



# Muzykivska

hromada and challenges of wartime

Atlas of conditions and resources



ТОВАРИСТВО  
ДОСЛІДНИКІВ  
УКРАЇНИ

ГЕОІНФОРМАЦІЙНИЙ  
ПОРТАЛ

ХЕРСОНСЬКОЇ ОБЛАСТІ

Kyiv – Kherson – Muzykivka 2025

GEOLOGY AND  
GEOMORPHOLOGY

CLIMATE

SOILS

LANDSCAPES AND  
VEGETATION

ECOLOGY

DEMOGRAPHY

SOCIAL SPHERE

LIFE SAFETY

ECONOMIC  
DEVELOPMENT

TOURISM AND  
CULTURAL HERITAGE

URBAN DEVELOPMENT  
OF THE TERRITORY

TRANSPORT  
INFRASTRUCTURE

CONSEQUENCES OF  
THE WAR AND POST-  
WAR DEVELOPMENT  
STRATEGY



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Atlas of conditions and resources of the pre-war development and post-war reconstruction of the  
Muzykivska hromada in the Kherson oblast is part of a global project by the Ukrainian Researchers Society to  
create and maintain a geoinformation system for the entire oblast, based on a geographical approach to the  
creation of GIS systems. This is a cartographic educational publication that describes the conditions and  
resources for the hromada's development in peacetime and the consequences of the large-scale military  
invasion by the Russian army. The atlas contains cartographic and analytical materials in three sections:  
“Natural conditions and resources of the pre-war development and post-war reconstruction,” “Social sphere  
and demographic potential of the hromada,” and “Economic development of the hromada, infrastructure for  
reconstruction and development.”

Intended for students, teachers, researchers, hromada members, local government officials, and anyone  
interested in local development.

**UDC 528.94:911(477.72-22) «362/364»(084.4)**

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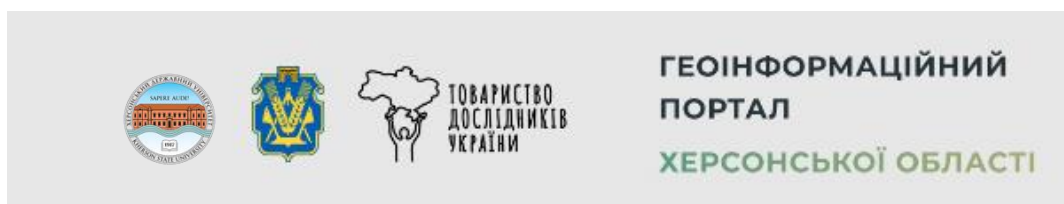
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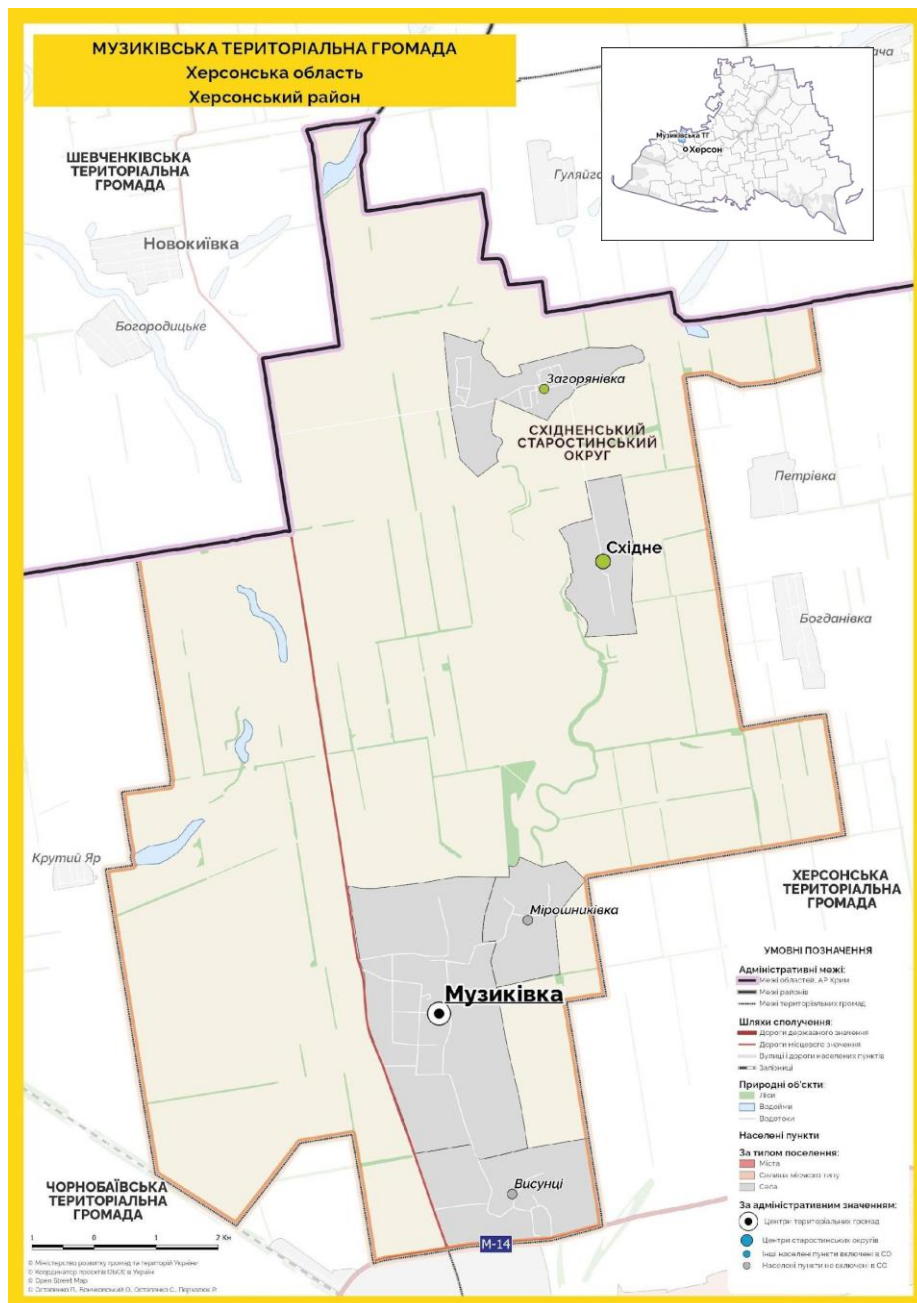
**Daria Ostapenko** – project designer;

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## Map symbols used in the atlas

- Межі областей, АР Крим
- Межі територіальних громад
- Тип населених пунктів:**
  - Міста
  - Селища
  - Села
- Шляхи сполучення:**
  - Дороги державного значення
  - Дороги місцевого значення
  - Вулиці і дороги населених пунктів
  - Залізниця

The names of starosta districts and settlements and settlements in the atlas are as of 2021.

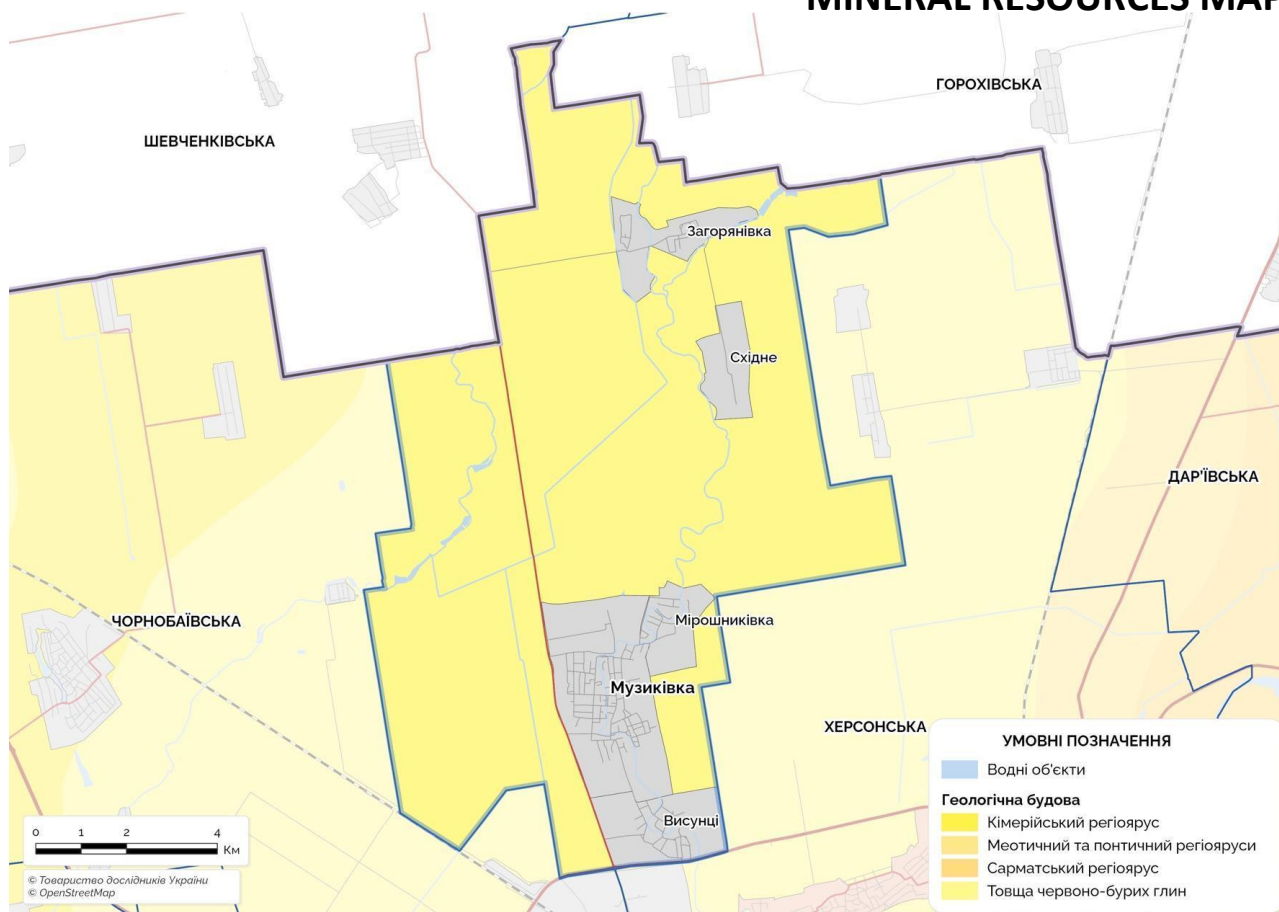
## GENERAL CHARACTERISTICS OF THE HROMADA (2021)

| Name of the hromada                                                                           | Muzykivska    |
|-----------------------------------------------------------------------------------------------|---------------|
| Type of hromada                                                                               | rural hromada |
| Oblast                                                                                        | Kherson       |
| Rayon                                                                                         | Kherson       |
| <b>Area (square kilometers)</b>                                                               | <b>126,8</b>  |
| Number of starosta districts                                                                  | 1             |
| Number of cities                                                                              | 0             |
| Number of settlements                                                                         | 0             |
| Number of villages                                                                            | 5             |
| <b>Population (2021, thousand people)</b>                                                     | <b>3,65</b>   |
| Number of IDPs (01.01.2024)                                                                   | 525           |
| Population, including IDPs (01.01.2024)                                                       | 3 179         |
| Hromada population density (persons/square kilometer)                                         | 28,8          |
| Average population growth 2001-2021 (%)                                                       | -8            |
| Working age population (persons, as of 01.01.2022)                                            | 2113          |
| Population over working age (persons, as of 01.01.2022)                                       | 876           |
| Population under the working age (persons, as of 01/01/2022)                                  | 663           |
| <b>Hromada budget (2021, general fund excluding intergovernmental transfers, UAH million)</b> | <b>12,9</b>   |
| Hromada tax capacity index                                                                    | 0,6           |
| Basic grant to the hromada (UAH thousand)                                                     | 2 747,70      |
| Reverse subsidy to the hromada (UAH thousand)                                                 | 0             |
| Number of Administrative service centers in the hromada                                       | 1             |

