



European Union Water Initiative Plus for
Eastern Partnership Countries (EUWI+)

**MASTER PLAN ON WATER SUPPLY AND SANITATION
FOR THE NIRNOVA RIVER BASIN
Republic of Moldova**

Cartographic Atlas

Chisinau, 2023



European Union Water Initiative Plus for
Eastern Partnership Countries (EUWI+)

MASTER PLAN ON WATER SUPPLY AND SANITATION FOR THE NIRNOVA RIVER BASIN Republic of Moldova

Cartographic Atlas



Beneficiaries	IWRM department of the MARDE (legislation and supervision), Mayors' association of the Nirnova basin (Planning support and follow up of implementation) in coordination with the Nisporeni and Hincesti rayons councils
Produced by	OIKUMENA Public Association
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Produced for:	International Office for Water (France), as contracting authority in EUWI+East member state consortium, responsible for this pilot implementation action foreseen in the future RBM plan. Contract follow up insured by Pierre Henry de Villeneuve, Jean-Marc Berland, Marta Boyko and Camille Madec (IOWater), Victor Bujac and Svetlana Stirbu (National EUWI+ Project Representatives in Moldova)
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Date	June, 2021
Version	Final
Acknowledgements:	Solidarity Water Europe for offering its support in particular for the creation of a pilot governance scheme for inter-municipality management at Nirnova basin scale and Svetlana Duca for actively supporting animation of the stakeholders' involvement
Financed by:	European Union
Co-financed by:	Artois-Picardie Water Agency (France) for the implementing Member State

Disclaimer:

The EU-funded program European Union Water Initiative Plus for Eastern Partnership Countries (EUWI+ 4 EaP) is implemented by the UNECE, OECD, responsible for the implementation of Result 1 and an EU member state consortium of Austria, managed by the lead coordinator Umweltbundesamt, and of France, managed by the International Office for Water, responsible for the implementation of Result 2 and 3. This document, the "Master plan on water supply and sanitation for the Nirnova river basin, Republic of Moldova. Cartographic Atlas.", was produced by the EU member state consortium with the financial assistance of the European Union. The views expressed herein can in no way be taken to reflect the official opinion of the European Union or the Governments of the Eastern Partnership Countries. This document and any map included herein are without prejudice to the status of, or sovereignty over, any territory, to the delimitation of international frontiers and boundaries, and to the name of any territory, city or area.

Imprint

Owner and Editor: EU Member State Consortium

Umweltbundesamt GmbH

Spittelauer Lände 5

1090 Vienna, AUSTRIA

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DESCRIEREA CIP A CAMEREI NAȚIONALE A CĂRȚII DIN REPUBLICA MOLDOVA

Master plan on water supply and sanitation for the Nirnova river basin Republic of Moldova :

Cartographic Atlas / Tudor Castravet, Lucia Capatina, Vitalie Dilan [et al.] ; European Union Water Initiative Plus for Eastern Partnership Countries (EUWI+). – Chișinău : S. n., 2023 (Artpoligraf). – [41] p. : h.

Cerințe de sistem: PDF Reader.

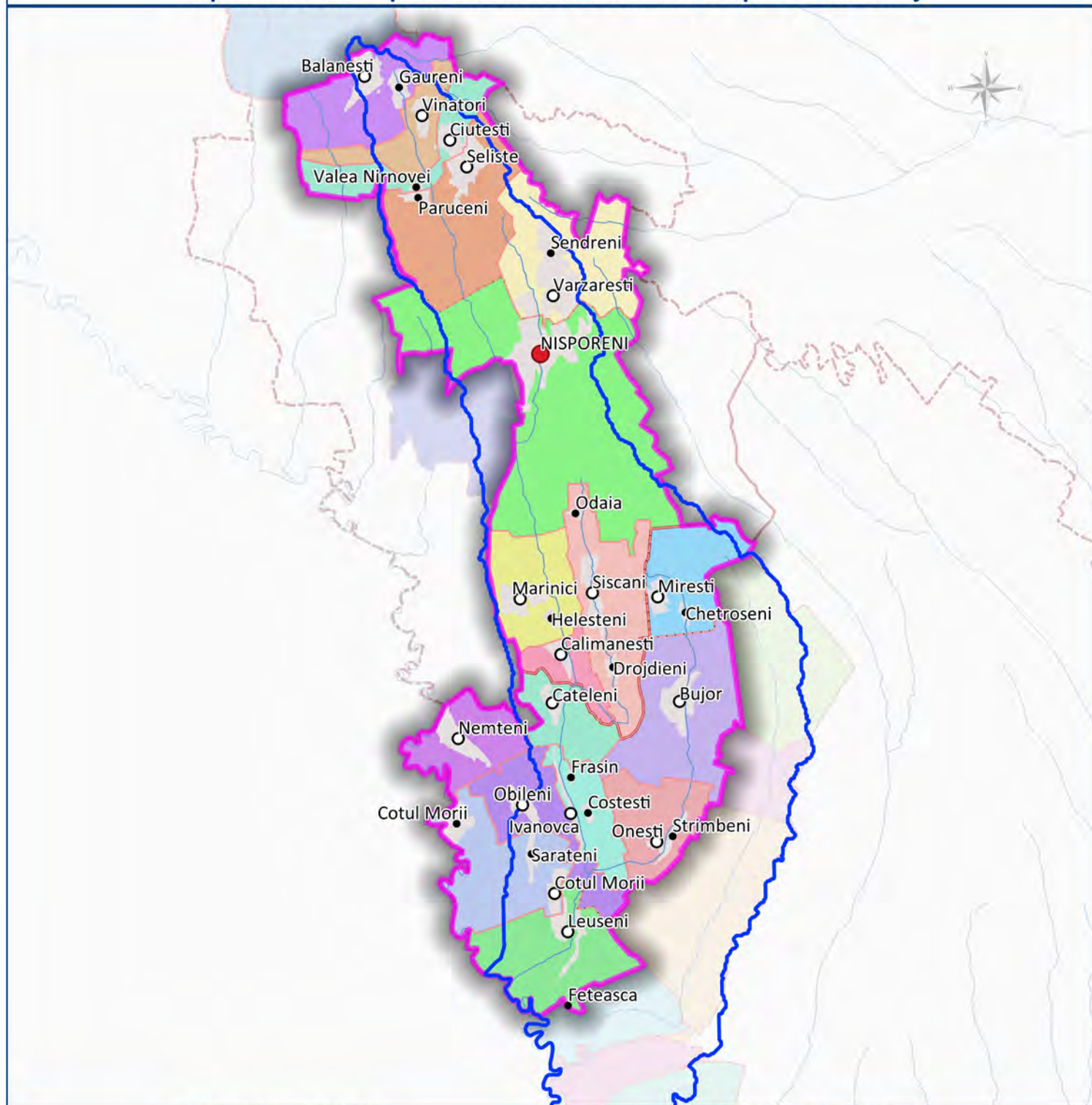
Aut. indicați pe vs. f. de tit. – Funded by the European Union.

ISBN 978-9975-3598-6-3 (PDF).

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Map of the townships in the Nirnova basin that are part of the study



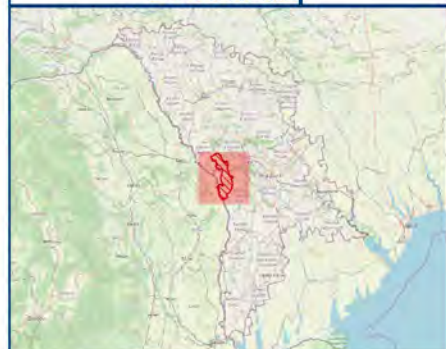
Thematic symbology

Boghicieni	Marinici	Ciutești	Pogănești
Bujor	Obileni	Leuseni	Seliște
Cioara	Pervomaiscoe	Milești	Soltănești
Cotul Morii	Bălănești	Mirești	Șișcani
Crasnoarmescoe	Călimănești	Nemțeni	Vărzărești
Dancu	Călmățui	Nisporeni	Vânători
Ivanovca	Cățeleni	Onești	

Background layer legend

Study Area	Settlements	Localities
Nirnova basin	Commune limits	city
Rivers	Rayon limits	commune
		village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

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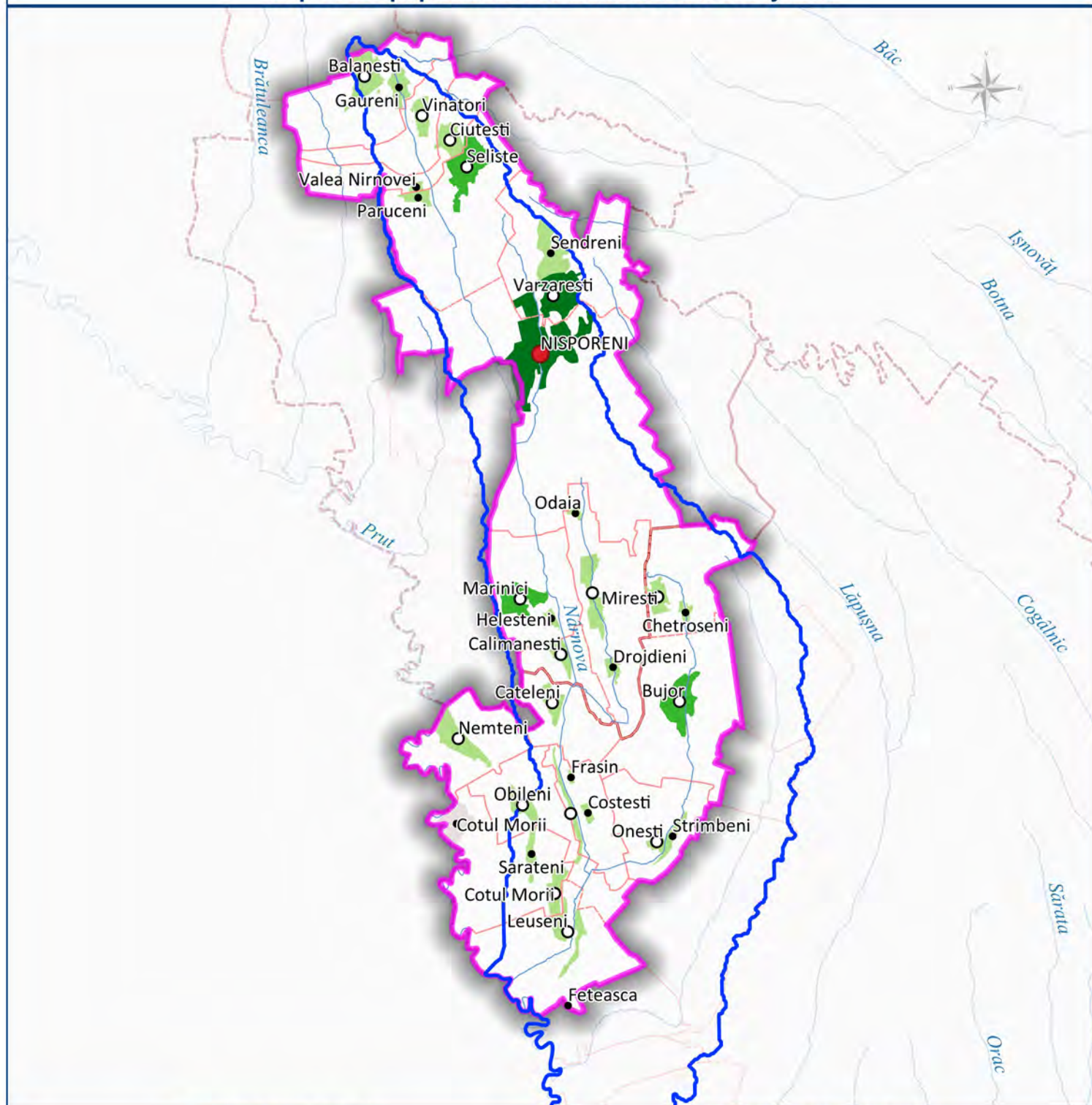
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Map of the population distribution in the study area



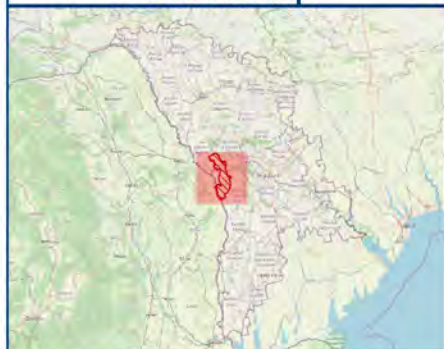
Thematic symbology

Inhabitants
<2000
2000 - 5000
>5000

Background layer legend

Study Area	Settlements	UAT
Nimova basin	Commune limits	city
Rivers	Rayon limits	commune
		village

Location Map



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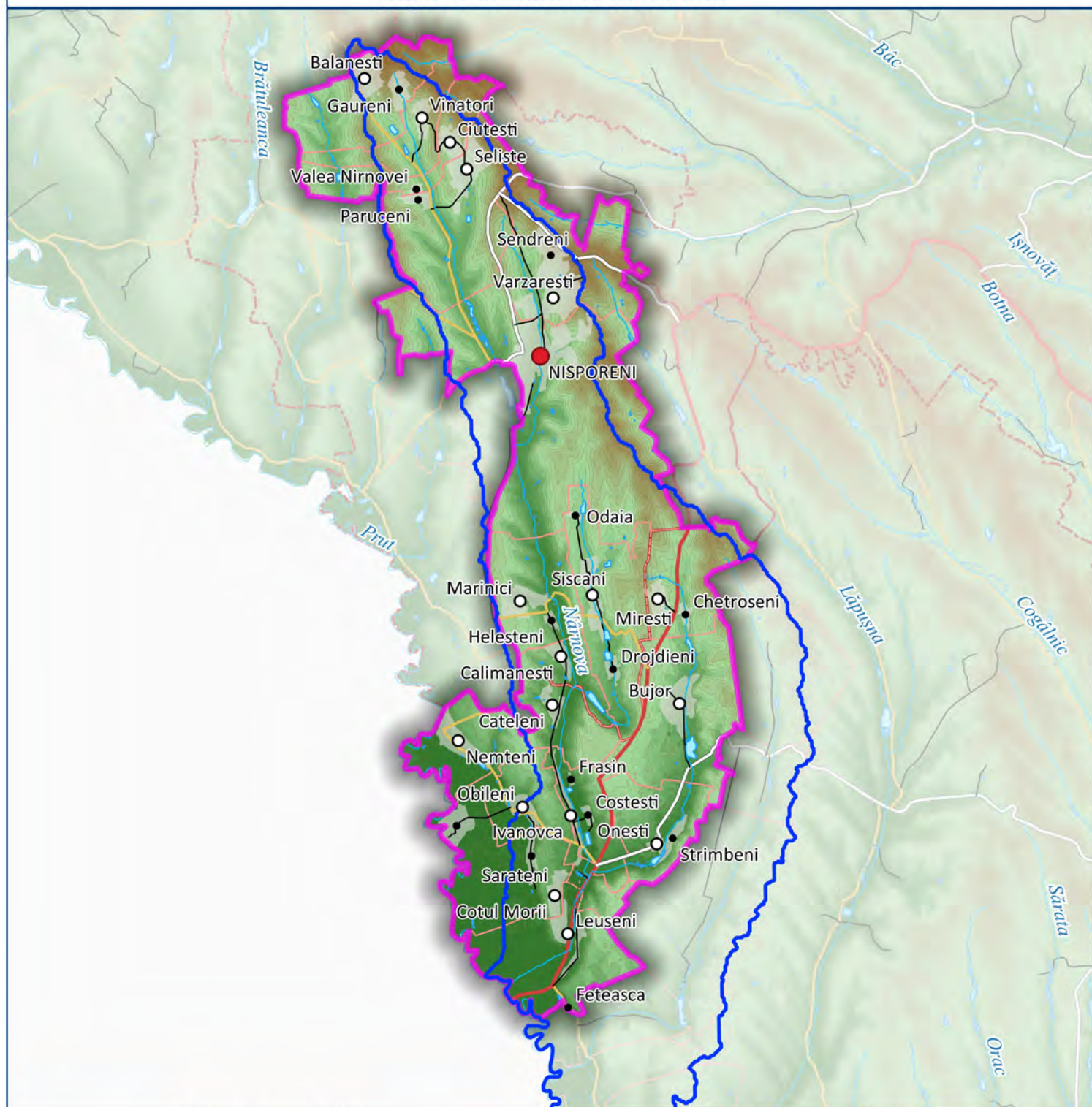
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Relief of the Nirnova river basin



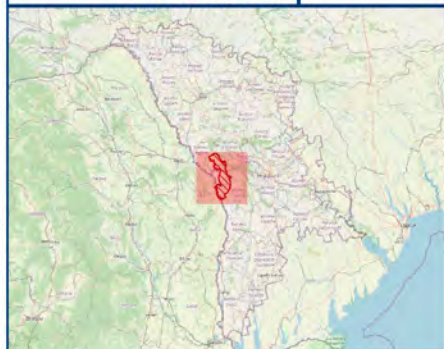
Thematic symbology

Elevation, m	100-125	225-250	350-375
>25	125-150	250-275	375-400
25-50	150-175	275-300	400-425
50-75	175-200	300-325	<425
75-100	200-225	325-350	

Background layer legend

Study Area	Settlements	Localities	Roads
Nirnova basin	Commune limits	city	Express
Lakes	Rayon limits	commune	Republican
Rivers		village	Regional
			Local

Location Map



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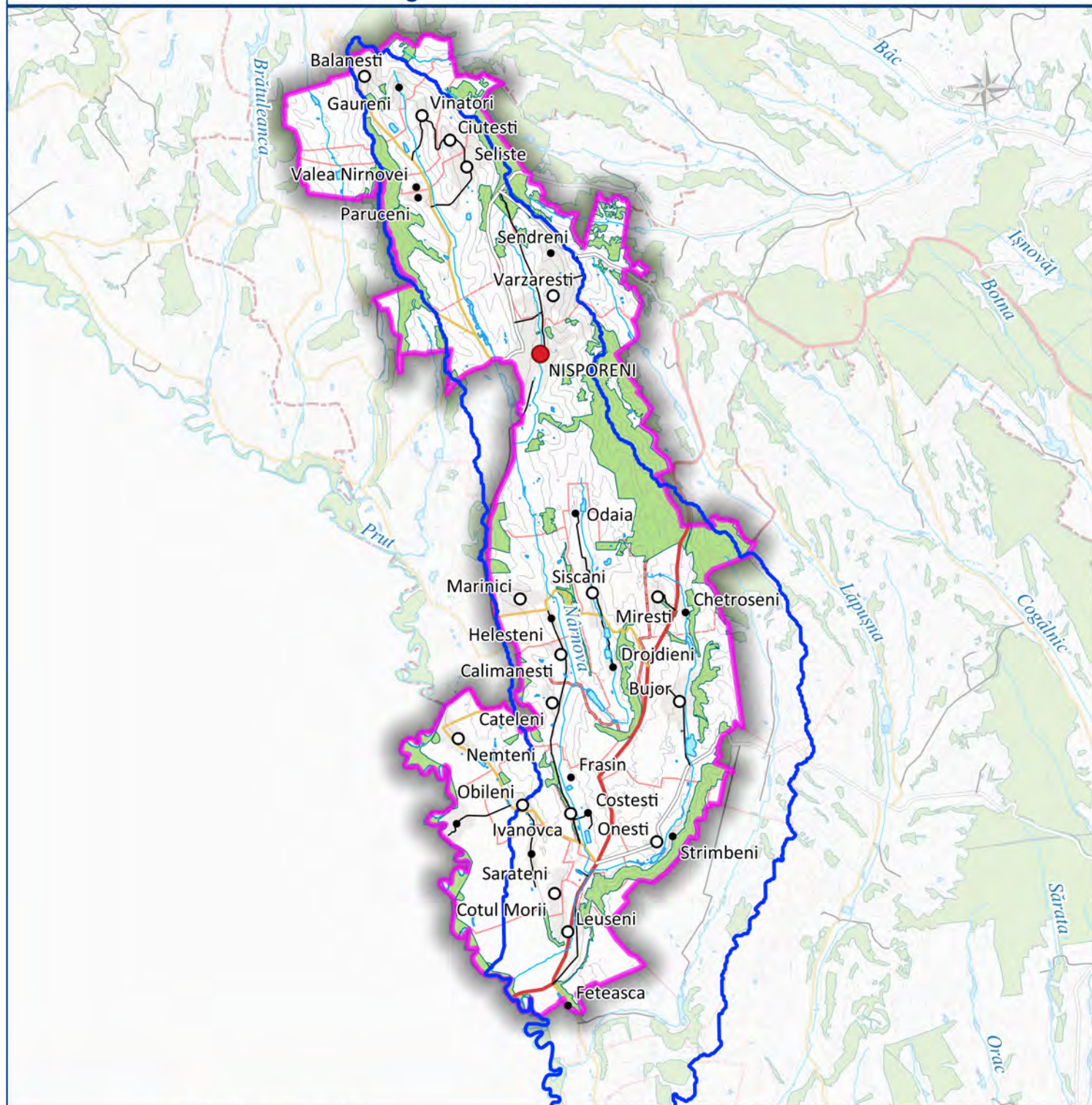
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Vegetation of the Nirnova basin



