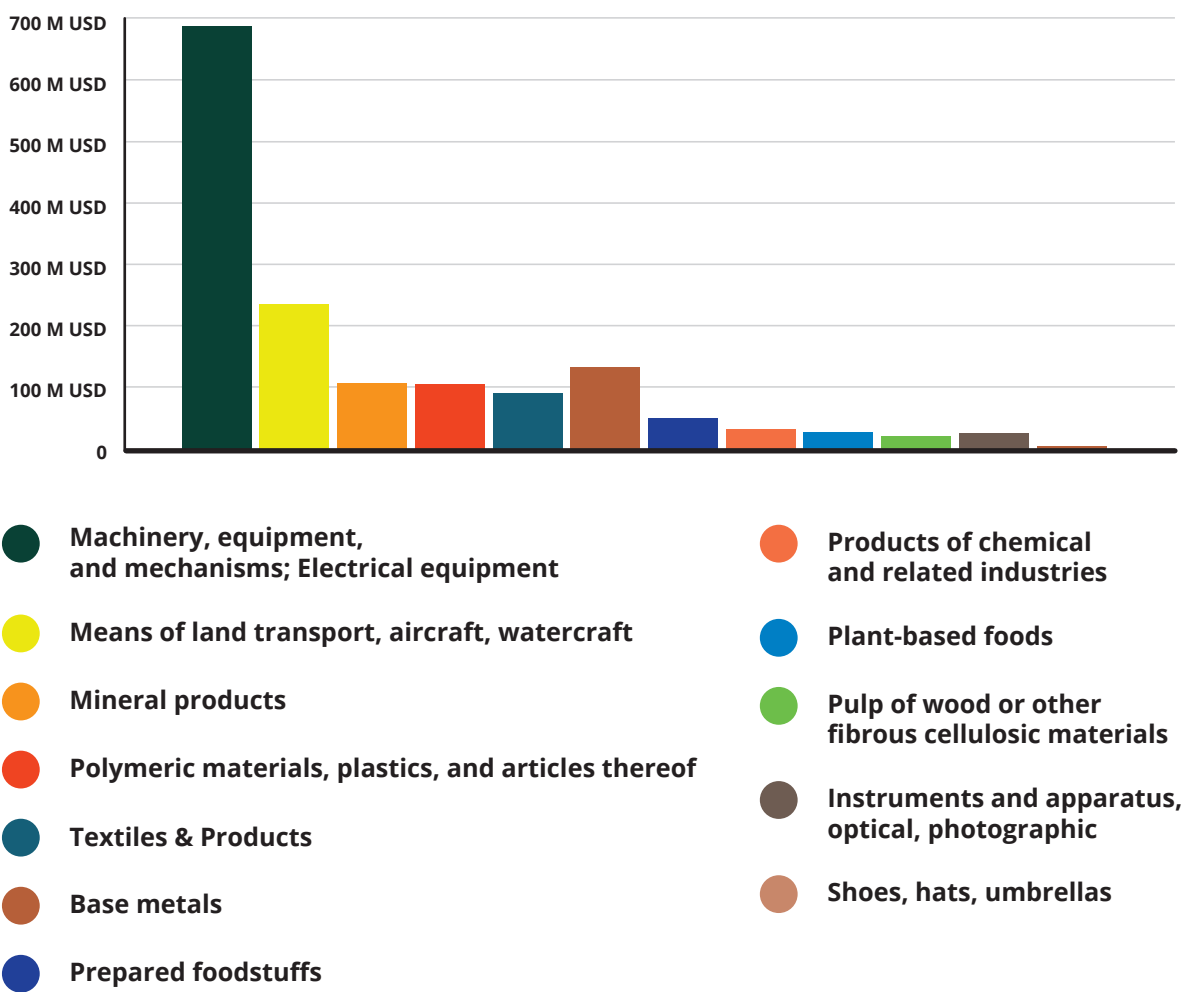
- Hungary – (24,1% of the total volume of foreign trade in goods of the region);
- Germany – (14,1%);
- China – (12,4%);
- Czech Republic – (10,5%);
- Italy – (6,0%).



Export volume of industrial products of enterprises of Zakarpattia region in the context of the main commodity groups in 2024



Import volume of industrial products of enterprises of Zakarpattia region in the context of the main commodity groups in 2024



FOREIGN DIRECT INVESTMENT

As of 30.09.2024, **379,0 million USD foreign direct investment** have been attracted to Zakarpattia region.