## Muzykivska hromada

|                                                                  |                                                  |
|------------------------------------------------------------------|--------------------------------------------------|
| <b>Total number of fields within the hromada</b>                 | 0                                                |
| <b>Deposits of fossil fuels</b>                                  | Missing                                          |
| <b>Non-metallic mineral deposits</b>                             | Missing                                          |
| <b>Groundwater deposits</b>                                      | Missing                                          |
| <b>Brief description of mineral resources in the territorial</b> | There are no mineral deposits within the hromada |

## Muzykivska hromada GEOLOGICAL STRUCTURE AND MINERAL RESOURCES MAP

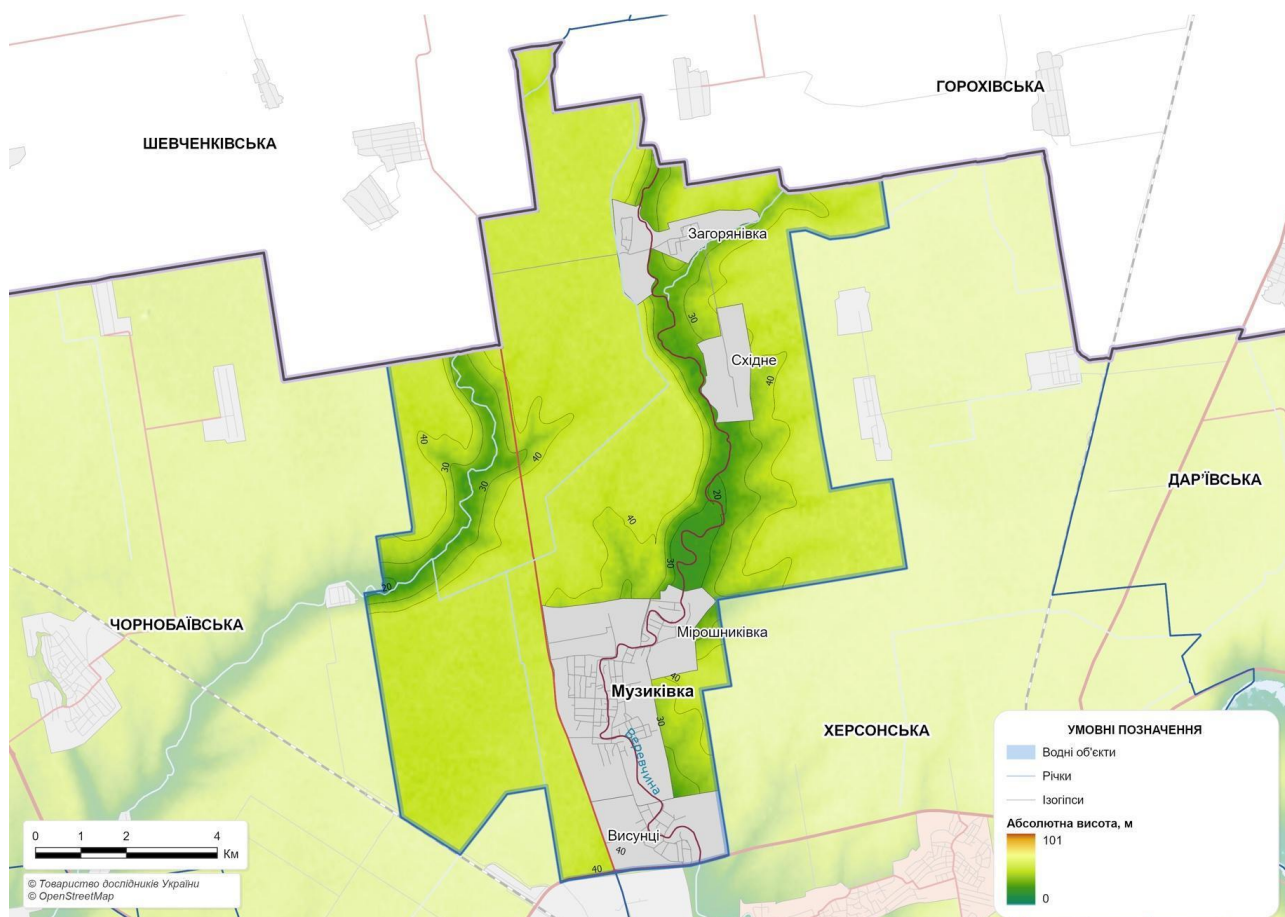


## Muzykivska hromada

|                                                                           |                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Average height, m                                                         | 38                                                                                                                                                                                                                                                                                                                                                      |
| Minimum height, m                                                         | 10                                                                                                                                                                                                                                                                                                                                                      |
| Maximum height, m                                                         | 49                                                                                                                                                                                                                                                                                                                                                      |
| Height amplitude, m                                                       | 39                                                                                                                                                                                                                                                                                                                                                      |
| Flat area (%)                                                             | 87,19                                                                                                                                                                                                                                                                                                                                                   |
| Very gentle slopes (%)                                                    | 12,05                                                                                                                                                                                                                                                                                                                                                   |
| Gentle slopes (%)                                                         | 0,76                                                                                                                                                                                                                                                                                                                                                    |
| Slightly downhill slopes (%)                                              | 0,00                                                                                                                                                                                                                                                                                                                                                    |
| Downhill slopes (10%)                                                     | 0,00                                                                                                                                                                                                                                                                                                                                                    |
| Strongly sloping slopes (%)                                               | 0,00                                                                                                                                                                                                                                                                                                                                                    |
| Average vertical disaggregation (m/km <sup>2</sup> )                      | 15,1                                                                                                                                                                                                                                                                                                                                                    |
| Average slope steepness (°)                                               | 0,82                                                                                                                                                                                                                                                                                                                                                    |
| Average horizontal disaggregation (km/km <sup>2</sup> )                   | 0,62                                                                                                                                                                                                                                                                                                                                                    |
| <b>Geomorphological map (brief description in the context of hromada)</b> | The hromada is located mainly within the Bugo-Dniprovskia loess plain, which genetically is a stratified denudation subhorizontal flat plain on the Neogene sediments. The hromada has an extensive network of ravine and gully relief formed by two large gully systems. The gullies are deep (up to 20-40 m), with numerous branches and steep slopes |
| <b>Hypsometric map (brief description in the context of hromada)</b>      | Average height within the hromada: 38,0 m. Maximum height: 49 m (western outskirts of Skhidne village). Minimum height: 10 m (southern outskirts of Muzykivka village). Amplitude of heights: 39 m.                                                                                                                                                     |
| <b>Map of slopes (brief description by hromada)</b>                       | The hromada's territory is characterized by a predominantly flat terrain: 87.2% of the hromada's area is flat, and the remaining 12.8% is sloping. The largest areas are occupied by very gentle slopes (1-3°) - 12.1%; fewer gentle slopes (3-5°) - 0.8%. Slightly sloping slopes (steeper than 5°) are found in the gully and ravine network          |

# Muzykivska hromada

## PHYSICAL MAP



# CLIMATIC CONDITIONS

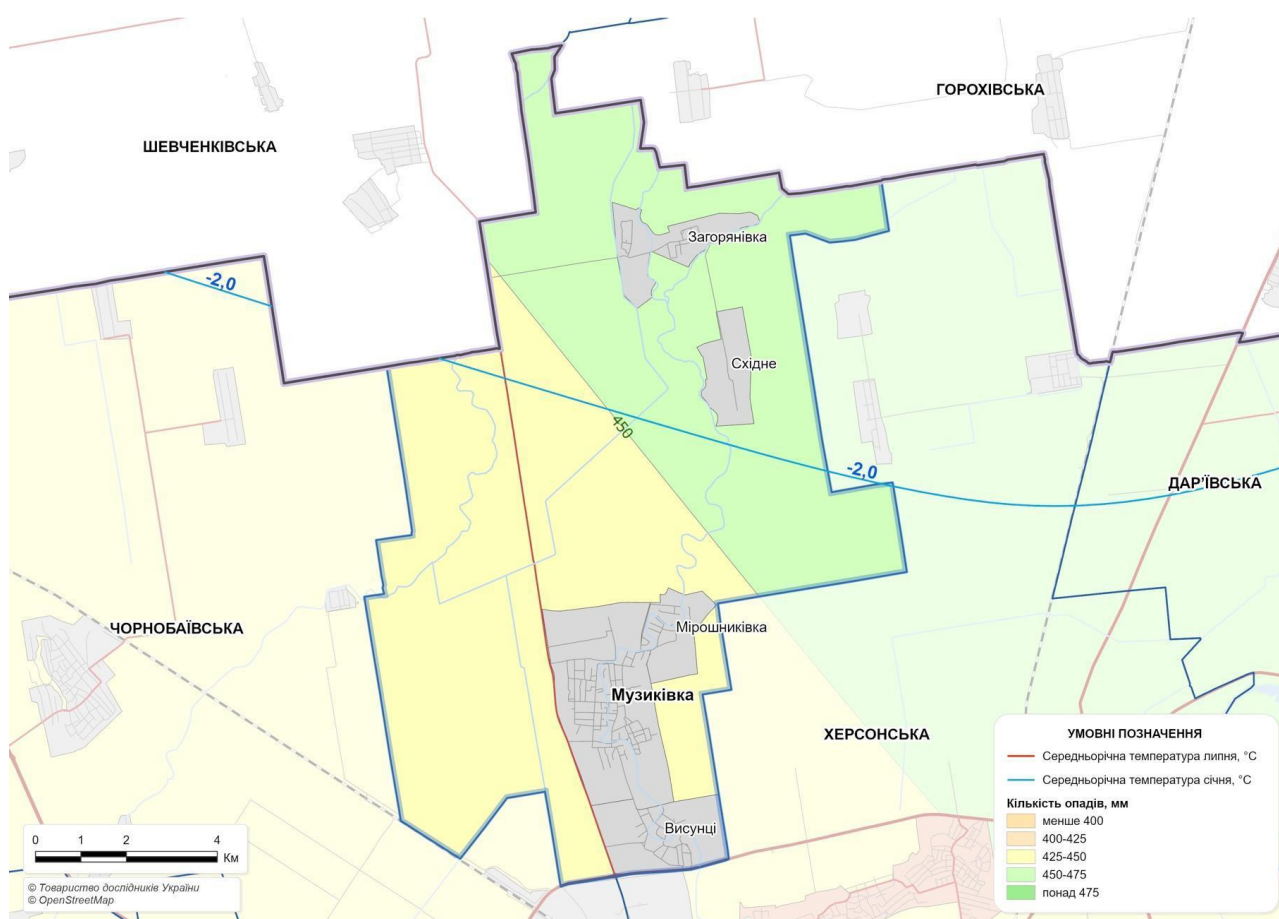


## Muzykivska hromada

### Brief description of the climatic conditions of the hromada

Average annual temperature: +10.1°C. Average January temperature: -2,1°C. Average July temperature: +22.9°C. Average annual rainfall: 450-470 mm. The hromada is located in a very arid, moderately hot agroclimatic zone with mild winters