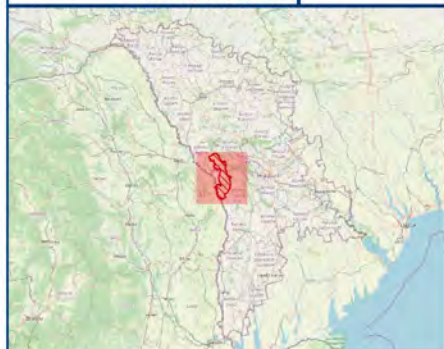
Thematic symbology

Forests

Background layer legend

Study Area
Nirnova basin
Lakes
Rivers
Settlements
Commune limits
Rayon limits
Localities
city
commune
village
Roads
Express
Republican
Regional
Local

Location Map



Systeme Coordination
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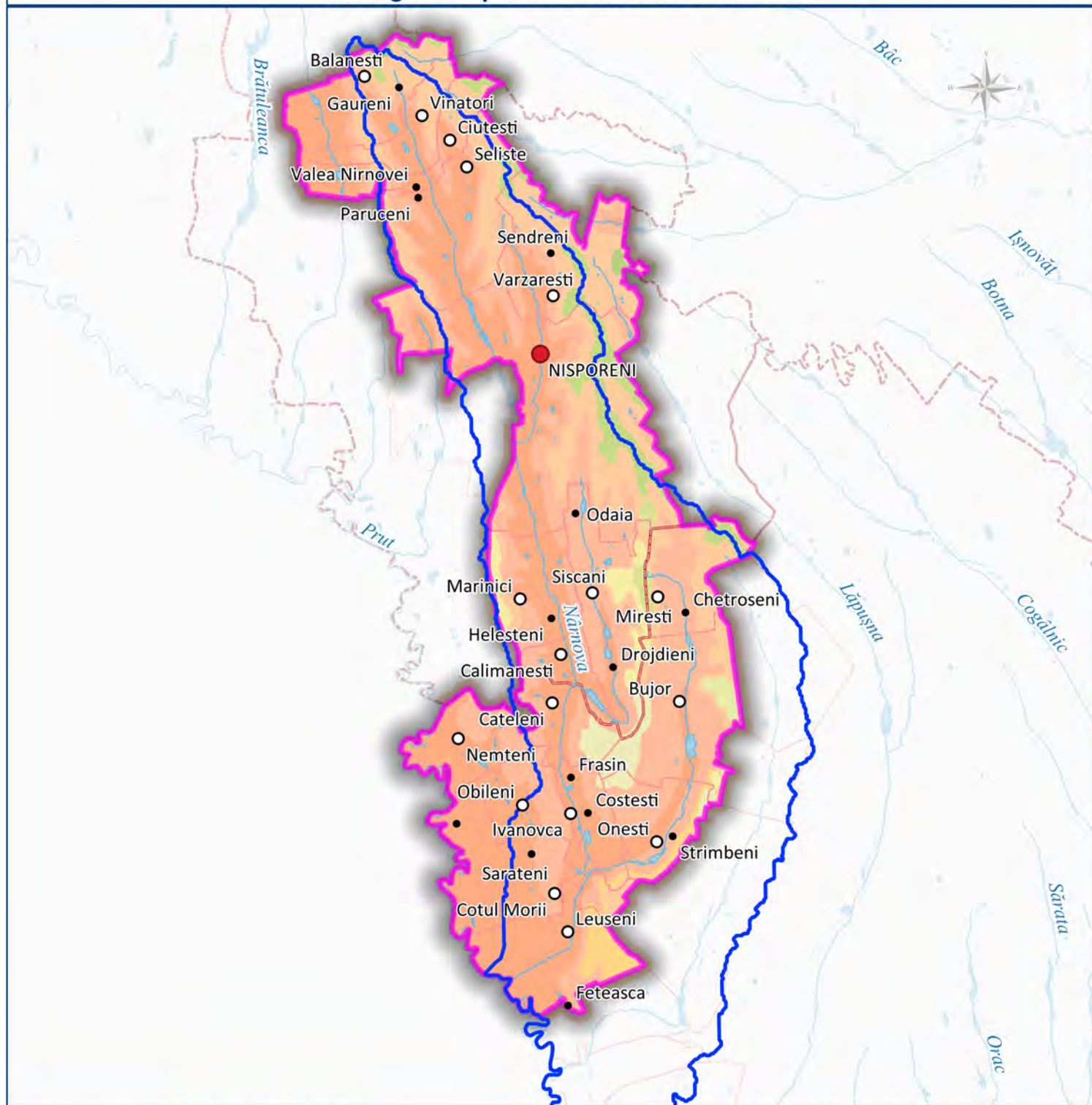
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Geological map of the Nirnova basin area



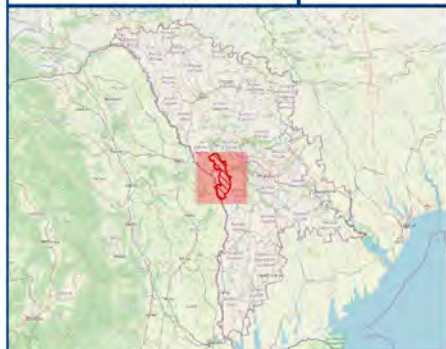
Thematic symbology

Lower Bessarabian	Middle Akchagyan
Upper Bessarabian	Upper Akchagyan
Chersonian	Lower Kimmerian
Chersonian - Meotian	Middle Kimmerian
Lower Akchagyan	Upper Kimmerian

Background layer legend

Study Area	Settlements	Localities
Nirnova basin	Commune limits	city
Lakes	Rayon limits	commune
Rivers		village

Location Map



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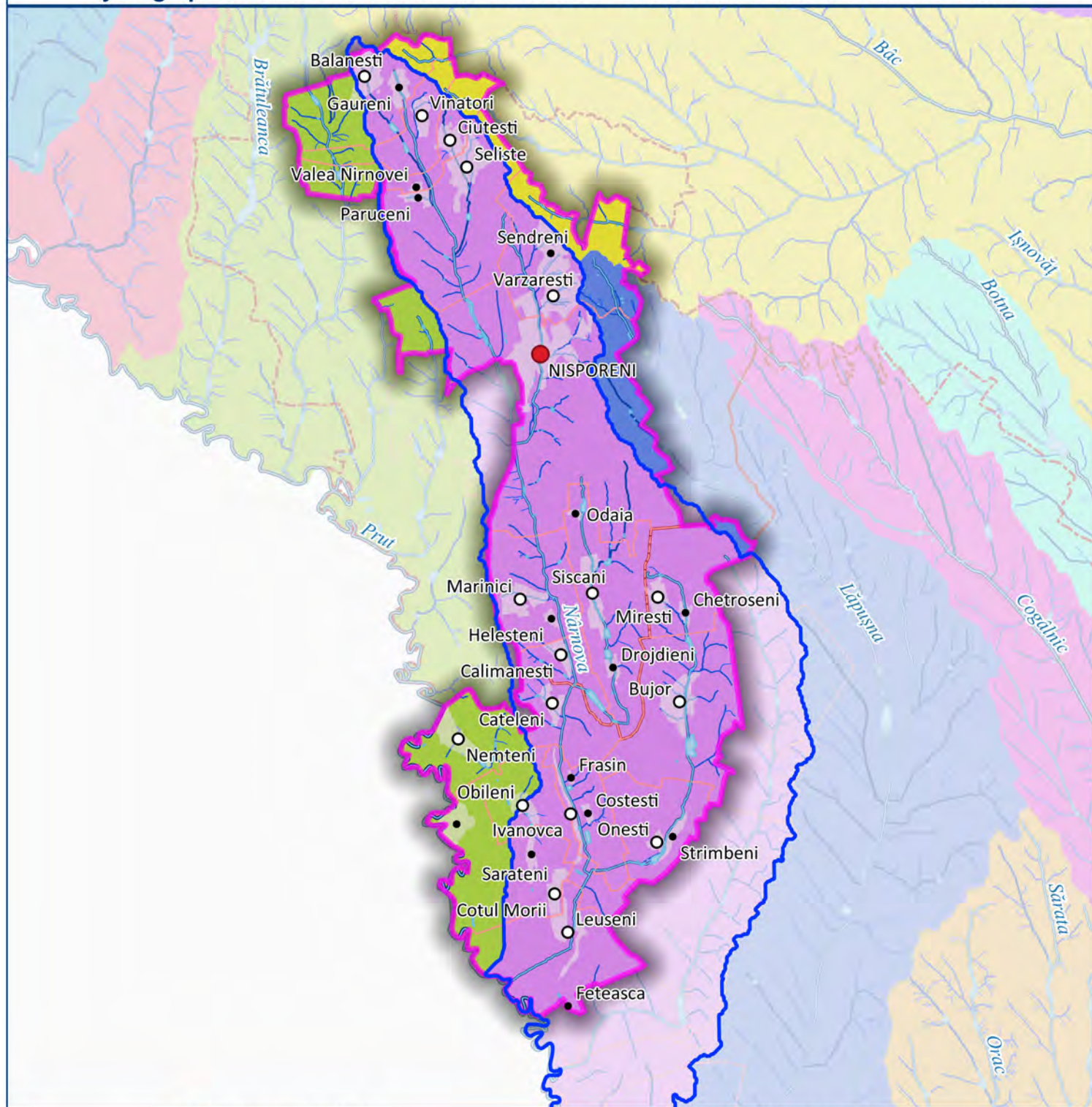
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Hydrographic network and water accumulations in the area of the Nirnova sub-basin



Thematic symbology

River length

- 0 - 1000
- 1000 - 5000
- 5000 - 10000
- 10000 - 100000
- 100000 - 707819

Sub-basins

- Bac
- Botna
- Brătuleanca
- Cogălnic
- Delia

- Ichel
- Lăpușna
- Nârnova
- Sărata
- Vârșava

Background layer legend

Study Area

- Nirnova basin
- Lakes
- Rivers

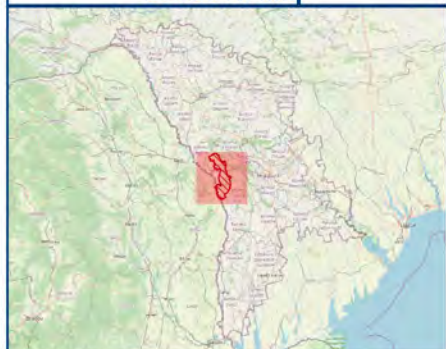
Settlements

- Commune limits
- Rayon limits

Localities

- city
- commune
- village

Location Map



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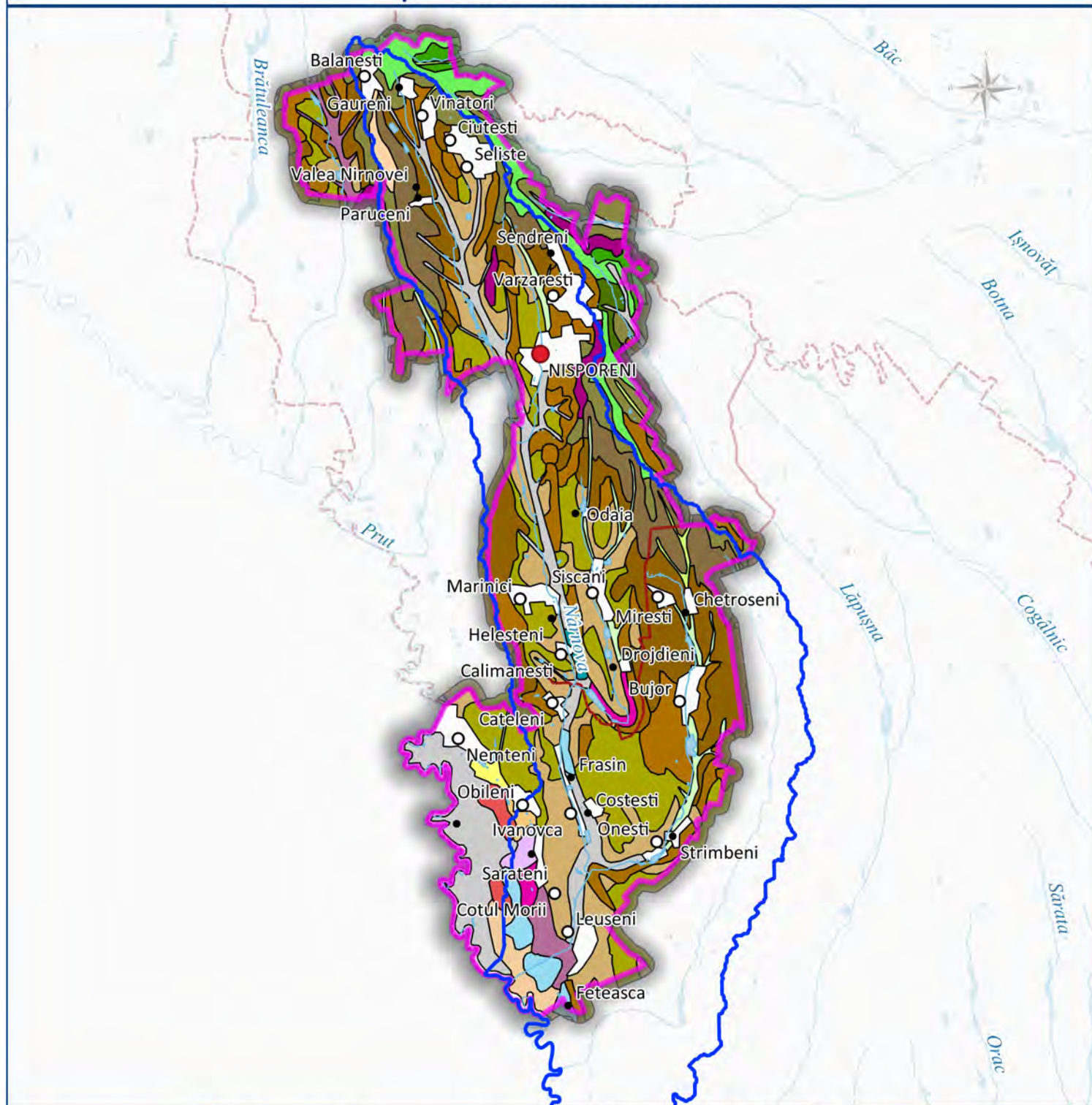
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Map of soils in the Nirnova basin



Thematic symbology

Solonet - Solonceac	Sol brun tipic	Sol aluvial stratificat
Solonet	Sol brun levigat	Sol aluvial hidric salinizat
Sol deluvial oric	Sol brun cu alunecări	Sol aluvial hidric
Sol deluvial molic	Sol aluvial vertic	Cernoziom slab humifer
Sol cenușiu cu alunecări	Sol al. tipic salinizat	C. moderat humifer
Sol cenușiu tipic	Sol a. solonet-salin	C. levigat
Sol cenușiu molic	Sol al. tipic solonetzizat	C. cu alunecări
Sol cenușiu albic	Sol aluvial tipic	C. carbonatat

Background layer legend

Study Area	Settlements	Localities
Nirnova basin	Commune limits	city
Lakes	Rayon limits	commune
Rivers		village

Location Map



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WGS 84 Zone 35N

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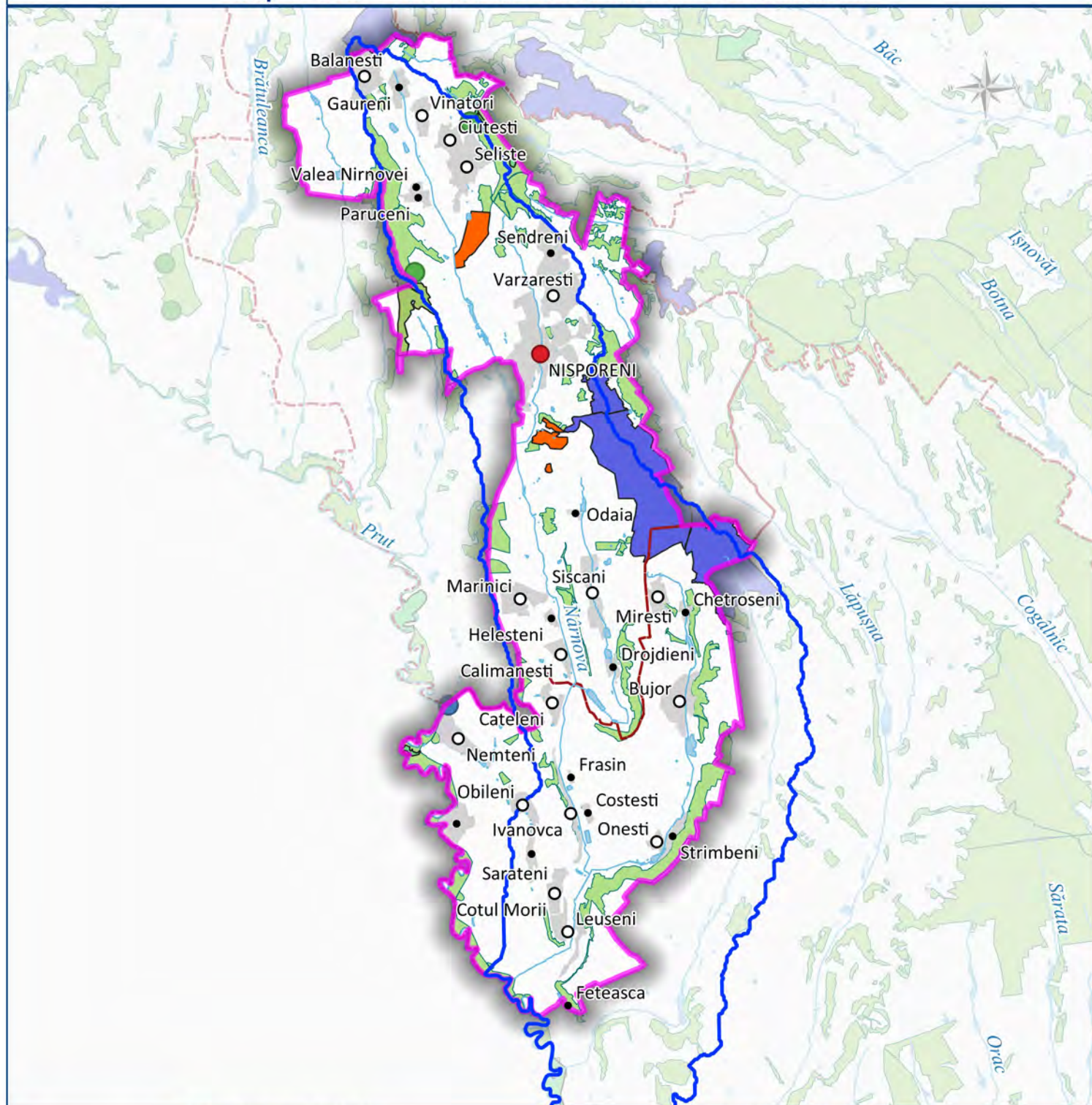
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Map of State Protected Natural Areas in the Nirnova basin



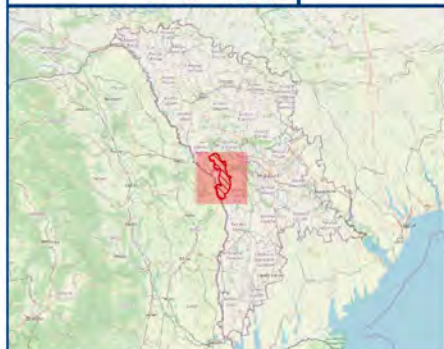
Thematic symbology

- | | |
|--|------------------------|
| Monuments of Landscape Architecture | Botanical Monuments |
| Geological and Paleontological Monuments | Hydrological Monuments |
| Mixed Nature Reserves | |
| Natural reservations of forestry | |
| Landscape Reservations | |
| Forest Reservations | |

Background layer legend

- | | | |
|---------------|----------------|---|
| Study Area | Settlements | Localities
city
commune
village |
| Nirnova basin | Commune limits | |
| Lakes | Rayon limits | |
| Rivers | | |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

