



National University of Life and
Environmental Sciences of Ukraine

EU Horizon Path4Med project
(101156867)



The kick-off
regular meeting

Ukrainian team



Co-funded by
the European Union

26.03.2025





Agenda



1. Updating of articles
2. Progress of Stakeholders mapping (T2.2, T2.3, T5.1, T5.2)
3. Stakeholder group
4. Deliverables – D5.3
5. Water& soil sampling
6. Discussion - needs & Next step
7. Next scheduled meeting





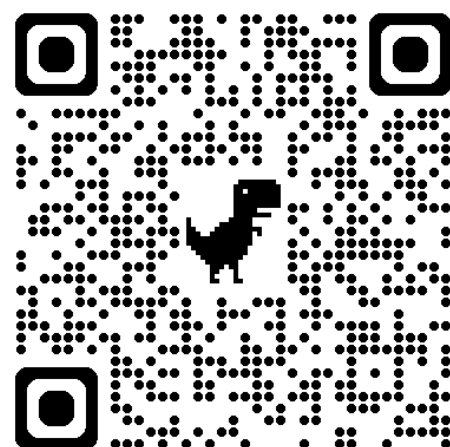
NATIONAL UNIVERSITY OF LIFE AND
ENVIRONMENTAL SCIENCES OF UKRAINE



Posters on site

Wed, 30 Apr, 14:00–15:45 (CEST)

Hall X4



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Updating of articles



Strokal, V., Labenko, O., Ladyka, M., Palamarchuk, S., Naumovska, O., Vagaliuk, L., and Voitenko, L.: Relationship between climate drivers and agriculture in Ukraine: changes over the past two decades and potential implications on water scarcity in the future, *EGU General Assembly 2025*, Vienna, Austria, 27 Apr–2 May 2025, EGU25-6172, <https://doi.org/10.5194/egusphere-egu25-6172>

Relationship between climate drivers and agriculture in Ukraine: changes over the past two decades and potential implications on water scarcity in the future

Vita Strokal¹, Oleksandr Labenko², Maryna Ladyka³, Svetlana Palamarchuk⁴, Olena Naumovska⁵, Liudmyla Vagaliuk⁶, and Larysa Voitenko⁷

¹National University of Life and Environmental Sciences of Ukraine, Agrosphere Ecology and Environmental Control, Kyiv, Ukraine (vita.strokal@gmail.com)

²National University of Life and Environmental Sciences of Ukraine, Vice-Rector for Scientific and Pedagogical Work and International Affairs, Kyiv, Ukraine

³National University of Life and Environmental Sciences of Ukraine, Agrosphere Ecology and Environmental Control, Kyiv, Ukraine

⁴National University of Life and Environmental Sciences of Ukraine, Agrosphere Ecology and Environmental Control, Kyiv, Ukraine

⁵National University of Life and Environmental Sciences of Ukraine, Agrosphere Ecology and Environmental Control, Kyiv, Ukraine

⁶National University of Life and Environmental Sciences of Ukraine, Agrosphere Ecology and Environmental Control, Kyiv, Ukraine

⁷National University of Life and Environmental Sciences of Ukraine, Analytical and Bioinorganic Chemistry & Water Quality, Kyiv, Ukraine

Ukraine is prosperous in agricultural activities. Agricultural land covers 68.5% of the total land area. Additionally, Ukraine exports around 10% of the global cereals abroad and thus plays an important role in global food security. Crop production in Ukraine is dominated by grains (wheat, barley, corn), technical crops (sunflowers, sugar beets), potatoes¹. Livestock production is dominated by poultry, pigs, cows¹. However, agricultural activities have been under threat over the past two decades. An important reason is climate change. Climate drivers such as temperature and precipitation have changed their patterns in space and time in Ukraine since 2000. The implications of those changes on agriculture are poorly studied, namely on crop yield, synthetic fertilizers, and animal manure. Furthermore, the potential implications of agriculture and climate on future water scarcity are unknown considering the ongoing Russian-Ukrainian war.

<https://nubip.edu.ua/>



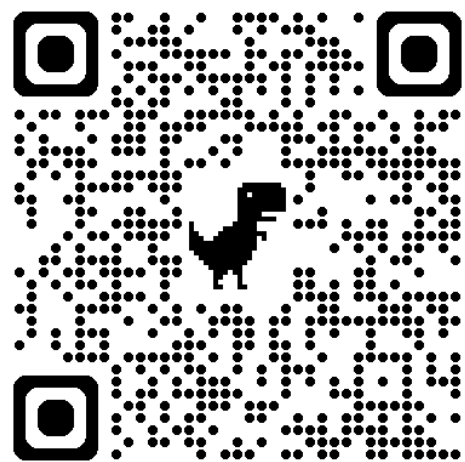
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ENVIRONMENTAL SCIENCES OF UKRAINE



5-9 May 2025

PIK Potsdam, Germany

Potsdam Institute for Climate Impact
Research (PIK)



DRAFT Program: Cross-sectoral OptimESM-ISIMIP Workshop 05-09 May 2025

| Time (UTC+3) | Monday 05 May | Tuesday 06 May | Wednesday 07 May | Thursday 08 May |
|--------------|--|--|---|---|
| 08:00-09:00 | Registration | Registration | Registration | Registration |
| 09:00-10:00 | Sector meeting Fisheries (hybrid) | Sector meeting Water regional (hybrid) | Results Presentations 10-12 min presentations | Advancing (cross-sectoral) papers Pitching and break-out groups |
| 10:00-11:00 | Sector meeting Health (hybrid) | Sector meeting Water global (hybrid) | Coffee Break | Coffee Break |
| 11:00-12:00 | Sector meeting Forest (hybrid) | Sector meeting Groundwater (hybrid) | Keynote: Jason Aris on Adaptation | Keynotes: Paula Harris, Daniela Zurek |
| 12:00-13:00 | Sector meeting Land Use (hybrid) | Sector meeting Lakes (hybrid) | Future projections of climate impacts accounting for adaptation (Status, Issues, Prospects ISIMIP group II) | Direct Human Feedback for climate impact simulations (ISIMIP LHM Scenario & Projection options) |
| 13:00-14:00 | Lunch Break | Lunch Break | Lunch Break | Key inputs and panel discussion |
| 14:00-15:00 | Opening session ISIMIP/OptimESM updates | Scenario and Timeline for contributions to IPCC AR7 (ISIMIP 4.0.1) | Key inputs and panel discussion | Key inputs and panel discussion |
| 15:00-16:00 | Results presentations and Poster pitches 10-12 min presentations | Results presentations and Poster pitches 10-12 min presentations | Key inputs and panel discussion | Key inputs and panel discussion |
| 16:00-17:00 | Coffee Break | Coffee Break | Coffee Break | Coffee Break |
| 17:00-18:00 | Results presentations and Poster pitches 10-12 min presentations | Results presentations and Poster pitches 10-12 min presentations | Results presentations and Poster pitches 10-12 min presentations | Results presentations and Poster pitches 10-12 min presentations |
| 18:00-19:00 | Poster Session | Poster Session | Poster Session | Poster Session |
| 19:00-20:00 | Workshop Reception | Workshop Reception | Workshop Reception | Workshop Reception |