## Muzykivska hromada CLIMATE MAP



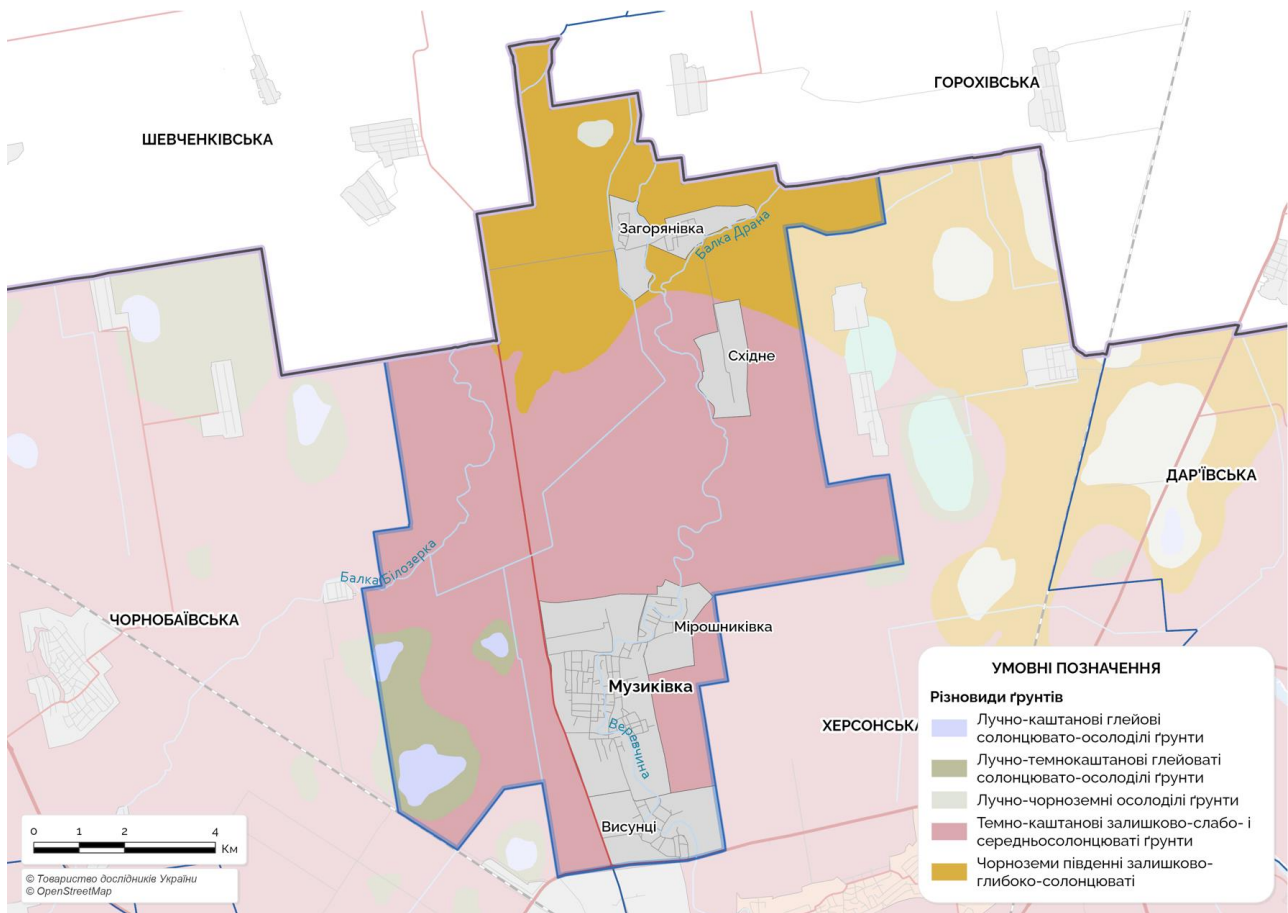
## SOILS

### Muzykivska hromada



|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the vegetation cover of the hromada</b> | <p>The vegetation cover of the hromada is represented by: agrocenoses on the site of forbs–fescue–feather grass steppes and stepped meadows of steppe depressions (102.56 sq.km; 80.86% of the hromada’s area); southern xerophytic steppes dominated by Ukrainian feather grass with participation of hairy aster and yarrow tansy, combined with true and stepped meadows of steppe depressions dominated by steppe couch grass, meadow foxtail, narrowleaf bluegrass, early sedge among others (10.24 sq.km; 8.07% of the hromada’s area); windbreaks with black locust, sessile oak, green ash, boxelder maple, Norway maple, and others (4.34 sq.km; 3.42% of the hromada’s area); ravine oak and oak–ash floodplain broadleaf forests with admixture of field maple, elm, and steppe species (<i>Caragana frutex</i>, blackthorn, <i>Phlomis tuberosa</i>, and others) (0.38 sq.km; 0.3% of the hromada’s area).</p> |
| <b>Brief description of the soil cover of the hromada</b>       | <p>The soil cover of the hromada is represented by: dark kastanozems with residual weak and moderate solonetz properties (89.2 sq.km; 70.31% of the hromada’s area); southern chernozems with residual deep solonetz properties (30.3 sq.km; 23.91%); meadow–dark chestnut gley solonetz–solod soils (5.1 sq.km; 4.01%); meadow– kastanozems gley solonetz–solod soils (1.9 sq.km; 1.46%); meadow–chernozem solod soils (0.4 sq.km; 0.3%).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Muzykivska hromada SOIL COVER MAP



# LANDSCAPES AND VEGETATION

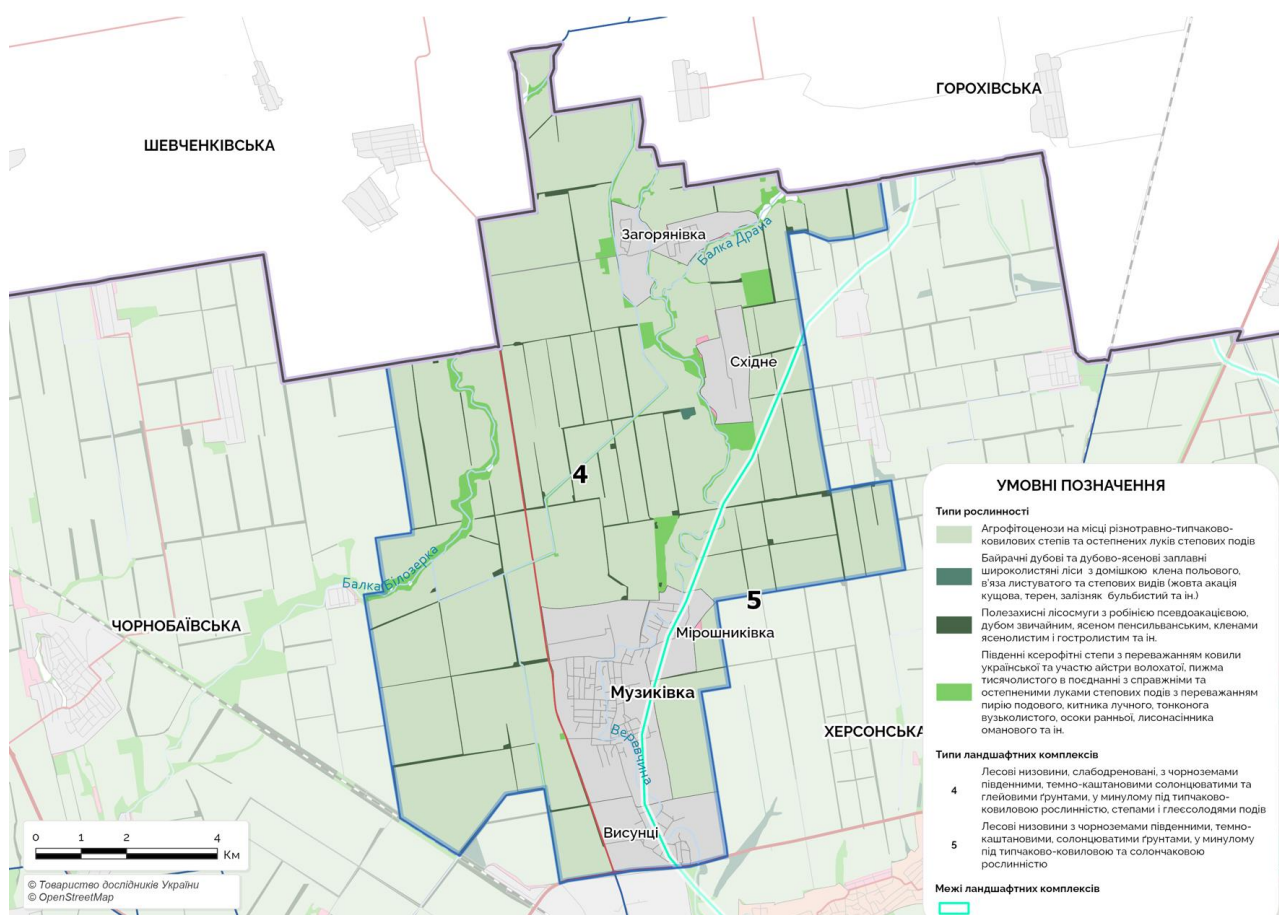
## Muzykivska hromada



### Brief description of the landscape structure of the hromada

The landscape structure of the hromada is represented by: loess lowlands with poor drainage, with southern chernozems, dark kastanozem soils, solonetz and gley soils, formerly under forbs–fescue–feather grass vegetation, steppes, and gley–solod soils of pod-type depressions (106.31 sq.km; 83.77% of the hromada’s area); loess lowlands with southern chernozems, dark kastanozem and solonetz soils, formerly under forbs–fescue–feather grass and salt-tolerant vegetation (20.57 sq.km; 16.21%).

