

STØTTET AF

Promilleafgiftsfonden for landbrug

Mid-term report and review – May 31, 2020

CaseAreaslevel (CA)

No.	Name	Leader
1.	Kutno County case area, Poland	Katarzyna Izydorczyk
2.	Zuvintas Reserve and agriculture case area, Lithuania	Elvyra Miksyte
3.	Gurjevsk case area, Kaliningrad, Russia	Irina Popova
4.	Jelgava case area, Latvia	Ingars Rozitis
5.	Põltsamaa case area, Estonia	Kaja Peterson
6.	Ljuga River case area, Leningrad, Russia	Mikhail Ponomarev
7.	Southern Finland drainage case area, Finland	Mikko Ortamala
8.	Result-based payments scheme case area, Sweden	Emma Svensson
9.	Västervik case area, Sweden	Gun Lindberg
10.	Odense case area, Denmark	Frank Bondgaard

Name of CA and location

The Catchment area of Guryevsk, Upper pond. Russia.

In the Waterdrive project, the catchment area of the river Guryevka was selected as area research. The catchment basin of the Upper Pond / Lake Dambas is part of the main catchment area of the Guryevka River. The selected area includes 3 drainage channels. The total catchment area is 971 ha, of which 490 ha is agricultural land.

Name of CA leader and rapporteur:

Irina Popova, Lutchkov Alexey

Names of contributors to the mid-term review:

Irina Popova; MaximPerelehov, Head of the Department of Agriculture; Lutchkov Alexey - Leading engineer – meliorator.

Status of report

In working progress: Yes

Finalized/closed and date: No still open

Report:

1. What is the CA objective in bulletpoints? (max 2000)

1. Reducing nutrient load from agriculture landscape in the river Guryevka.
2. Field research and analysis of the drainage system of the upper catchment area of the river Guryevka, to assess the state of pollution and determine the level of the terrain relief.
3. The study of practical examples of the use of wetlands.

4. Promote collaboration between agricultural producers, private landowners and the municipality using of the Water User Partnership Model (WUP).
5. Review the outcome of the results of the field research and to make the decision on the exact location and specifications of the wetland and its properties and functionalities.
6. Initiate issues associated with land relations and the procedure for obtaining building permits.
7. To develop a technical project and estimate documentation for construction of the wetland, followed by implementation of the project.

2. Describe the key elements of your CA and progress of work until end of P3. (max 6000)

The key elements of the Case Area are:

1. Study of the pilot area for the siting wetland (Catchment area of drainage channels, land category, the territorial zone and buffer zones, farmland area)
2. Holding of meetings in the administration of Guryevsk stakeholders of the project. Clarification on the policy and advisory level of significance of the project.
3. Holding of consultation with experts in the field of land reclamation, environmental protection and with experts of agriculture.
4. To studying best practices in the design and construction of wetlands.
5. The holding of meetings with farmers (individual and focus group).
6. Conducting geodetic survey work.
7. To provide monitoring the state of the nutrient load in the catchment drainage channels (Upper pond Guryevka River) for 2020.
8. To promote knowledge about the project, the importance of wetlands and the use of best practices (FB, website administration).
9. Resolution of issues related to obtaining permits for land and obtaining permits for use of water bodies.
10. Holding of consultations for designing wetland with experts of the project WaterDrive.

3. Describe the final CA outputs like (focus groups, implementation plans, investment plans and other). (max 6000)

The final CA outputs are:

1. There were consultations were held with the following institutions: The Ministry of Natural Resources and Environment, "Kaliningradmeliovodhoz" (AO 39), Kaliningrad Technical University (KSTU, AO38), Baltic Institute of Ecology and the hydrosphere (BIEG), Department of Agriculture (Gurevsk), Municipal Budget Enterprise "Vodokanal", Guryevsk (water supply - sewage). "ECAT Kaliningrad" (AO 36).