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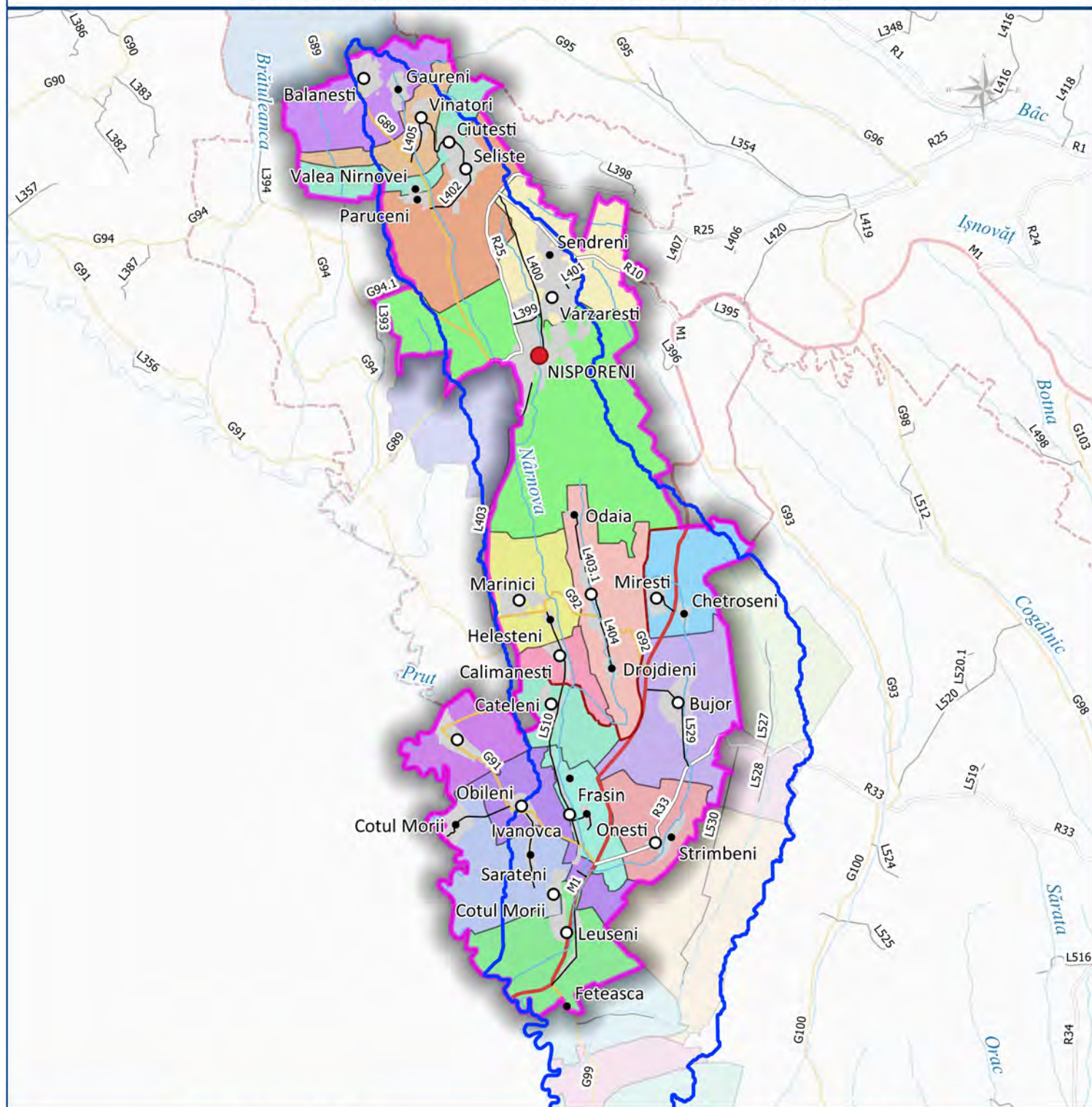
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Infrastructure of the road network in the Nirnova basin



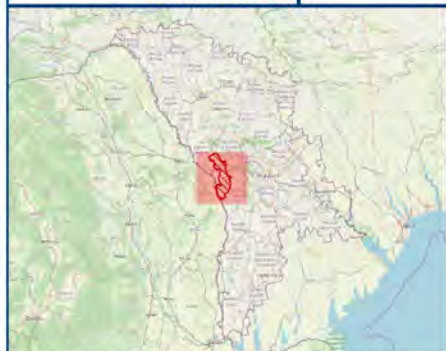
Thematic symbology

- Roads**
- Express
 - Republican
 - Regional
 - Local

Background layer legend

- Study Area
- Nirnova basin
- Rivers
- Settlements
- Commune limits
- Rayon limits
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
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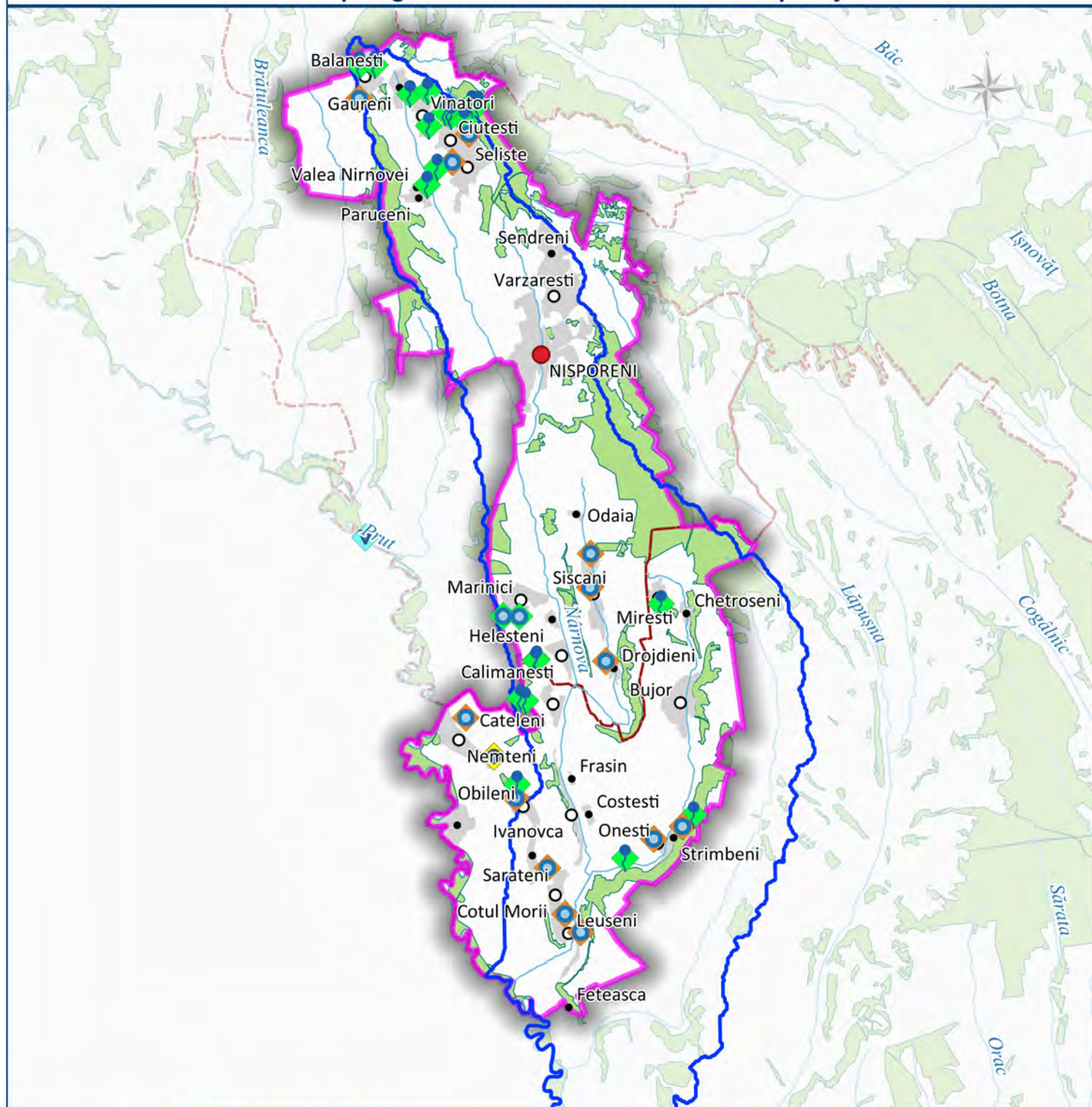
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The map of groundwater resources and water quality



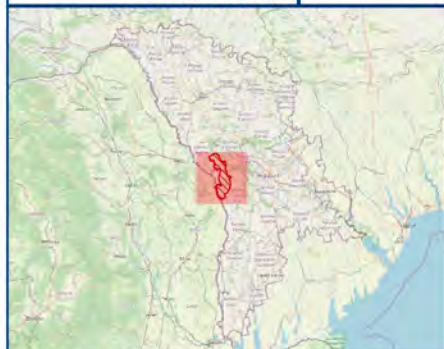
Thematic symbology

Source	Water quality	
● springs	◆ drinking water	◆ raw water
● well	◆ raw/treated water	◆ technical water
▲ river		
● lake		

Background layer legend

Study Area	Settlements	Localities
Nimova basin	Commune limits	● city
Rivers	Rayon limits	○ commune
		● village

Location Map



Systeme Coordination
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WGS 84 Zone 35N

Scale

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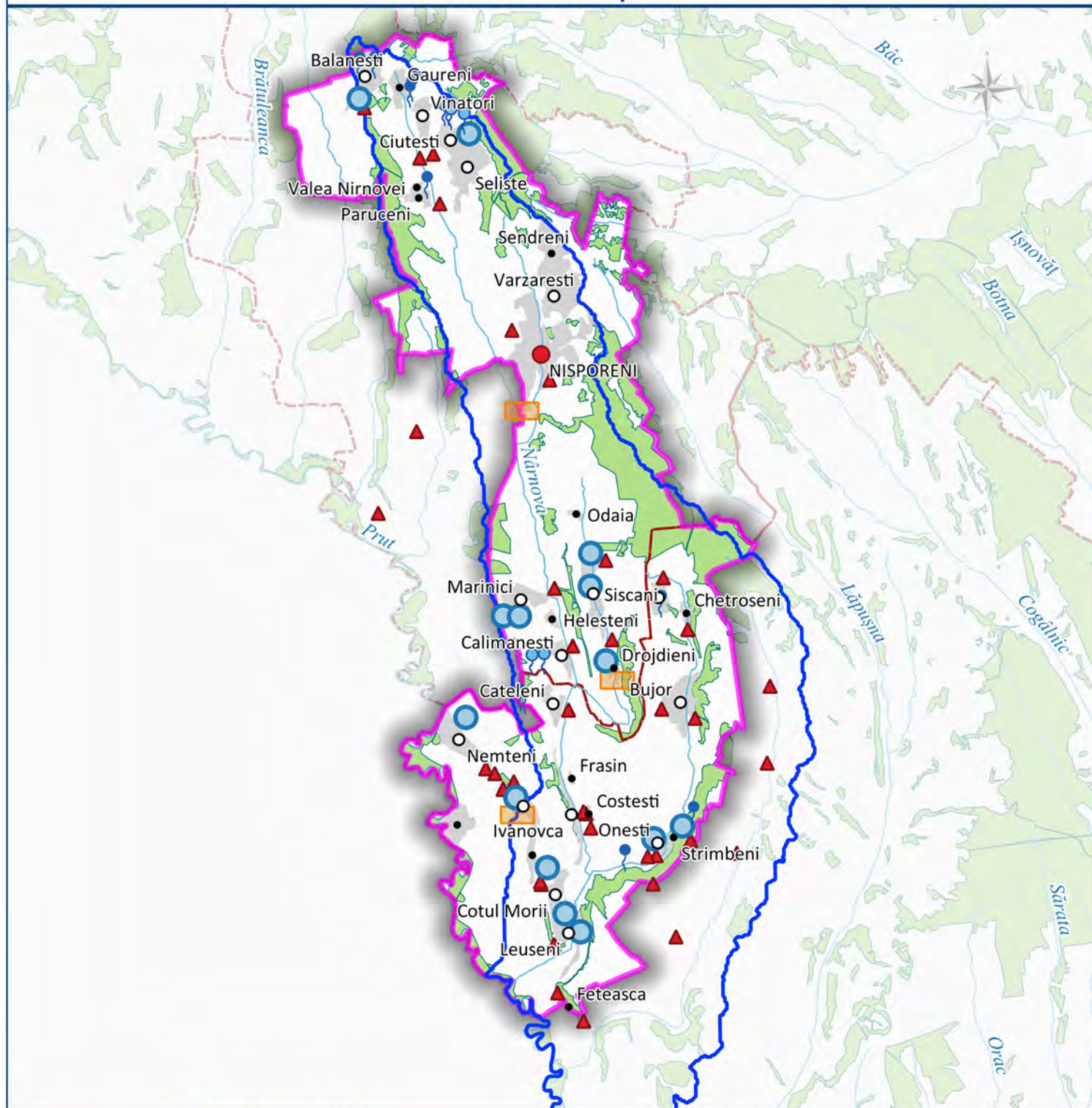
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The main sources of pollution



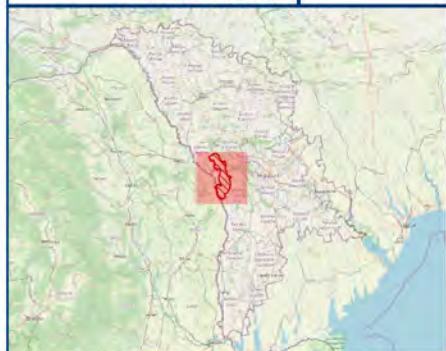
Thematic symbology

- Springs
- Captured springs
- Fountains
- Dumps
- Wastewater treatment plants

Background layer legend

- Study Area
- Nimova basin
- Rivers
- Forests
- Settlements
- Commune limits
- Rayon limits
- Localities**
 - city
 - commune
 - village

Location Map



Systeme Coordination
Reference

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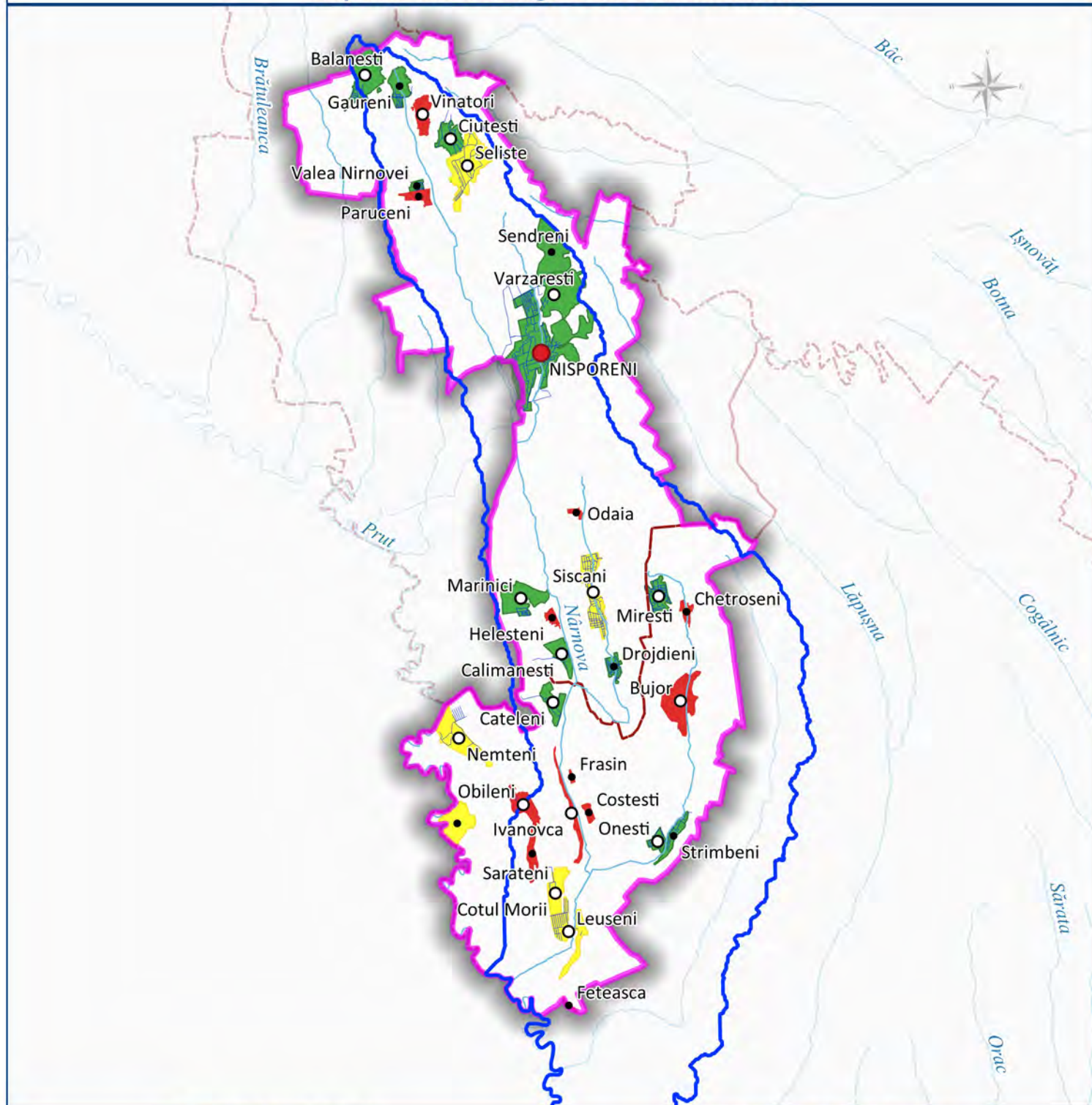
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Map with the coverage areas of the network



Thematic symbology

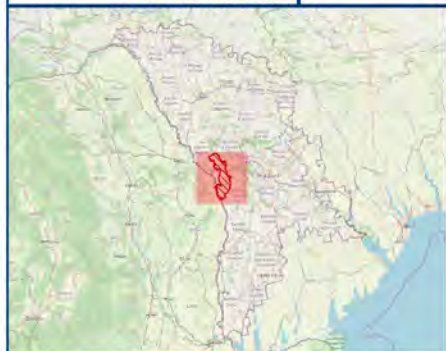
Water supply system:

- no water supply system
- poor quality of water
- good quality of drinking water
- Water system supply network

Background layer legend

- Study Area
- Nîmova basin
- Rivers
- Commune limits
- Rayon limits
- Localities**
- city
- commune
- village

Location Map



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Reference

WGS 84 Zone 35N

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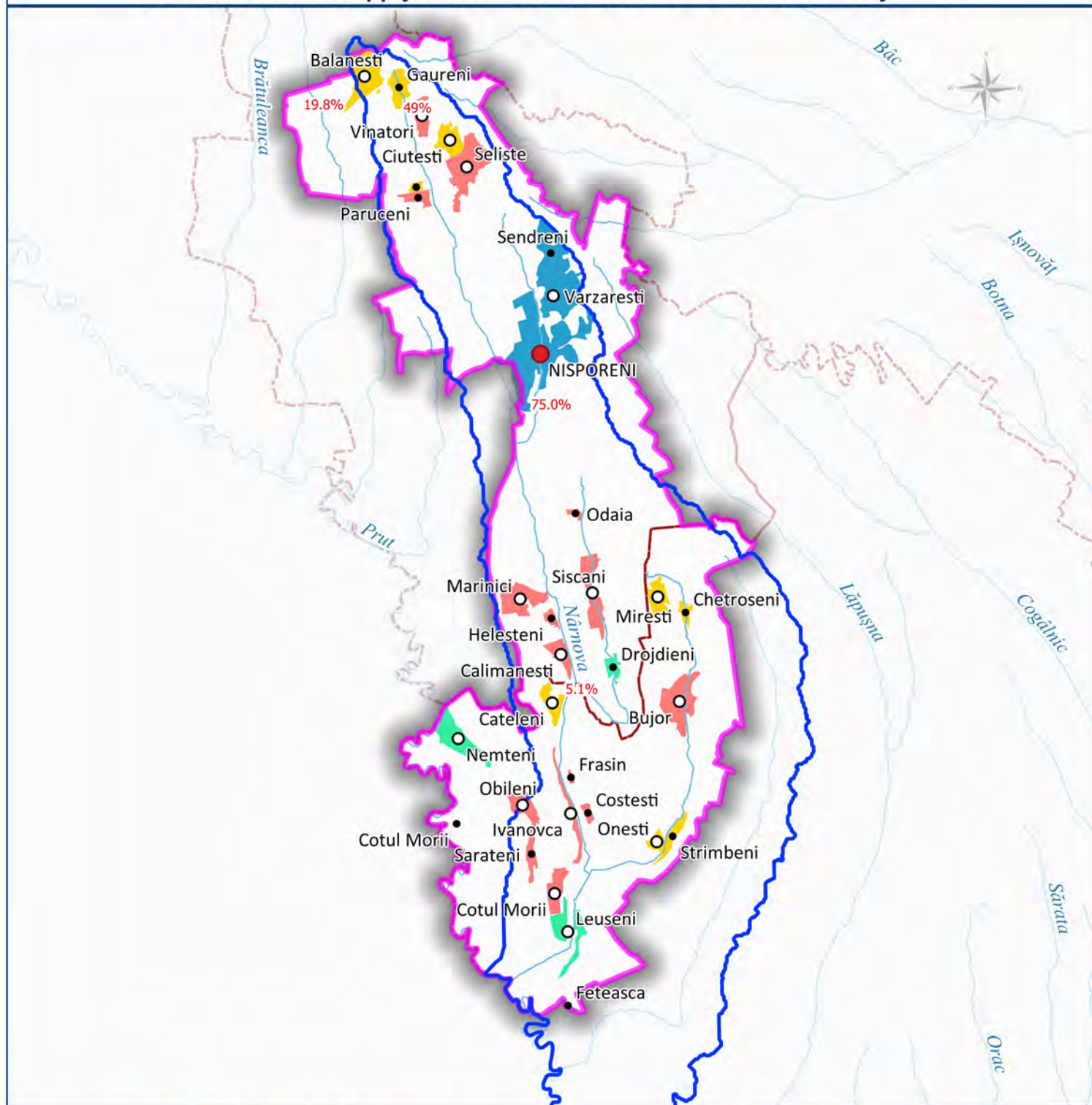
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Sources of water supply of localities and connection rates to the systems