## Muzykivska hromada LANDSCAPE STRUCTURE MAP



# ENVIRONMENTAL STATUS: 2021



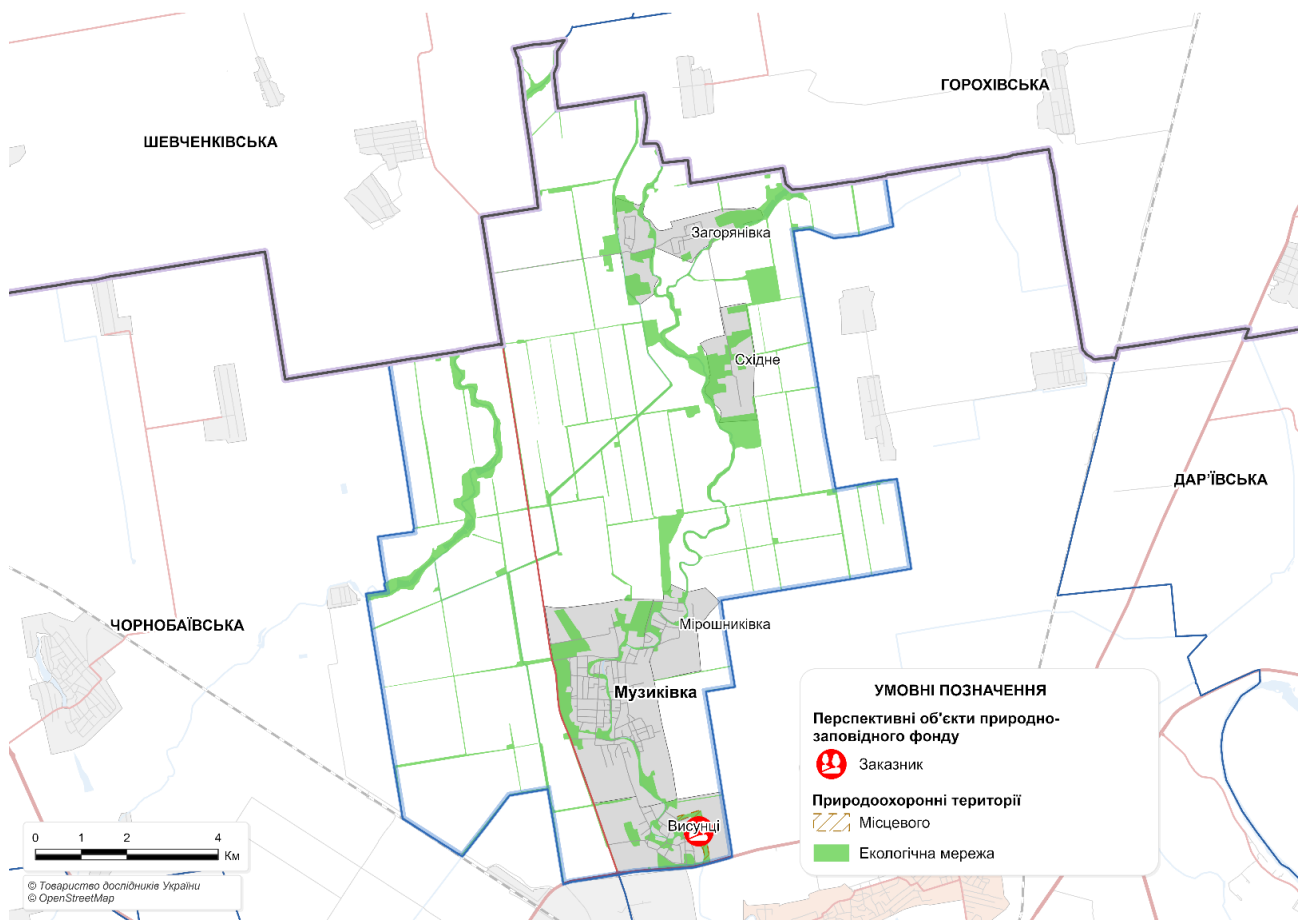
## Muzykivska hromada

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the objects of the nature reserve fund</b>         | There are no active objects of the nature reserve fund on the territory of the hromada                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Brief description of prospective objects of the nature reserve fund</b> | The network of promising objects of the nature reserve fund of local importance on the territory of the hromada is represented by the landscape reserve “Kudykiny Hory” (Source: Moisienko I.I., Khodosovtsev O.E., Pylypenko I.O., Boyko M.F., Malchykova D.S., Klymenko V.M., Ponomaryova A.A., Zakharova M.Y., Darmostuk V.V. Perspective protected objects of the Kherson oblast. Kherson: Helvetica Publishing House, 2020. 166 c. DOI: 10.32782/978-966-992-049-2/1-166).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Brief description of the ecological network</b>                         | <p>The total area of the hromada’s ecological network is 15.39 sq.km (12.14% of the total hromada territory). The ecological network within the hromada includes the following land cover types: meadow-steppe areas (10.33 sq.km; 67.12% of the ecological network); forested areas (0.38 sq.km; 2.47%); areas covered with windbreaks (4.34 sq.km; 28.20%); and inland waters (0.34 sq.km; 2.21%).</p> <p>The ecological network of the hromada features the following types of vegetation cover: southern xerophytic steppes dominated by Ukrainian feather grass and with the participation of hairy aster and yarrow tansy, in combination with true and degraded meadows of pod-type depressions dominated by couch grass of pod zones, meadow brome, narrowleaf bluegrass, early sedge and others (10.24 sq.km; 66.54% of the ecological network); windbreaks with black locust, sessile oak, green ash, boxelder maple, Norway maple, and others (4.34 sq.km; 28.2%); ravine oak and oak–ash floodplain broadleaf forests with admixture of field maple, elm, and steppe species (<i>Caragana frutex</i>, blackthorn, <i>Phlomis tuberosa</i>, etc.) (0.38 sq.km; 2.47%).</p> <p>The landscape structure of the ecological network of the hromada is represented by: loess lowlands with poor drainage, with southern chernozems, dark kastanozem solonetz and gley soils, formerly under forbs–fescue–feather grass vegetation, steppes, and gley–solod soils of pod-type depressions (13.8 sq.km; 89.67% of the hromada); loess lowlands with southern chernozems, dark kastanozem and solonetz soils, formerly under forbs–fescue–feather grass and salt-tolerant vegetation (1.59 sq.km; 10.33%).</p> |

|                                                                                       |                                                                                                                                                       |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the sites (objects) of the Emerald Network of the hromada</b> | There are no Emerald Network sites (facilities) on the hromada's territory                                                                            |
| <b>Brief description of the environmental situation, forest and land resources</b>    | Over the period from 2000 to 2020, the loss of forest plantations in the hromada amounted to 2.2 hectares. Soils in the hromada are moderately eroded |
| <b>Assessment of environmental pollution within hromada</b>                           | There is no information on polluting enterprises in the local hromada                                                                                 |

## Муzykivska hromada

### ECOLOGICAL NETWORK AND POLLUTION MAP



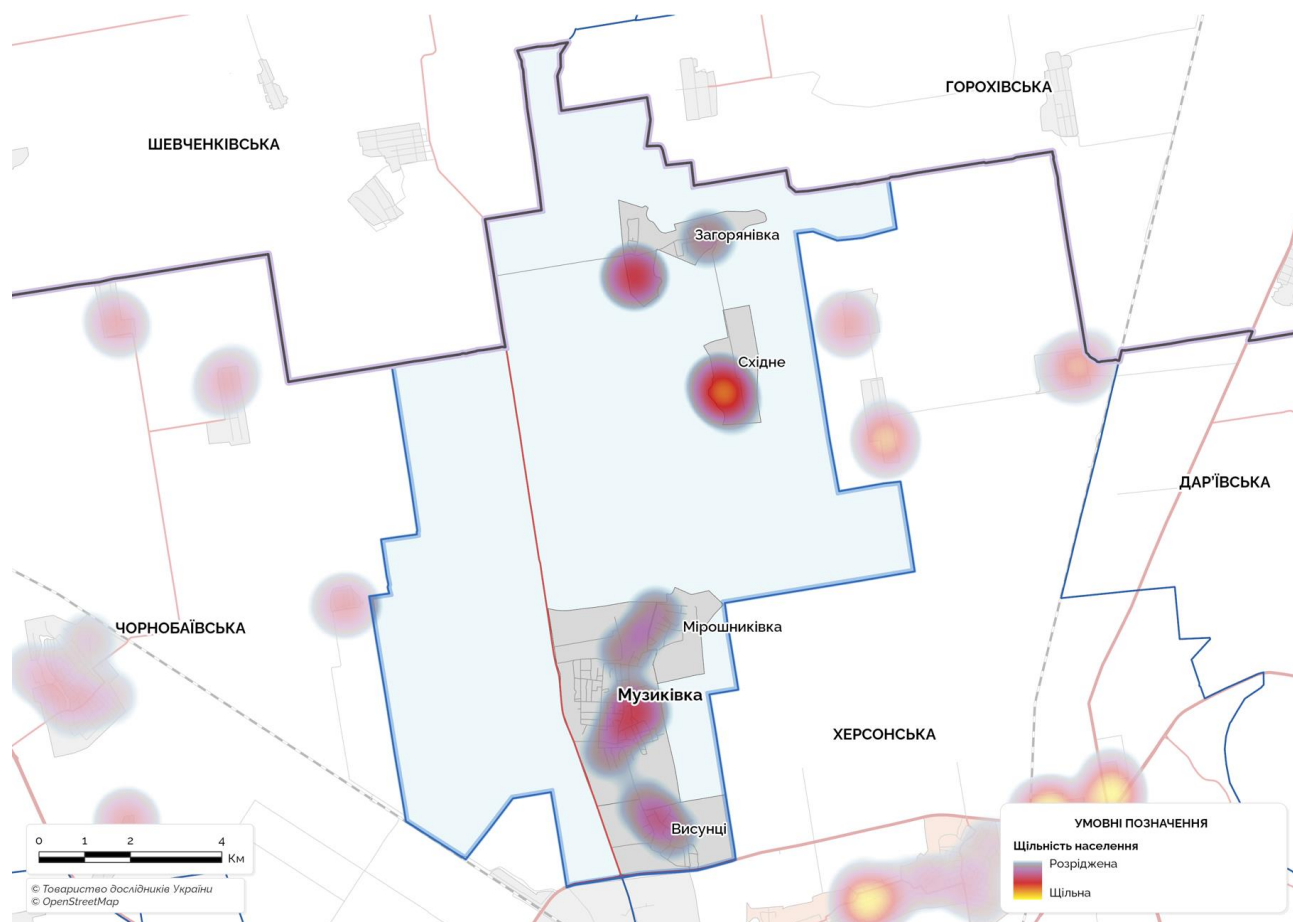
# DEMOGRAPHY OF THE PRE-WAR PERIOD



## Muzykivska hromada

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the demographic potential</b>         | <p>As of January 1, 2022, the population of the Muzykivska hromada amounted to 3652 people living in 5 settlements. The administrative center, the village of Muzykivka, was home to 60% of the hromada's population. It is the smallest hromada in Kherson district, with a population of only 0.8% of the district's population and 0.36% of the population of Kherson oblast in the respective period.</p> <p>At the beginning of 2022, the population density was 29 people per square kilometer, and the density of settlements was 4 per 100 km<sup>2</sup>. The average distance between settlements was 5.0 km, and the average population of a settlement was 730 people.</p> <p>The share of people over the working age is 23.72%, which places the hromada in the group of territorial units with an average share of people of retirement age relative to the average regional parameter. The burden of this age group on persons of working age reaches 401 persons per 1000 persons of working age, which is high. The share of the younger group is 18% of the population, which places the hromada in the group of territorial units with an average indicator. Children form a high demographic burden at the level of 311 per 1000 people of working age. The overall demographic burden is higher than the average for the Kherson oblast and amounts to 711 people per 1000 people of working age</p> |
| <b>Ethnic structure and national artifacts in the hromada</b> | <p>Within the hromada there is a Yezidi ethnic community in Muzykivka village</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Muzykivska hromada POPULATION DENSITY MAP



# IMPACT OF THE WAR ON DEMOGRAPHIC POTENTIAL



## Muzykivska hromada

### The impact of the war on the demographic potential of the hromada

The full-scale invasion and the specific nature of the hostilities on the territory of Muzykivka hromada caused a population decline, which, although significant, looks insignificant against the background of other communities. The total decrease amounted to almost 24% as of April 1, 2023 (compared to the population as of January 1, 2022). The highest rates of decline were recorded in villages: Miroshnykivka -58%, Skhidne - 40%. The population decline in Muzykivka was lower than the hromada average - 15%, and in the village of Vysuntsi the population even increased.