ISIMIP provides cross-sectorally consistent modeling protocols integrating climate impacts across sectors and scales in a multi-impact model framework



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Updating of articles



NUBiP is a part of the Water quality sector



Water (regional)
Valentina Krysanova
Fred Hattermann



Water Quality (in development)
Maryna Strokol
Rohini Kumar



Groundwater
Robert Reinecke
Inge de Graaf



Fisheries & Marine Ecosystems
Julia Blanchard (lead coordinator)

Article

A new water quality sector in ISIMIP: community perspectives for model intercomparisons of water quality under global change

Authors Organizations Countries

29

19

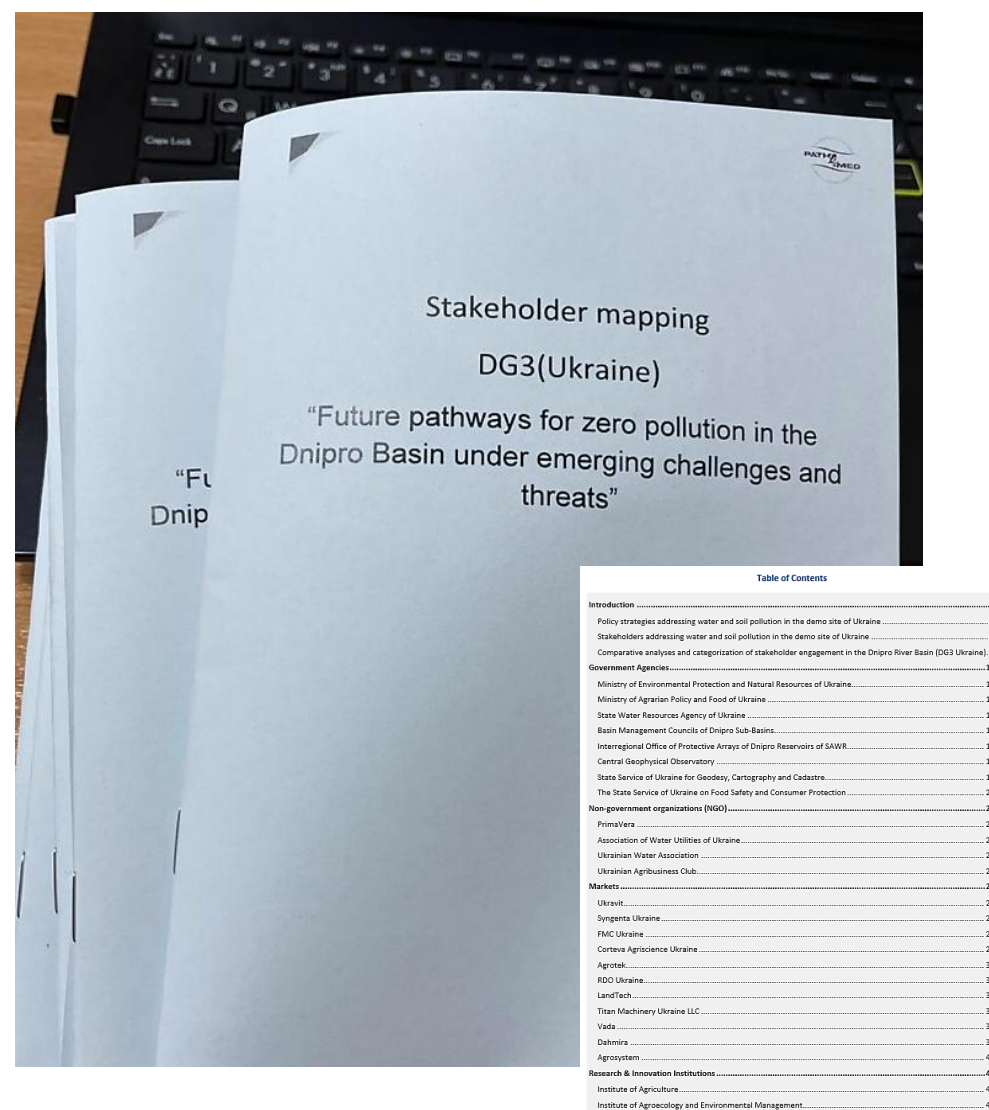
10



Progress of Stakeholders mapping



DG3(Ukraine): “Future pathways for zero pollution in the Dnipro Basin under emerging challenges and threats”



1. Stakeholders addressing water and soil pollution in the demo site of Ukraine
2. Overview of selected stakeholders relevant in the context of water and soil pollution
3. Policy strategies addressing water and soil pollution in the demo site of Ukraine
4. Comparative analyses and categorization of stakeholder engagement





Progress of Stakeholders mapping



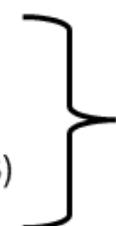
Water



- 1 Ministry of Environmental Protection and Natural Resources of Ukraine
- 2 State Water Resources Agency of Ukraine
- 3 Basin Management Councils of Dnipro Sub-Basins
- 4 Interregional Office of Protective Arrays of Dnipro Reservoirs of SAWR
- 5 Central Geophysical Observatory (CGO) named after Boris Srezenevsky

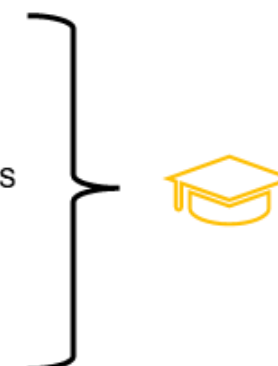


- 6 PrimaVera
- 7 Association of Water Utilities of Ukraine
- 8 Ukrainian Water Association (UWA)
- 9 Association "Ukrainian Agribusiness Club" (UCAB)



Government Agencies

- 10 The National Scientific Center "Institute of Agriculture of the National Academy of Agrarian Sciences of Ukraine (NAAS)"
- 11 Institute of Agroecology and Environmental Management
- 12 Institute of Water Problems and Land Reclamation of the National Academy of Agrarian Sciences of Ukraine (NAAS)
- 13 Institute of Agricultural Microbiology and Agro-Industrial Production of the National Academy of Agrarian Sciences of Ukraine (NAAS)
- 14 Universities



