



CONCEPT FOR THE DEVELOPMENT OF SMALL RIVERS OF VINNYTSIA UNTIL 2035





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The short version of the Concept for the Development of Small Rivers does not contain any analytical blocks, but only a list of the main theses and conclusions from the full version of the document for discussion and further revisions, namely:

- I. Description of the document
- II. Project vision
- III. Principles and recommendations for dealing with small rivers
- IV. Project proposals
- V. Suggestions for necessary researches
- VI. Additional maps of small rivers and their surroundings
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WHAT KIND OF DOCUMENT IS THIS?



I. WHAT KIND OF DOCUMENT IS THIS?

The Concept for the Development of Small Rivers of Vinnytsia until 2035 is a guide to sustainable management of the city's small rivers for a healthy urban ecosystem, created for local self-government bodies, entrepreneurs, investors, infrastructure project implementers, and active residents.

The concept reinforces and details the existing long-term strategic documents of the city, such as:

Vinnytsia Integrated Development Concept until 2030

Vinnytsia City Territorial Community Development Strategy until 2030

Roadmap of measures for the implementation of Vinnytsia Green Deal until 2030



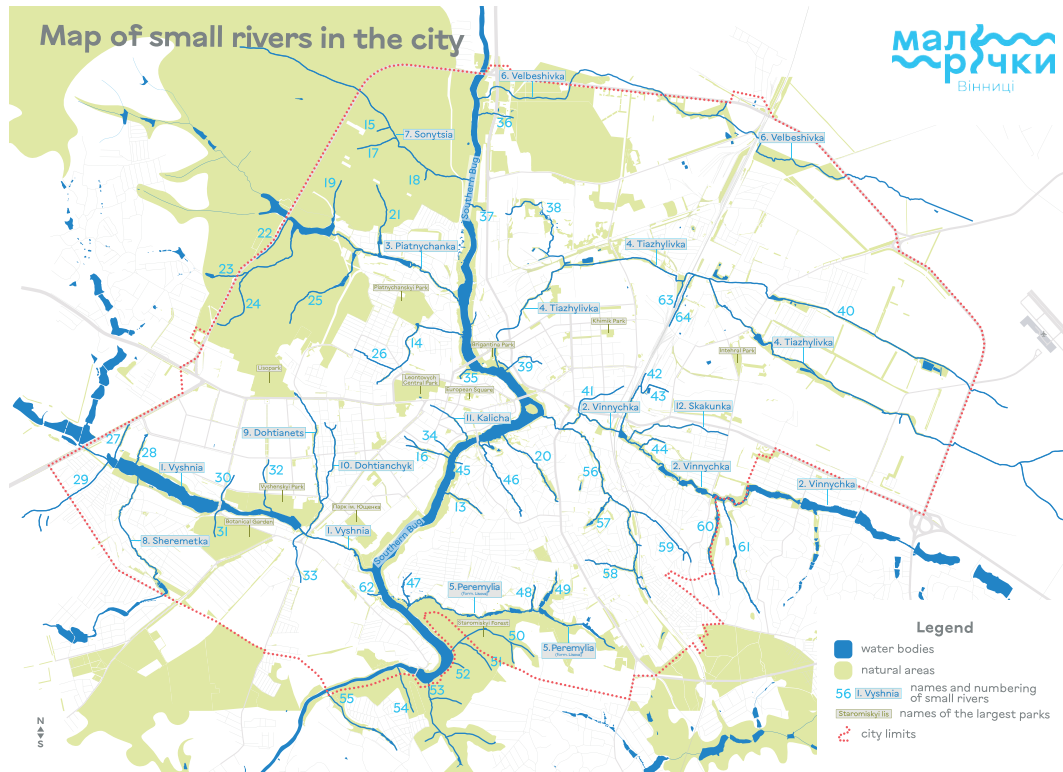


I. WHAT KIND OF DOCUMENT IS THIS?

The document is based on the following studies:

- Scientific report “On the results of the first stage of the research work “Environment protection services (development of a local eco-network scheme for Vinnytsia)”
- Hydrological and laboratory study of the river Dohtianets by specialists of the Pivdennyi Buh River Basin Water Resources Management
- Spatial surveys and analysis of small rivers in Vinnytsia by specialists of the Institute of Urban Development
- Public opinion research on small rivers of Vinnytsia by specialists of the Institute of Urban Development– questionnaires and interviews of residents, workshops during events
- Pre-project study for the elaboration of the coastal development concept “Alley 12.7 km”
- Research of the impact of climate change on the “Alley 12.7 km” project area in Vinnytsia
- Involvement of international experts as part of cooperation with the Connective Cities city network.

The Concept for the Development of Small Rivers of Vinnytsia until 2035 proclaims and approves the existence of 64 small rivers in the city, as shown in the map below. All approaches, principles and recommendations are equally applicable to each of the identified small rivers.



1. Vyshnia
2. Vinnychka
3. Piatnychanka
4. Tiazhylivka
5. Peremylia (former name – Lisova)
6. Velbeshivka
7. Sonytsia (Sunytsia, Sonna, Sonia)
8. Sheremetka
9. Dohtianets
10. Dohtianchyk
11. Kalicha
12. Skakunka
- 13 – 64. Nameless rivers

PROJECT VISION



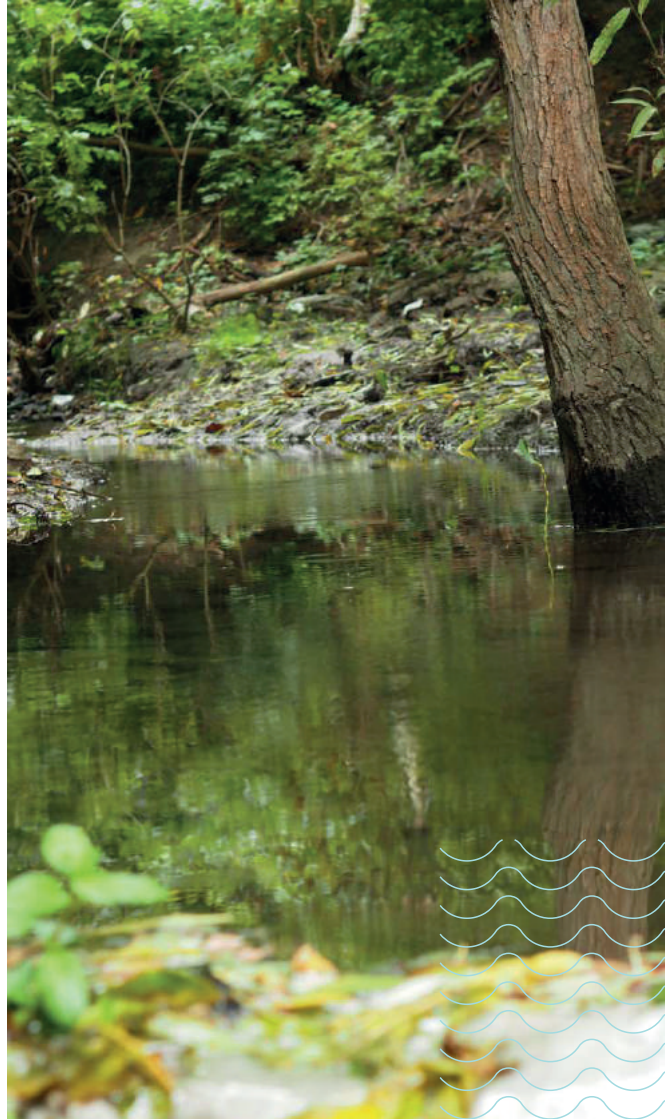


II. PROJECT VISION

The Concept formulates and records this long-term vision of the future desired state of the city's small rivers:

The small rivers of Vinnytsia are a continuous network of blue-green corridors and spaces for people, water, flora and fauna.

This means that all future plans, projects, and actions should contribute to and bring the urban river ecosystem closer to a satisfactory water condition, preservation of local biodiversity, and the creation of accessible, safe, and inclusive spaces on the banks.





To achieve the vision, the project was divided into 4 key aspects – **ECOLOGY, PEOPLE, SPACE, CITY** – which are also the main sections of the Concept.

ECOLOGY – understanding and awareness of small rivers as an ecosystem with specific characteristics, values and needs. Discovering the natural potential of small rivers for the city and formulating recommendations on how to act to preserve the natural state of water bodies.

PEOPLE – analysis of the human impact on small rivers, realisation that the state of small rivers reflects the behaviour of the people around them, and recommendations on how to increase the value of small rivers for people in the city.

SPACE – a tool for forming new connections between people and nature, as well as recommendations on what spaces on small rivers should look like, what functions they can perform, and how they can change or influence people's behaviour.

CITY – how the city, i.e. self-government bodies, can organise processes and projects to achieve a specific project vision.

PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS





III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS

Analysing the researches, characteristics, conflicts and potentials of each of the four blocks, the following basic principles for approaches to working with small rivers in the city were identified:

I. ECO

- Elimination of pollution sources
- Ensuring free-flowing channel
- Natural state of the banks: relief, soil and vegetation
- Protection of local biodiversity

II. PEOPLE

- Awareness of the existence, problems and potentials of small rivers by city residents;
- Increasing the value of water bodies for Vinnytsia residents and fostering responsibility;
- Encouraging conscious citizens to use these spaces.

III. SPACE

- Providing the necessary space for the river
- Permanent bank maintenance and improvement
- Accessibility to the riverbed
- Passability along the riverbed and restoration of the river network in space
- Use of participatory practices

IV. CITY

- Ensure transparent communication of all involved structural units in decision-making processes
Follow the principles and recommendations of the
- Concept in projects on small rivers;
Involvement of city residents in the process of
- planning, decision-making and project implementation;
- Learn from successful practices and interaction with colleagues from other cities and countries.



III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS

Based on these principles, the following recommendations for working with small rivers in Vinnytsia are offered.

To preserve the ecosystem and improve the condition of the water body:

- Regularly survey and inspect households and business entities near small rivers for waste discharges.
- Promote the connection of households near small rivers to centralised sewerage systems.
- Carry out regular activities to clean riverbeds and river banks from solid household and construction waste.
- Ensure water quality monitoring in small rivers.
- Begin the process of establishing coastal protection strips in nature.
- Ensure that rainwater is filtered before it enters the water body when planning and implementing projects near small rivers that involve transport infrastructure. It is recommended to use natural drainage (rain gardens, bioplates, etc.): water-permeable paving, different layers of natural materials, special plant species.
- Do not create artificial corsets for water bodies – trays, underground collectors, concrete channels and banks.
- When planning and implementing projects in the area of small rivers whose channels are currently blocked – underground or in concrete trays – it is necessary to provide for the opening of the channel and its return to natural state.





III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS



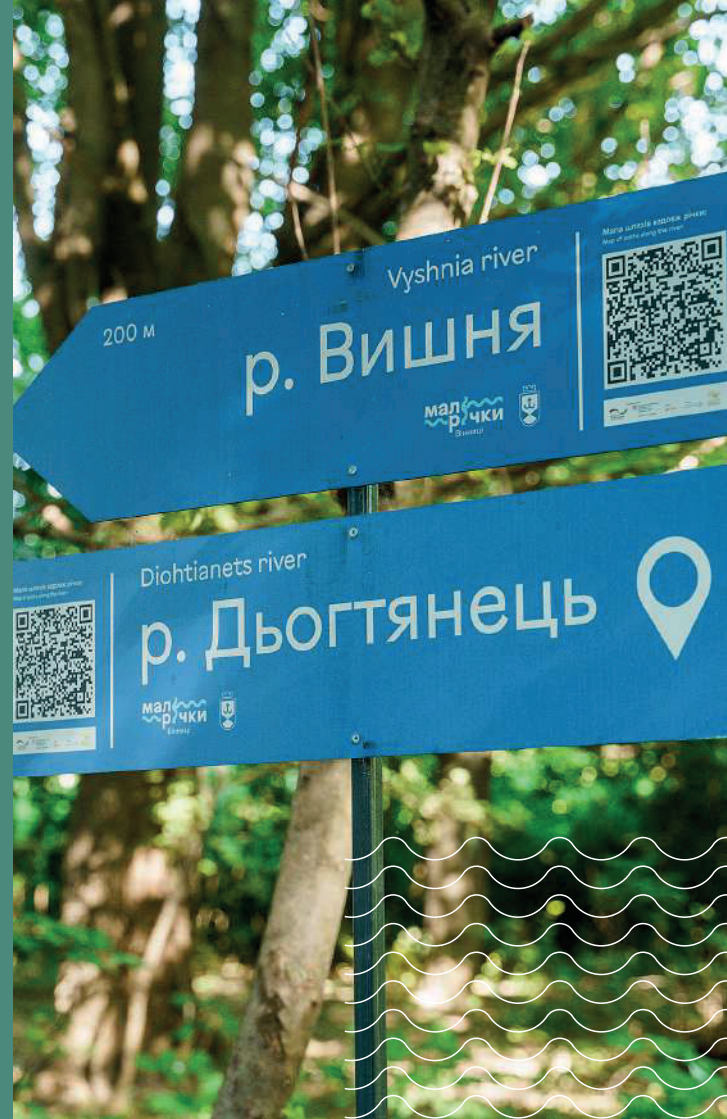
To preserve the ecosystem and improve the condition of the water body:

- Use natural methods if bank protection is required. To strengthen the bank, it is recommended to plant trees and shrubs along the shoreline that are resistant to flooding and have a strong branched root system, as this is the most environmentally friendly and aesthetic method. It is not a sustainable solution to strengthen the banks with concrete.
- Enable the free flow of rivers, eliminate obstacles and do not regulate the riverbed by creating artificial obstacles to the flow, ponds, pits and reservoirs.
- Do not drain wet and marshy areas.
- Maintain the natural topography, natural bank cover and native vegetation within the coastal protection strips of rivers in the city.
- Preserve local natural biotopes. Plant new plants in case of “exposed” surfaces (after concrete removal, invasive species removal, or construction works that have damaged the natural vegetation cover) in new projects on the banks of small rivers.
- Keep old wooden logs within coastal protection strips and limit mowing of grasses to enhance local biodiversity.
- Carry out regular activities to combat invasive plant species on river banks.

III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS

To improve the city residents' perception of small rivers:

- Assign names to all small rivers in the city.
- Introduce an urban navigation system to identify small rivers.
- Integrate small rivers into various spheres of urban life – culture, sports, education, housing, climate, tourism, entertainment, business, etc.
- Inform the population about the value of small rivers through various tools – information stands, videos, articles, etc.
- Encourage positive activities on small rivers – walks, clean-ups, excursions, events, etc.
- Develop educational programmes for schoolchildren.
- Attract higher education institutions to study, research, create scientific papers and implement student initiatives on the city's small rivers.
- Engage entrepreneurs to interact more actively and sustainably with water bodies.
- Conduct explanatory work with offenders who negatively affect the hydrological regime of water bodies and the territory within the coastal protection strips.
- Inform Vinnytsia residents about the existing methods to report violations to the relevant services.

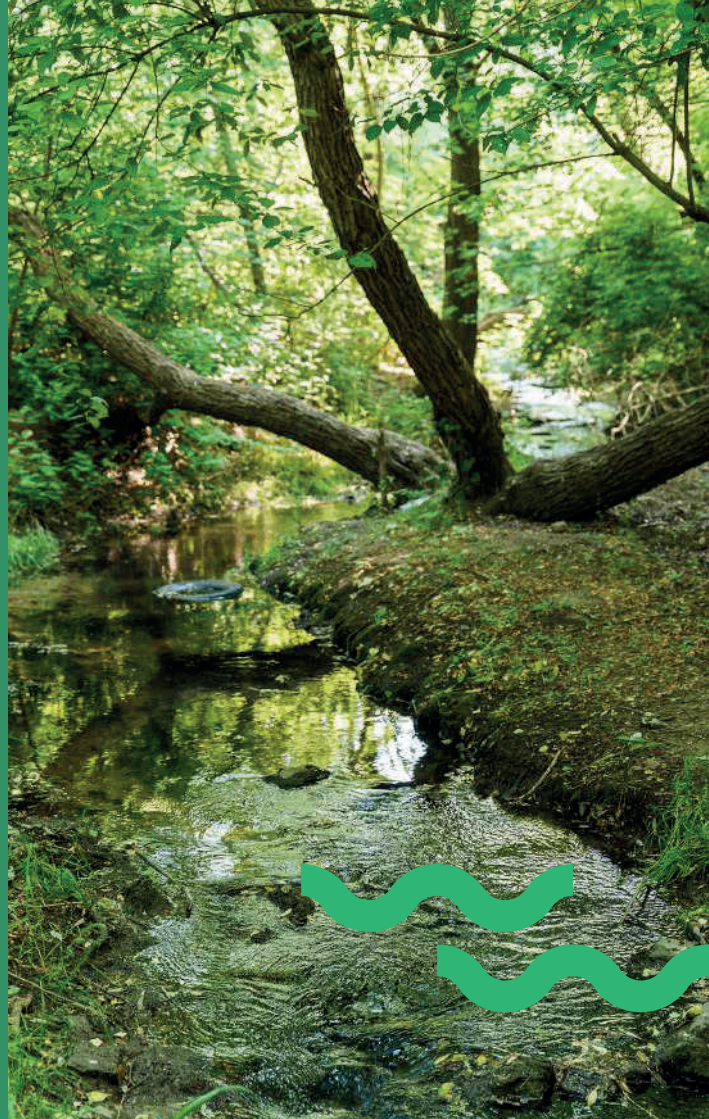




III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS

To create high-quality spaces on the city's small rivers:

- Adhere to the principle of “quiet, minimal, natural” in highly urbanised areas of the city, provide opportunities for quiet recreation, contemplation and interaction with nature.
- Leave as many areas of nature untouched by humans as possible.
- The minimum set of infrastructure for the arrangement of spaces on the banks of small rivers is water-permeable paths, elements of access to the riverbed (stairs, ramps), necessary security elements (illumination, CCTV), and trash bins.
- Conduct additional local urban studies with the participation of residents when planning additional functions of spaces (cultural, artistic, educational, sports).
- Arrange landscaping without changing the existing topography, preserving the existing vegetation (with the exception of invasive species).
- Integrate local elements of nature into the landscaping elements – logs, fallen trees, rhizomes, stumps.
- Design illumination with a power that will allow representatives of local fauna to stay comfortably in natural spaces at night and with a colour temperature of 1800k to 3500k, considering illumination only in the evening, not all night long.