Investors from 42 countries of the world work in the region, 10 of them account for more than 91,1% of the total volume of foreign direct investment.

From the countries of the European Union, 362.0 mln. USD investments (95.5% of the total), 17.0 mln. USD (4.4 %) – from other countries.

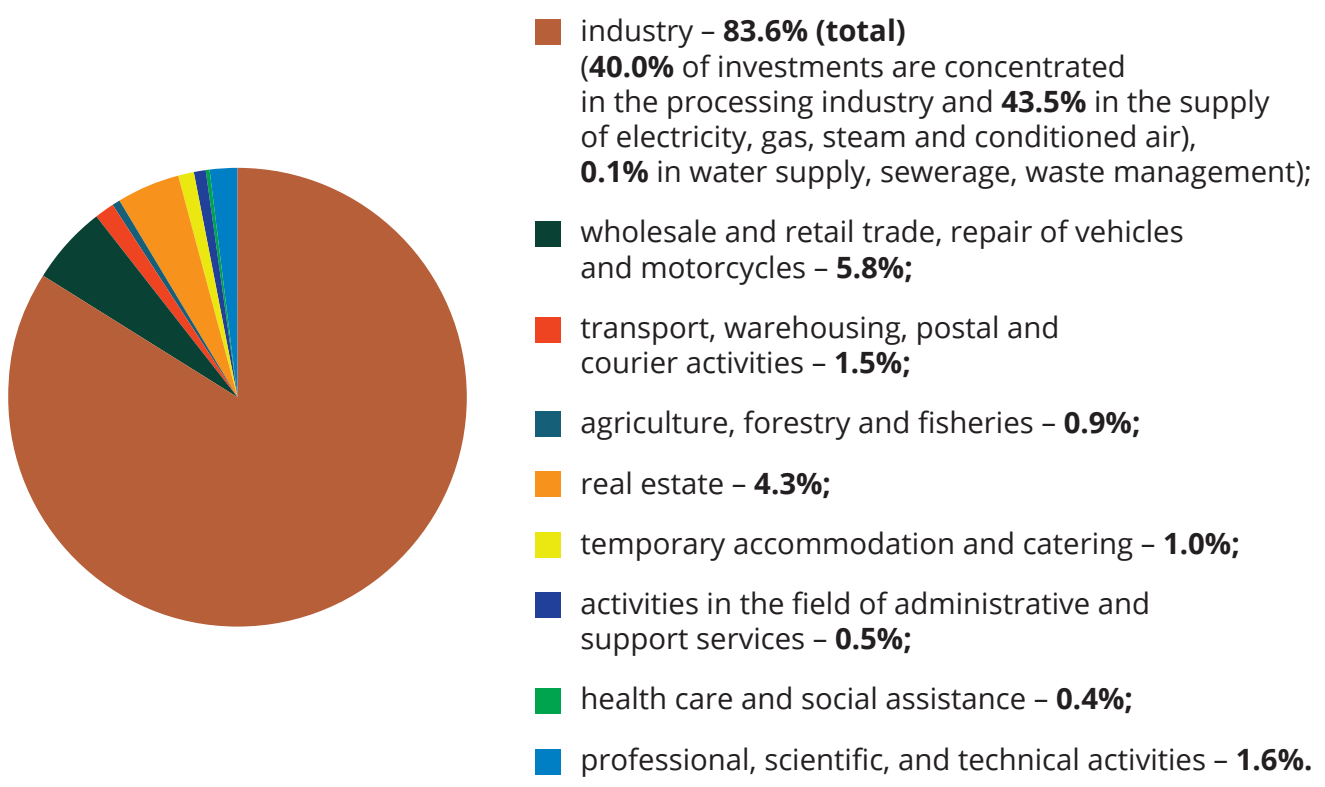
The largest volumes of foreign direct investment came from:

	Cyprus	189.7 million USD (50.0 percent of the total)
	Austria	46.2 million USD (12.1 percent)
	The Netherlands	36.1 million USD (9.5 percent)
	Germany	23.6 million USD (6.2 percent)
	Hungary	17.5 million USD (4.6 percent)