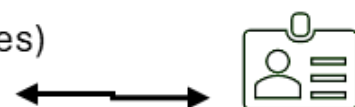
- 15 Agro-Oven Corporation
- 16 APK-INVEST
- 17 Public Limited Company "UkrLandFarming"
- 18 IMC-Smart Green Company



- 19 Water supply services
- 20 Wastewater treatment plants



- 21 Local municipalities (villages and cities)



1-2. Stakeholders addressing water and soil pollution in the demo site of Ukraine and their overview

Sectors:



Academy/Research



Public



Private



Non-governmental

Geographical coverage

- Municipal stakeholders
- Provincial stakeholders
- National stakeholders





Progress of Stakeholders mapping



Water



- 1
 - 2
 - 3
 - 4
 - 5
- Government Agencies**
- Ministry of Environmental Protection and Natural Resources of Ukraine
 - State Agency of Ukraine
 - State Service of Dnipro Sub-Basins
 - State Service of Dnipro Reservoirs of SAWR
 - Central Geophysical Observatory (CGO) named after Boris Srezenevsky



- 6
 - 7
 - 8
 - 9
- NGO**
- Ukrainian Water Association (UWA)
 - Association "Ukrainian Agribusiness Club" (UCAB)



- 10
 - 11
 - 12
 - 13
 - 14
- Research organizations and universities**
- The National Scientific Center "Institute of Agriculture of the National Academy of Agrarian Sciences of Ukraine"
 - Institute of Agricultural Microbiology and Agro-Industrial Production of the National Academy of Agrarian Sciences of Ukraine (NAAS)
 - Universities



- 15
 - 16
 - 17
 - 18
- Farms**
- Agro-Oven Corporation
 - IMC-Smart Green Company



- 19
 - 20
- Water supply services
 - Wastewater treatment plants



- 21
- Local municipalities (villages and cities)



1-2. Stakeholders addressing water and soil pollution in the demo site of Ukraine and their overview

Sectors:

- Academy/Research
- Public
- Private
- Non-governmental

Geographical coverage

- Municipal stakeholders
- Provincial stakeholders
- National stakeholders

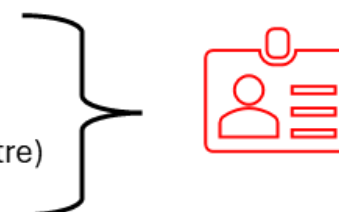




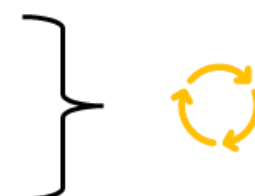
Progress of Stakeholders mapping



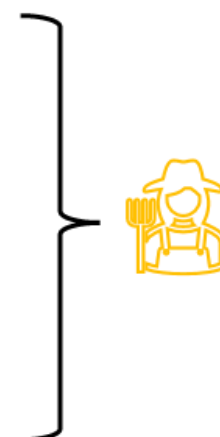
- 1 Ministry of Environmental Protection and Natural Resources of Ukraine
- 2 Ministry of Agrarian Policy and Food of Ukraine
- 3 Central Geophysical Observatory (CGO) named after Boris Srezenevsky
- 4 State Service of Ukraine for Geodesy, Cartography and Cadastre (StateGeoCadastre)
- 5 The State Service of Ukraine on Food Safety and Consumer Protection (SSUFSCP)



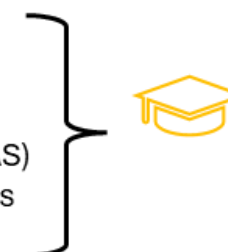
- 6 PrimaVera
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- 10 Ukravit
- 11 Syngenta Ukraine
- 12 FMC Ukraine
- 13 Corteva Agriscience Ukraine
- 14 Agrotek
- 15 RDO Ukraine
- 16 LandTech
- 17 Titan Machinery Ukraine LLC
- 18 Vada
- 19 Dahmira
- 20 Agrosystem



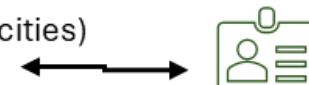
- 21 The National Scientific Center "Institute of Agriculture of the National Academy of Agrarian Sciences of Ukraine (NAAS)"
- 22 Institute of Agroecology and Environmental Management
- 23 Institute of Water Problems and Land Reclamation of the National Academy of Agrarian Sciences of Ukraine (NAAS)
- 24 Institute of Agricultural Microbiology and Agro-Industrial Production of the National Academy of Agrarian Sciences of Ukraine (NAAS)
- 25 Universities



- 26 Water supply services
- 27 Wastewater treatment plants



- 28 Local municipalities (villages and cities)



1-2. Stakeholders addressing water
and soil pollution in the demo site of
Ukraine and their overview

Sectors:



Academy/Research



Public



Private



Non-governmental

Geographical coverage

○ Municipal stakeholders

○ Provincial stakeholders

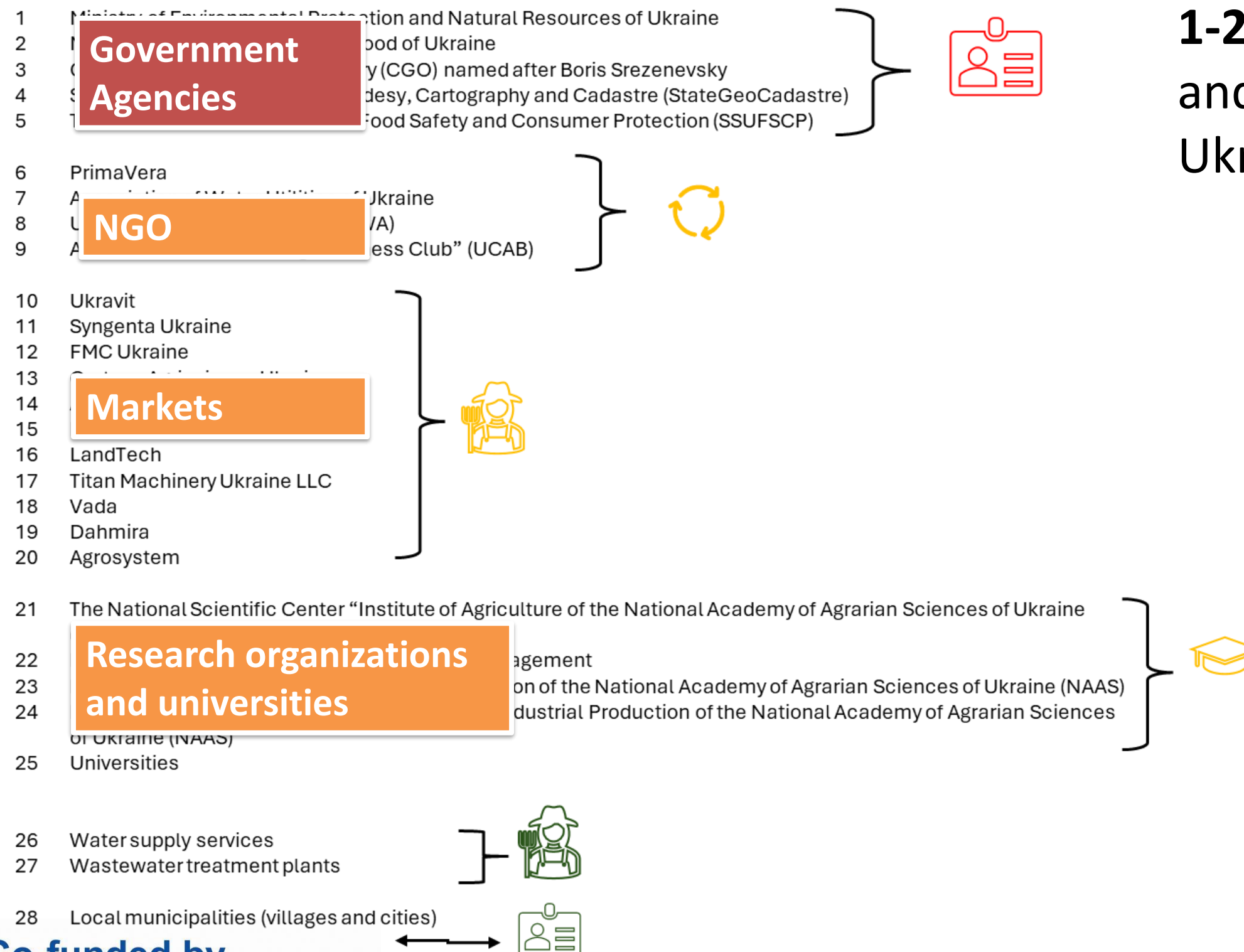
○ National stakeholders



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Progress of Stakeholders mapping





Progress of Stakeholders mapping



3. Policy strategies addressing water and soil pollution in the demo site of Ukraine

Ministry of Environmental Protection and
Natural Resources of Ukraine

**Water Strategy of Ukraine by
2050" strategy**

Reform of integrated water
resources management (IWRM)

Dnipro River Basin
Management Plan



Ministry of Agrarian Policy and Food of
Ukraine

**Strategy for the Development of Agriculture and
Rural Areas in Ukraine until 2030 and approved
an operational plan for its implementation in
2025-2027**

**The food security strategy of Ukraine for the
period up to 2027**

**Irrigation and drainage strategy in
Ukraine until 2030**

**Main principles (strategy) of the state environmental
policy of Ukraine for the period up to 2030**

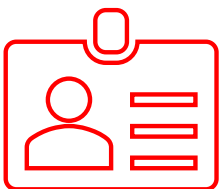











Progress of Stakeholders mapping



4. Comparative analyses and categorization of stakeholder engagement

| Group of stakeholders | Examples of technologies | Examples of agricultural practices based on NBSs |
|--|--|--|
|  Government Agencies <i>Provide policy strategies</i> | Strategies   | Support stakeholders to implement precision agriculture technologies, monitoring approaches (e.g. measures of ecological and chemical status of water) |
|  Non-governmental organization <i>Support and promote the implementation of technologies</i> |  Solutions for sustainable land and water use and irrigation systems The water supply technologies and effective sewage treatment technologies  | Support policymakers, farms, and agribusiness in implementing green technologies based on nature-based solutions |
|  Markets <i>Distribute technologies and promote approaches</i> | Precision agriculture digital technologies (Cropwise Seed Selector), irrigation sprinkler systems (Otech irrigation systems, ZIMMATIC®), meteorological stations (Pessl iMetos IMT300, Meteobot Pro)  | Provide drip and sprinkle irrigation systems for soil protection, build crop disease models, and implement drought-resistant hybrids |













Progress of Stakeholders mapping



4. Comparative analyses and categorization of stakeholder engagement

| Group of stakeholders | Examples of technologies | Examples of agricultural practices based on NBSs |
|--|---|---|
|  Markets <i>Distribute technologies and promote approaches</i> |  Data systems (AFS Connect™, Cartography™); water supply for livestock farms (CloudFarms), irrigation sprinkler systems (ZIMMATIC® & Agrodrones sprayers XAG) | Apply innovative water supply and drainage systems in livestock farms to support water protection; provide 3RIVE 3D® plant crop protection delivery platform for supplying sustainable water management |
|  Farms <i>Produce products (crops, poultry, pork, cattle)</i> |  Modern technologies for high-quality harvest (drip and sprinkler irrigation technologies, GPS-monitoring machinery)  Water supply and drainage systems for livestock farms (CloudFarms), satellite monitoring technology (NDVI and drones) | Provide modern technologies for high-quality harvest in sustainable agriculture practices; ensure various schemes of crop rotation to improve land use and soil fertility |
|  Research and innovation institutions <i>Provide new knowledge</i> |  Knowledge of the development of irrigation technologies, providing the biological preparations in crop production for sustainable agriculture practices.  | Support farms in applying climate-resilient hybrids of fodder, industrial, and vegetable crops by providing advice |