2. Information was received on the boundaries of the Guryevka river water protection zone.
3. Aerial photography was conducted on the pilot area
4. Geodetic surveys engineering was conducted.
5. There are conducting field research and analysis of the drainage system of the upper catchment area of the river Guryevka, to assess the state of pollution and determine the level of the terrain relief.
6. There was developed a monitoring plan for the nutrient load status of the catchment of drains (UpperPond of Guryevka River) for 2020.
7. Three meetings were held with focus groups and two individual meetings with farmers and landowners, during which information was provided information on Wetlands (types & benefits) and their role in environmental protection.
8. Promotion of project activities in Facebook and on administration website; there was prepared informational and promotional materials and organized by placing them on the site.
9. There was select a location for the construction of the wetland.

4. Please, list the five most important experiences from your work in the CA that you would like to share with the Waterdrive target groups. (max 3000)

A study of CA showed that in open sources there is practically no information on the technical, environmental topographic parameters of this territory. Any information can be obtained only upon request (most often the answer to the request is paid).

The main sources of water pollution in the catchment area of r. Guryevka is agriculture (arable land and pastures) and settlements.

We are faced with the problem that farmers are very low motivated. Only the authority of WUP chairman may be interested farmers to participate in a seminar or information meeting.

We have studied and are studying successful practices in the use of wetlands. Exchange of good practices is very important. And we came to the conclusion we need to actively introduce this information for farmers and the public. Also, it is necessary to use GIS technology to analyze the situation.

Contact with associated partners is an important channel to raise awareness of different aspects of the activity.

5. What makes your CA unique in relation to the other CAs we have in Waterdrive?

We think about our CA:

Compared with other CA, our CA may not much stand out, but in our region, there is no practice to the construction of wetlands. If we are able to implement this project in its entirety, it will be a unique facility in the Kaliningrad region. Maybe this will reduce the level of Wetland nutrients not so much. But the realization of such a

project within Waterdrive is a step towards the comprehensive study of local watersheds Guryevka River. It can be a tool for the decision to reduce the level of eutrophication of the river.

6. Please, list what you consider the five most important innovations (technological or methodological) that can bring added value to water management in agricultural landscapes of the Baltic Sea Region.

1. The interaction between ministries and agencies (federal, regional and municipal) for capacity building in the field of water management.
2. Participation of associate organizations in the activities of the project for technical/scientific data and information dissemination.
3. Cooperation in local focus groups to use WUP- tools.
4. Using GIS to study watersheds and popular visualization available to the public.
5. The study and promotion of best practices that can be an additional incentive to implement them in the context of its territory.

7. List some unexpected outcomes from the Waterdrive cooperation so far. (max 3000)

1. Lengthy negotiations for the settlement of land relations, because part of the land intended for the wetlands has different owners and different levels of property (federal, regional, municipal) - a very difficult task.
2. The involvement of farmers in the project. It is difficult to convey to them the information. The big problem is that there is no programs of funding.
3. Cooperation and communication between all partners are very important and need much more attention in the future in cross-sector cooperation. Communication makes it easier to solve the problem.

8. Estimate how the workload in your CA is distributed over time by estimating workload in % by Period?

Period 1-3: 40%
Period 4: 40%
Period 5: 20%
Total: 100 %

1. List and motivate any changes required in P4 and P5 compared to descriptions in the original application. (max 3000)

Change desired	Motiv
COVID-19 has made adjustments in the organization of meetings with farmers and focus-groups:	1. To conduct individual meetings with farmers (3 farms). 2. To organize online meetings (MS Team/ Zoom) and presentations.

Change the format of the meetings.	
Change budget item budget line: BL1; BL3.	We use contracts not being equivalent to the employment contract. Part of the budget line B1 & B3 should be included in budget line B4.

2. List the most important agri-environmental measures you work with in the case area.

1. The research is only the beginning of the study of the nutrient load changes in the catchment of the UpperPond. Laboratory analysis of water samples, which has been carried out since the beginning of 2020, shows the situational state. Accordingly, further research is required for one to two annual cycles. After that, it can be concluded about the geo-environmental state in the drainage system. It is possible to expand information on the quality of water in the Gurievka River using the data obtained earlier in the WaterNet project for 2017-2018.
2. Using the WUP concept to manage the Guryevka river basin.
3. A study of best practices for the conservation and application of wetlands.
4. Restoration of drainage network in the region is included in the State Program of the Kaliningrad region "Integrated development of rural areas." In 2019, the program repaired 383 km of drainage canals and subsurface drainage. In 2020, it planned to repair 503 km of drainage canals. Drainage channel (1), which is located in our CA and which collects wastewater of settlements (n. Orlovka) will be repaired in 2021.