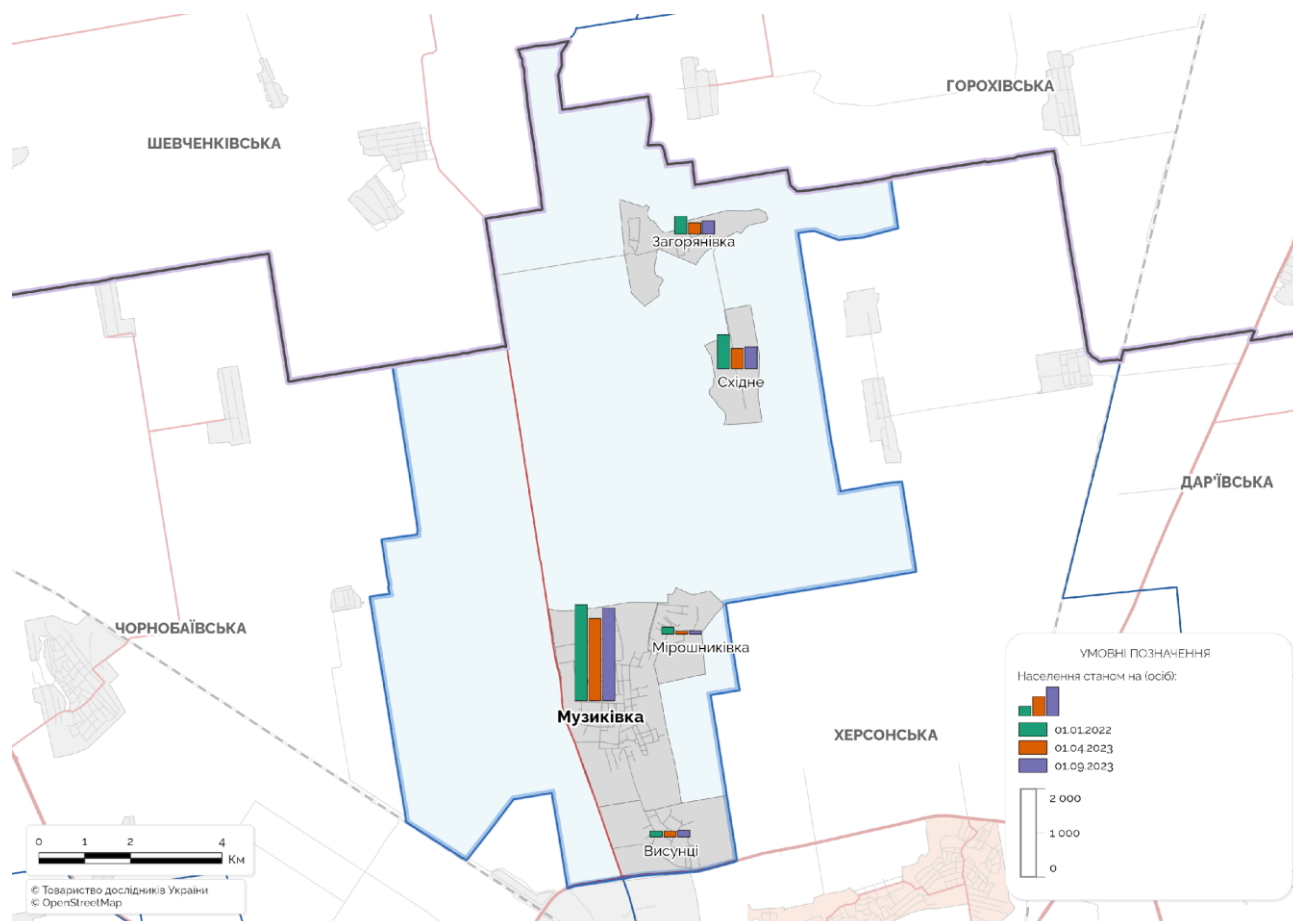
The hromada is characterized by population growth due to the return of citizens. Thus, from April 1, 2023 to January 1, 2025, the population increased by 379 people, or 10.4% of the population as of the beginning of 2022. As of January 1, 2025, the total population amounted to 3,170 people, which is already 86.8% of the population before the full-scale invasion. The village of Muzykivka demonstrates a relatively high rate of population recovery, with a population increase of almost 13% between April 2023 and January 2025.

The uniqueness of the hromada is not only the relatively small loss of population, but also the fact that its age structure almost corresponds to the population structure before the large-scale invasion. The proportion of pensioners is typical for rural areas and amounts to 28.5% of the population. Children under the age of 15 make up more than 15% of the hromada's population, which positively distinguishes the hromada against the background of demographic losses in other de-occupied communities in Kherson Oblast.

As of January 1, 2025, the population density was 25 people per km<sup>2</sup>, with a settlement density of 4 per 100 km<sup>2</sup>. The average distance between settlements is 5 km, and the average population of a settlement was 634 people.

# Muzykivska hromada

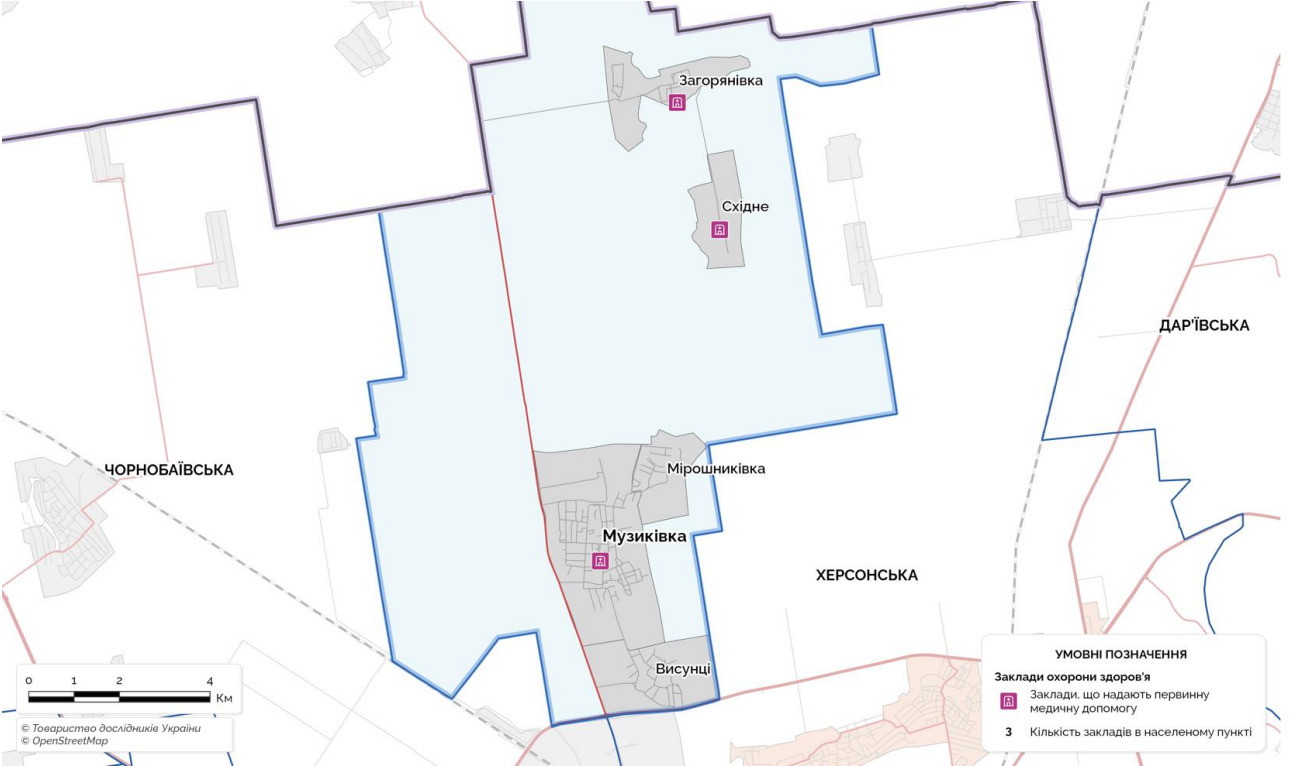
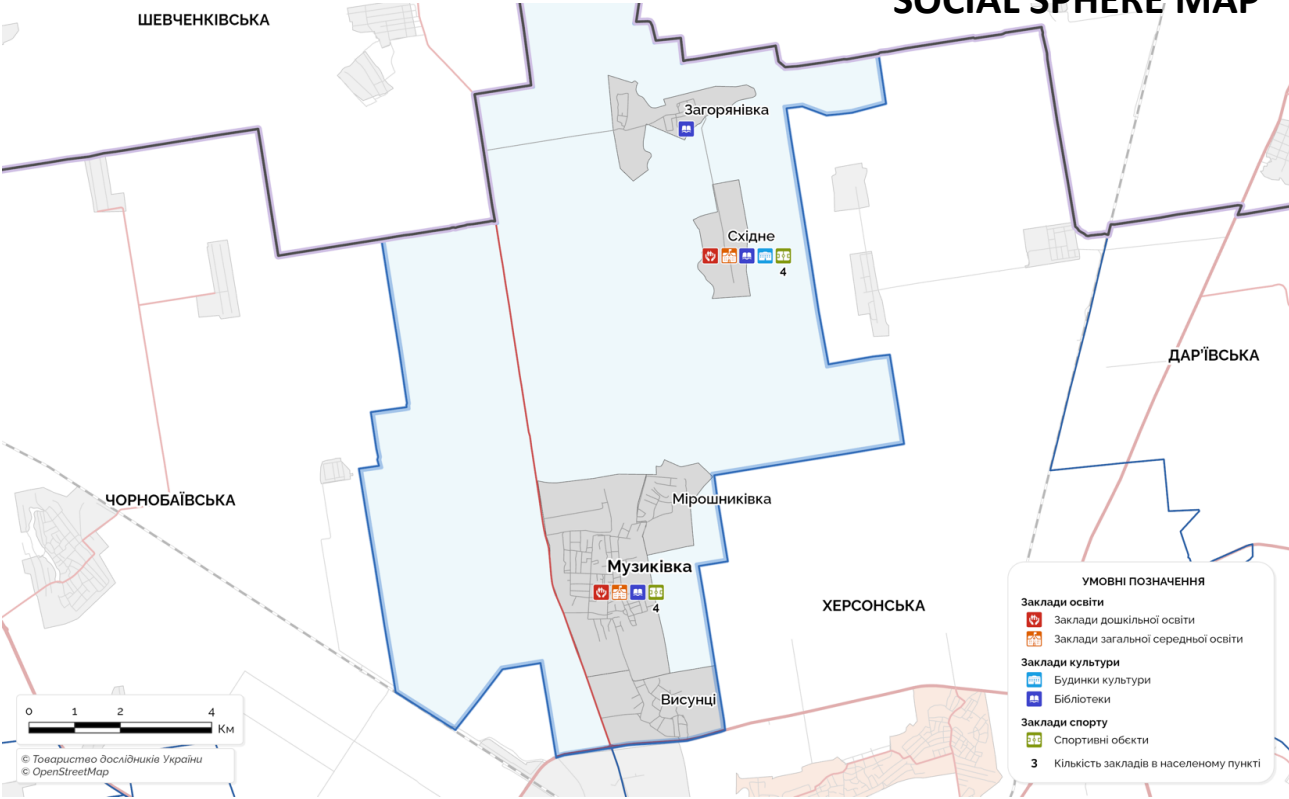
## CHANGES IN THE DEMOGRAPHIC STRUCTURE OF THE POPULATION (2022–2023 yrs.) MAP



## Muzykivska hromada

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of educational institutions</b>     | The network of educational institutions is represented by 2 pre-schools and 2 general education institutions. One of them is of the I-III accreditation level, and one is of the II-III accreditation level. The largest institution has 305 students, the smallest - 130. There are 435 pupils and 56 teachers working in the general secondary education institutions. The average class size in the hromada is 16 pupils per class (the average level of occupancy) and varies from 20.3 to 11.8 in individual institutions. The workload per teacher in the hromada is 7.5 students and varies from 8.2 to 6.8 students per teacher |
| <b>Medical sphere</b>                                    | The healthcare sector of the hromada consists of 1 primary healthcare institution, including 1 primary healthcare institution registered in the ehealth system. Primary healthcare services are provided by 2 doctors with whom 3185 declarations have been concluded, which is 85.69% of the total population of the hromada                                                                                                                                                                                                                                                                                                           |
| <b>Brief description of the social protection sector</b> | There are no social protection institutions and facilities in the hromada. Social protection activities are implemented in the hromada through the departments of the Executive Committee. The development of a sustainable network of social protection institutions and facilities, and the involvement of private commercial and public organizations in the social service system is one of the key tasks for the hromada in the near future. A limiting factor in its implementation is the lack of financial resources from the local budget                                                                                      |
| <b>Brief description of the cultural sector</b>          | The hromada is characterized by a low user load on the only house of culture and three libraries. This limits the prospects for commercialization of some cultural services and, accordingly, increases the burden on the local budget                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Brief description of the sports sector</b>            | The hromada's sports infrastructure is very simple in structure. It consists of 8 facilities - 2 football fields, 2 gyms and 4 sports grounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