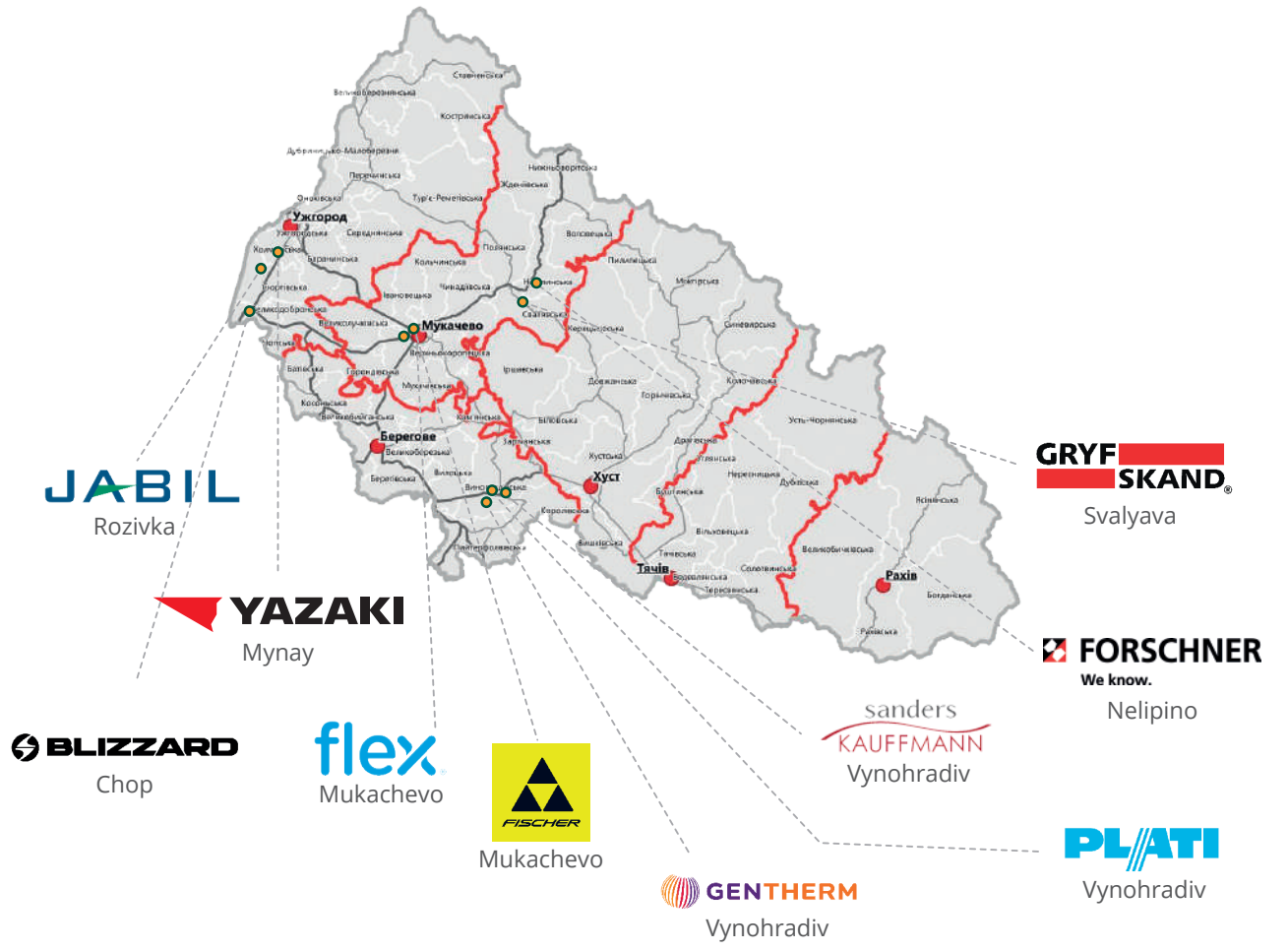
Despite the huge interest of foreign investors in Zakarpattia, Russia’s military aggression stops them from taking active actions. Therefore, during the war, the main investor is Ukrainian business, which has already invested over **100 million US dollars** in the economy of the Zakarpattian region and has declared investments in the amount of over **1.2 billion US dollars** shortly on announced and launched projects.



Foreign direct investment by type of economic activity is as follows:



Key enterprises with foreign investments in Zakarpattia region



INVESTMENT OPPORTUNITIES

Zakarpattia is a zero-risk option for investment. The region is located in the geographic center of Europe, so it remains to be the transit bridge between Eastern and Western countries. All the communications – transport, financial or information exchange – are in high intensity. Today our land used to be named as the “Western gates” of Ukraine.