III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS



To create high-quality spaces on the city's small rivers:

- Avoid impassable areas and provide through passages and access to river spaces with as many entrances and exits as possible.
- Provide barrier-free access to the river along its entire length.
- Organise safe crossings that connect river spaces when a small river is crossed by a road or railway.
- Remove unauthorised fencing (“squatting”) from corridors along riverbeds.
- Remove garages from the coastal protection strip.
- Connect accessible parts of the rivers with each other by alternative comfortable routes until all conflicts along the water body are resolved.
- Connect corridors and spaces on small rivers with existing natural and public spaces.



III. PRINCIPLES AND RECOMMENDATIONS FOR DEALING WITH SMALL RIVERS

To improve the management of the city's small rivers by local authorities:

- Develop a roadmap of measures to implement the Concept for the Development of Small Rivers of Vinnytsia.
- Create a register of small rivers in Vinnytsia.
- Take into account the projects, activities and studies of the Concept in the target programmes of the City Council.
- Consider the Concept in the General Plan of Vinnytsia and the Comprehensive Plan For The Spatial Development Of The Vinnytsia Urban Territorial Community.
- Ensure transparent communication of all involved structural units in decision-making processes and/or work with sites on small rivers or on their banks within the zones of influence on small rivers (50-100 metres from the riverbed).
- Establish an advisory body for the development of small rivers in Vinnytsia.
- Start the process of mapping coastal protection zones in urban planning documents.
- Develop and implement a water quality monitoring system for the city's small rivers.
- Involve city residents in the planning, decision-making, and implementation process of projects related to Vinnytsia's small rivers.
- Learn from successful practices and exchange experiences with colleagues from other cities and countries.



IV.

PROJECT PROPOSALS





IV. PROJECT PROPOSALS

Different colours on the map show different levels of accessibility to the city's small rivers:

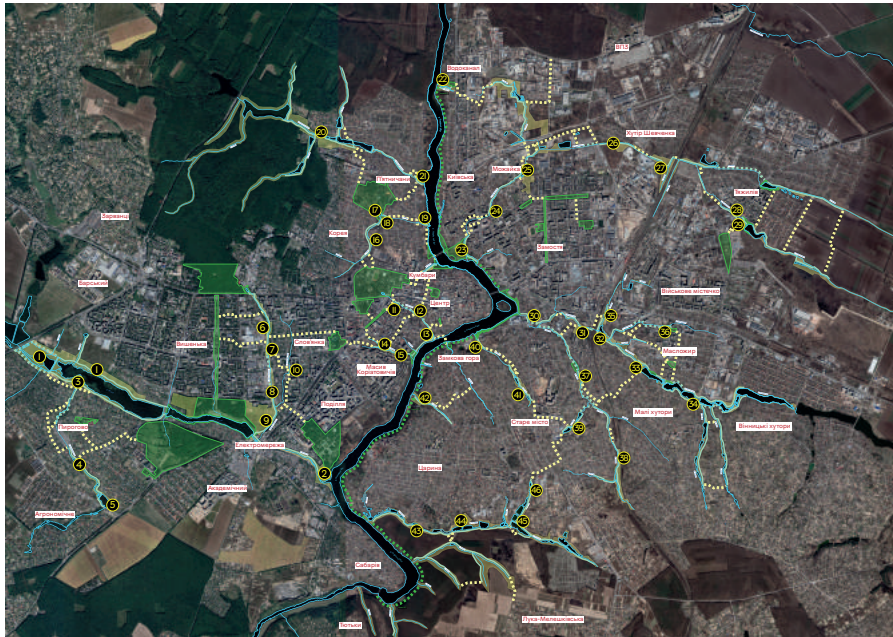
- **red** – parts of riverbeds that are inaccessible because they have disappeared into the collector under streets/buildings or on the territory of private plots. Solving these problems is relevant in the long term; in the short term, it is advisable to plan comfortable alternative bypasses of these sections;
- **yellow** – parts of the rivers that have an open channel and are not privately owned, but have a complex problem of inaccessibility – they are squatted, flow between the walls of garage cooperatives;
- **blue** – open spaces near riverbeds that require regular maintenance and have the potential to implement projects right now.





IV. PROJECT PROPOSALS

Existing provision with natural spaces of the districts and potential natural public or open spaces, green corridors, connections through the development of small rivers



Based on this logic, the maps below show scenarios for the spatial development of individual small rivers and streams in Vinnytsia and their potential impact on the recreational amenities of the districts. The first maps show the existing provision of recreational areas in the city – functioning parks and squares. The maps show potential spaces and corridors on small rivers in yellow, as well as potential combinations of zones with each other in dotted lines.

Legend

- Existing natural communal spaces
- Abandoned green areas near small rivers
- Inaccessible areas near small rivers
- Potential natural communal spaces near small rivers
- Potential green corridors along small rivers
- Potential but currently hard-to-reach green corridors along small rivers
- Spatial connections to existing communal spaces and other small rivers
- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood



IV. PROJECT PROPOSALS

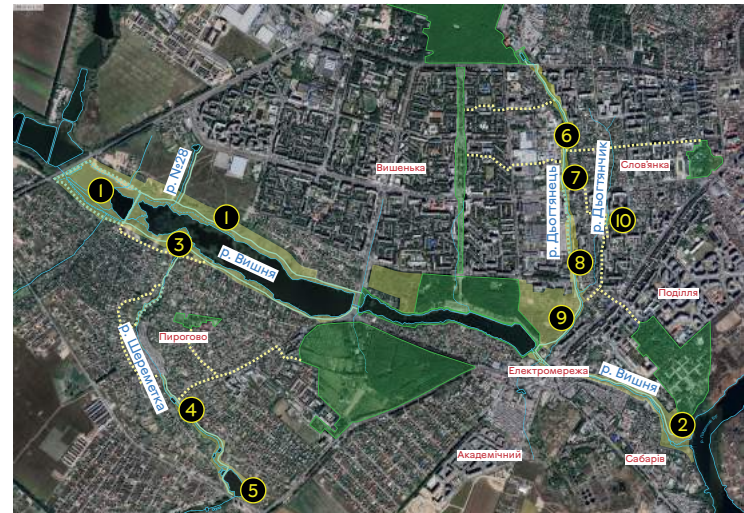
The basin of the Vyshnia river:

Numbers on the map:

1. Wetland park on the ponds of the Vyshnia River.
2. A location with the potential to create a public natural space at the mouth of the Vyshnia River with a focus on protecting local biodiversity.
3. A location with the potential to create a natural public space at the mouth of the Sheremetka River.
- 4, 5. Locations with the potential to create public and open natural spaces on the bed of the Sheremetka River and the connecting green corridor between them.
6. A meadow with a focus on protecting local biodiversity on the Dohtianets River – “Dohtianets Meadow”.
7. A pilot area of public natural space on the small Dohtianets River – “Dohtianets Balka”.
8. A location with the potential to create a public natural space on Vasylenko Street to the house built under the Municipal Housing programme along the bed of the Dohtianets River.
9. Memorial Park and green corridor along the Dohtianets River from Vasylenko Street to Vyshnyskyi Park.
10. A location with the potential to create a public natural space on the bed of the Dohtianets River in the courtyard of apartment buildings.

Legend

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- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood





IV. PROJECT PROPOSALS

Small rivers in the central part of the city:

Numbers on the map:

11. A location with the potential to create a public natural space on the Kalicha River near Khlibna Street.
12. Implementation of the Altman Square project with the opening of the bed of the Kalicha River.
13. A location with the potential to create an open natural space at the mouth of the Kalicha River.
14. A location with the potential to create an open natural space in the valley of the 16th river.
15. Location with the potential to create a public natural space on the 16th riverbed near the new buildings on Kniiaziv Koriatovychiv Street.