Thematic symbology

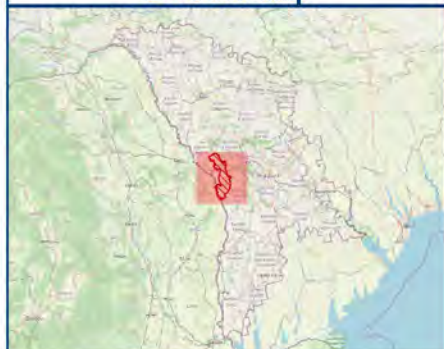
Sources

- water supply from underground sources
- water supply from springs
- water supply from surface sources
- no water service available

Background layer legend

- Study Area
- Nîmova basin
- Commune limits
- Rayon limits
- Rivers
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
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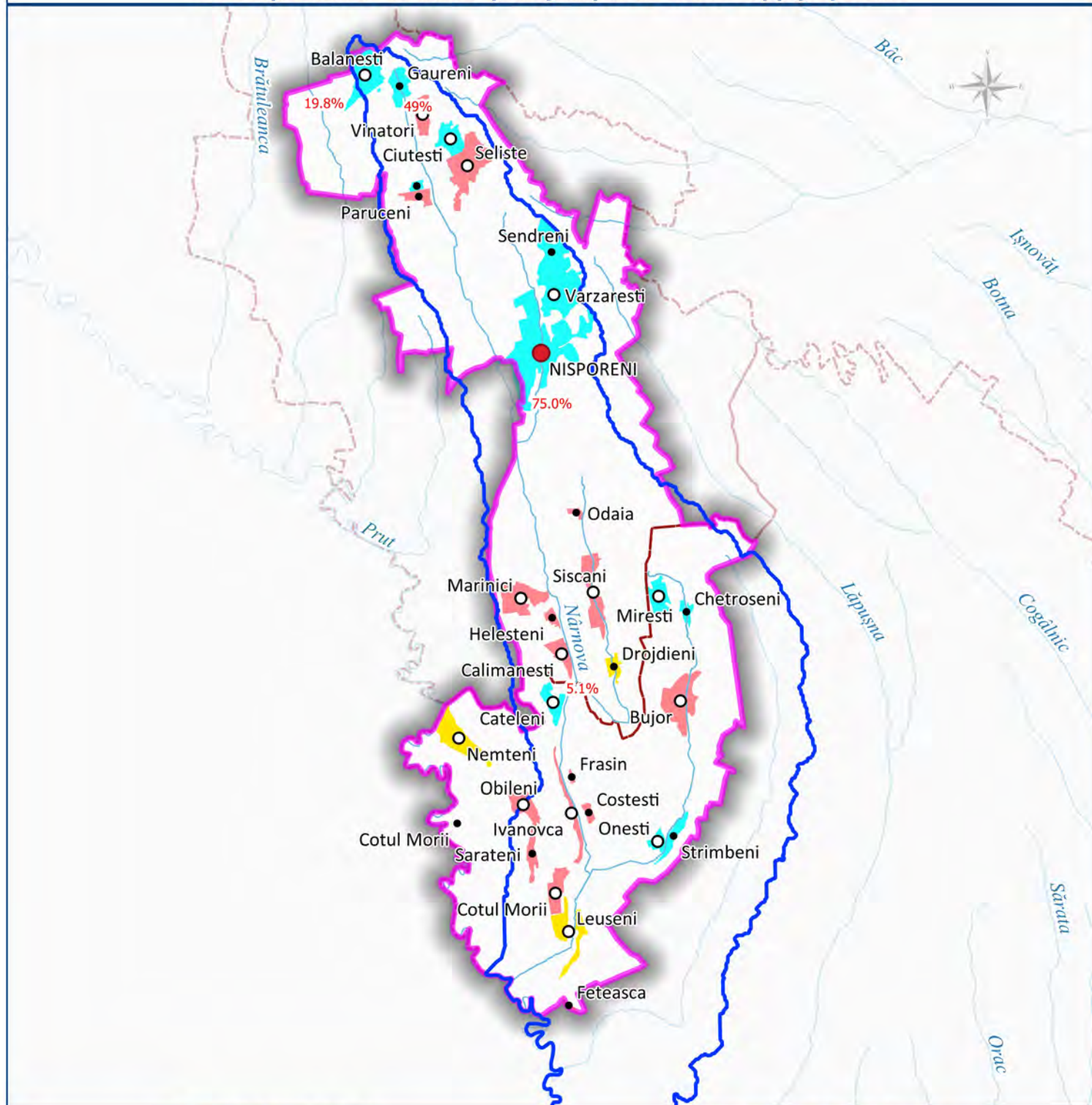
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Correspondence of water quality in public water supply systems



Thematic symbology

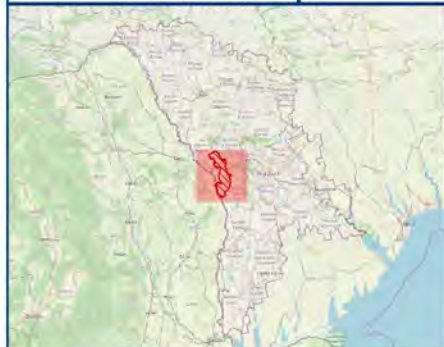
Water quality in the system

- corresponds to the established norms
- does not corresponds to the norms
- no water service available

Background layer legend

- Study Area
- Nîmova basin
- Rivers
- Commune limits
- Rayon limits
- Localities
- city
- commune
- village

Location Map



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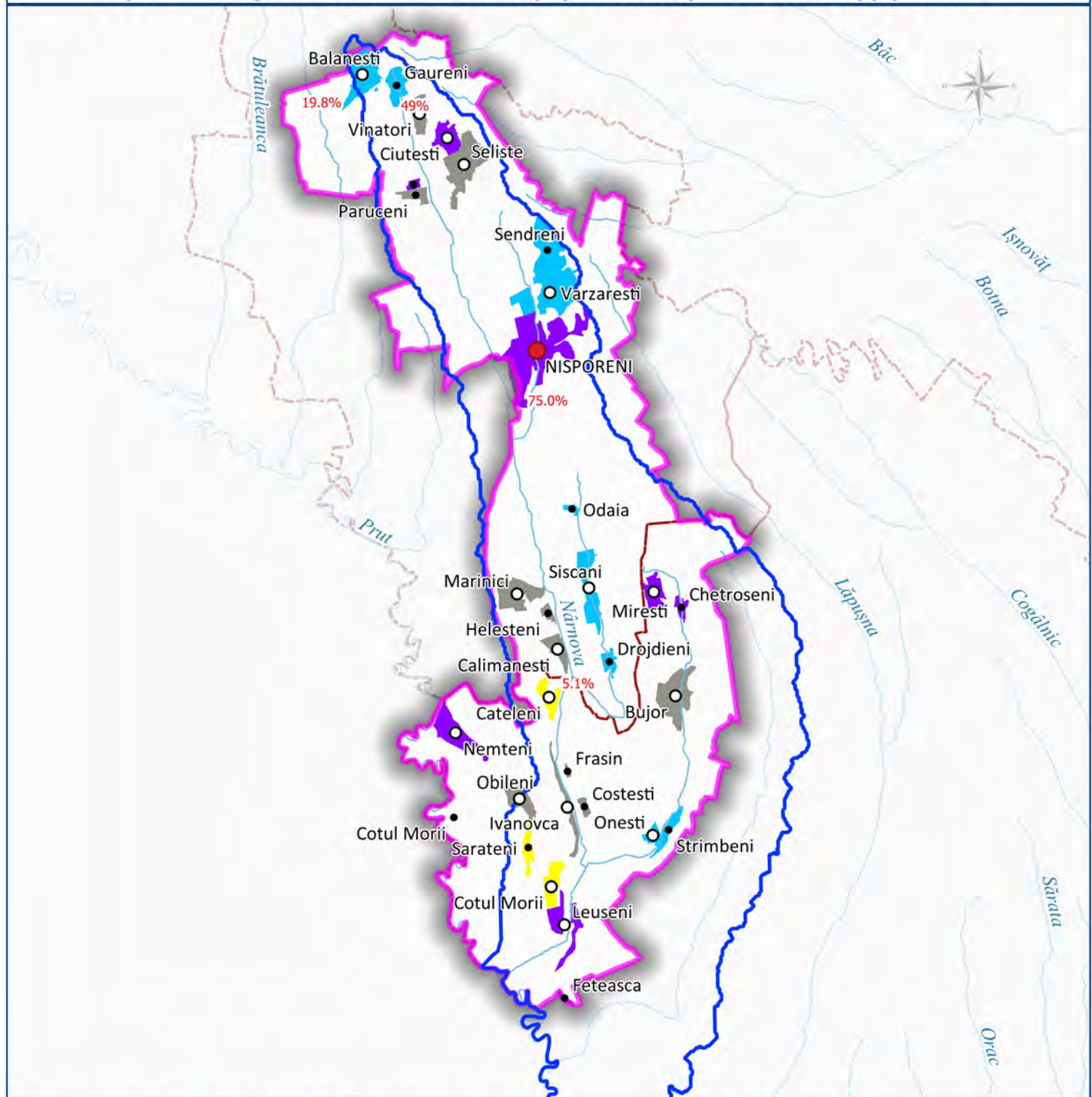
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Map on the degree of connection of the population to public water supply services



Thematic symbology

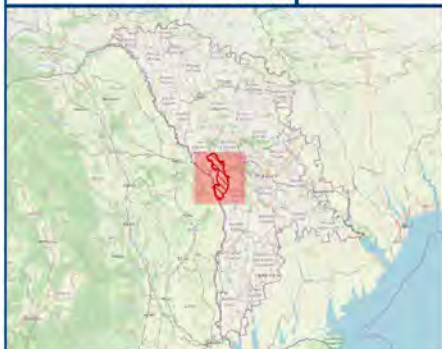
Connection rate to the WSS

- no service available
- connection rate <10%
- connection rate 10%-50%
- connection rate >50%

Background layer legend

- Study Area
- Commune limits
- Rayon limits
- Rivers
- Localities
- city
- commune
- village

Location Map



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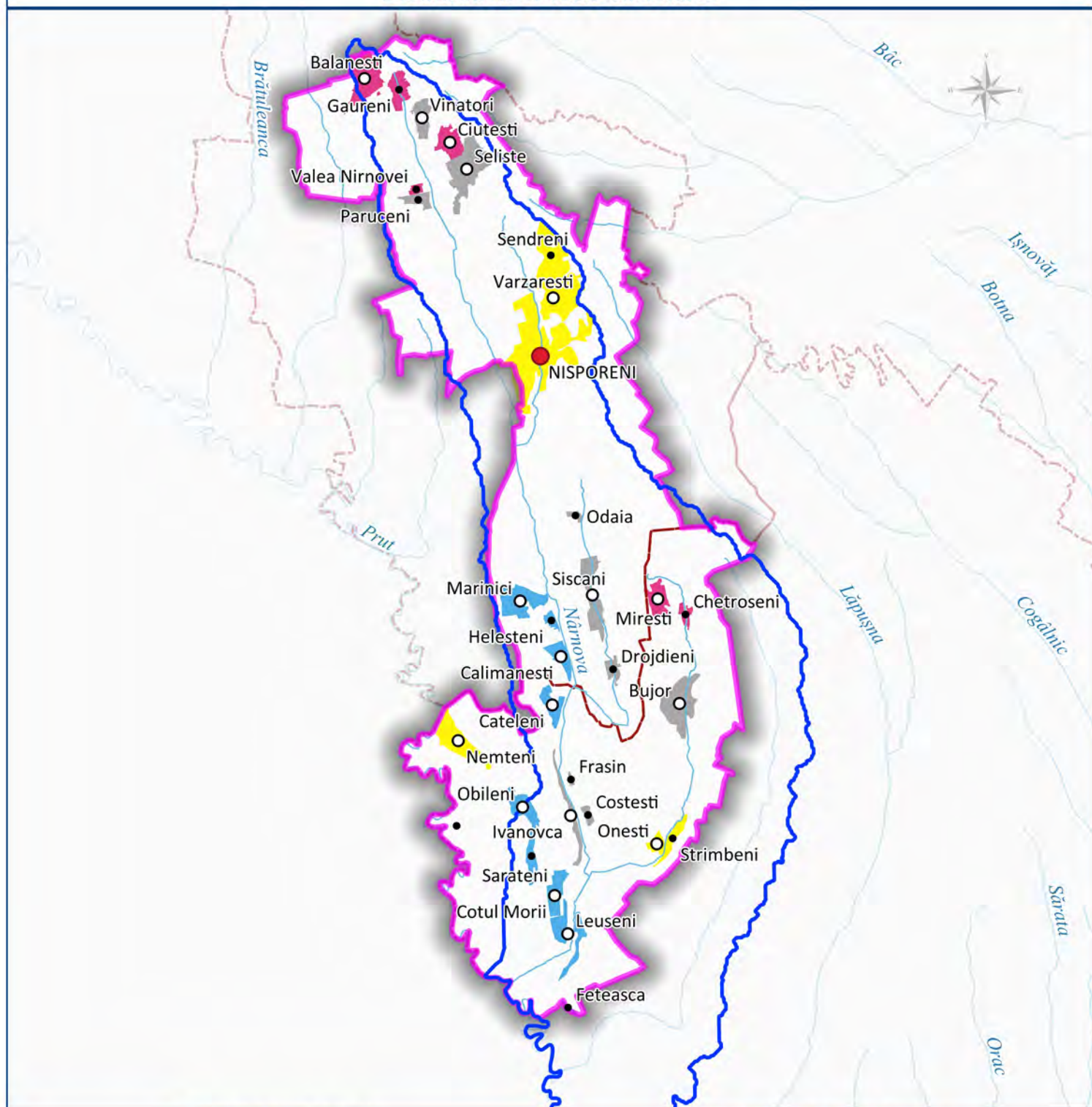
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Distribution of WSS structures



Thematic symbology

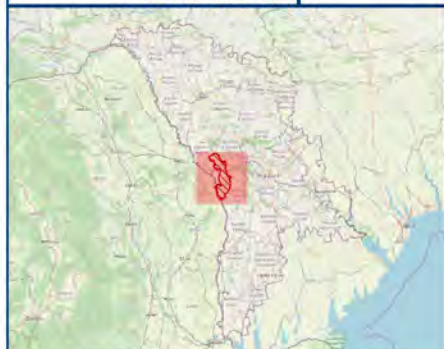
WSS structures

- Municipal Enterprise
- Public Association
- The village hall
- no WWS services

Background layer legend

- Study Area
- Nimova basin
- Commune limits
- Rayon limits
- Rivers
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

AO OIKUMENA

Elaboration, revision, approval

Path

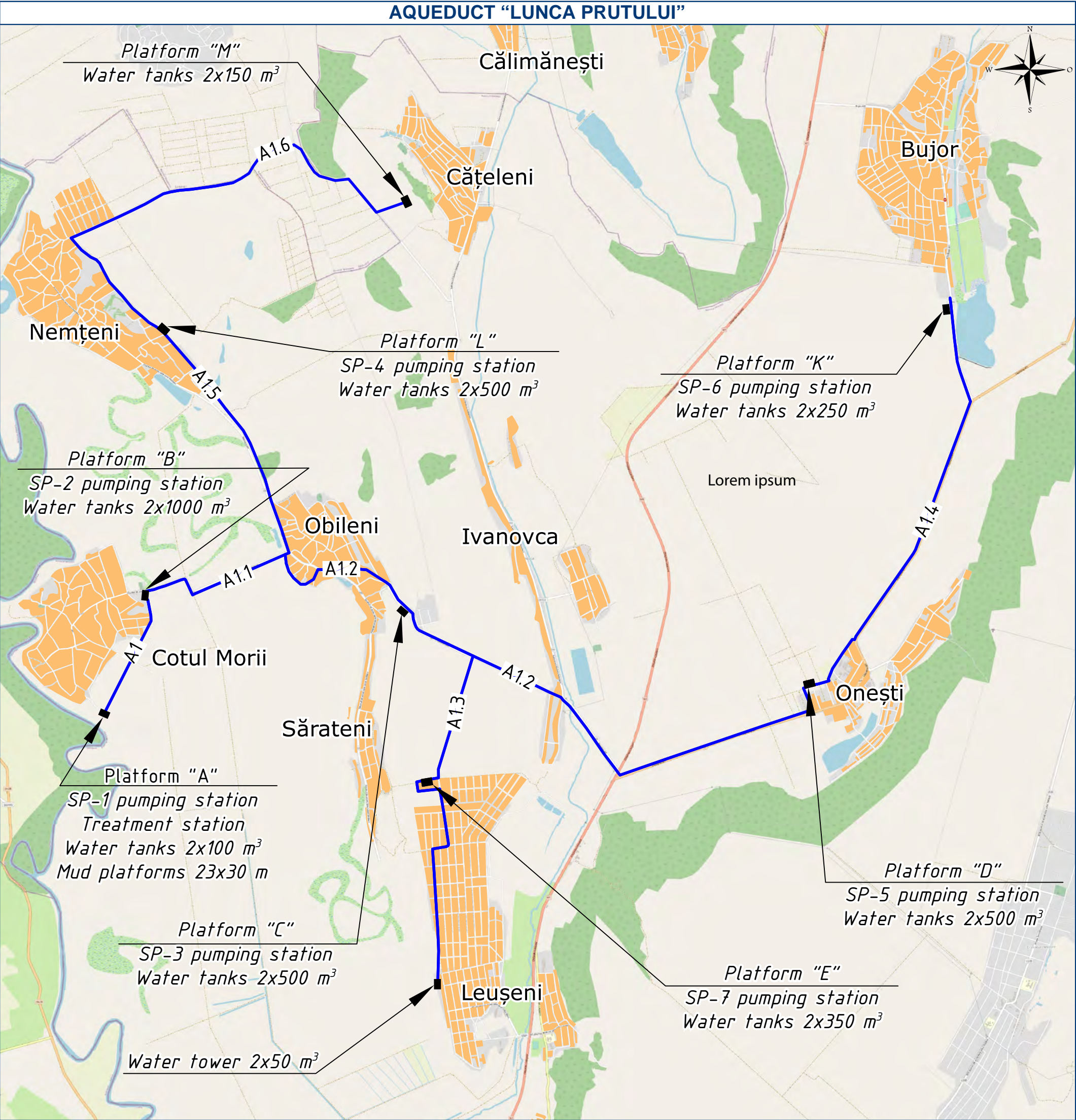
Date

Scale

Activity implemented by Umweltbundesamt,
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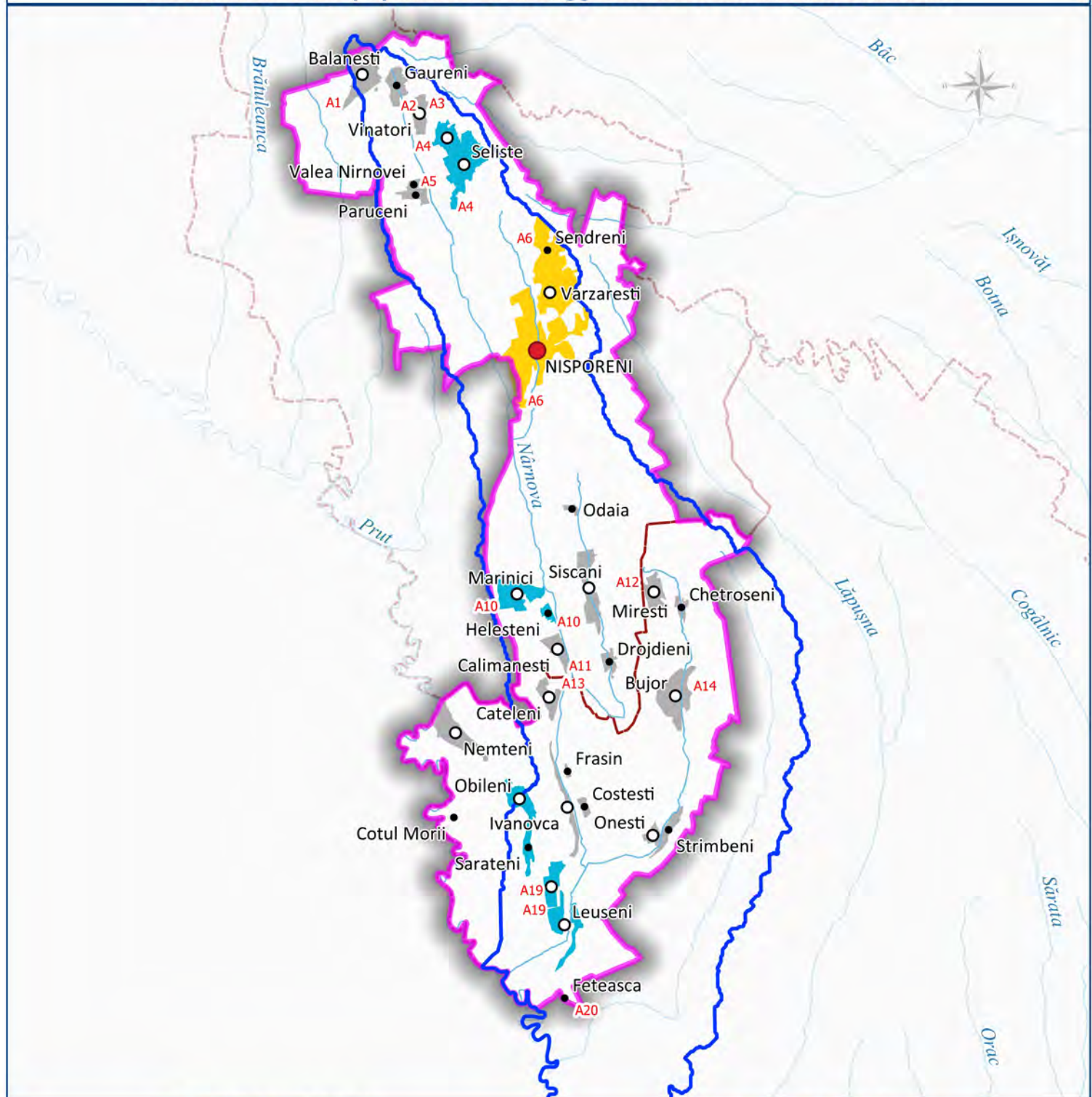
umweltbundesamt