Zakarpattia Region is a unique region in Ukraine, having borders with four countries. Located in the beautiful Carpathian Mountains and on Zakarpattia lowland, it enjoys a wonderful climate, beautiful landscapes and has numerous historical and cultural landmarks. Its thermal waters are beneficial for health; its cuisine and wines are valued highly in Ukraine and beyond. Zakarpattia is an ethnically diverse region and has long-time traditions of tolerance and cultural dialogue.



PRIORITY SECTORS FOR INVESTMENTS

- production of high-tech products;
- alternative energy production;
- development of the IT sector;
- timber-processing industry;
- production of building materials;
- waste recycling;
- mining;
- agriculture and food complex;
- tourism and recreation;
- development of winter sports.

Follow the link or scan the QR-code to get acquainted with investment opportunities in the communities of the Zakarpattia region:

<https://drive.google.com/drive/u/1/folders/1kJP4wZww9AHyKLne09Zn6H6XLexLpQB>



INDUSTRIAL PARKS

Industrial parks are registered on the territory of Transcarpathia, with a total area of **312.21 hectares**.

1. Industrial Park «SOLOMONOVO»

Location – Solomonovo, 66.2 ha, up to 6,000 employees.
The functional purpose is to locate the production facilities of medium and precision engineering.

E-mail: info@sdpark.com.ua

2. Maramures Industrial Park

Location – Tyachiv, 33.2 ha, up to 3,000 employees.
The functional purpose is to locate the production facilities of industrial enterprises of woodworking, furniture, machine-building industries, and other industries.

E-mail: maramyresh@gmail.com

3. Industrial Park «UZHHOROD»

Location – Uzhgorod, 10.2 ha, up to 500 employees.
The functional purpose is to locate the production facilities of industrial enterprises to produce various building materials and other industries.

E-mail: ipuzhhorod@gmail.com
uzstav@ukr.net

5. Industrial Park «FRIENDLY WINDTECHNOLOGY»

Location – Perechyn, 16.56 ha, up to 745 employees.
The functional purpose is the location of enterprises to produce building metal structures and their parts, the production of electrical equipment, their repair and maintenance, installation.

E-mail: friendly@wpu.com.ua

7. Industrial Park «Tyachiv»

Location – Tyachiv 61,46 ha, up to 3100 employees.
The functional purpose of the industrial park is the production of glass and glass products, woodworking industry, finishing and cutting of decorative and construction stone, processing of industrial and/or household waste (except for waste disposal).

E-mail: expo.tyachiv@gmail.com

9. Industrial park «ECO Mukachevo»

Location – Mukachevo 23,09 ha, up to 900 employees.
The functional purpose of the industrial park is woodworking, paper and paper products, printing, textile and electrical equipment production.

E-mail: yalovy.d@gmail.com
beregsasfuks@gmail.com

4. Industrial Park «WESTERN INDUSTRIAL»

Location – Bushtyno, 21.6 ha, up to 1,100 employees.
The functional purpose is the location of industrial enterprises to produce wood processing, the production of building materials and the production of ready-made modular houses.

E-mail: y.shparyk@si.land

6. Industrial park «BF TERMINAL»

Location – Batyovo 69,67 ha, up to 2000 employees. The functional purpose of the industrial park is to accommodate sawmilling and planing enterprises, manufacture of wood products, cork, straw and plant materials for weaving, furniture production, production of MDF and CLT boards.

E-mail: pv@bfgroup.kiev.ua

8. Industrial Park «Energy Group»

Location – Svaliava 10,02 ha, up to 500 employees.
The functional purpose of the industrial park is the production of glass and glass products, sheet glass forming and processing, production of building metal structures and structural parts, production of metal doors and windows, and production of other building materials.

E-mail: mail.tovvdl@gmail.com

10. Industrial Park «Muzhay»

Location – Muzhievo, 30.56 ha, up to 427 employees.
The functional purpose is food production; woodworking and manufacture of wood and cork products.