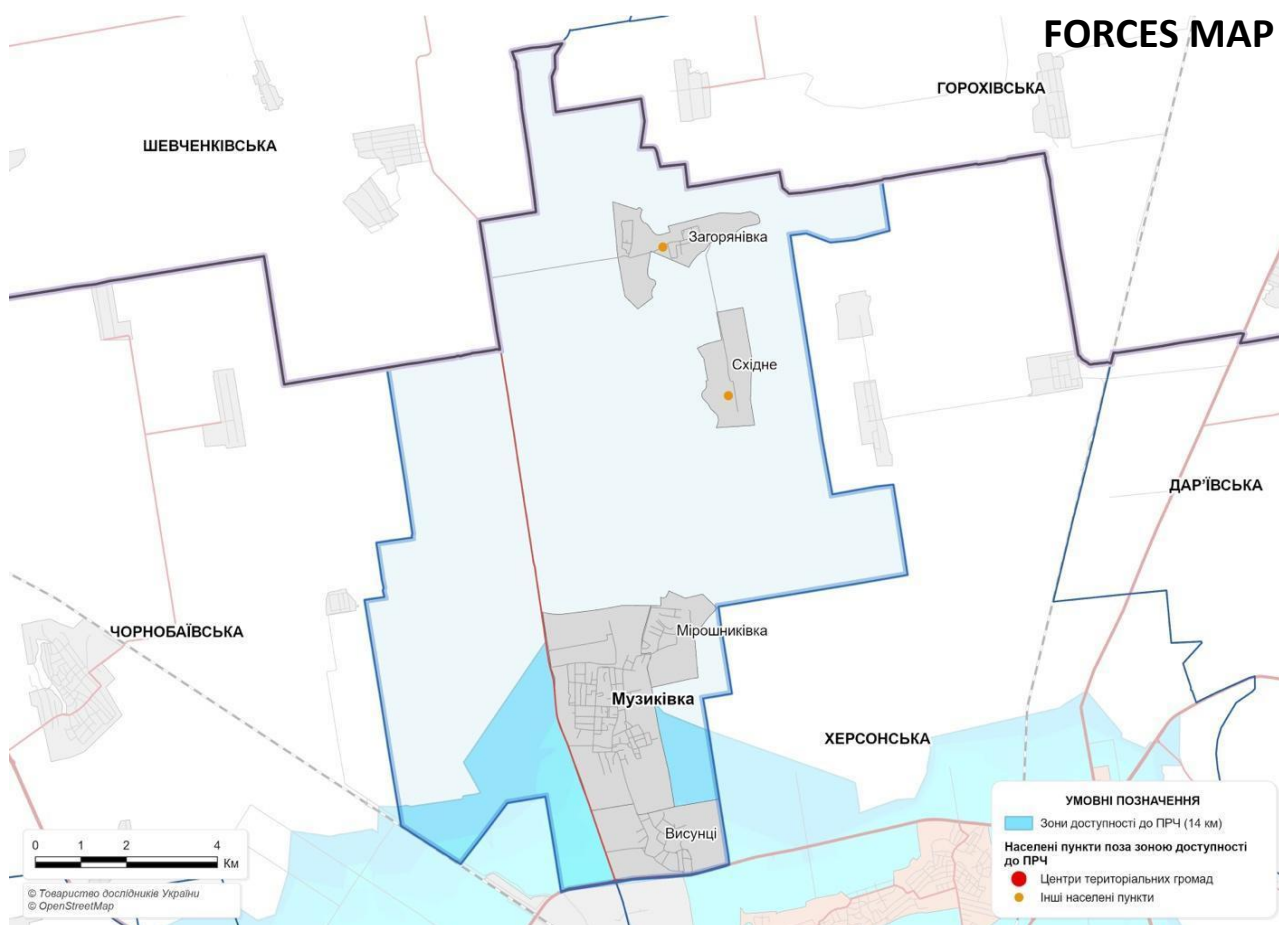
Muzykivska hromada  
SOCIAL SPHERE MAP



## Muzykivska hromada

|                                                               |                                                                                                                                                                               |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of fire safety in the hromada</b>        | A subdivision of the local government was established within the hromada on the basis of Muzykivske Municipal Enterprise                                                      |
| <b>General level of technogenic safety of the hromada</b>     | Low level of organization of emergency response with low potential for man-made hazards in the hromada. The hromada needs to increase the number of emergency response forces |
| <b>Brief description of technogenic safety in the hromada</b> | There are no emergency response units within the hromada, but there is one man-made hazardous facility on the territory of the hromada - a fire and explosion hazard.         |

## Muzykivska hromada EMERGENCY RESPONSE FORCES MAP



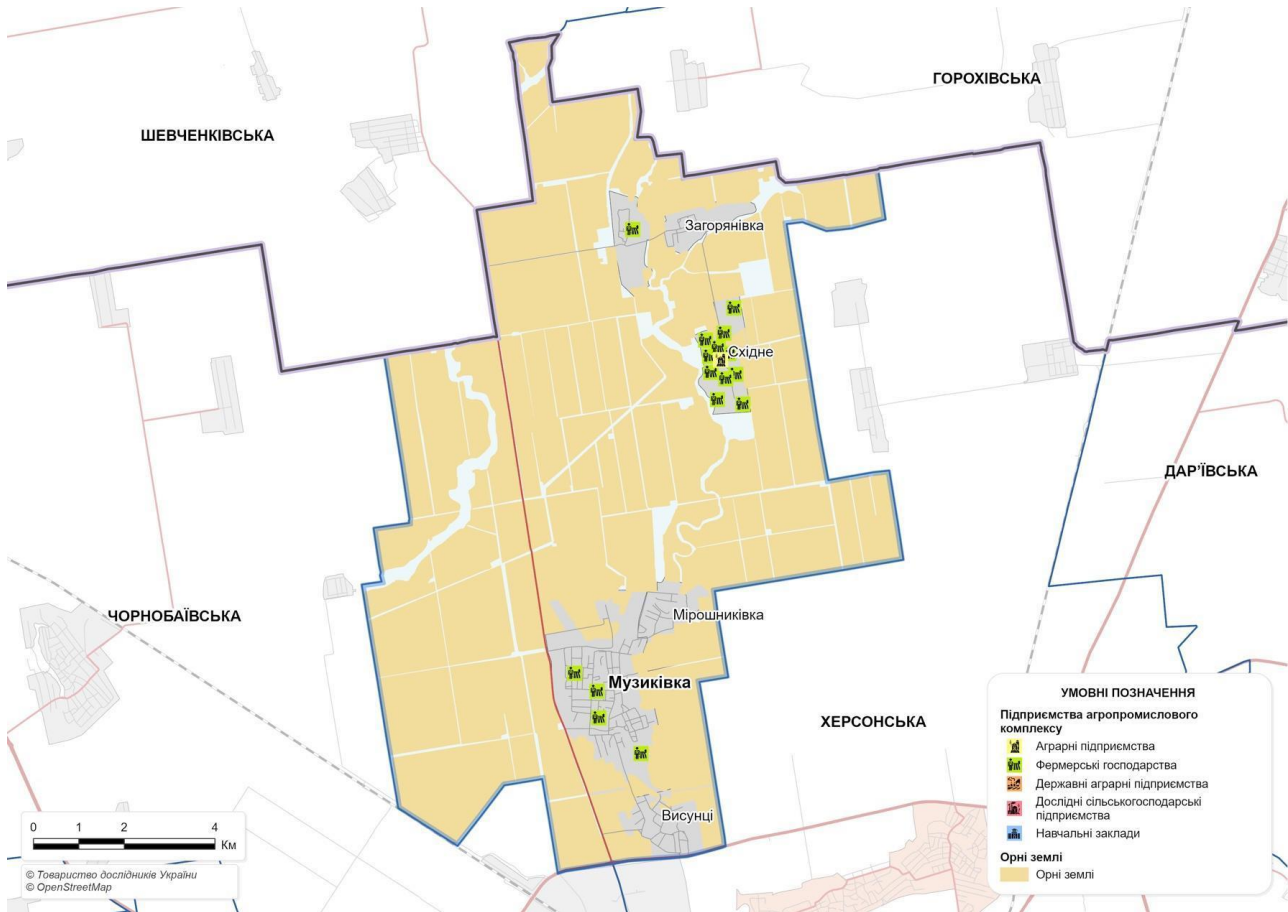
# ECONOMIC DEVELOPMENT IN PEACETIME



## Muzykivska hromada

|                                                                   |                                                                                                                                                                                                                    |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the industrial development of hromada</b> | There is one industrial enterprise within the hromada, private enterprise "TIN SERVICE"                                                                                                                            |
| <b>Brief description of the energy complex of hromada</b>         | There are three power plants within the hromada: two solar power plants (Muzykivska site, Phase 1.2) and one biogas power plant (Skhidnenska Biogas Power Plant) with a total capacity of 5.2 MW.                  |
| <b>Brief description of the agricultural sector</b>               | Within the hromada, 25 agricultural enterprises are registered, including 1 agricultural enterprise and 24 farms                                                                                                   |
| <b>Preferred specialization in crop production</b>                | Sunflower, wheat, spring barley, millet, vegetable production                                                                                                                                                      |
| <b>Predominant specialization in livestock farming</b>            | Missing                                                                                                                                                                                                            |
| <b>Brief description of investment-attractive areas</b>           | There are 13 investment-attractive territories within the hromada, 5 of which are Greenfield and 8 Brownfield for the potential location of agricultural facilities. The total area of the plots is 65.3 hectares. |

## Muzykivska hromada AGRICULTURAL INDUSTRY MAP



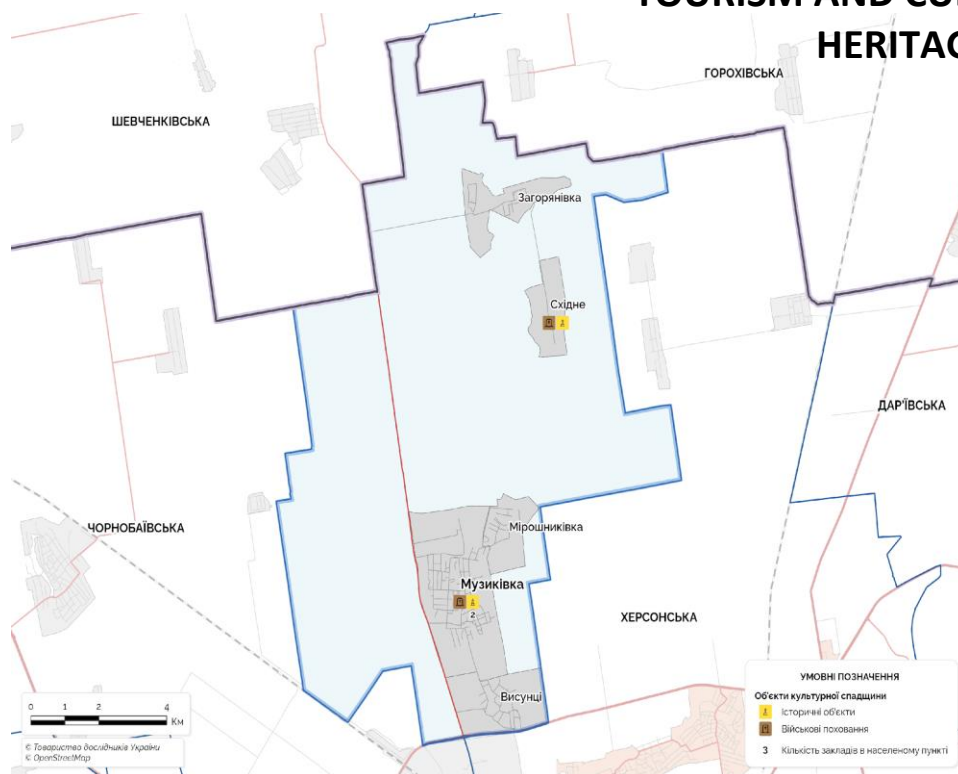
# CULTURAL HERITAGE AND PEACETIME TOURISM ACTIVITIES