<div>Thematic symbology</div> <div><div>water supply network</div></div>		<div>Legenda stratelor de fundal</div> <div><div>Study Area</div><div>Hydrographic sub-basin</div><div>Rivers</div><div>Lakes</div><div>Forests</div><div>Neighborhood</div><div>Settlements</div><div>Commune limits</div><div>Rayon limits</div></div>	
<div>Location Map</div> <div></div>		<div>Data source</div> <div><div>Name of the data sources</div><div><div></div><div>"European Union Water Initiative plus for Eastern Partnership Countries"</div></div><div>AO OIKUMENA</div><div><div>Elaboration, revision, approval</div><div>Path</div><div>Date</div><div>Scale</div></div></div>	
<div>Systeme Coordination Reference</div> <div>WGS 84 Zone 35 N</div> <div>Scale</div> <div>1:50.000</div>			

Distribution of the population of the Agglomerations in the Nirnova basin



Thematic symbology

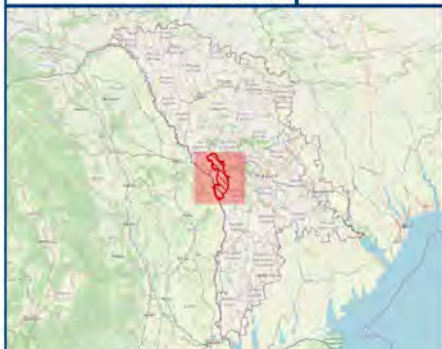
Agglomeration

- <10000 inhabitants
- 2000 - 10000 inhabitants
- >2000 inhabitants
- A1 Agglomeration

Background layer legend

- Study Area
- Nirnova basin
- Rivers
- - - Commune limits
- - - Rayon limits
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

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Path

Date

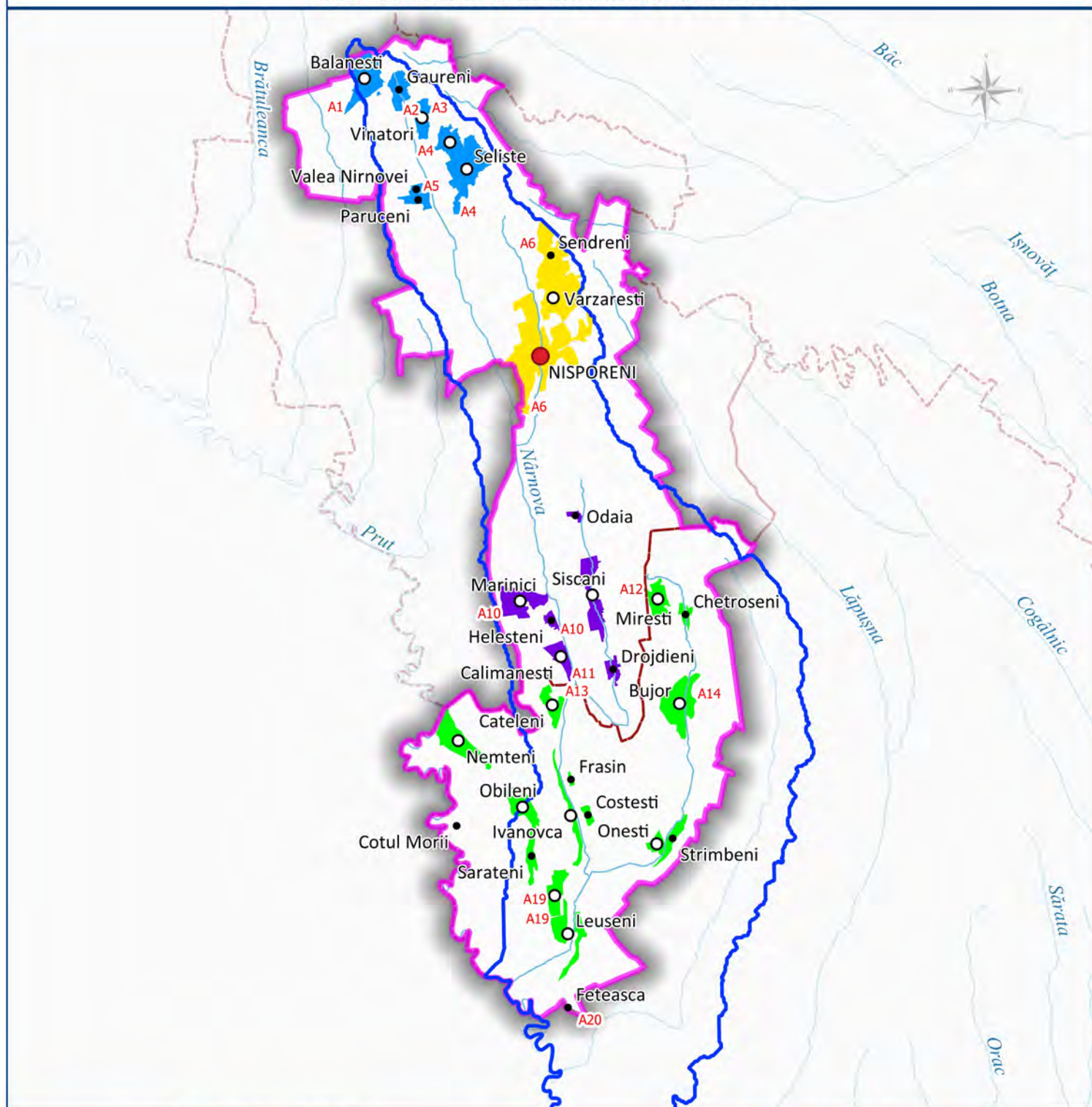
Scale

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Clusters identified in the Nirnova basin area



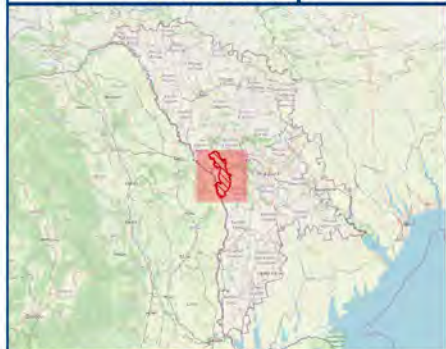
Thematic symbology

- Cluster 1
- Cluster 2
- Cluster 3
- Cluster 4
- A1 Agglomeration

Background layer legend

- Study Area
- Nirnova basin
- Rivers
- Commune limits
- Rayon limits
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

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Path

Date

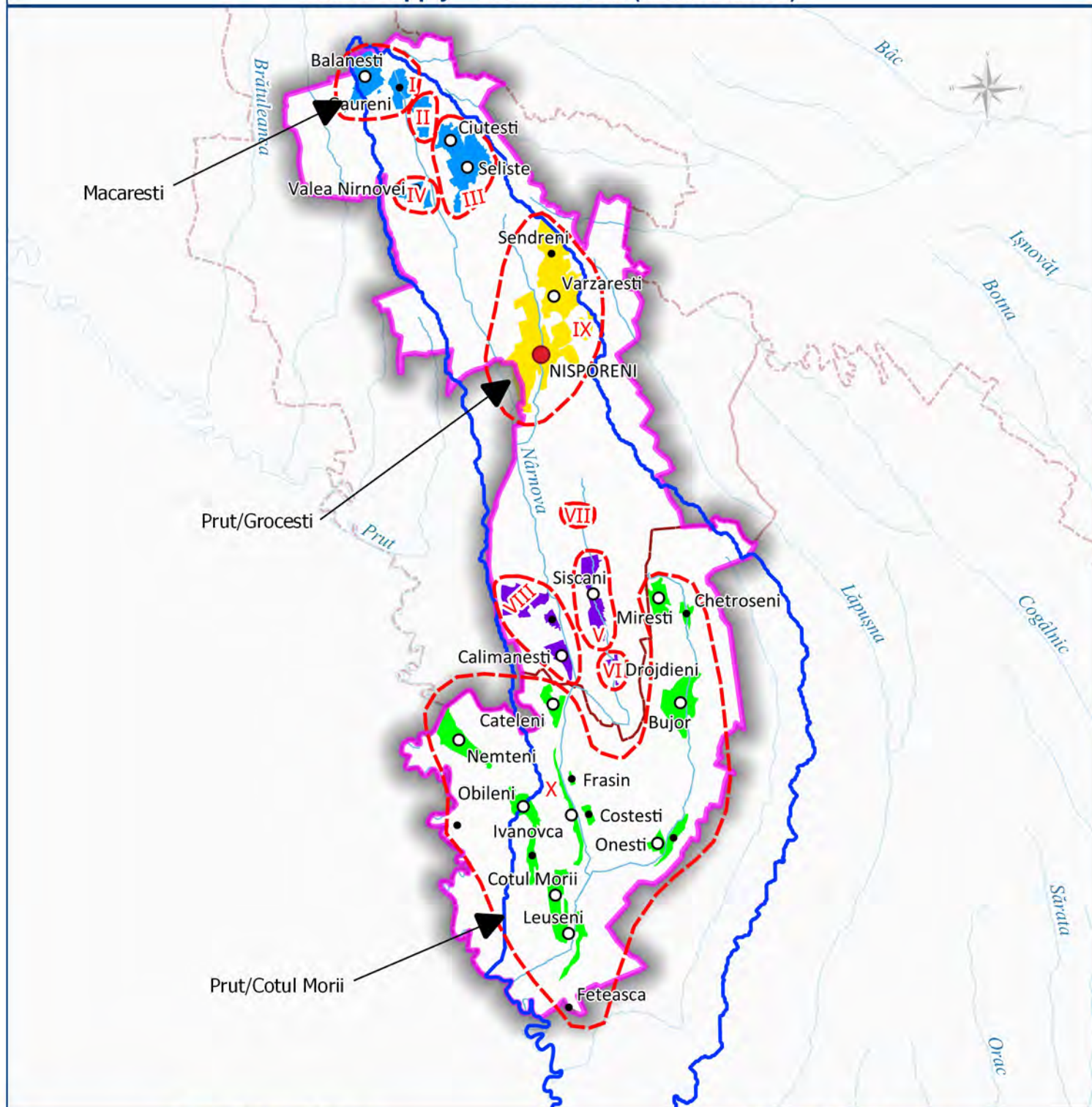
Scale

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Water supply – Scenario AA0 (decentralized)



Thematic symbology

- Cluster 1
- Cluster 2
- Cluster 3
- Cluster 4
- Scenario-AA0

Background layer legend

- Study Area
- Nîmova basin
- Commune limits
- Rayon limits
- Localities
- city
- commune
- village
- Rivers

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

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Path

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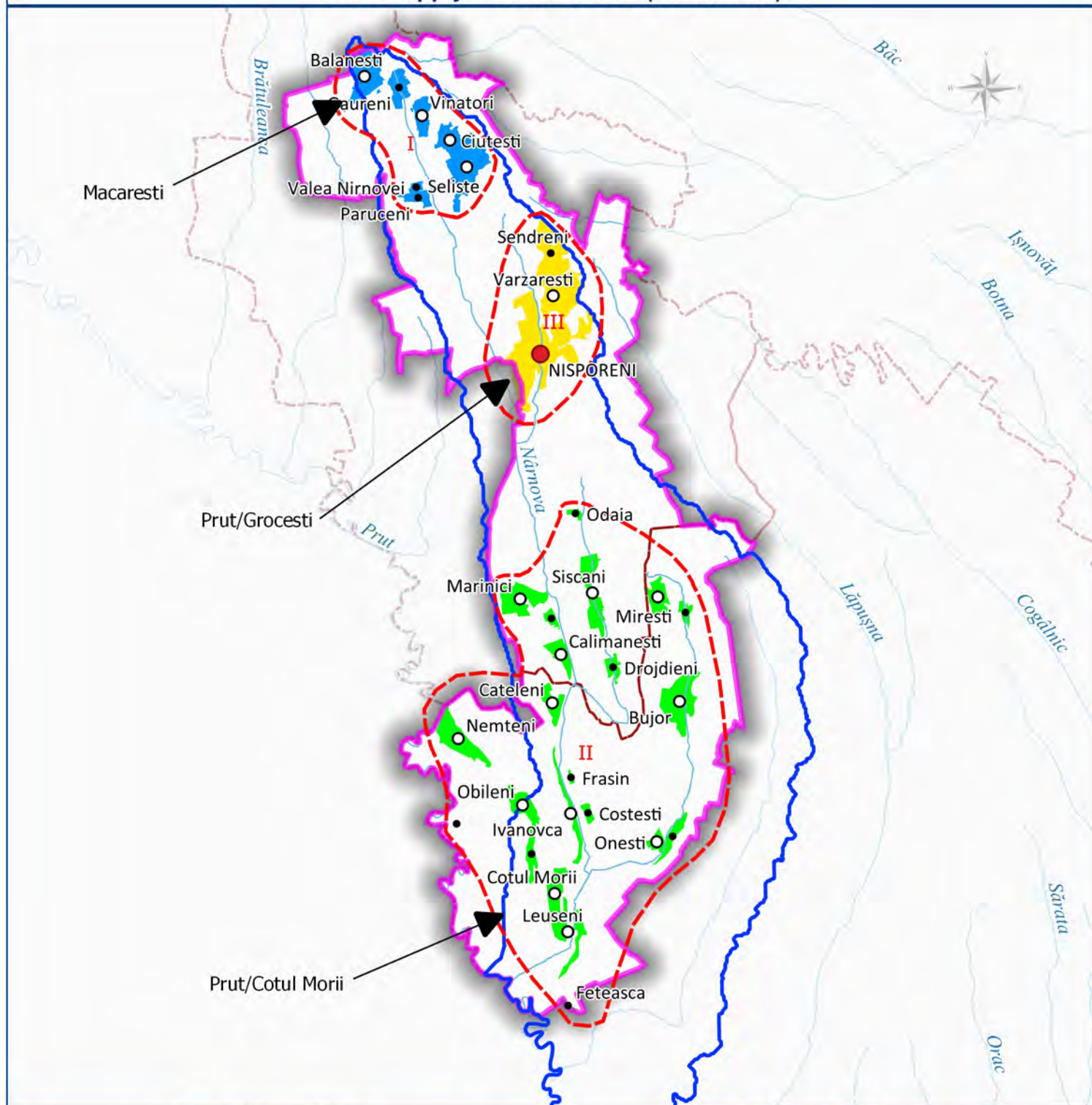
Scale

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Water supply – Scenario AA1 (centralized)



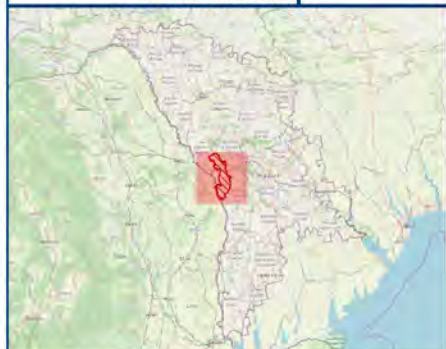
Thematic symbology

- Cluster 1
- Cluster 2
- Cluster 3
- Scenario-AA1

Background layer legend

- Study Area
- Nimova basin
- Commune limits
- Rayon limits
- Rivers
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

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Path

Date

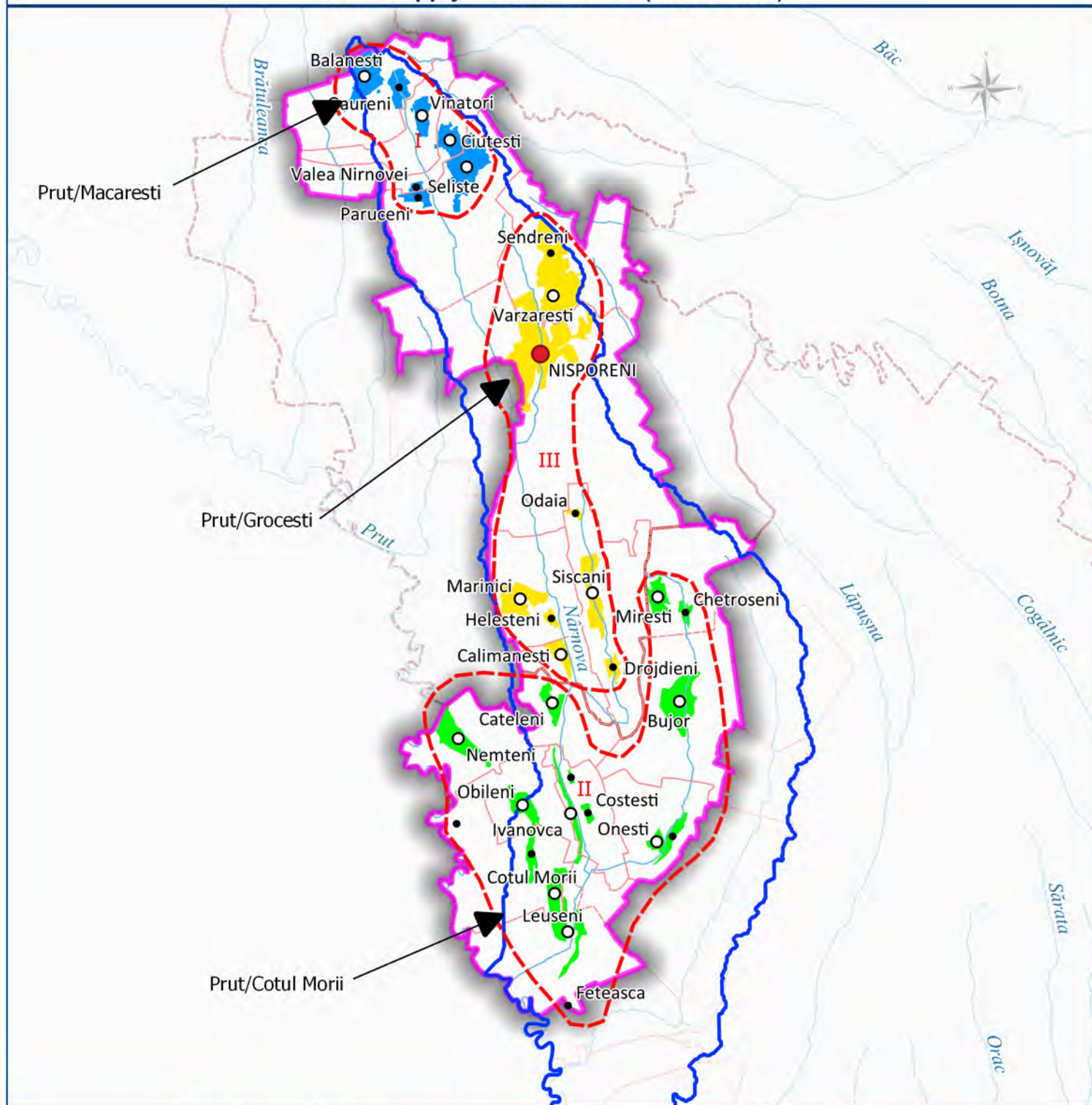
Scale

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Water supply – Scenario AA2 (Centralized)