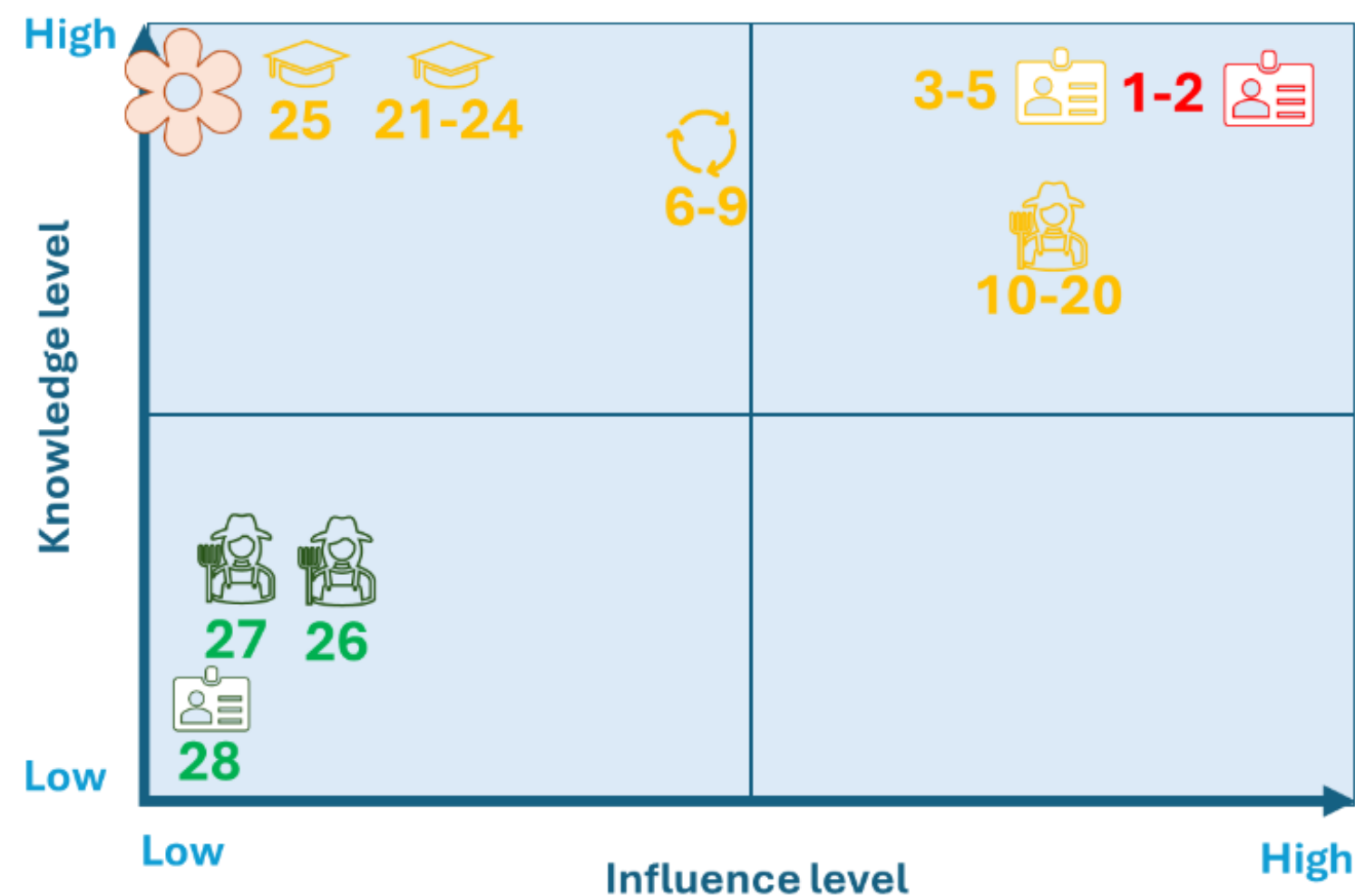
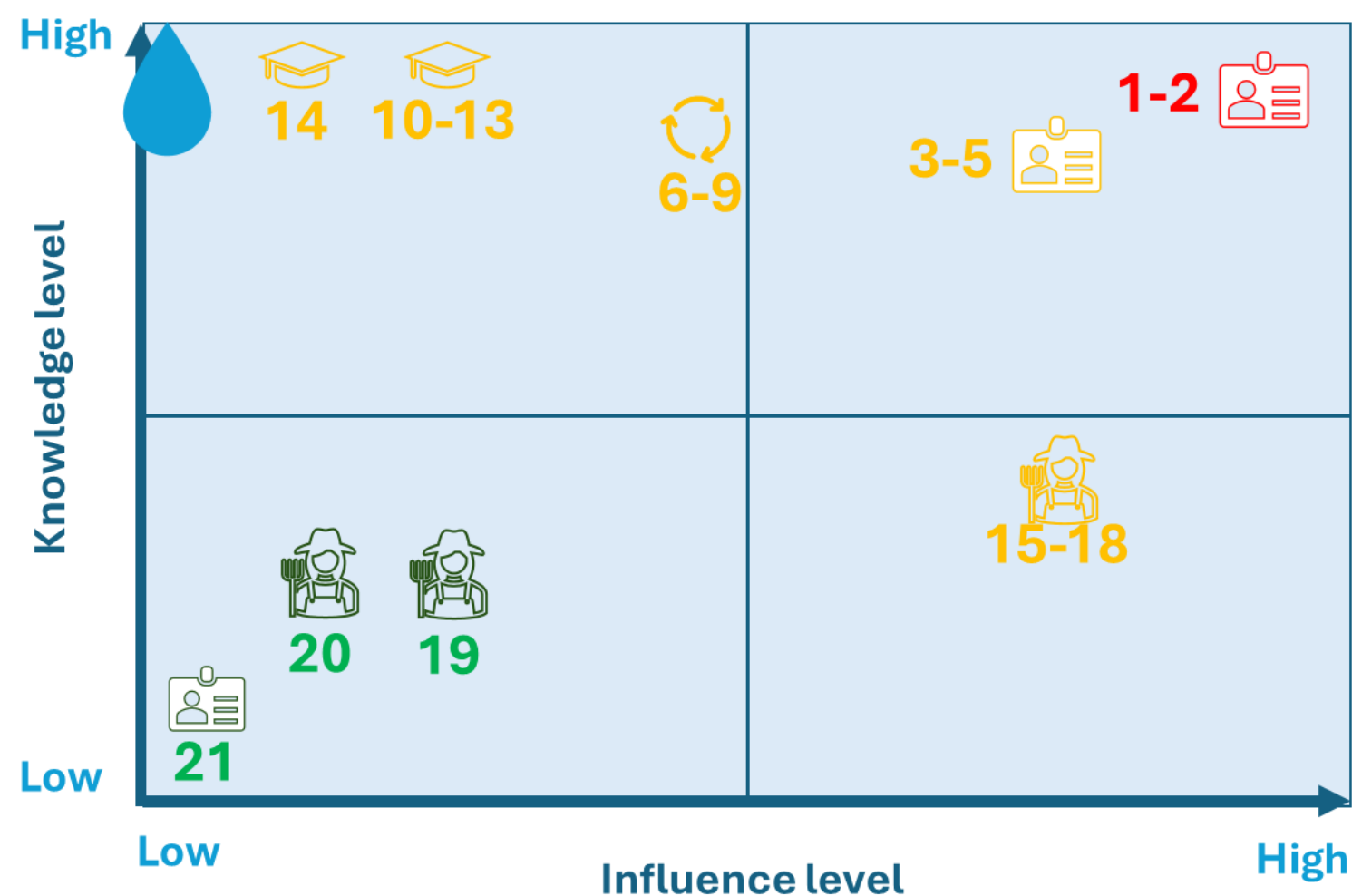