E-mail: tetjana.k.eno@gmail.com

STATE SUPPORT FOR INDUSTRIAL PARKS



10-year
corporate
income tax
exemption



full or partial
compensation of
interest rates on
loans for arranging
an industrial park,
carrying out
economic activity



exemption
from **import duties**
for new equipment



non-refundable
financing for
arranging an
industrial park and/
or construction of
related infrastructure
facilities



land tax
exemption/
reduced land
tax rates



exemption
from payment of
forestry
production
losses



TAX SYSTEM

The taxation system in Ukraine is determined by the Tax Code. It consists of national and local taxes and fees.

The key payments for most enterprises and sole proprietors under the general taxation system are:

20%

Value Added Tax Rate
(the rate for exports is 0%)

18%

Corporate income tax rate
(the rate for beneficiaries is 5%)

22%

Single contribution to compulsory state social insurance
(of wages accrued to employees) (for certain categories of citizens (people with disabilities) - 8.41%)

18%

Personal income tax rate
(of accrued wages or net income)

5%

The rate of military tax
(of accrued wages to employees of the enterprise or net income)

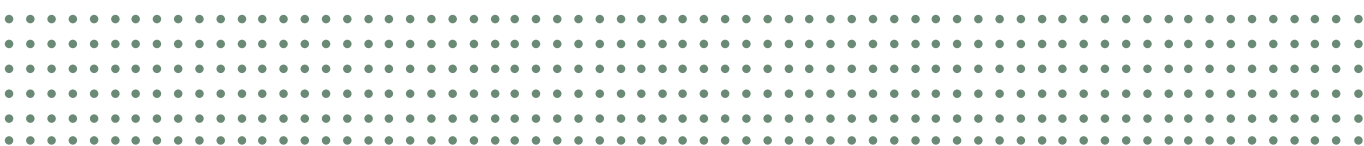
In addition to the general taxation system in Ukraine, there is also a simplified taxation system.

For sole proprietor:

- Group 1 - **up to 10%** of the subsistence minimum. (The amount of income per year should not exceed 1 336 000 UAH)
- Group 2 - **up to 20%** of the minimum wage (The amount of income per year should not exceed 6 672 000 UAH)

For sole proprietor and legal entity:

- Group 3 - **3% of the amount of income** - in case of payment of value added tax; **5% of the amount of income** - if the company is not a payer of value added tax. (The amount of income per year should not exceed 9 336 000 UAH)
- Group 4 - **designed exclusively for agricultural producers.** (The tax base of group 4 is the regulatory monetary valuation of agricultural lands)



STATE SUPPORT FOR INVESTMENT PROJECTS WITH SIGNIFICANT INVESTMENTS

STATE SUPPORT

CIT exemption*
(for 5 years by choice)

Exemption from VAT for importing new equipment and components to it **

Exemption from import duties for new equipment and components to it **

Construction/ compensation for built engineering and transport infrastructure (highways, communication lines, utilities, etc.)

Lease of state or communal land plots without land auctions

Compensation for costs of connection to engineering and transport infrastructure, necessary for the implementation of an investment project with significant investments

Land tax exemption/ reduced land tax rates

Exemption from compensation for losses of forestry production

* Not applicable to projects in the sphere of extraction for the purpose of further processing and/or enrichment of natural resources. ** The list and volumes of equipment are approved by the Cabinet of Ministers for each project.

*** No earlier than 18 months before the date of submission of the application to the authorized body, the applicant may contribute investments in investment objects in an amount not exceeding 30% of the total volume of significant investments required for the implementation of an investment project with significant investments.

REQUIREMENTS TO PROJECTS

€ 12+ million of investments

10+ of new jobs

up to 5 years of project implementation

construction, modernization, technical and/or technological reequipment of objects