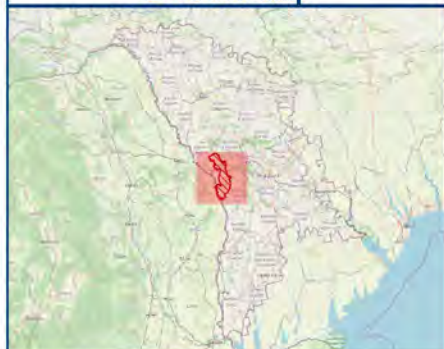
Thematic symbology

- Cluster 1
- Cluster 2
- Cluster 3
- Scenario-AA2

Background layer legend

- Study Area
- Nîmova basin
- Commune limits
- Rayon limits
- Rivers
- Localities**
 - city
 - commune
 - village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275,000

Data source

Name of the data sources



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Path

Date

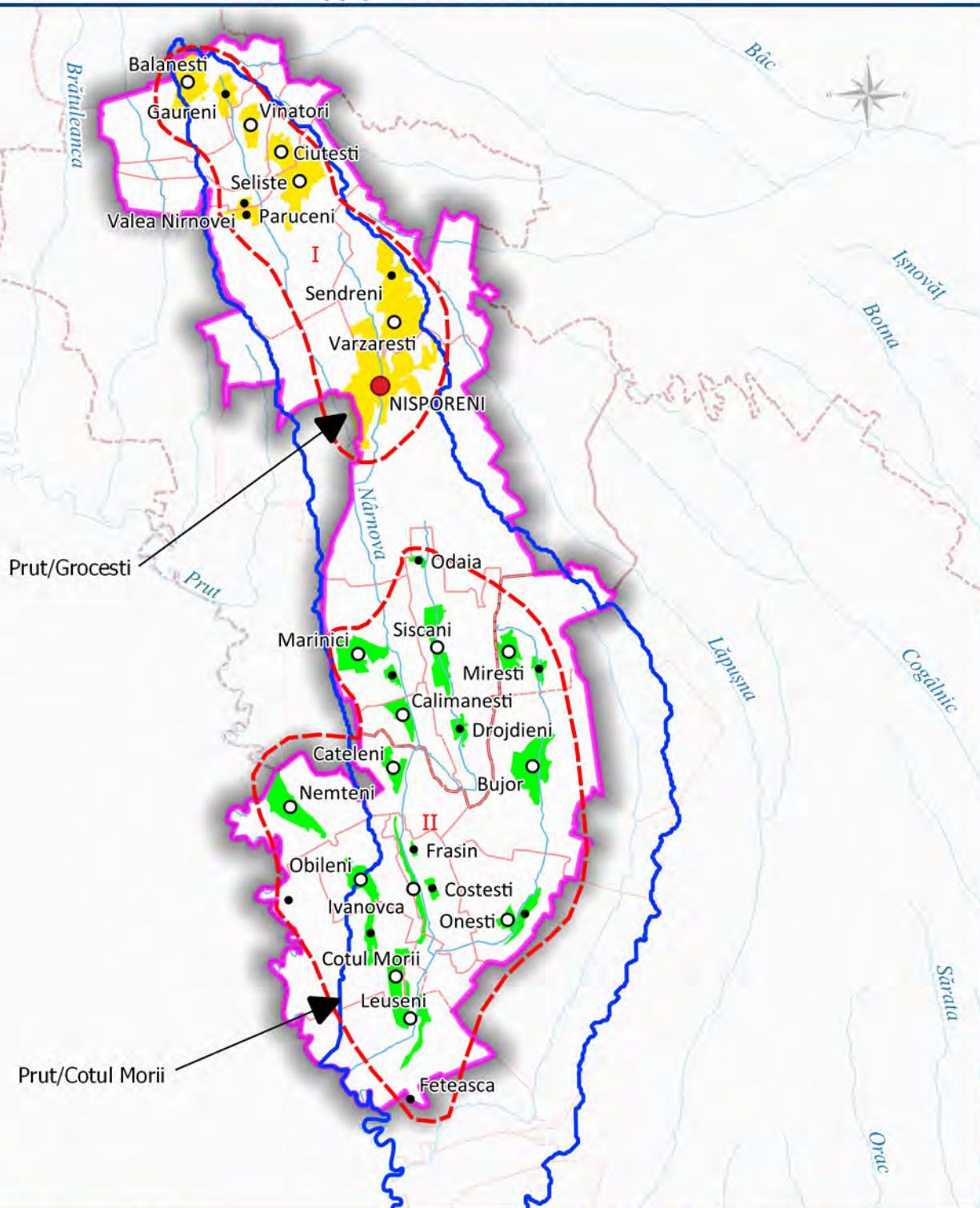
Scale

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Water supply – Scenario AA3



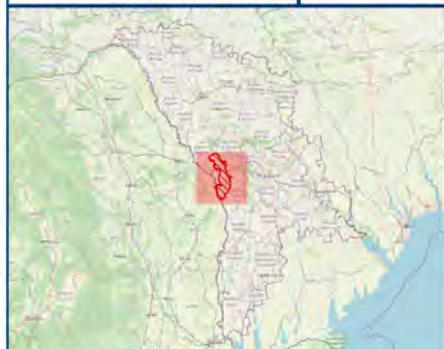
Thematic symbology

- Cluster 1
- Cluster 2
- Scenario-AA3

Background layer legend

- Study Area
- Nîmova basin
- Commune limits
- Rayon limits
- Rivers
- Localities**
 - city
 - commune
 - village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275,000

Data source

Name of the data sources



"European Union Water Initiative plus for
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Path

Date

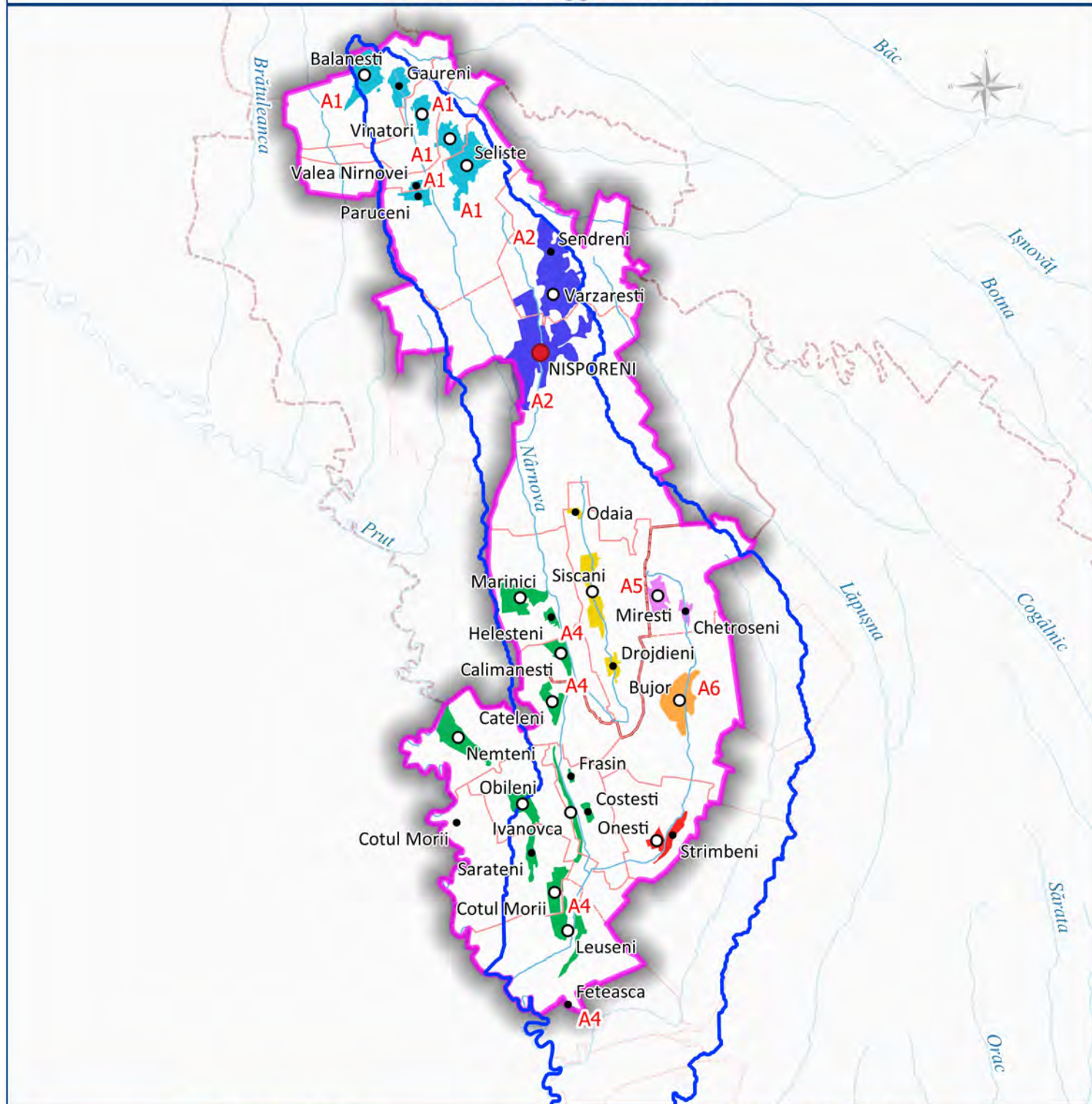
Scale

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Delimitation of agglomerations



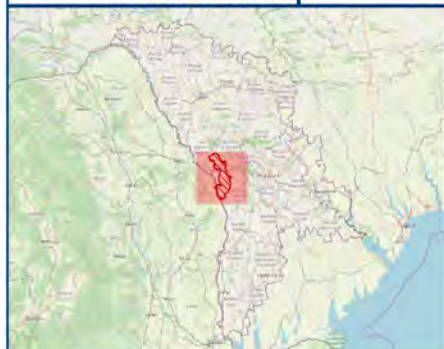
Thematic symbology

A1	A5
A2	A6
A3	A7
A4	

Background layer legend

Study Area	Commune limits	Localities
Nîmova basin	Rayon limits	
Rivers		
		city
		commune
		village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275,000

Data source

Name of the data sources



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Elaboration, revision, approval

Path

Date

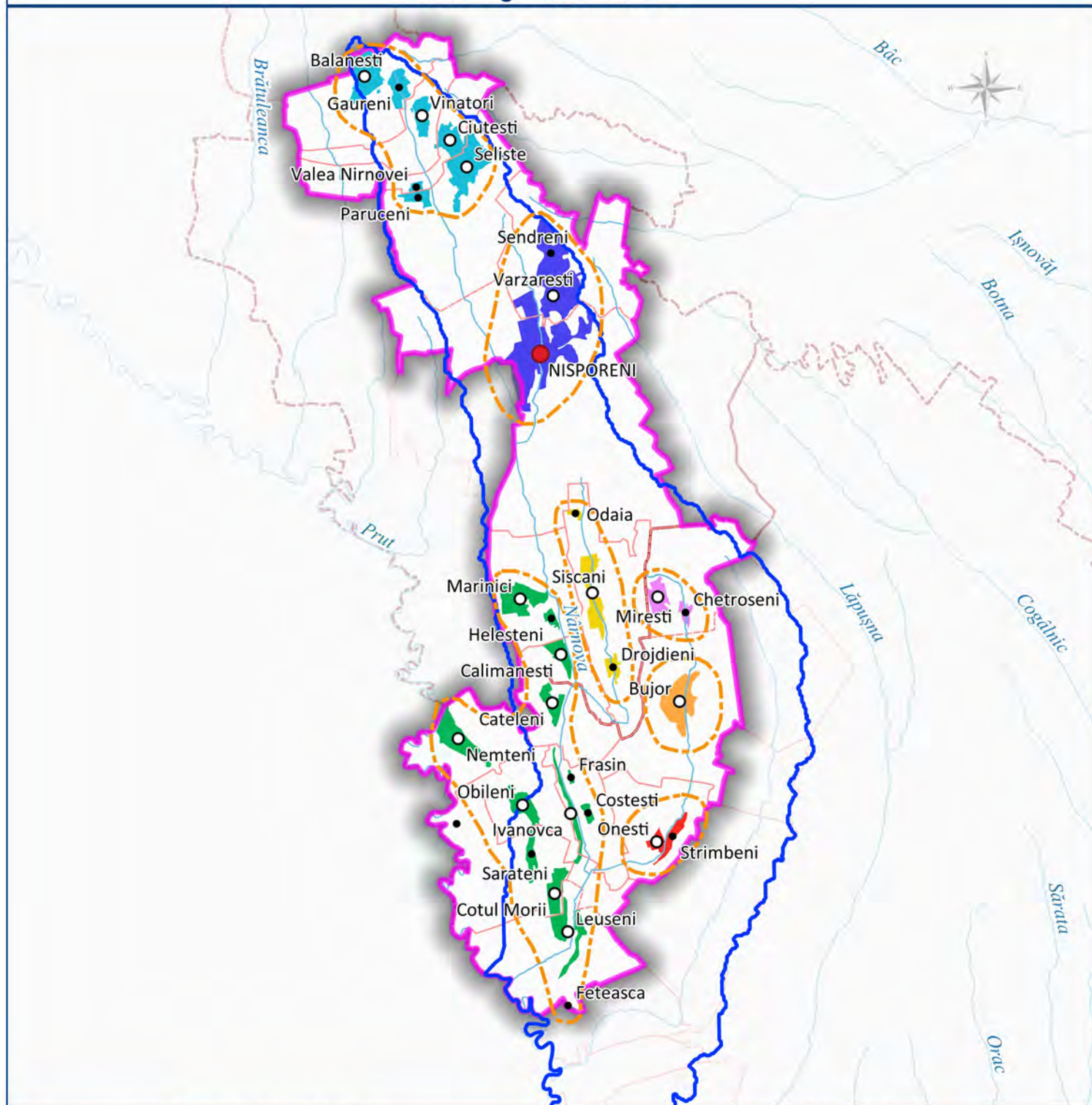
Scale

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Sewerage – Scenario S1



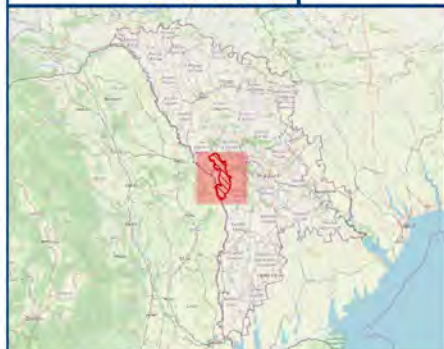
Thematic symbology

A1	A5
A2	A6
A3	A7
A4	Scenario-S1

Background layer legend

Study Area	Commune limits	Localities
Nimova basin	Rayon limits	city
Rivers		commune
		village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275,000

Data source

Name of the data sources



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Path

Date

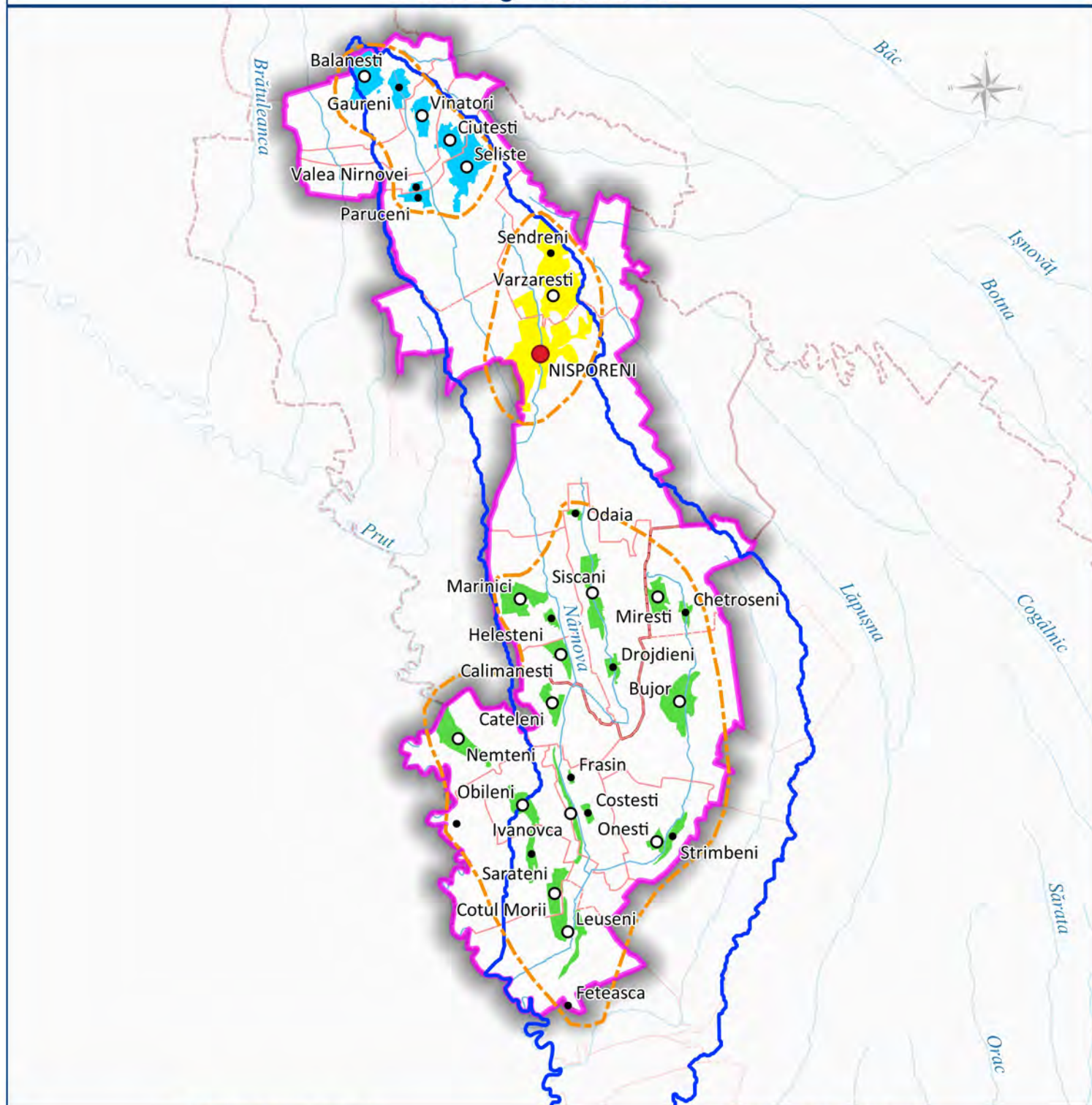
Scale

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Sewerage – Scenario S2



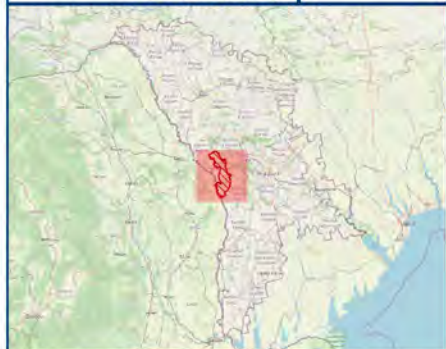
Thematic symbology

- S1
- S2
- S3
- Scenario-S2

Background layer legend

- Study Area
- Nimova basin
- Commune limits
- Rayon limits
- Rivers
- Localities**
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275,000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