## Muzykivska hromada

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Total number of cultural heritage sites</b>                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Brief description of cultural heritage in the hromada</b>        | <p>There are 2 military burials within the Muzykivka hromada, namely: The mass grave of the Red Army soldiers (Muzykivka village) and the mass grave of the Red Army soldiers (Skhidne village).</p> <p>There are 3 historical sites in the hromada: A memorial sign in honor of the soldiers-liberators - a T-34 tank (Muzykivka village), a monument in honor of the soldiers of the Red Army and fellow villagers (Muzykivka village), a monument in honor of fellow villagers (Skhidne village).</p> <p>The tourist infrastructure in the hromada is underdeveloped.</p> |
| <b>Tourist routes that run through the territory of the hromada</b> | Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Muzykivska hromada TOURISM AND CULTURAL HERITAGE MAP



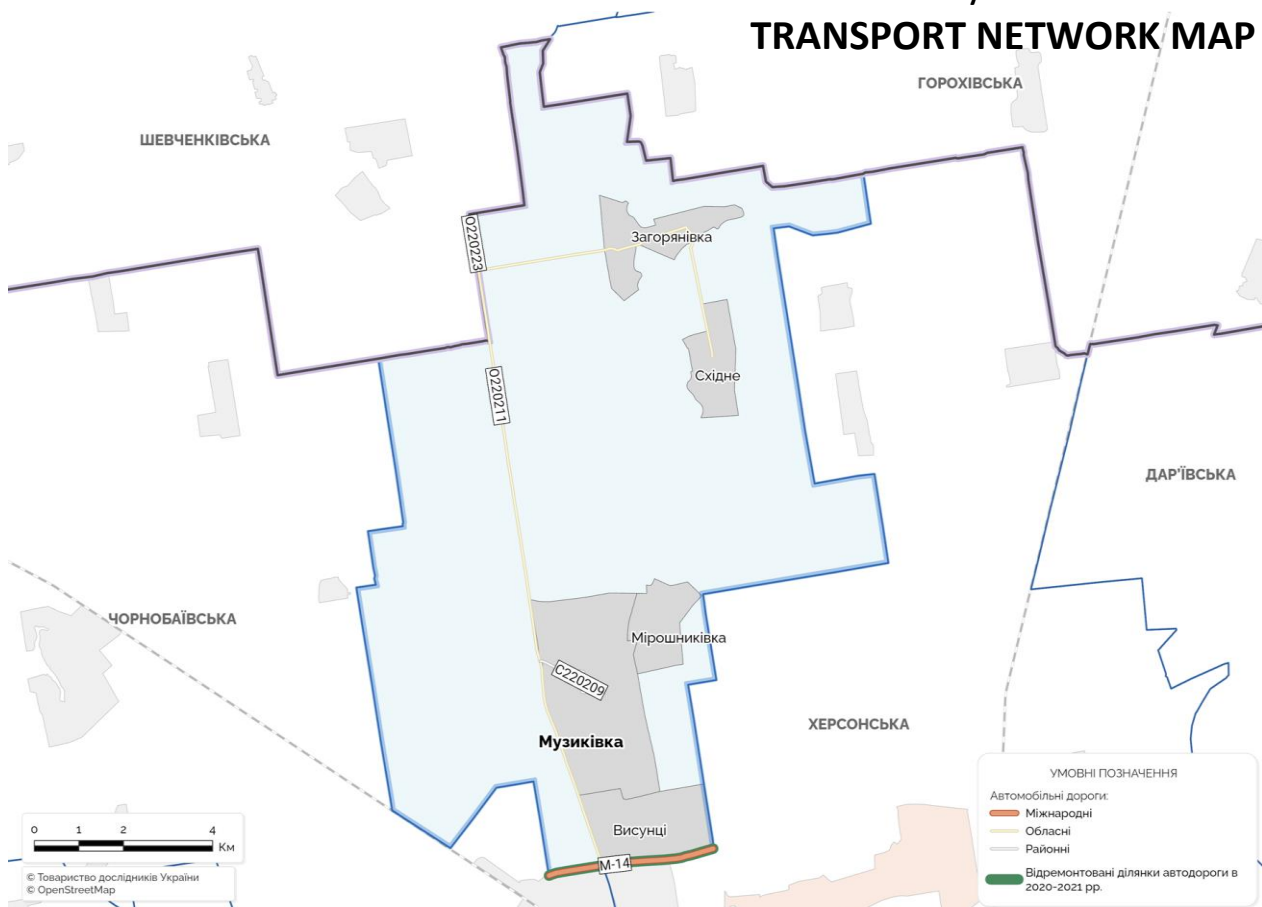
# TRANSPORTATION INFRASTRUCTURE: 2021



## Muzykivska hromada

|                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brief description of the road network</b>                                            | The total length of roads of state and local importance in the hromada is about 41 km, thus the density of roads in the hromada is 0.326 km/sq. km (average for the oblast). Roads of regional (80%) and international importance (13%) have the longest length within the hromada. During 2020-2021, 12.49 km of roads of state and local importance were repaired in the hromada, which is 30.3% of their total length in the hromada |
| <b>Brief description of the availability of bus passenger transportation in hromada</b> | Three out of five (60%) settlements in the territorial community have regular bus service (including the center of the territorial community), which accounts for 87% of the population of the territorial community. Three intra-regional bus routes and three transit routes from Kherson pass through the territory of the hromada.                                                                                                  |

## Muzykivska hromada TRANSPORT NETWORK MAP



# SPATIAL DEVELOPMENT OF THE TERRITORY: 2021

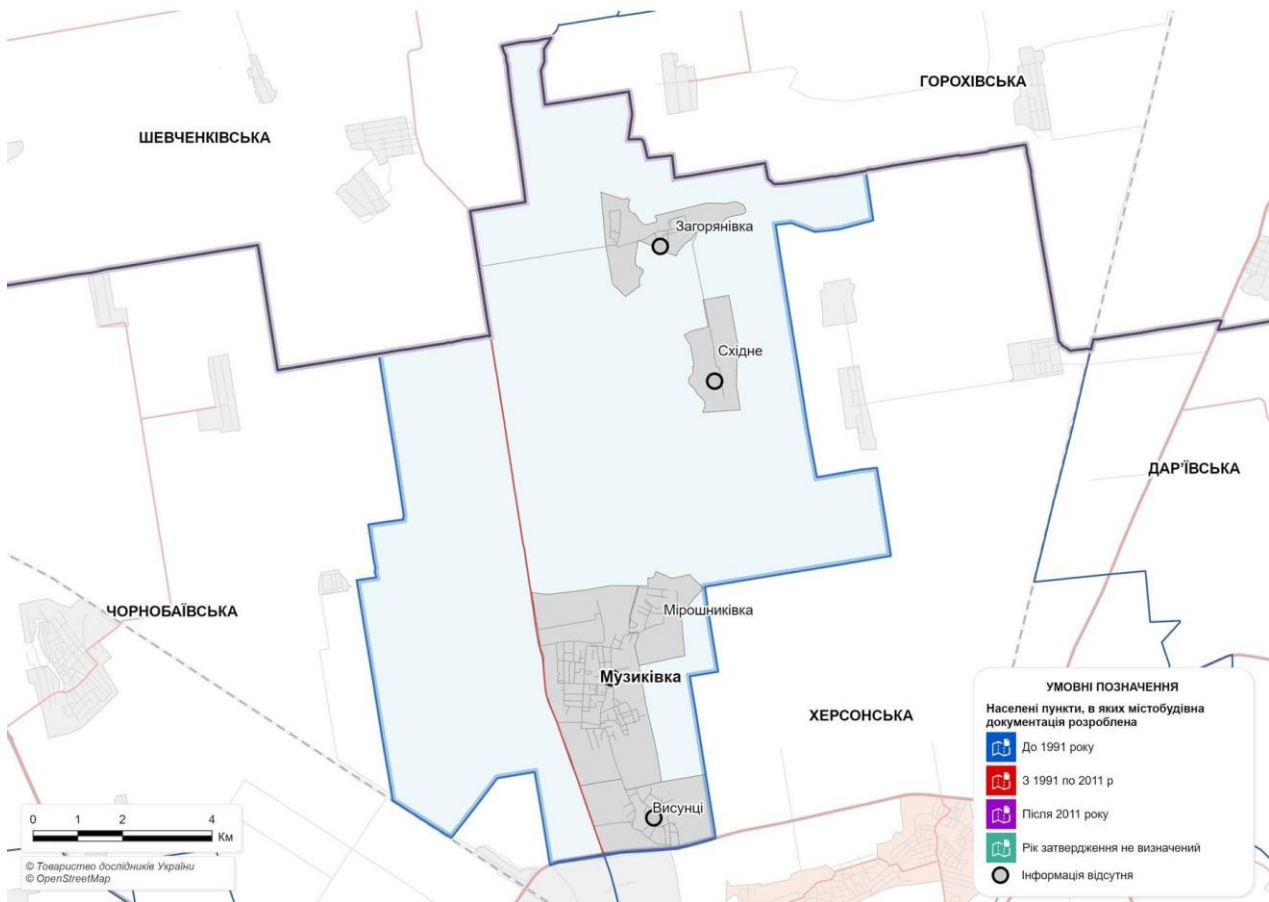


## Muzykivska hromada

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Current state of approval of urban planning documentation (UDP) in hromada</b> | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Evaluation of the approved UDP in hromada</b>                                  | There is no publicly available data on the hromada's UDP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Brief description of the housing stock</b>                                     | The total estimated area of residential premises in the hromada is 185.6 thousand square meters, the total provision of housing in the hromada is 50.3 square meters per person. The estimated number of apartments/residential estates is 2914 units, the provision of apartments/residential estates per 1 person in the hromada is 0.79. In general, the hromada has a high level of housing provision                                                                                                                                                                                                                   |
| <b>Brief description of urban development</b>                                     | The settlement network of the hromada consists of 4 villages with a population of 3693 thousand people. The total area of built-up territories within the hromada is 8.91 square kilometers, the area of settlements is 10.629 square kilometers. The area of residential development outside the settlements is 0.011 square kilometers, which is 0.10% of the total area of settlements in the hromada. In general, the hromada has an above-average level of urban development of the territory, and the potential for urban development of the territory of the hromada can be characterized as a low level of increase |