Legend

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- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood

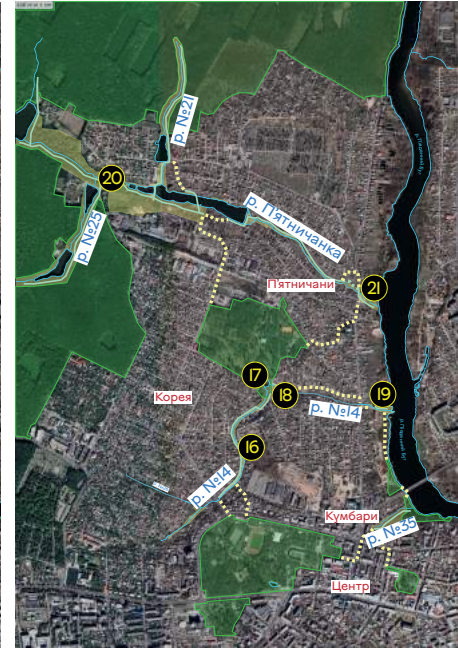


IV. PROJECT PROPOSALS

Piatnychanka River and the 14th river

Numbers on the map:

- 16. Arrangement of a pedestrian passage along the riverbed of the 14th river from Piatnychanskyi Park to the Mykola Leontovych Central City Park.
- 17. A location with the potential to create a natural course of the 14th river and an open natural space in the Piatnychanskyi Park.
- 18. A location with the potential to create an open natural space and a passage in the valley of the 14th river.
- 19. A location with the potential to create a public natural space at the mouth of the 14th river.
- 20. Arrangement of a walking green corridor from the mouth of the Piatnychanka River to the Huralnia Pond.
- 21. A location with the potential to create an open natural space with local biodiversity at the mouth of the Piatnychanka River.



Legend

- Existing natural communal spaces
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- Spatial connections to existing communal spaces and other small rivers
- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood



IV. PROJECT PROPOSALS

The basin of the Tiazhylivka River:

Numbers on the map:

- 22. A location with the potential to create an open natural space at the mouth of the 37th river.
- 23. A location with the potential to create a public natural area on the Bryhantyna Peninsula along the Tiazhylivka River.
- 24, 25. Locations with the potential to create public natural spaces on the Tiazhylivka River in the residential area of apartment buildings.
- 26. Free passage along the Tiazhylivka River in the area of Shevchenkivski khutory.
- 27. A location with the potential to create an open natural space on the Tiazhylivka River with a focus on protecting local biodiversity.
- 28. Free passage along the Tiazhylivka River.
- 29. Location with the potential to create a public natural space

Legend

- Existing natural communal spaces
- Abandoned green areas near small rivers
- Inaccessible areas near small rivers
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- Potential green corridors along small rivers
- Potential but currently hard-to-reach green corridors along small rivers
- Spatial connections to existing communal paces and other small rivers
- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood





IV. PROJECT PROPOSALS

The basin of the Vinnychka River and the 20th river:

Numbers on the map:

- 30. A location with the potential to create a public natural space on the bed of the Vinnychka River near the Roshen factory.
- 31. A location with the potential to create a public natural space on the bed of the Vinnychka River.
- 32. A location with the potential to create an open natural space on the Vinnychka River with a focus on protecting local biodiversity.
- 33, 34. Locations with the potential to create public natural spaces on the ponds of the Vinnychka River.
- 35. A location with the potential for creating a public natural space on the bed of the 43rd river.
- 36. A location with the potential to create a public natural space on the bed of the Skakunka River.
- 37, 38. Locations with the potential to create public natural spaces on the 56th river with a focus on protecting local biodiversity.
- 39. A location with the potential to create an open natural space on the ponds of the 57th river with a focus on protecting local biodiversity.
- 40, 41. Locations with the potential to create public natural spaces in the valley of the 20th river.

Legend

- Existing natural communal spaces
- Abandoned green areas near small rivers
- Inaccessible areas near small rivers
- Potential natural communal spaces near small rivers
- Potential green corridors along small rivers
- Potential but currently hard-to-reach green corridors along small rivers
- Spatial connections to existing communal spaces and other small rivers
- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood



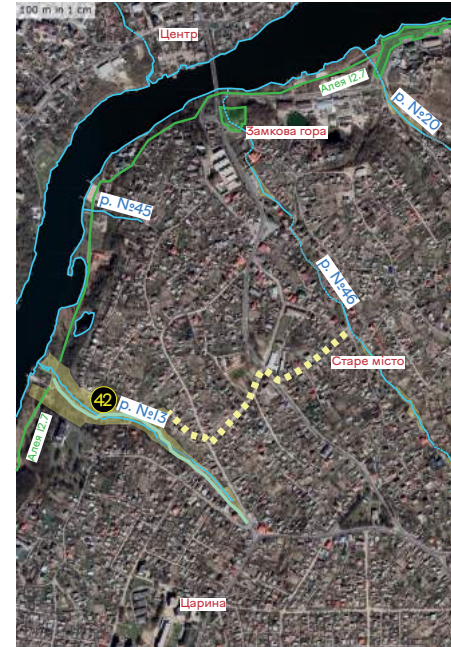
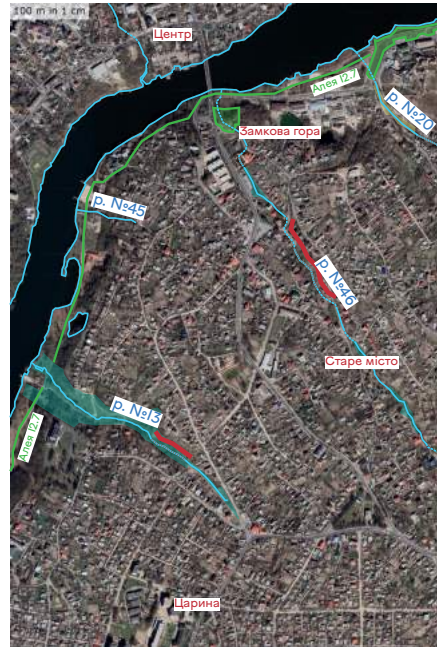


IV. PROJECT PROPOSALS

13th and 46th rivers:

Numbers on the map:

42. A location with the potential to create an open natural space along the 13th river to connect Synovodska Street and the Pivdennyi Buh River, active control of hogweed along the riverbed of the small river.



Legend

-  Existing natural communal spaces
-  Abandoned green areas near small rivers
-  Inaccessible areas near small rivers
-  Potential natural communal spaces near small rivers
-  Potential green corridors along small rivers
-  Potential but currently hard-to-reach green corridors along small rivers
-  Spatial connections to existing communal spaces and other small rivers
-  Locations with the potential for natural public spaces or natural open spaces
-  Open and accessible river sections
-  Inaccessible river sections
-  Underground river sections
-  Name of the small river
-  Name of the neighborhood



IV. PROJECT PROPOSALS

The basin of the Lisova River:

Numbers on the map:

- 43. A location with the potential to create an open natural space with a focus on protecting local biodiversity in the bed of the Lisova River.
- 44. A location with the potential to create a public natural space based on the former Kotsiubynskiy sanatorium “Terytoriia Sun” on the bank of the Lisova River.
- 45. A location with the potential to create an open natural space at the mouth of the 49th river.
- 46. Free pedestrian passage along the 49th river from Yakiv Shepel Street to the Lisova River.

Legend

- Existing natural communal spaces
- Abandoned green areas near small rivers
- Inaccessible areas near small rivers
- Potential natural communal spaces near small rivers
- Potential green corridors along small rivers
- Potential but currently hard-to-reach green corridors along small rivers
- Spatial connections to existing communal spaces and other small rivers
- Locations with the potential for natural public spaces or natural open spaces
- Open and accessible river sections
- Inaccessible river sections
- Underground river sections
- Name of the small river
- Name of the neighborhood



V. LIST OF RESEARCHES





V. LIST OF RESEARCHES

For certain areas on the banks of small rivers in Vinnytsia, there is a need for additional in-depth research. The following are suggestions.