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Path

Date

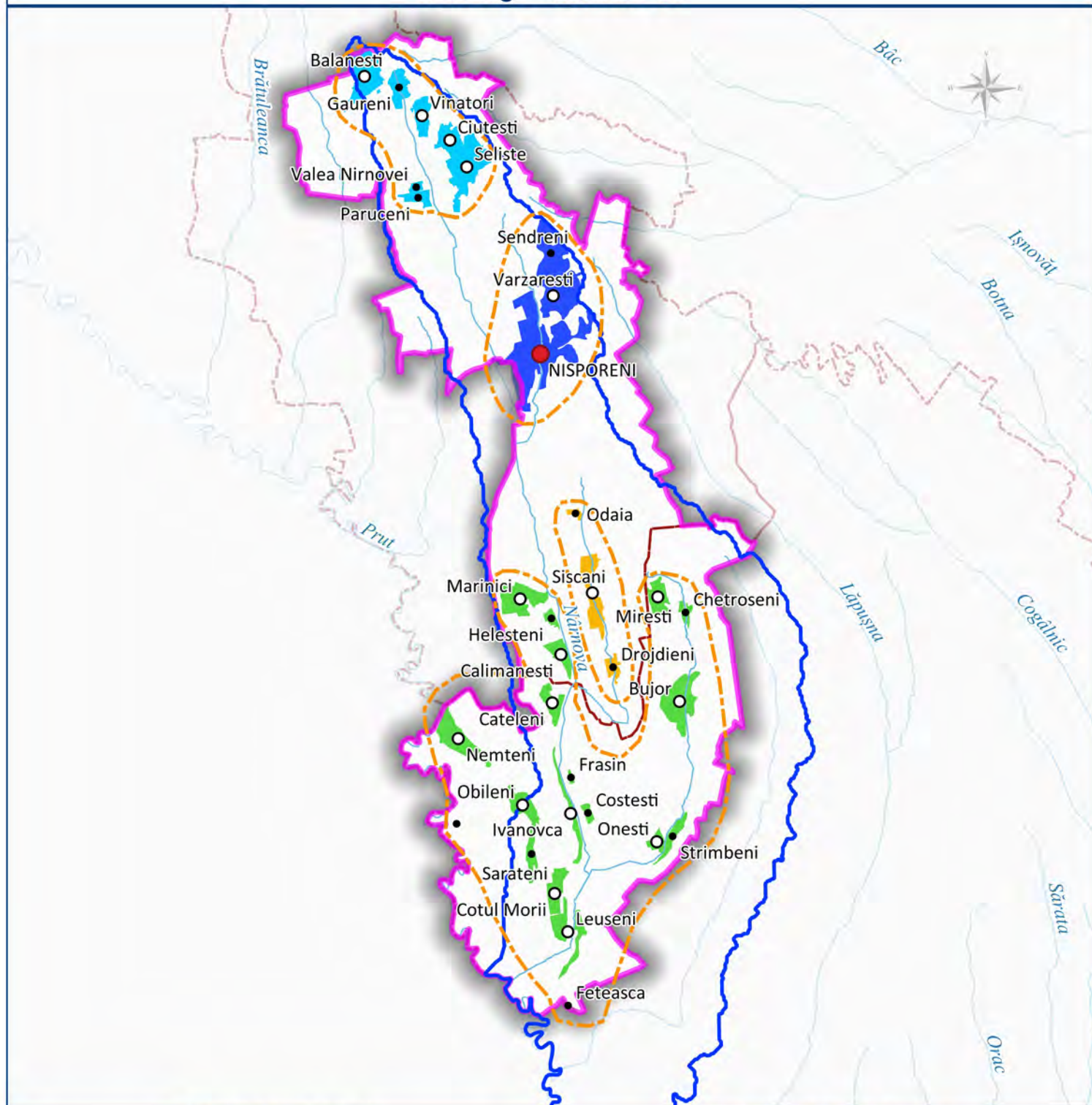
Scale

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Sewerage – Scenario S3



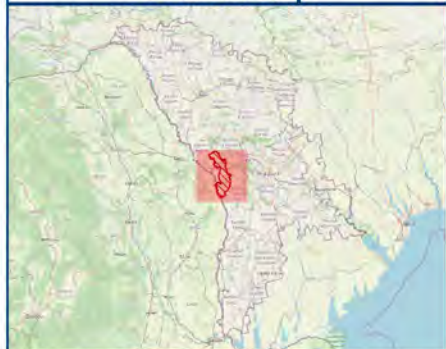
Thematic symbology

- S1
- S2
- S3
- S4
- Scenario-S3

Background layer legend

- Study Area
- Commune limits
- Narmova basin
- Rayon limits
- Rivers
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:275.000

Data source

Name of the data sources



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Eastern Partnership Countries"

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Elaboration, revision, approval

Path

Date

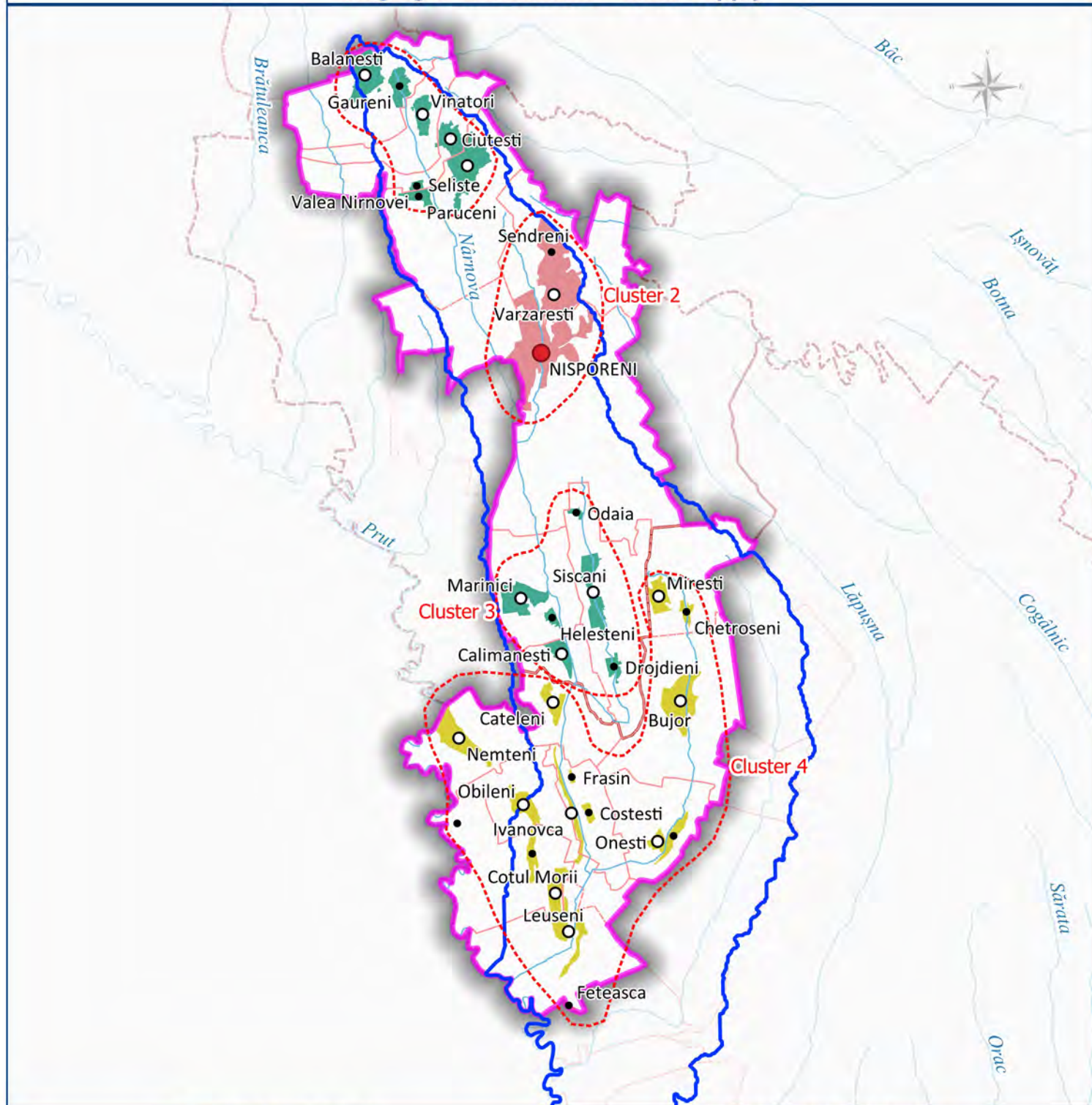
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Staging of investments – water supply



Thematic symbology

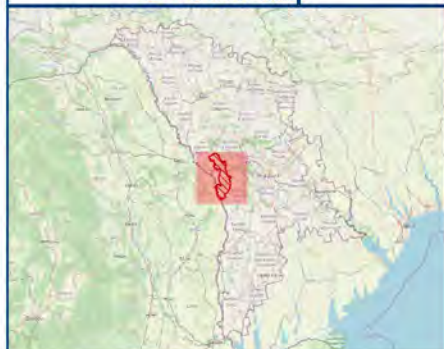
Staging of investments

- Stage 1
- Stage 2
- Stage 3
- ⋯ Clusters

Background layer legend

- Study Area
- Nîmova basin
- ⋯ Commune limits
- ⋯ Rayon limits
- Rivers
- Localities**
 - city
 - commune
 - village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



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Path

Date

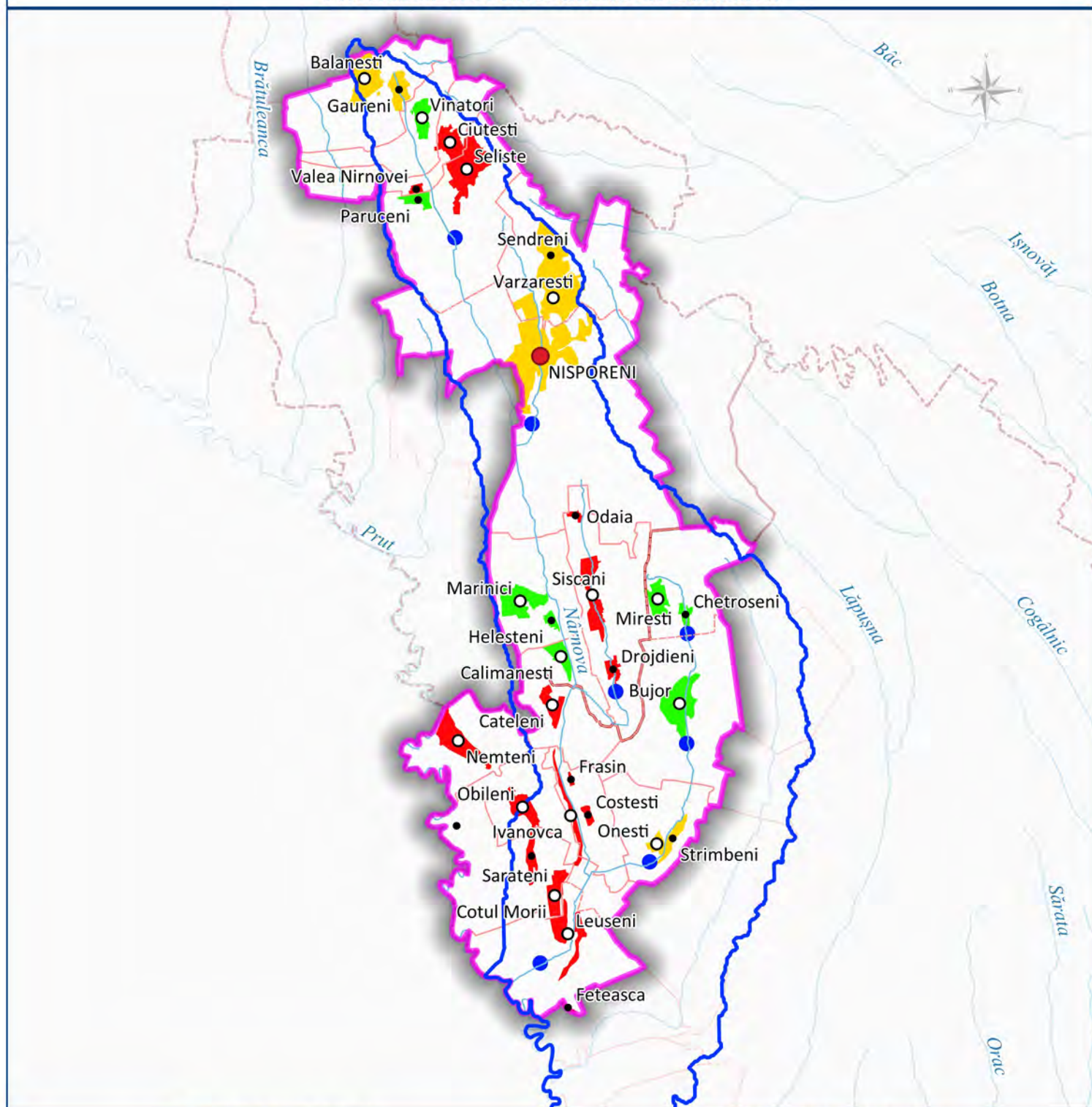
Scale

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Prioritization of investments in sanitation



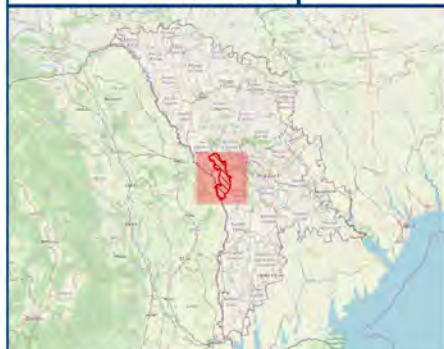
Thematic symbology

- Priority**
- high
 - medium
 - low
 - WWTP

Background layer legend

- Study Area
- Nimova basin
- Rivers
- Commune limits
- Rayon limits
- Localities
- city
- commune
- village

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



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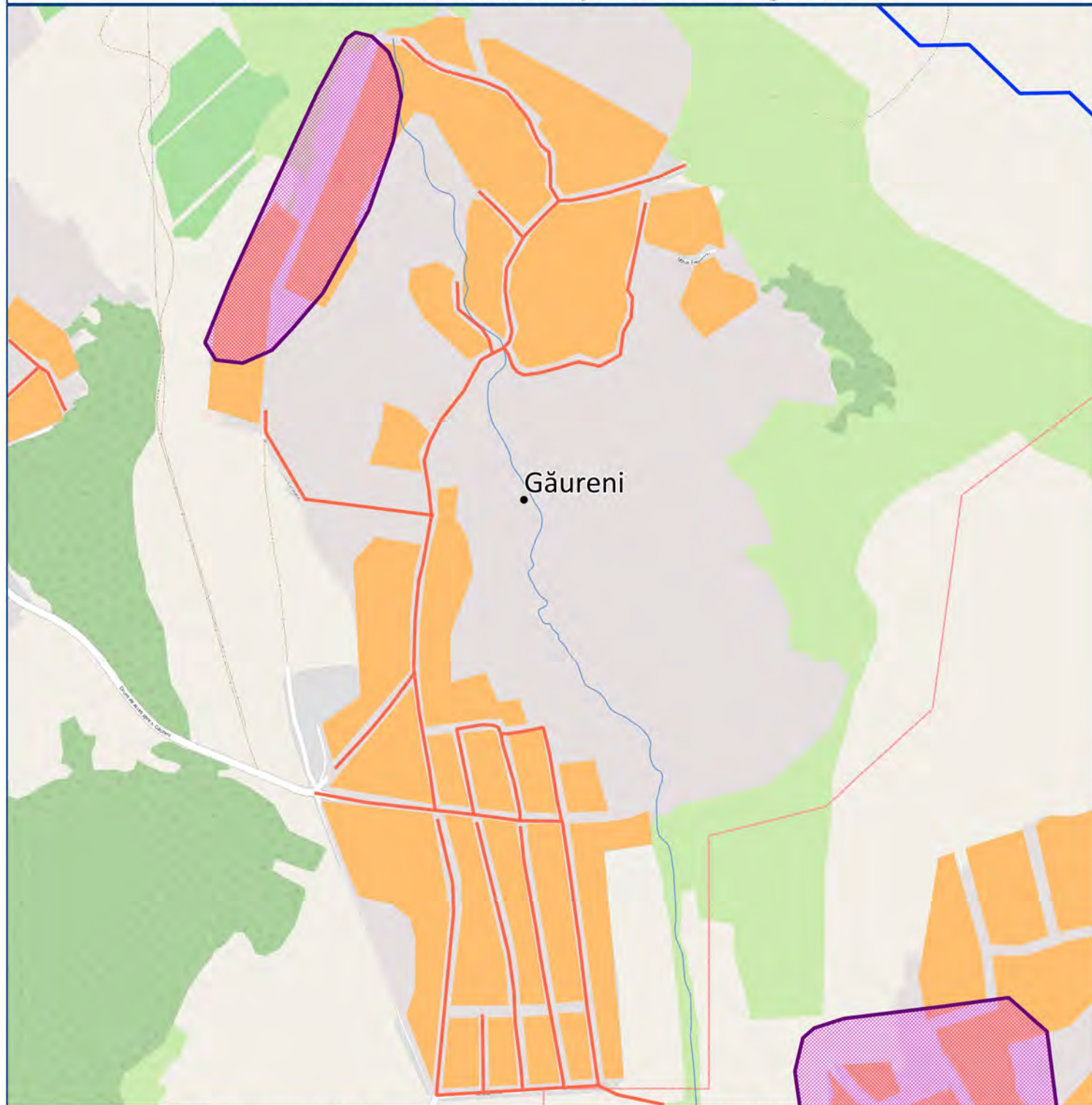
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Cluster 1 - Individual sanitation system area - village Găureni



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|---|---|--|
| Study Area | Settlements | ● Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:10,000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

Name of organisation

Elaboration, revision, approval

Path

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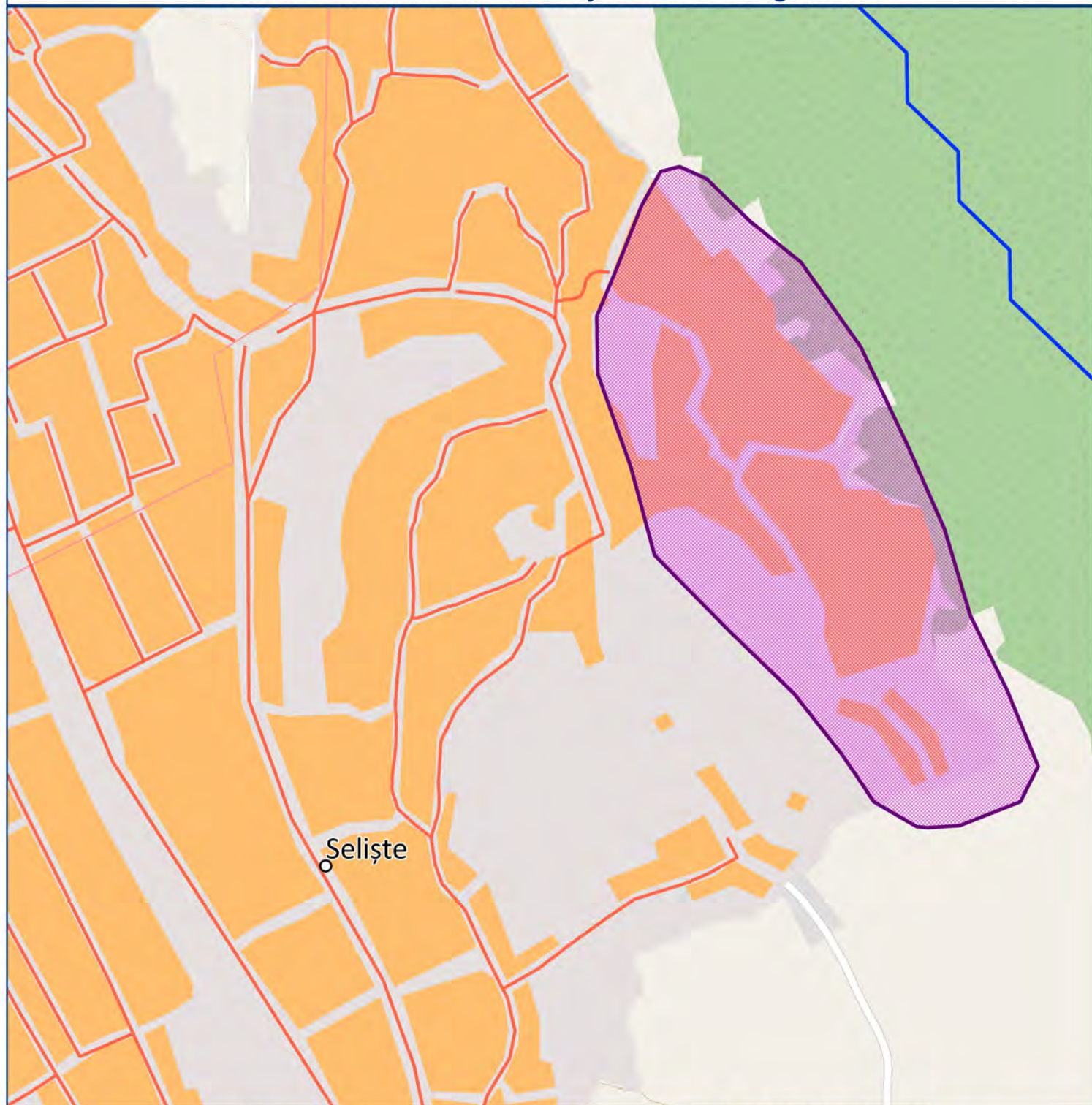
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Cluster 1 - Individual sanitation system area - village Seliste