TOURISM

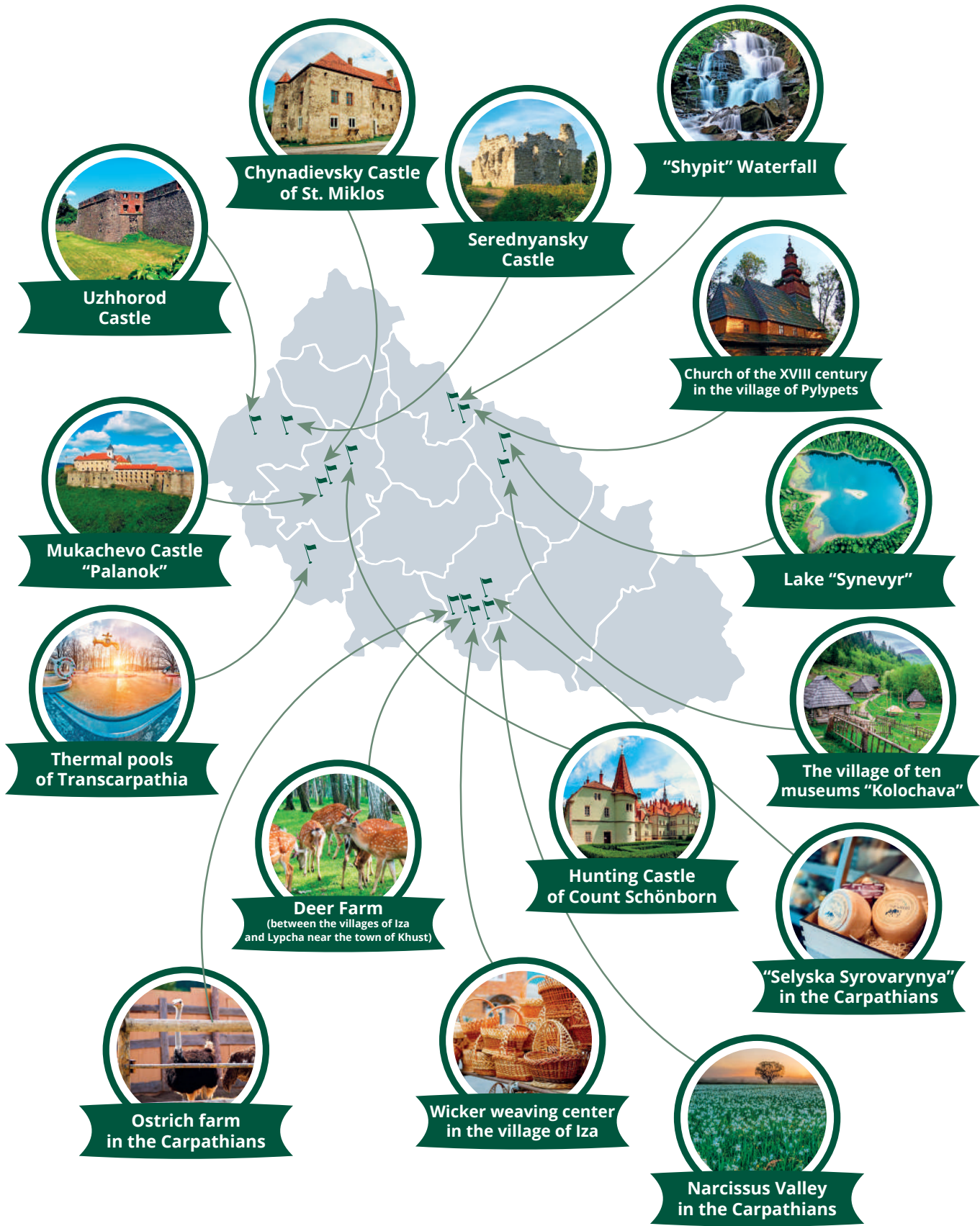
Transcarpathia is one of the most picturesque corners of Ukraine, located on the southwestern slopes and foothills of the Ukrainian Carpathians.

Tourism is becoming widespread and has already become one of the leading, highly profitable, and most dynamic sectors of the world economy.

The network of health, recreation, and tourist facilities on the territory of Zakarpattia region during martial law includes 706 objects, including: 23 health facilities. The region can accommodate about 30,000 people, almost 600 rural estates that are ready to provide tourist services, and 20 tourist information centers.



Top 15 places to visit in Transcarpathia:



MINERAL RESOURCE BASE

On the territory of Zakarpattia region there are 285 deposits of 27 types of various minerals, of which 2 types are combustible, 3 are metallic, 4 are mining-chemical, 4 are mining, 11 are construction minerals, 3 are groundwater.

Zakarpattia region is one of the richest in zeolites, which are represented by 3 deposits: Sokyrnysky, Saryych, and Zelenokamiane.

Such types of minerals as zeolite, marble is mined only in Zakarpattia, and their production is 100% of the total in Ukraine.

Zakarpattia region has a well-developed raw material base of building materials, on the territory of which there are 179 deposits of minerals for construction. Currently, 45 fields are licensed.

Zakarpattia is the only supplier of perlite raw materials in Ukraine. 3 deposits with reserves of 47.62234 million cubic have been explored here.