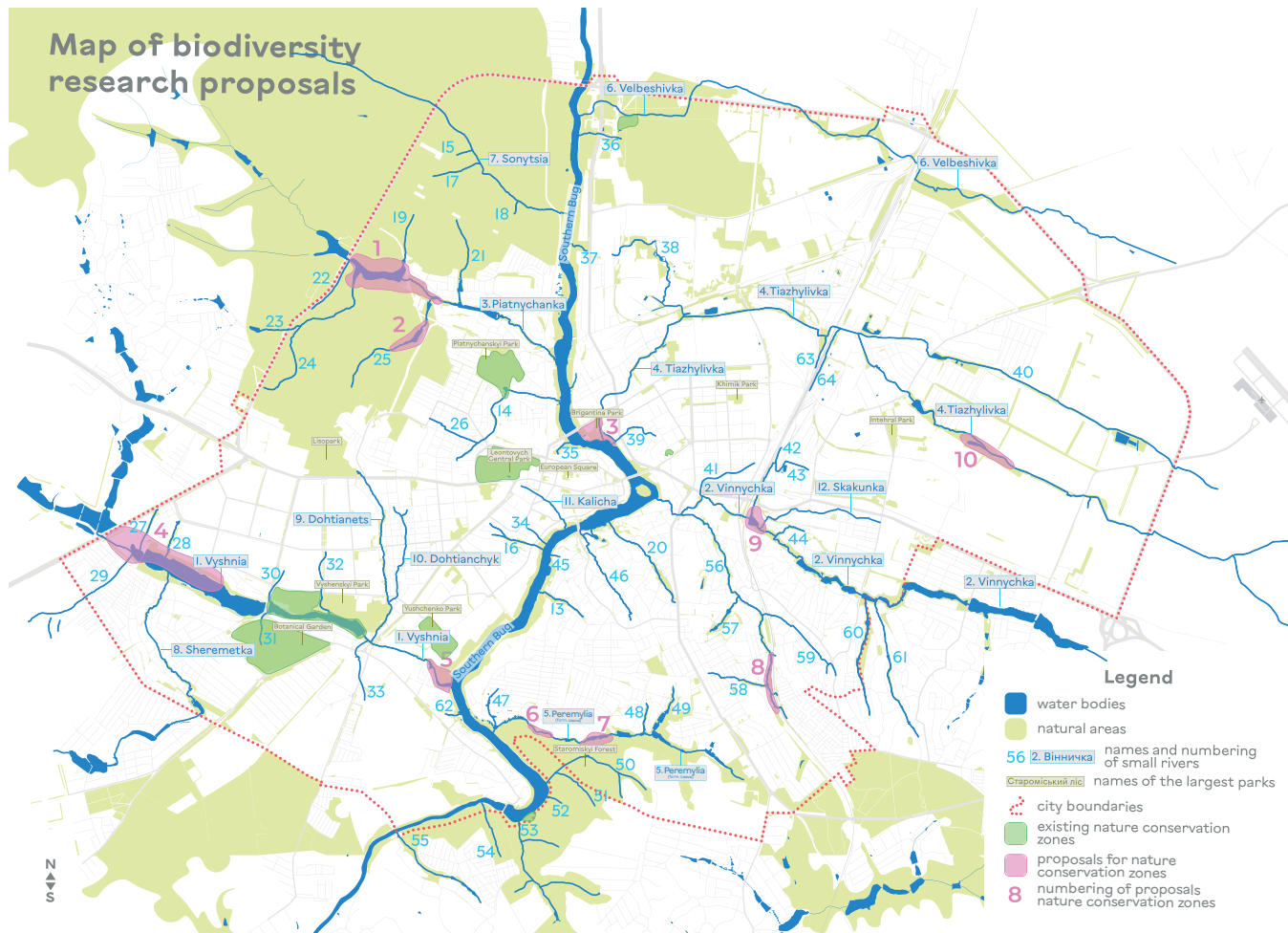
- Conduct research and work out recommendations to preserve the water regime and local biodiversity during the development of the territory of the 10th microdistrict.
- A feasibility study on the complete deregulation of the Lisova River channel as a pilot project of a free-flowing river within the city.
- A study on the feasibility and environmental impact of installing mini-hydroelectric power plants on small rivers in the city.
- Study of methods to combat invasive plant species existing in Vinnytsia.
- Research on the use of sustainable landscaping approaches to ensure bank strengthening and water purification.
- Feasibility study on neutralisation of the negative impact of the former Khimzavod on the Tiazhylivka riverbed and soils within the coastal protection strip.
- Study of the impact of agricultural activities within the annexed communities on the state of the Vinnychka, Tiazhylivka, Velbeshivka rivers.
- Research of these areas for the purpose of nature reservation and environmental protection.
- Anthropological study of the phenomenon of garage culture within the city and recommendations to find compromise solutions in the context of small rivers development.
- Historical research of small rivers in Vinnytsia, their names and significance for the city
- Investigate the possibility and cost of arranging pedestrian crossings of the railway in the area of the Tiazhylivka and Vinnychka rivers.
- Spatial study of the Tiazhylivka River from the perspective of the development of Zamostia, Kyivska, Shevchenkivski khutory, VPZ and industrial zones between them, elaboration of a road map for the spatial integration of the river and a potential basis for soft mobility of the districts.
- Develop a concept for bicycle routes from outside the city to Vinnytsia along the riverbeds of the Tiazhylivka, Vinnychka, Velbeshivka, Vyshnia, Piatnychanka, and Lisova rivers and connect them with existing city bicycle routes.