Progress of Stakeholders mapping



4. Comparative analyses and categorization of stakeholder engagement



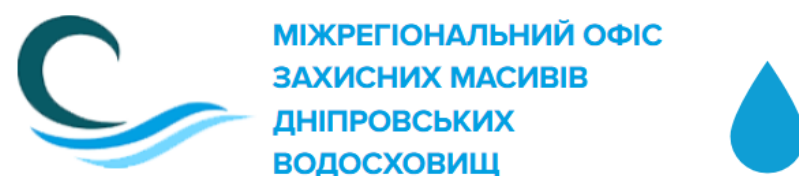


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Stakeholder group



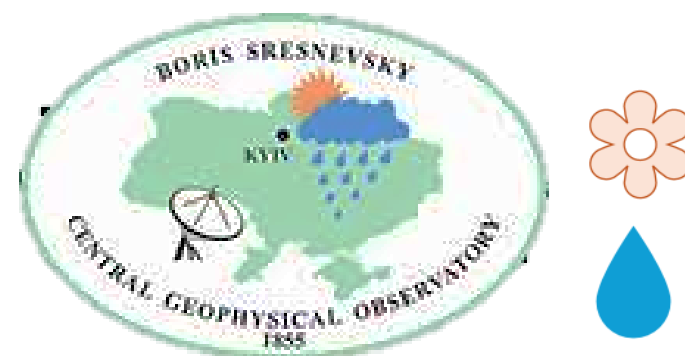
Government Agencies



Water Laboratory of the Northern Region



Head of the Laboratory
— Oleksandr Shevchenko



Central Geophysical Observatory (CGO) named after Boris Srezenevsky



Director —
Andriy Kutsiy



КОМІТЕТ
З ПИТАНЬ ЕКОЛОГІЧНОЇ ПОЛІТИКИ ТА
ПРИРОДОКОРИСТУВАННЯ
ВЕРХОВНА РАДА УКРАЇНИ

Committee on Environmental Policy and Nature Management of the Verkhovna Rada of Ukraine



Assistant to the
People's Deputy —
Victor Symonenko



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Stakeholder group



Markets

Research organizations



Ukrhydroenergo

**Vice-director—
Olga Tiga**



**Institute of
Agroecology and
Environmental
Management**



**Vice-director of
Research —
Olena Demjanjuk**



**Institute of
Agriculture**



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<https://nubip.edu.ua/>



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Stakeholder group



University



Lviv National
University of
Veterinary
Medicine and
Biotechnologies
named after S.Z.
Gzhytskyj



Head of the
Department of
Ecology —
Petro Khirivskyi



Local Farms – crop production

Farm “Kolos”

*Chernihiv region,
Nizhyn district*

1



Director –
Alla Stativka

Farm "Rusych"

*Cherkasy region,
Cherkasy district*

2



Director –
Petro Kononenko

"TK ART-AGRO" LLC

Kyiv Region

3



Director –
Artem Kalinichenko



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Stakeholder group



Local Farms – crop production

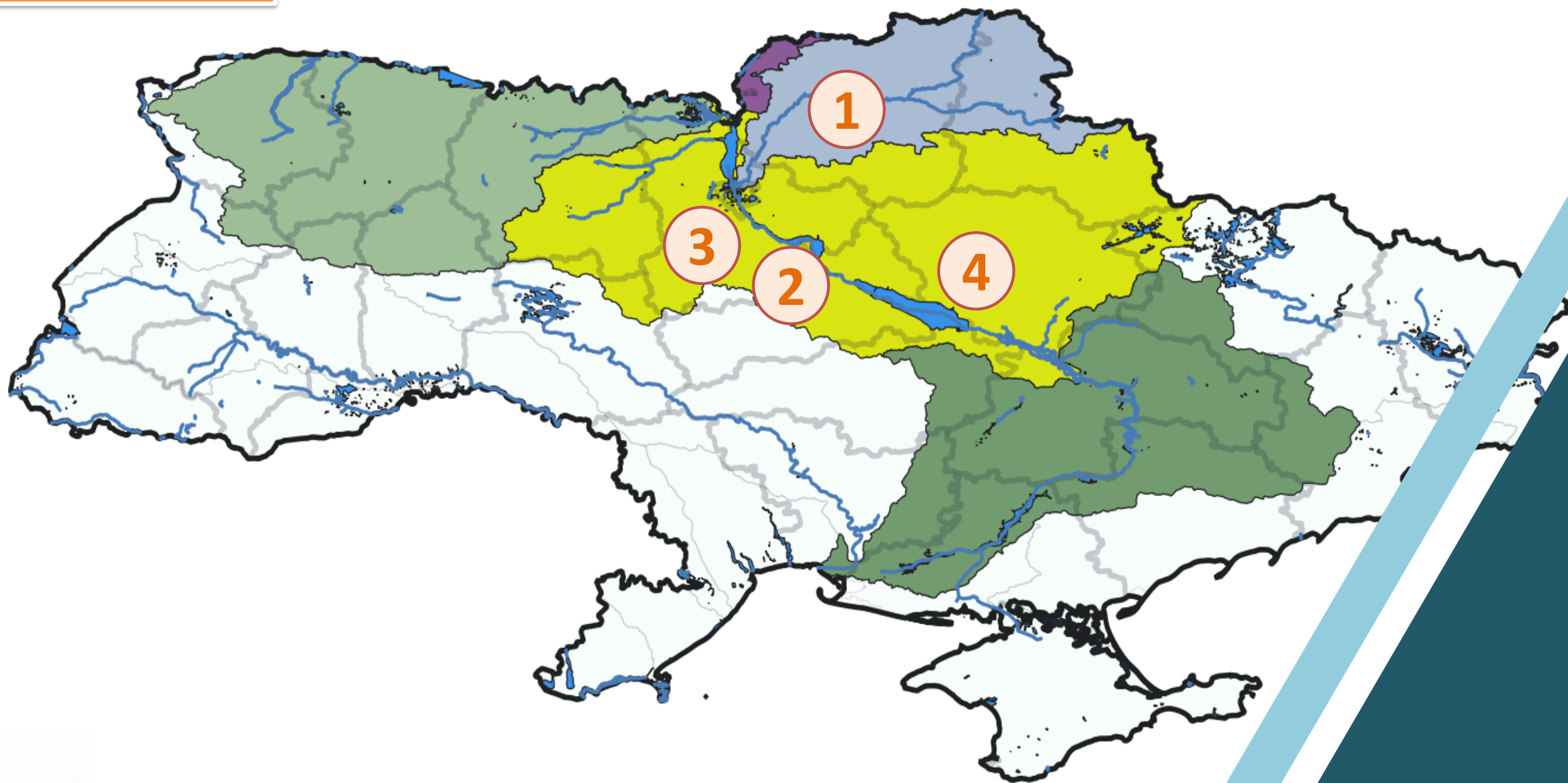
Farm "Astra" 