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|--|--|--|
| Study Area | Settlements | ● Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



"European Union Water Initiative plus for
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Path

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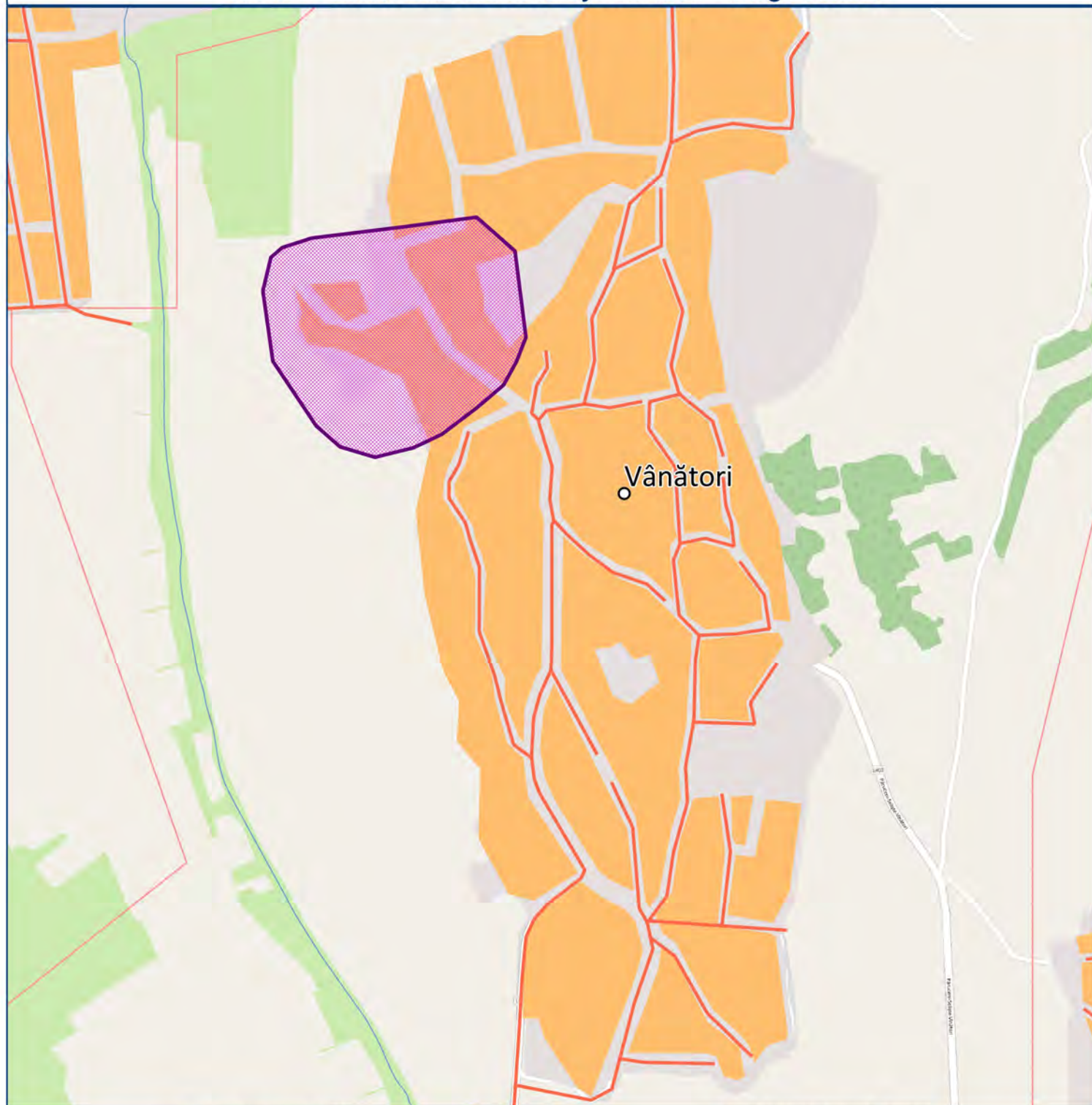
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Cluster 1 - Individual sanitation system area - village Vinători



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|---|---|--|
| Study Area | Settlements | Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

Name of organisation

Elaboration, revision, approval

Path

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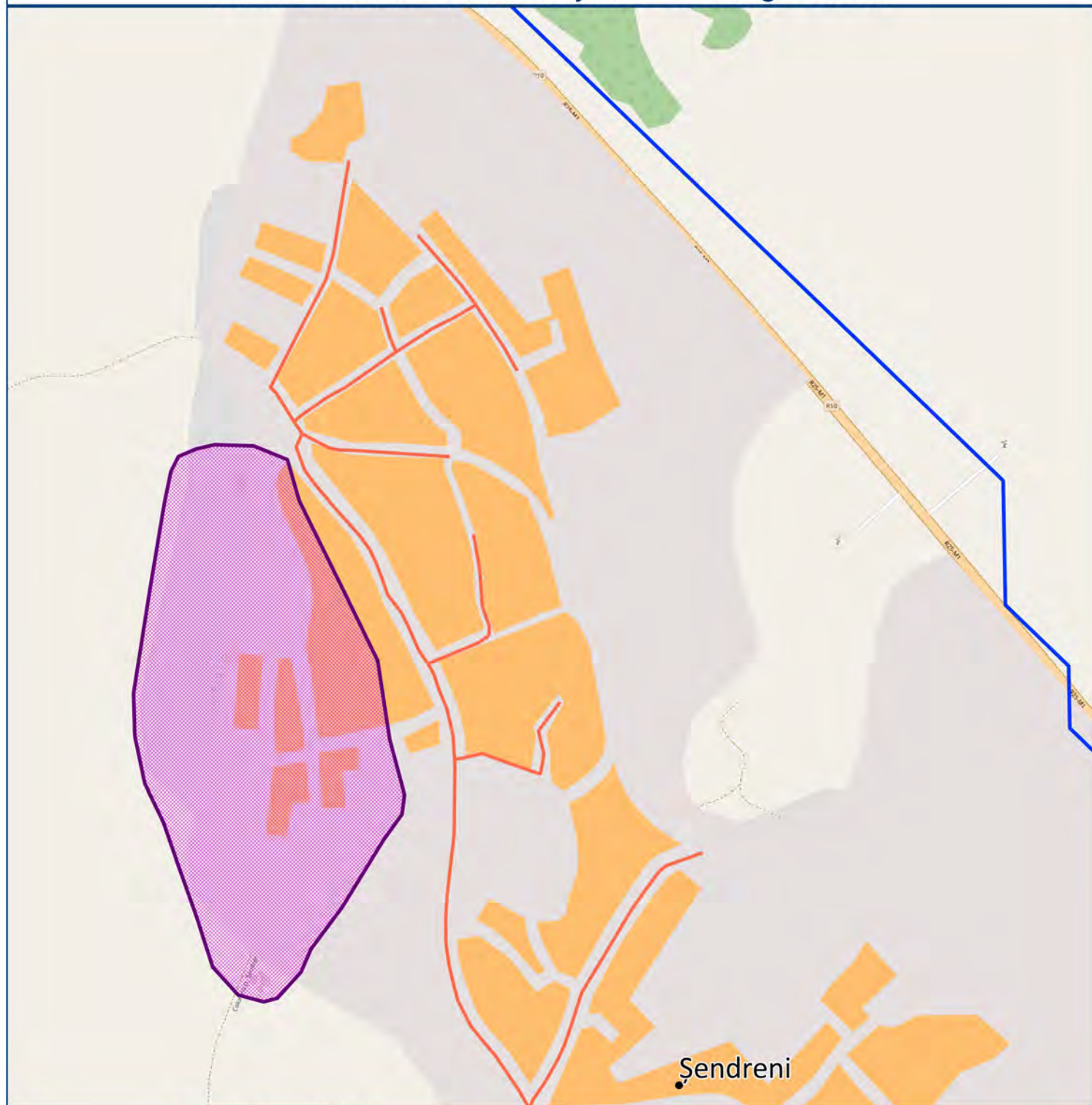
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Cluster 2 - Individual sanitation system area - village Sendreni



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|--|--|--|
| Study Area | Settlements | ● Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:8,000

Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

Name of organisation

Elaboration, revision, approval

Path

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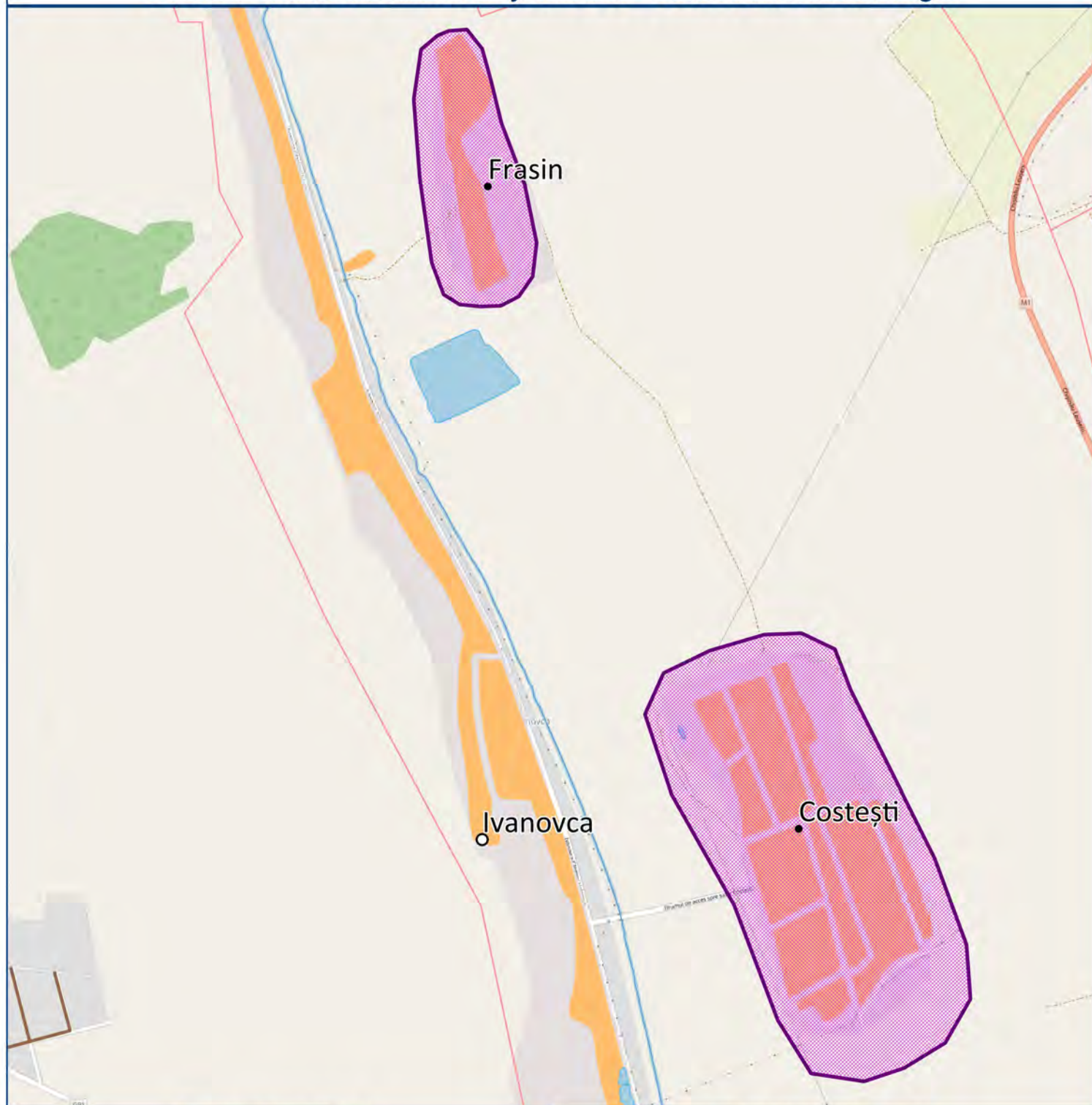
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Cluster 4 - Individual sanitation system area - Costesti and Frasin villages



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|---|---|--|
| Study Area | Settlements | ● Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

Name of organisation

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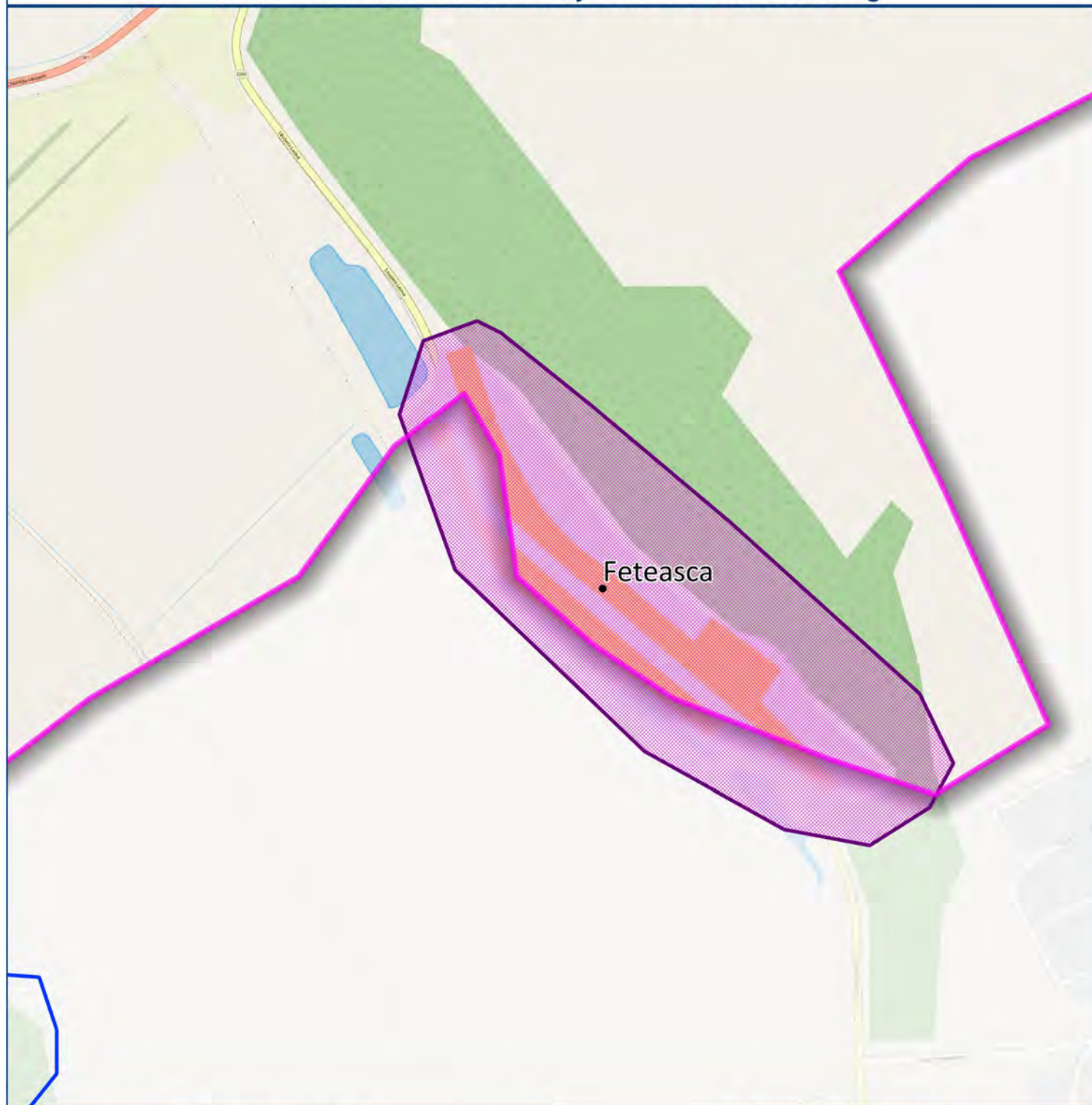
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Cluster 4 - Individual sanitation system area - Feteasca village



Thematic symbology

- Sewerage network
- Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|--------------|----------------|--|
| Study Area | Settlements | Localities
● city
○ commune
● village |
| Nimova basin | Neighborhood | |
| Lakes | Commune limits | |
| Rivers | Rayon limits | |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

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Data source

Name of the data sources



"European Union Water Initiative plus for
Eastern Partnership Countries"

Name of organisation

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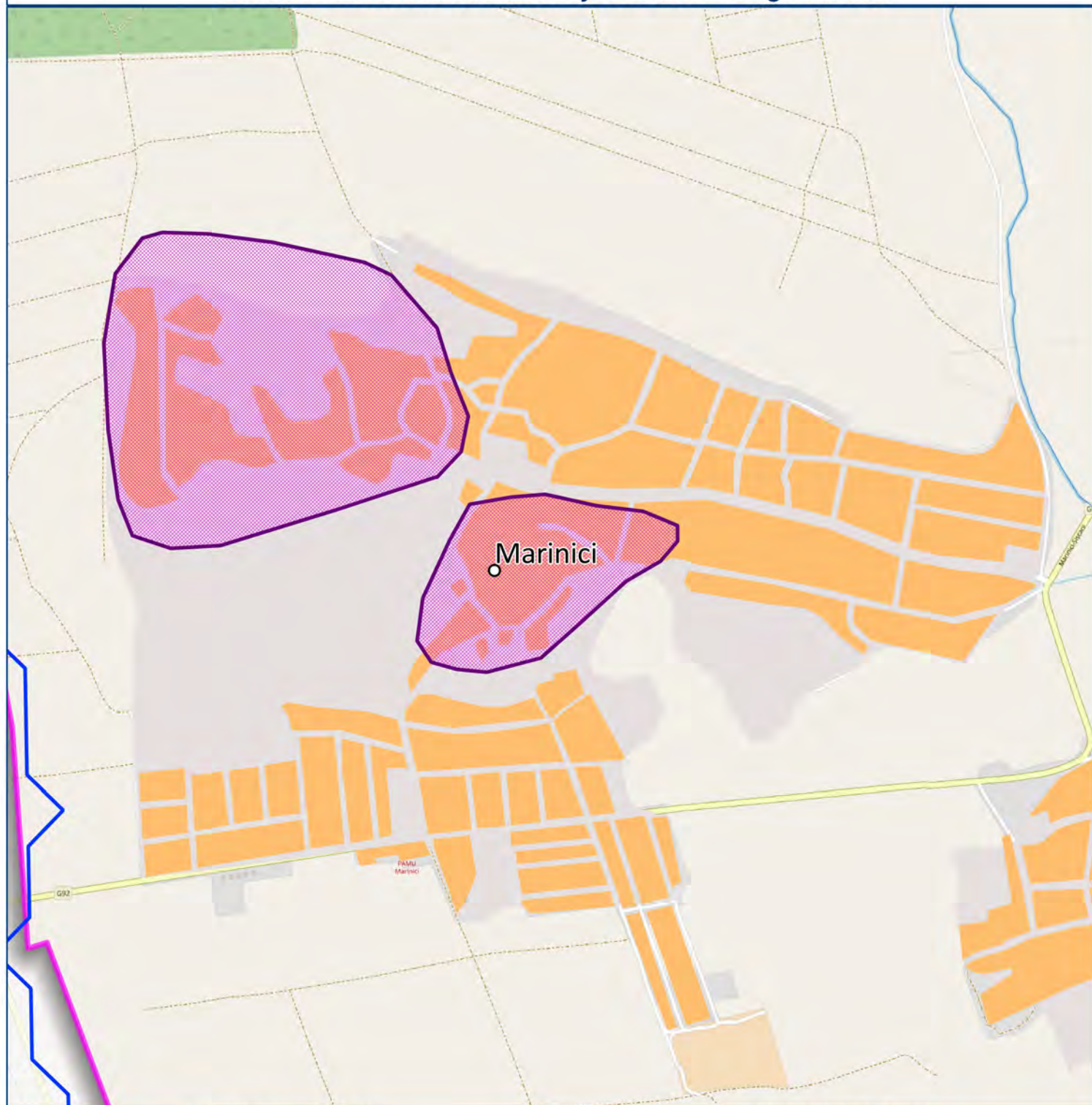
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Cluster 4 - Individual sanitation system area - village Marinici



Thematic symbology

- Sewerage network
- - - Pressurized sewerage network
- Sewerage network - project
- Individual sewer system area

Background layer legend

- | | | |
|--|---|---|
| Study Area | Settlements | ● Localities |
| Nimova basin | Neighborhood | ● city |
| Lakes | Commune limits | commune |
| — Rivers | Rayon limits | ● village |

Location Map



Systeme Coordination
Reference

WGS 84 Zone 35N

Scale

1:14,000

Data source

Name of the data sources



"European Union Water Initiative plus for
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