ADDITIONAL MAPS OF SMALL RIVERS AND THEIR SURROUNDINGS



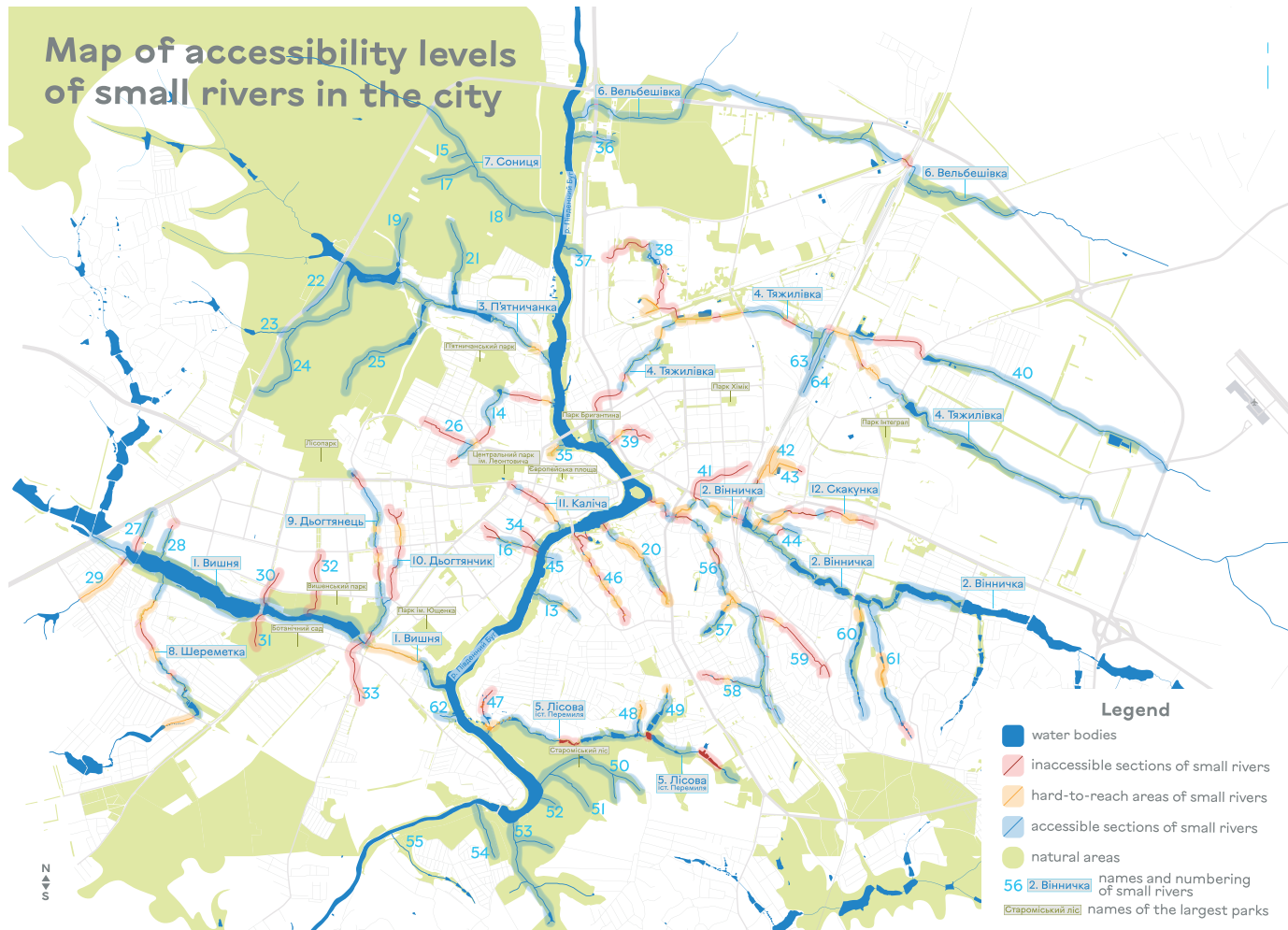


Map of biodiversity research proposals



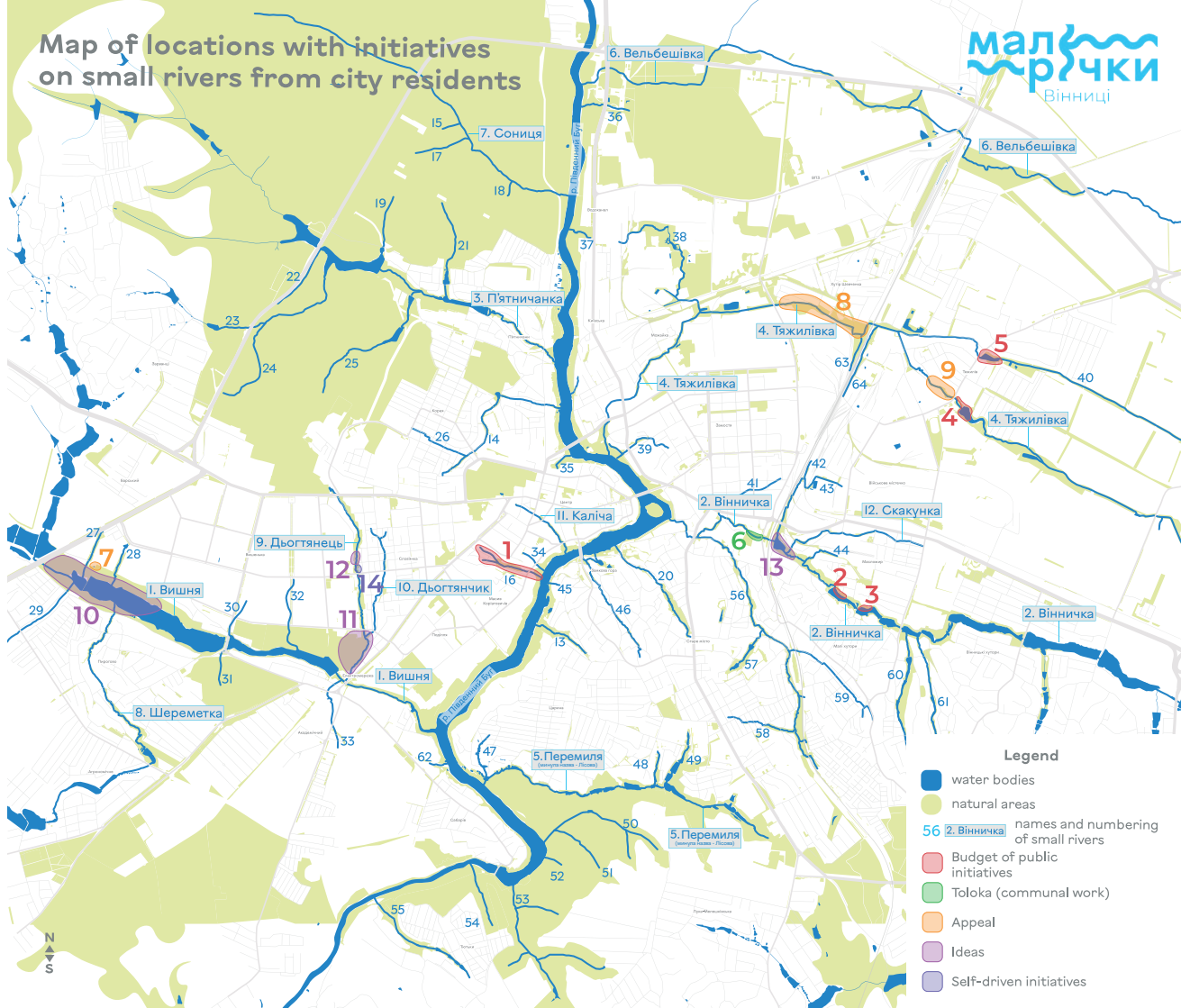


Map of accessibility levels of small rivers in the city



0 4 8

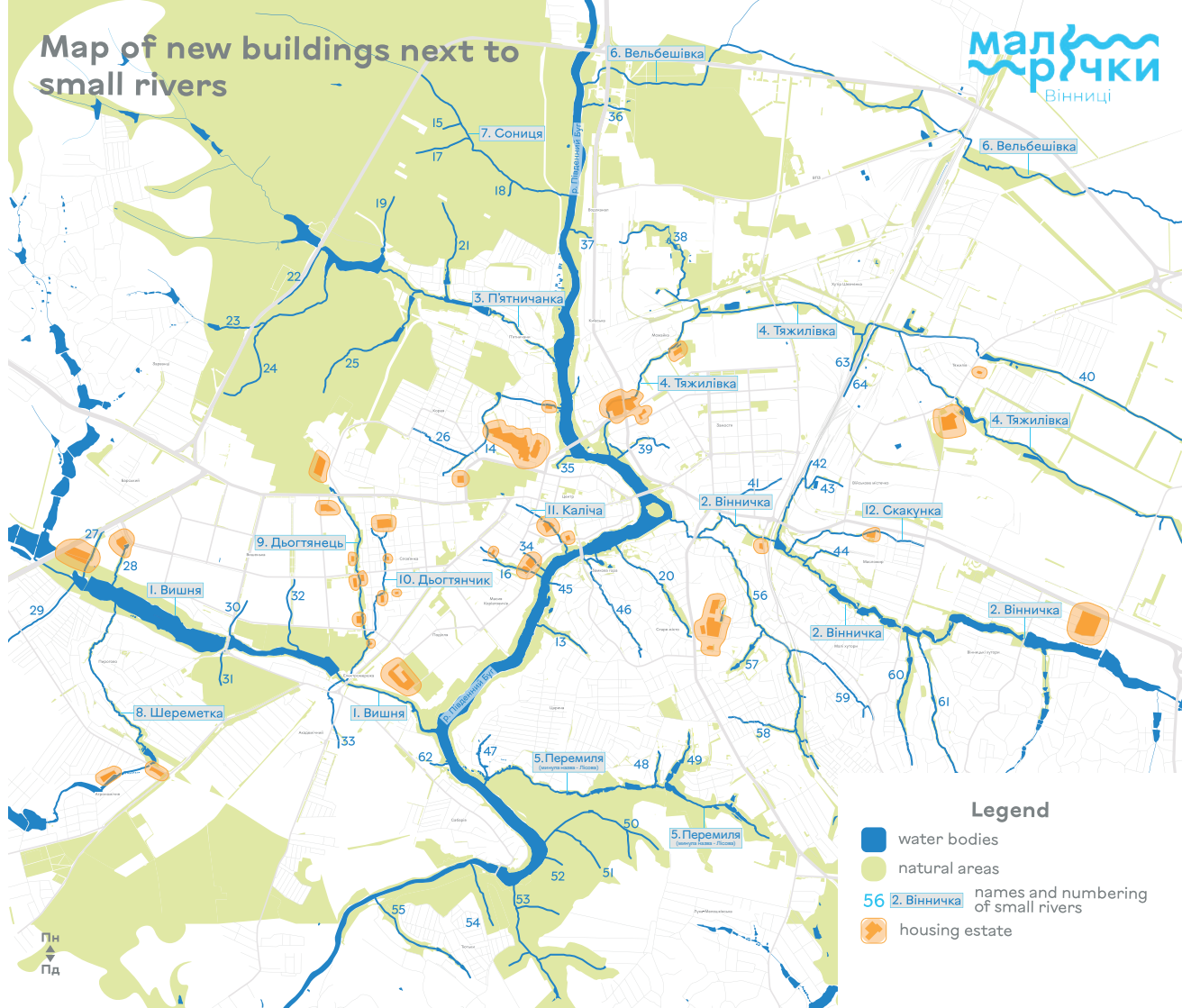
Map of locations with initiatives on small rivers from city residents



Legend

- water bodies
- natural areas
- names and numbering of small rivers
- Budget of public initiatives
- Toloka (communal work)
- Appeal
- Ideas
- Self-driven initiatives

Map of new buildings next to small rivers



- Legend**
- water bodies
 - natural areas
 - names and numbering of small rivers
 - housing estate