*Poltava region,
Kremenchuk district*



Director –
Andriy Gorobets

Locations



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D5.3: DSs Implementation plan

Lead: NUBiP of Ukraine

1. Created the volunteer team to work on D5.3

- AUA : Konstantinos Soulis
- AUA : Eleni Raidou
- NIBIO : Rem Confesor
- NIBIO: Hanne Ugstad
- UPNA : Miguel
- UPNA : Javier Casalí
- ISA : Rosário Cameira
- WUR : Maryna Strokak
- AU Pedro Carvalho
- Divina Rodriguez

2. The volunteer team has a meeting on Monday, March 31st.



Document

https://docs.google.com/document/d/1rJlImvcdebl6081rpl6SXYc5Qgl_H1yJy/edit

PATH4MED - DELIVERABLE

[WP5: Co-design, co-development, and coordination of Demonstrations and Open Call management

Task 5.2: Co-design and co-development of Demonstrations

D5.3: DSs Implementation plan

Detailed co-design of the Demonstrations based on participatory approaches following the Living Labs principles.]

LEAD AUTHOR: NUBiP

DATE:

VERSION:



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Water & soil sampling



Water sampling

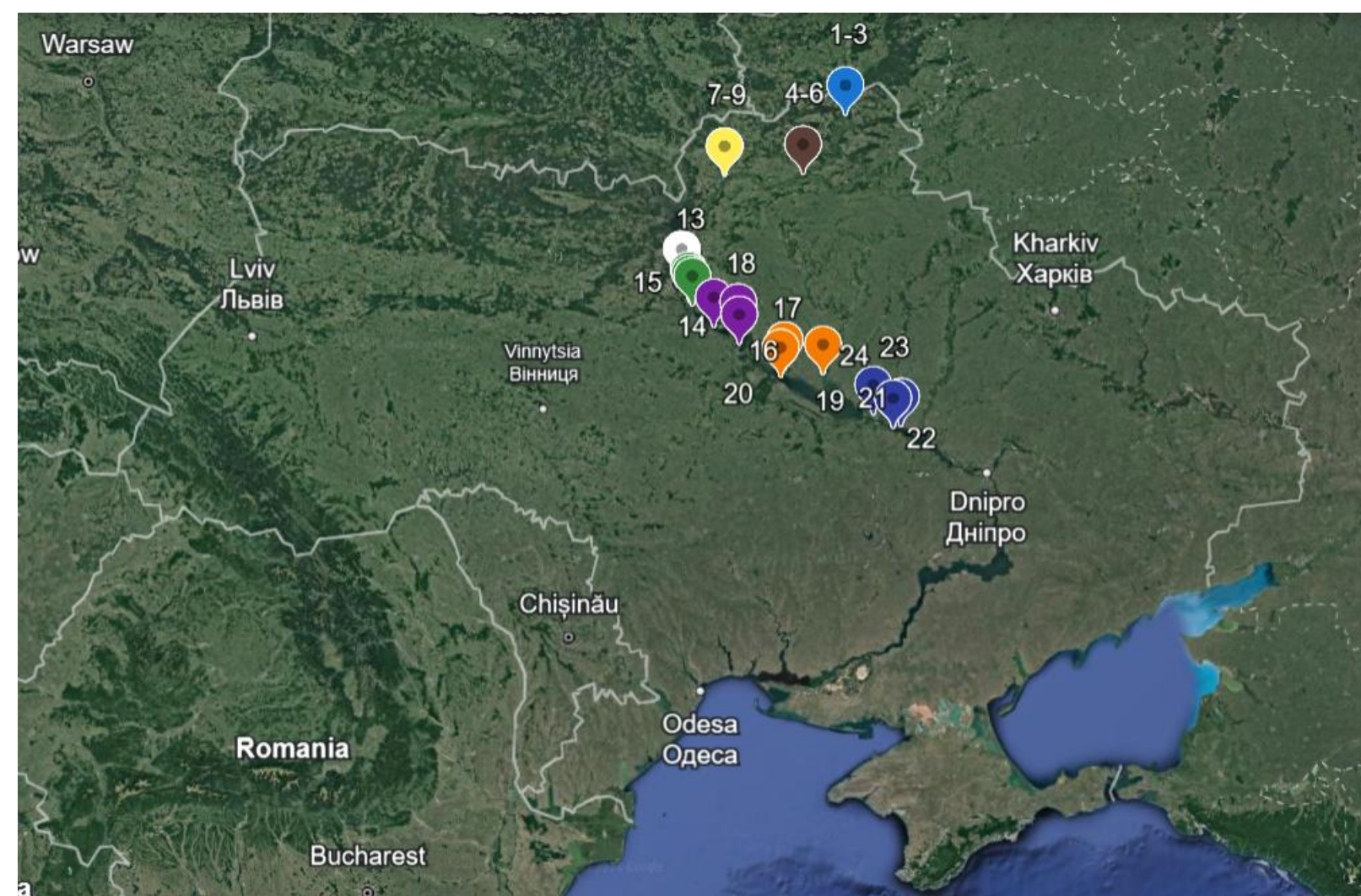
11-13 April 2025 – 4th sampling

APRIL 2025

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|----------------------|--------|---------|-----------|----------|--------|----------|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 Water sampling | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

Water sampling

Responsible - Svitlana Palamarchuk



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<https://nubip.edu.ua/>



Water & soil sampling



Soil sampling

1. Need to choose soil parameters

| № | Soil parameters |
|--------|--|
| 1 | pH (кислотність активна, кислотність обмінна) |
| 2 | Вміст максимально можливих запасів вологи, мм |
| 3 | Вміст гумусу (за Тюрнімом), % |
| 4 | Вміст рухомих форм фосфору, мг/100 г |
| 5 | Вміст обмінного калію, мг/100 г |
| 6 | Вміст мінерального азоту, мг/100 г (нітратний, амонійний) |
| 7 | Вміст лужногідролізованого азоту, мг/кг (За Корнфілдом) |
| 8 | Вміст рухомих форм мікроелементів в ґрунтах (цинк, манган, мідь, кобальт) |
| 9 | Тип та ступінь засолення ґрунту |
| 10 | Вміст обмінного кальцію, мг/100 г |
| 11 | Вміст обмінного магнію, мг/100 г |
| 12 | Вміст рухомих форм важких металів в ґрунтах (свинець, кадмій) |
| 13 | Вміст гербіциду гліфосату (<i>Glyphosate</i>) в ґрунтах |
| Всього | |