# Muzykivska hromada

## SPATIAL DEVELOPMENT MAP



# CONSEQUENCES OF THE WAR AND POST-WAR DEVELOPMENT STRATEGY

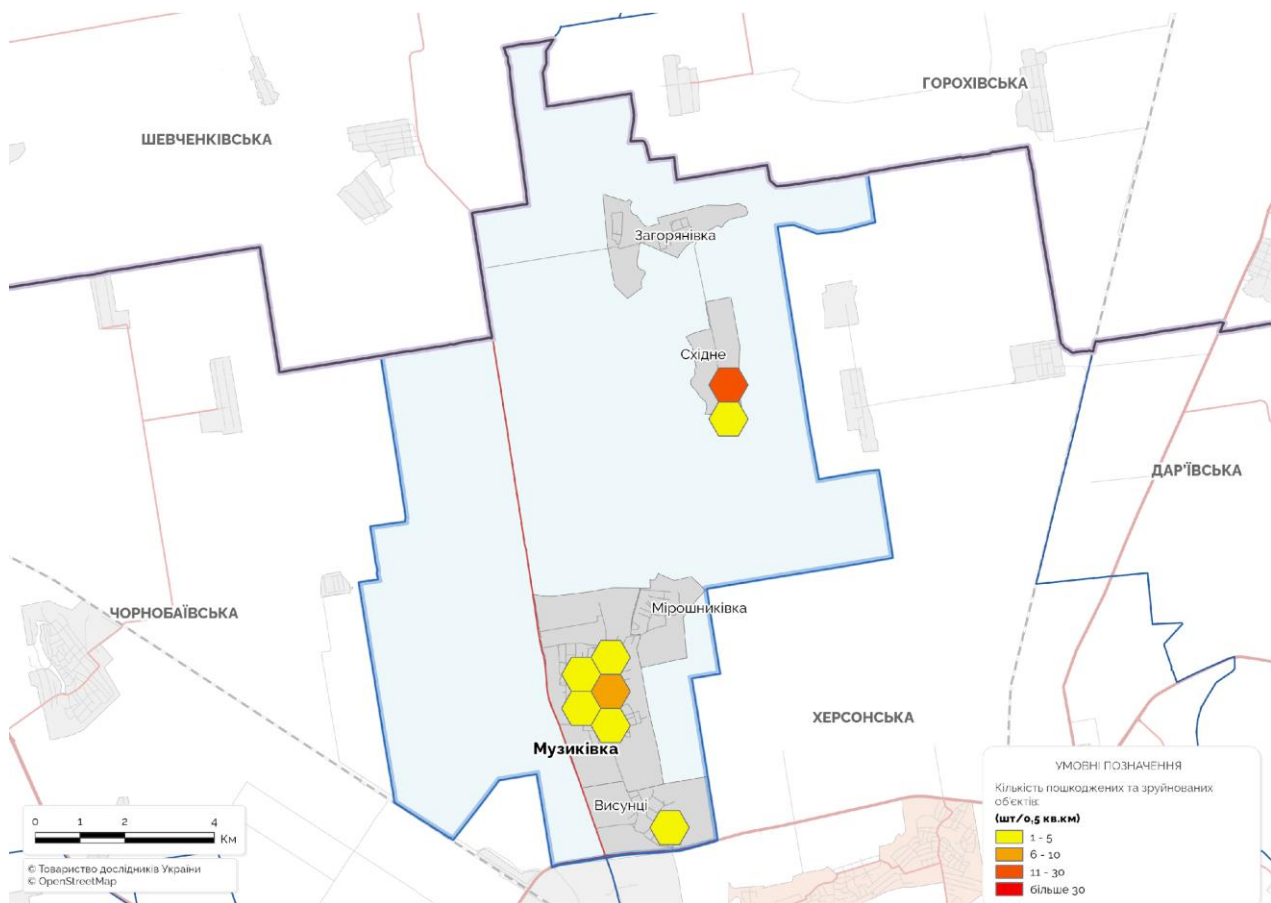


## Muzykivska hromada

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Period of temporary occupation by Russian troops</b> | Muzykivska hromada was under occupation from March 01 to November 11, 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Consequences of the military invasion of Russia</b>  | <p>After the de-occupation, the entire territory of the hromada remains a territory of possible hostilities. Russia's military aggression within the Muzykivska hromada caused the destruction of housing and infrastructure, human casualties and social losses. The scale of war damage within the Muzykivka hromada compared to other de-occupied communities is significantly smaller - in the hromada as a whole, 30 damaged objects were recorded from the beginning of the large-scale invasion to September 2023, which was less than 1% of the total number of recorded damages in the de-occupied territories during this period.</p> <p>The vast majority of damage - 96.7% - was caused by ammunition, and 3.3% by other actions of Russian troops. In total, within the hromada, destruction was recorded in 3 out of 5 settlements, except for the villages of Miroshnykivka and Zahorianivka. Twenty-eight private households and two objects of communal and social infrastructure were damaged, including the Muzykivka Outpatient Clinic of General Practice of Family Medicine. Private households in Skhidne and Muzykivka suffered the most, with 87% of the damaged facilities located there.</p> <p>Such a relatively low degree of damage to residential, social and communal infrastructure had a positive impact (compared to other de-occupied territorial communities) on the demographic situation of the Muzykivka hromada. As of September 2023, the hromada had 85% of the pre-war population, and in January 2025 - almost 87%. The administrative center of the hromada, Muzykivka village, has hardly changed its the pre-war population (98.5% of the pre-war population as of 01.01.2025), and Vysuntsi village even showed an increase in population (110%) due to internal displacement. All settlements of the hromada, without exception, showed positive population dynamics in the period from April to September 2023 - from 5 to 15%. But the most positive phenomenon is that the age structure has not changed very significantly compared to the pre-war period - on average, as of January 01, 2025, the share of children and adolescents in the hromada is 15.3%, the working population - 56.2%, and people over the working age - 28.5%.</p> |

It is also interesting to note that the settlements that were not destroyed by shelling or other actions of Russian troops in the Muzykivka hromada show worse demographic trends. In particular, in the village of Miroshnykivka, the existing population as of the beginning of 2025 is only 52% of the pre-war number, and in the village of Zahorianivka - 72%. These are signs of demographic losses from the hostilities that are still difficult to fully assess.

## Muzykivska hromada DESTRUCTION OF CIVIL INFRASTRUCTURE FACILITIES (2022–2023 yrs.) MAP



## **Postwar recovery**

After the de-occupation of the hromada, despite the difficult security situation, the restoration of critical infrastructure began. In total, 2 reconstruction projects have been launched in the hromada with a total amount of UAH 39 million in the education sector, including

- overhaul of the protective structure located in the municipal institution “Muzykivka Support Lyceum of the Muzykivka Village Council of the Kherson District of the Kherson Region”;
- A project for the construction of a protective structure at the Skhidne Lyceum in the village of Skhidne has been developed;

Other projects that will contribute to the restoration of the hromada include

- construction of an industrial park (economic activity in the processing industry) outside the village of Miroshnykivka
- construction of a cannery (processing of vegetables and production of canned food) and an enterprise for growing environmentally friendly seedlings “in vitro” in Muzykivka village;
- construction of a 400-seat hromada center in Muzykivka village.

Despite the relatively positive demographic trends and the absence of large-scale destruction in the Muzykivka hromada, the long-term post-war development strategy should also include:

- 1) preservation and restoration of human potential, return of people who have gone abroad and internally displaced persons;
- 2) restoration of the hromada's economy as a whole and stable growth of the hromada's competitiveness;
- 3) creation of jobs and permanent sources of income generation, encouragement of programs to support and develop entrepreneurship;
- 4) development of the system of social services provision, taking into account new needs, new social categories and specifics of the demographic structure of the population;
- 5) eliminating the consequences of environmental transformation as a result of hostilities;
- 6) reconstruction of settlements, taking into account: the real needs of people, landscape features of the hromada territory, principles of environmental friendliness and aesthetics.

Educational edition

**Muzykivska hromada and wartime challenges.  
Atlas of conditions and resources**

Edited by Pavlo Ostapenko and Daria Malchykova

Atlas

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ГІС-портал  
Херсонської  
області



|                                                         |                                      |                                             |                                             |                                                         |                                  |                                                    |
|---------------------------------------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------------------|----------------------------------|----------------------------------------------------|
| СИМВОЛІКА ТА АТУ<br>                                    | ІСТОРІЯ<br>                          | ГЕОЛОГІЧНА БУДОВА І<br>КОРИСНІ КОПАЛИНИ<br> | ГЕОМОРФОЛОГІЧНА<br>КАРТА<br>                | КРУТИЗНА СХИЛІВ<br>                                     | КЛІМАТ<br>                       | ЛАНДШАФТИ<br>                                      |
| ОСВІТА<br>                                              | ГЕОГРАФІЧНЕ<br>ПОЛОЖЕННЯ<br>         | ПІКСОМЕТРИЧНА<br>КАРТА<br>                  | ВЕРТИКАЛЬНЕ<br>РОЗЧЛЕНУВАННЯ<br>РЕЛЬЄФУ<br> | РОСЛИННІСТЬ<br>                                         | ГРУНТИ<br>                       | ВИКОРИСТАННЯ<br>ТЕРИТОРІЇ<br>(ЗА ТИПАМИ)<br>       |
| МЕДИЦИНА<br>                                            | СОЦІАЛЬНИЙ ЗАХИСТ<br>                | КУЛЬТУРА<br>                                | СПОРТ<br>                                   | ЦЕНТРИ БЕЗПЕКИ ТА<br>ПОЖЕЖНО-<br>РЯТУВАЛЬНІ ЧАСТИНИ<br> | НАЦІОНАЛЬНА<br>ПОЛІЦІЯ<br>       | ОБ'ЄКТИ<br>ПІДВИЩЕНОЇ<br>ТЕХНОГЕНОЇ<br>БЕЗПЕКИ<br> |
| ЗАЛІЗНИЦЯ<br>                                           | ЖИТЛОВИЙ ФОНД<br>                    | ГЕНЕРАЛЬНІ ПЛАНИ<br>НАСЕЛЕНИХ ПУНКТІВ<br>   | МІСЦЕБУДІВНЕ<br>ОСВОЄННЯ ТЕРИТОРІЇ<br>      | МІСЦЕВЕ<br>САМОВРЯДУВАННЯ<br>                           | ЦНАП<br>                         | ЗАГАЛЬНІ СУДИ ТА<br>ПРОКУРАТУРА<br>                |
| ПАСАЖИРСЬКІ<br>ПЕРЕВЕЗЕННЯ<br>                          | МЕРЕЖА<br>АВТОМОБІЛЬНИХ<br>ДОРІГ<br> | ТУРИСТИЧНІ МІСЦЯ<br>ТА МАРШРУТИ<br>         | КУЛЬТУРНА<br>СПАДЩИНА<br>                   | СФЕРА ГОСТИННОСТІ<br>                                   | НАДАВАНІ ПУБЛІЧНИХ<br>ПОСЛУГ<br> | ВИКОНАВЧА ВЛАДА<br>                                |
| РІЧКОВА ТА МОРСЬКА<br>ТРАНСПОРТНА<br>ІНФРАСТРУКТУРА<br> | ПРИРОДНО-<br>ЗАПОВІДНИЙ ФОНД<br>     | СТАЦІОНАРНІ<br>ДЖЕРЕЛА<br>ЗАБРУДНЕННЯ<br>   | ЗАЙНЯТІСТЬ ТА<br>ТРУДОВІ РЕСУРСИ<br>        | ІНВЕСТИЦІЙНО-<br>ПРИВАБЛИВІ<br>ТЕРИТОРІЇ<br>            | ЕЛЕКТРОЕНЕРГЕТИКА<br>            | ПРОМИСЛОВІСТЬ<br>                                  |