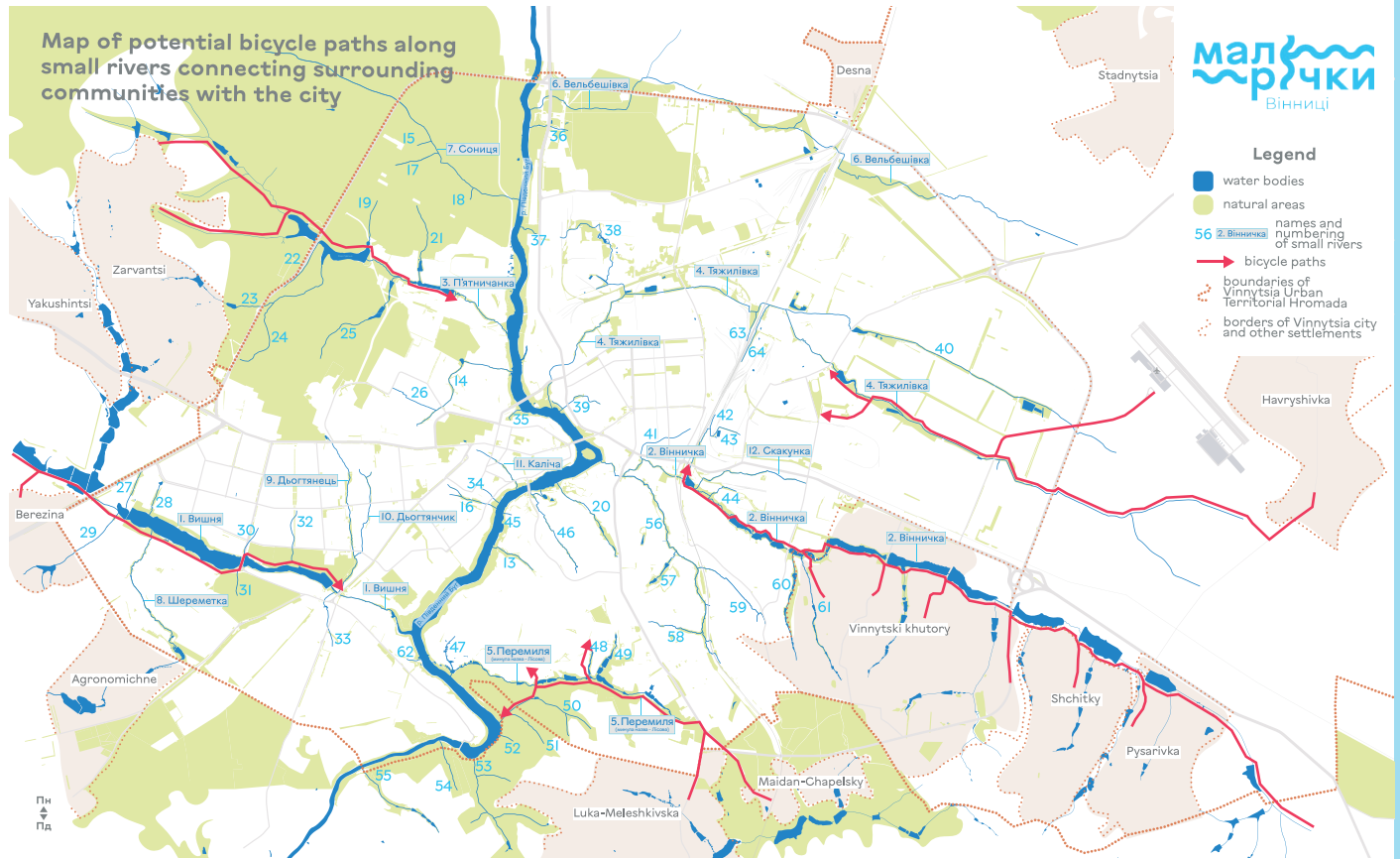


Map of potential bicycle paths along small rivers connecting communities surrounding the city

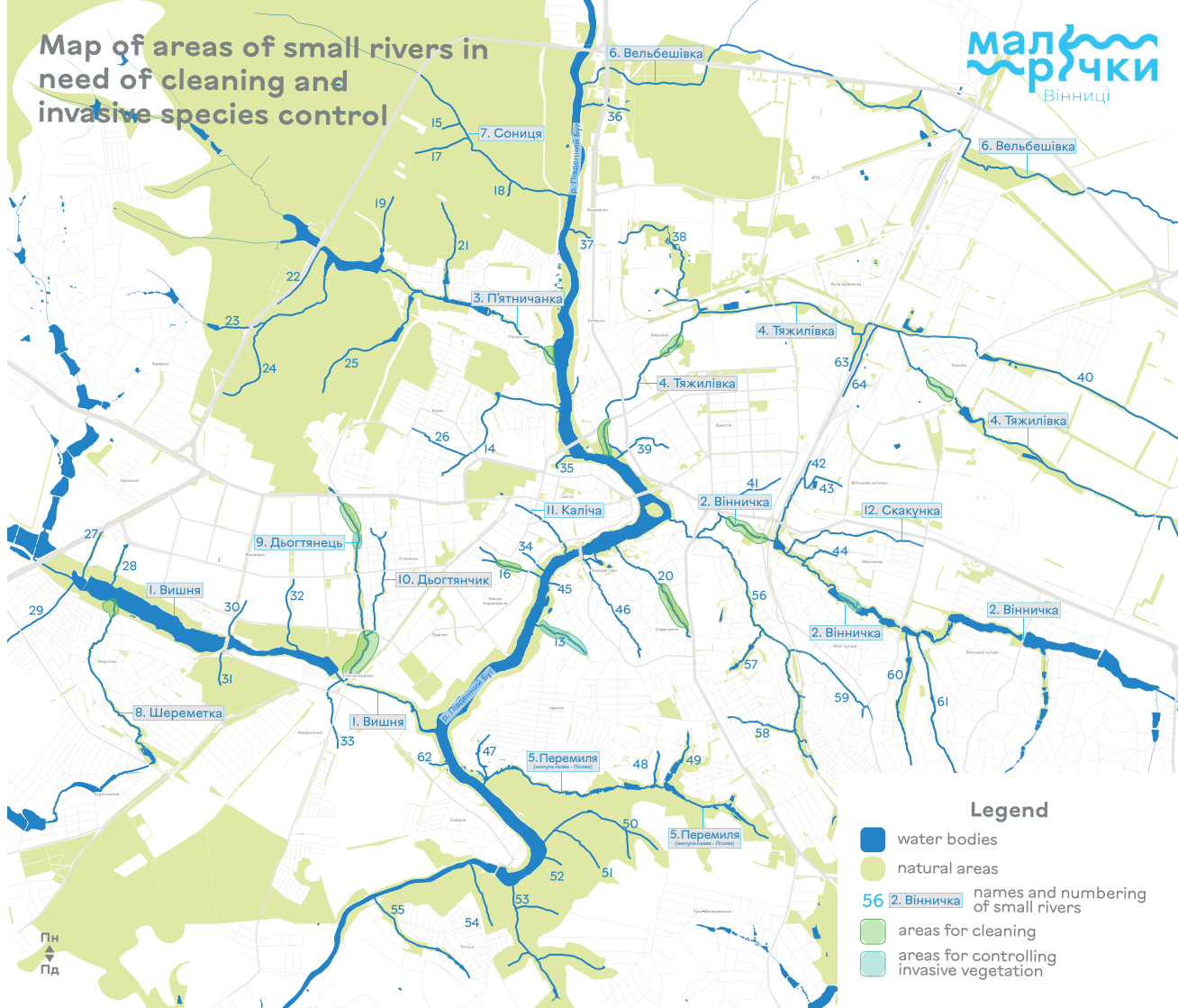


Legend

- water bodies
 - natural areas
 - bicycle paths
 - boundaries of Vinnytsia Urban Territorial Hromada
 - borders of Vinnytsia city and other settlements
- 56 2. Вінницька names and numbering of small rivers



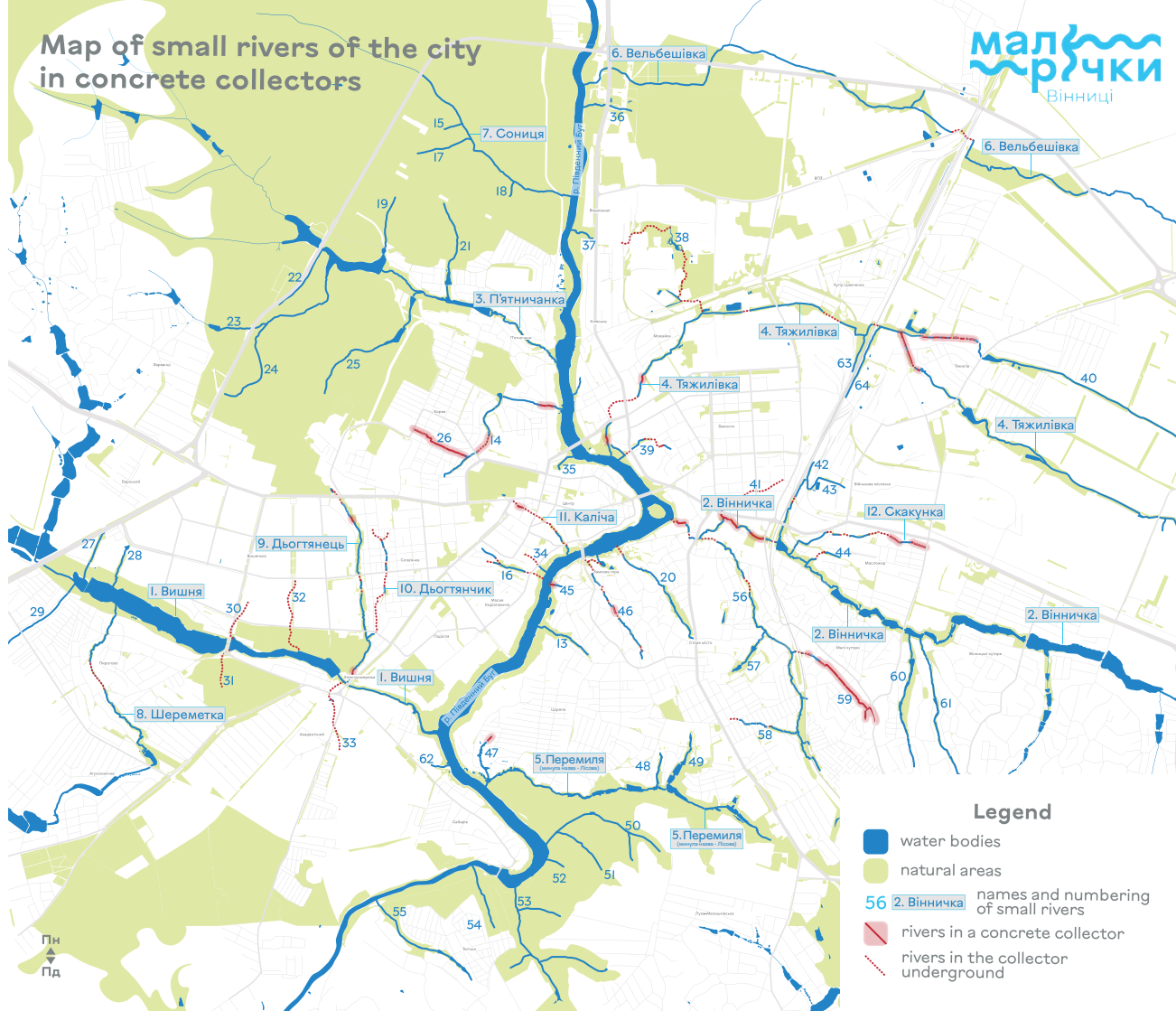
Map of areas of small rivers in need of cleaning and invasive species control