2. Need to choose the date of soil sampling

JUNE 2025

| S | M | T | W | T | F | S |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 Soil sampling |
| 15 Soil sampling | 16 Soil sampling | 17 Soil sampling | 18 Soil sampling | 19 Soil sampling | 20 Soil sampling | 21 Soil sampling |
| 22 Soil sampling | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

3. Portable devices for soil sampling in real-time





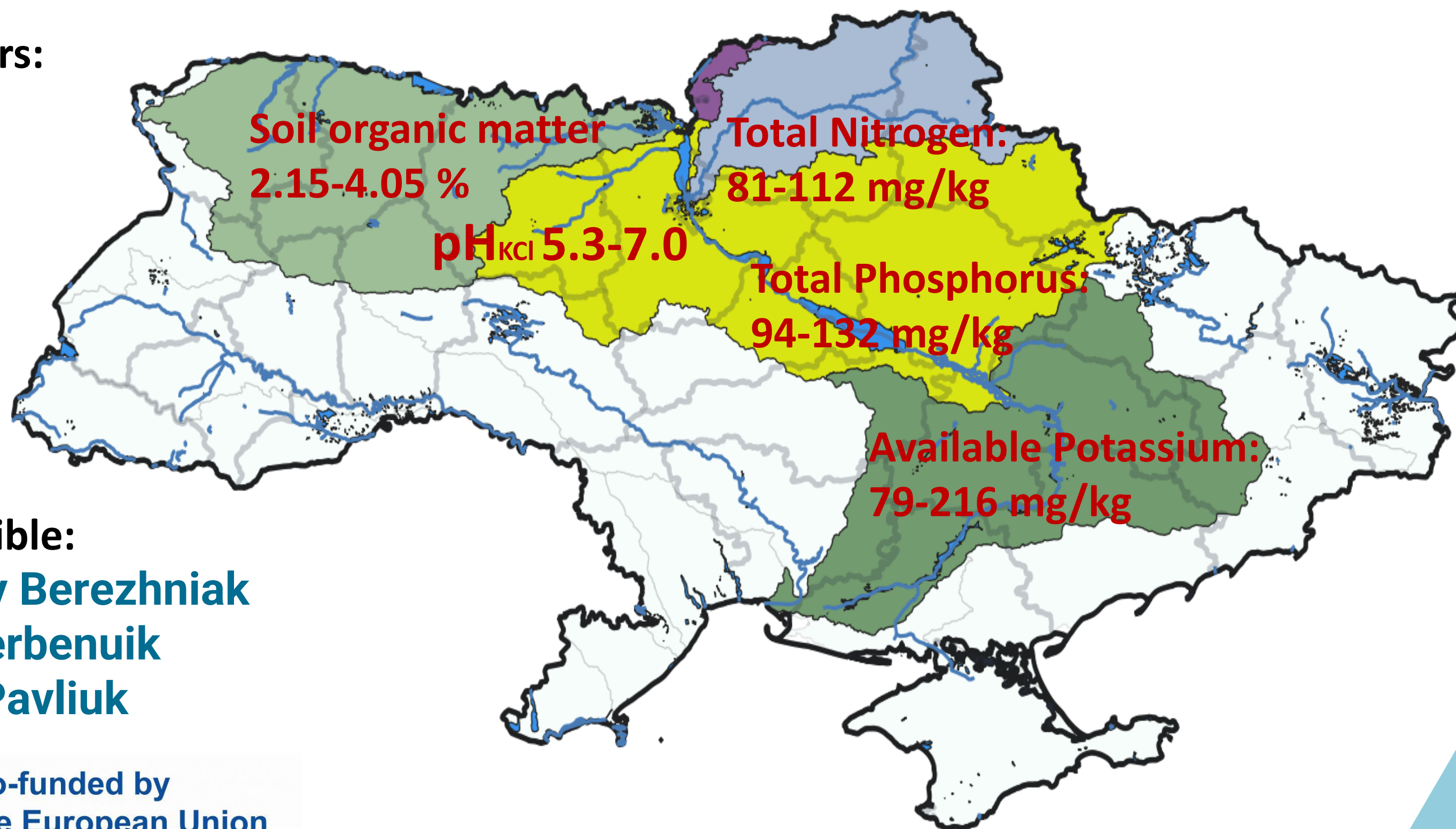
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Discussion



Soil monitoring

Soil
parameters:



Responsible:
Ievgeniy Berezhniak
Anna Serbenuik
Sergiy Pavliuk



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Needs – next step



| 2025 APRIL | | | | | | |
|-------------------------|--------|---------|-----------|----------|-------------------------|-------------------------|
| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 Water sampling | 12 Water sampling |
| 13 Water sampling | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| 2025 MAY | | | | | | |
|----------|--------|------------------------------|----------------------|------------------------------|------------------------------|----------|
| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 Stakeholder meeting | 14 | 15 Stakeholder meeting | 16 Stakeholder meeting | 17 |
| 18 | 19 | 20 | 21 OUR Meeting | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |





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Needs – next step



Path4Med General Assembly in
Tirana, Albania (GA)

| 2025 JUNE | | | | | | |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 Soil sampling |
| 15 Soil sampling | 16 Soil sampling | 17 Soil sampling | 18 Soil sampling | 19 Soil sampling | 20 Soil sampling | 21 Soil sampling |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

| 2025 SEPTEMBER | | | | | | |
|----------------|--------|---------|-----------|----------|----------|----------|
| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 GA | 25 GA | 26 GA | 27 |
| 28 | 29 | 30 | | | | |

Any suggestions, recommendations, remarks ...



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Next meetings



The next kick-off meeting – 21.05.2025 – 14:30-15:30

| Data | Time | Important aspects | Tasks that we need to achieve |
|------------|-------|---|--|
| 30.04.2025 | 14:30 | Water sampling. Integration of agricultural influences (T6.1) | T6.1 |
| 21.05.2025 | 14:30 | Soil sampling. Water monitoring analyses. | T3.1, T3.4 |
| 25.06.2025 | 14:30 | Prepare the first draft of the report. Soil and water analyses. Overview of what we need. Make the water protocols. Deliverables!!! | Draft report (for the second project meeting) |





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