Types of minerals	The total number of deposits
Natural Gas	12
Coal	4
Nonferrous metal ores	3
Precious metals	4
Raw materials for liming acidic soils	2
Table salt	2
Mineral paints raw materials	2
Bentonite clays	5
Kaolin	2
Feldspar raw material	1
Zeolites	1
Limestone for burning on lime	3
Clay	3
Construction stone	3
Facing stone	50
Sawn stone	22
Keramzit concrete raw materials	5
Pearl raw material	1
Construction sand	3
Sand and gravel mixture	8
Glass raw materials	2
Brick and tile raw material	1
Underground waters:	64
- thermal energy	2
- drinking and technical	24
- mineral	38
Total	285

In the Zakarpattia region, more than 360 sources of mineral waters with different chemical and medicinal properties have been explored. Mineral waters, which can be used for therapeutic purposes, are represented by about 60 main deposits. In total, out of 205 mineral water deposits developed in Ukraine, 38 main deposits are in Transcarpathia.

Mineral waters are used for medicinal purposes and industrial bottling.

Approved reserves of the main deposits of mineral waters of the region			
Name of the deposit	Approved reserves per day, m³	Name of the deposit	Approved reserves per day, m³
Hirskotysyanske	422	Dravetske	24,6
Golubinske	250	Nelipynske	24
Novo-Polyanske	303	Kosinske	240
Velyatynske	30	Svalyavske	25
Polyanske	365	Dragivske	21
Ploskivske	88	Derenivske	190
Soimynske	743	Greenhouse	60
Syniakske	90	Baranynske	70
Shayanske	251,6	Lisarnyanske	12
Nizhneolotvinske	244	Vyshkivske	50



ENERGY POTENTIAL

According to the calculations of the State Design Institute, the total potential of renewable resources of Zakarpattia is more than 45 billion kWh per year, of which 30 billion kWh are estimated as real for development.

The potential of renewable energy resources can and should be used to stimulate the innovative development of the economy of the region (and Ukraine as a whole), ensure energy security and achieve the country's global goals on climate change.

In the implementation of the Energy Strategy of Ukraine, the Zakarpattia region should be among the leaders.

	Natural conditions	Potential, Mw	Installed capacity, Mw	Growth prospects, Mw
Solar energy	Solar radiation level 3 – 4	1757,0	396,4	1360,6
Wind energy	wind speed up to 7 m/s in mountainous areas	1163,0	9,6 (2 stations)	1153,4
Hydroelectric power plants	the largest number of rivers in Ukraine	132,0	42,2 (13 stations)	89,8
Energy from substandard natural gas	10 gas fields, 4 of which have been explored	25,5	11,6 (5 stations)	13,9
In total		3077,5	459,8	2617,7
Energy Storage Systems			2,1 (1 station)	70,4

PROSPECTS FOR THE DEVELOPMENT OF ALTERNATIVE ENERGY SOURCES

WIND farms

The use of this energy potential can contribute to the sustainable development of the region, expand energy independence, reduce greenhouse gas emissions and contribute to the development of the economy. However, for the effective use of this potential, investment, and technological support, as well as the development of appropriate infrastructure, are needed.

GREEN hydrogen

The beginning of the development of the hydrogen ecosystem in the Zakarpattia region will focus on local hydrogen production and nearby consumption, especially in public transport. Enough available hydrogen will also become an accelerator for the development of emission-free transport and the development of hydrogen technologies in the Zakarpattia region.

GEOTHERMAL energy

Geothermal energy is a key renewable resource, second only to hydropower in usage. Its major advantage is its independence from climate, ensuring stable and reliable power generation. In Ukraine, geothermal resources include thermal waters, heated rocks, soil, and underground water, with the Carpathian region showing great potential due to rock temperatures of 230-275°C at depths of up to 6 km.

In Zakarpattia, geothermal resources are concentrated in Berehiv, Mukachiv, Uzhhorod, and Khust districts. While currently used mainly for recreation, their potential for electricity generation remains untapped. Developing renewable energy is a top priority, as geothermal plants can produce electricity 1.5 times cheaper than modern thermal power plants, even with older technologies.

AREAS OF APPLICATION of heat and power resource:

- 1. balneal application;
- 2. heat supply of the housing stock;
- 3. application in the food industry (heating greenhouses, growing mushrooms, etc);
- 4. power generation.







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