Legend

- water bodies
- natural areas
- 56 2. Вінничка names and numbering of small rivers
- areas for cleaning
- areas for controlling invasive vegetation









Map of small rivers of the city in concrete collectors





Dohtianets map of ownership types

Legend

- | | | |
|---|---|---|
|  state |  private |  Open areas |
|  municipal |  not defined |  Natural areas |
| | |  Water bodies |
| | |  Development |





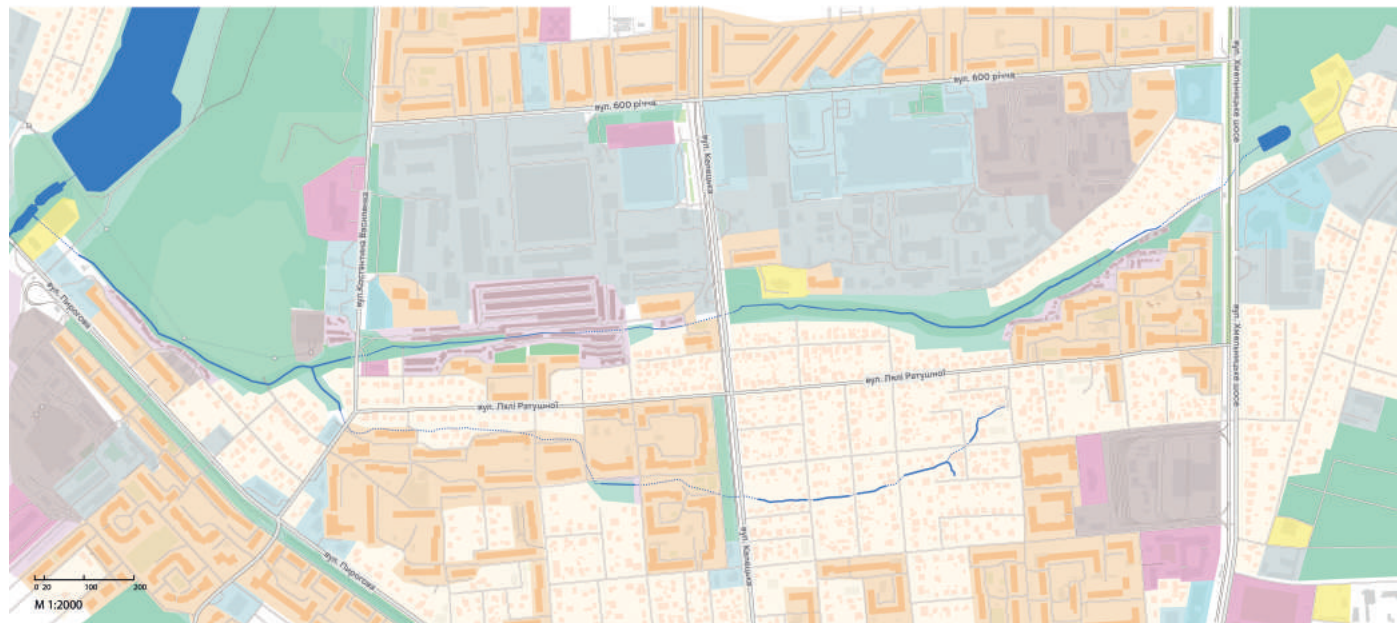
Dohtianets

map of land use types

Legend

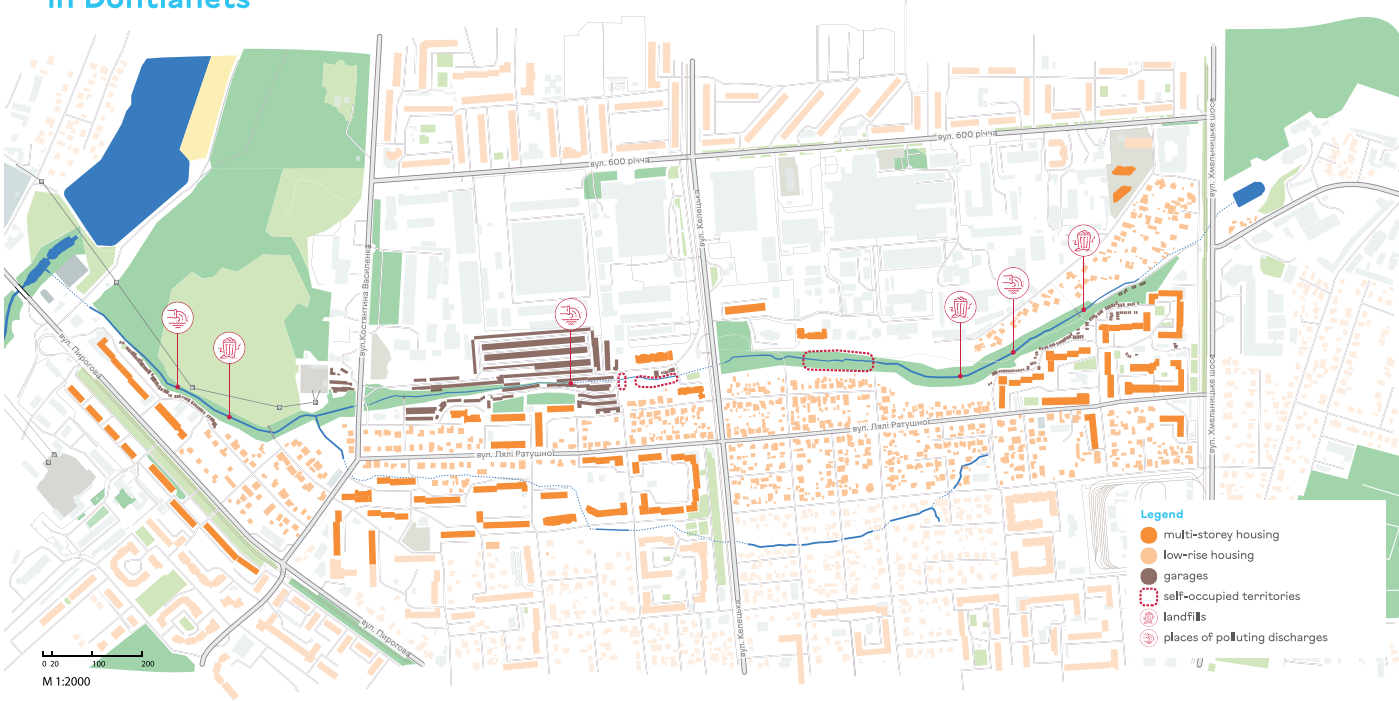
- | | | |
|-----------------------|---------------------------|-------------------------|
| natural areas | industry and warehouses | Open areas |
| multi-storey housing | office space | Natural areas |
| low-rise housing | commercial establishments | Water bodies |
| social infrastructure | garages | Multi-storey housing |
| municipal facilities | religious buildings | Low-rise housing |
| | | Garages |
| | | Industry and warehouses |

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Map of the location of garages, residential buildings and places of pollution concentration in Dohtianets



VII.

FUTURE STRATEGIC DOCUMENTS





VII. FUTURE STRATEGIC DOCUMENTS

The Concept for the Development of Small Rivers of Vinnytsia is the basis and foundation for the development of the following urban concepts:

1. The concept for the management of ponds and reservoirs in urban spaces
2. The concept of the city's pedestrianisation
3. The city's green frame

VIII.

FEEDBACK





VII. FEEDBACK

Project email - vin.small.rivers@gmail.com

Coordinator of the Small Rivers of Vinnytsia project:
Municipal Enterprise “Institute of Urban Development”

Authors of the Concept:

Yanna Chaikovska
Kateryna Pisotska
Viacheslav Polhun
Tetiana Voloshyna
Liubov Kolosova
Nazar Kovalenko

Design of the document:

Andrii Yanchenko
Yevhen Askarov
Viacheslav Polhun

Facebook page of the project



Instagram page of the project



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