3. List Waterdrive partners/persons and their roles/responsibilities in completing the CA outputs.

Persons/Partners	Roles/Responsibilities
Mikhail Ponomarev	NWRIAEO PP20 is the focal point in Russia having contacts with key authorities, supported by PP22 and AO's. Mikhail communicates between PP22 and WP-leaders
Guryevsk, Russia	
Irina Popova	Project coordinator, CA Leaders; administration of Guryevsk city district.
Igor Mazurkevich	Chairman of WUP; alignment of site-specific environmental measures.
Aleksey Kurilov L.	The head of the Municipality "Guryevsk city district" and Acting Chairman of the District Council of Deputies. He facilitates the work of Water Users Partnerships (WUP), to promote cross-sectoral cooperation between authorities, land users, and the organizations responsible for water resources in the territory of Guryevsk urban district, lobby interests related to the project, AO 37.
Maksim Perelekhov	Head of the Department of Agriculture (Guryevsk); Support the process in relation to the landowners.

Alexey Lutchkov	Leading engineer – meliorator for the Guryevsk district of the Federal state institution “Kaliningradmeliovodkhoz”. (AO 39)
Sergey Shibaev	Kaliningrad State Technical University/ Faculty of Bioresources and Environmental Management, Associate Professor Department, AO38. Research "Hydrochemical and hydrobiological characteristics Guryevka river“.
Dmitryi Domnin	Baltic Institute of Ecology and the hydrosphere, AO13; Director; BIEG has provided research: "The state of the nutrient load in catchment Guryevka river. Watershed drains the Upper pond“.
Olga Sheshukova	Environmental Center “ECAT-Kaliningrad” Prospects for the development of activities WUP of Basin Guryevka and involvement stakeholder. Interaction with the Ministry of Natural Resources and other agencies, promotion and communication of the project, assistance in organizing meetings and seminars, AO36.
Ignatyj Pankratov	Chief of division water-use, Ministry of Natural Resources and Environment of the Kaliningrad region
Valentina Voronina	Specialist in the department of water supply and drainage "Vodokanal", Guryevsk
Anna Alimpieva	Project manager, responsible for communication, organization of meetings, seminars, information on the municipality site and FB.
Anna Gintovt	Consultant of the Standing Committee on Agriculture, Land Use, Natural Resources and Environmental Protection of the Kaliningrad Regional Duma, AO 43.
Tatiana Taletskay	Tutor "School of the Future"; Responsible for organizing the participation of students in the project.

4. Up-date the CA workplan for P4 and P5 by completing the below table/workplan.
You find the Waterdrive master workplan on the SharePoint site.

Activities, bench-marks, deliverables, outputs	Deadline
Recommendations for the Russian part of output 2.3 (practical approach).	P4 Summer/Autumn
Integration with 2.1.	p5
Input to 3. Measures (Kaliningrad case box); workshop, Jan-Apr.	P5
Review of materials and accessibility of information on agri-environmental measures in Kaliningrad region.	Aug.2020 P3-P4
Investments and construction project in Kaliningrad case area:	2020/2021 P4-P5
To obtain a decision on the allocation of a water object (part Guryevka River) (Ministry of Natural Resources) and complete municipal land registration procedure.	Jul 2020 P4-P5

To provide for a tender of field surveys and construction.	Aug.2020P4-P5
To develop design documents (including examination)	Oct./ Nov. 2020 P4-P5
Constructed wetland in Kaliningrad	2020/2021 P5
Prepare and obtain a passport Wetland object	2021 P5
Communication about the results in Waterdrive at local and national level	2020/2021 P4-P5

5. Perform a SWOT analysis for the CA processes management support for P4 and P5. List at least five considerations for each category.

Category	Considerations
Strengths	<ol style="list-style-type: none"> 1. There is the state program "Integrated development of rural areas". 2. There are government programs for the reconstruction of drainage canals and of subsurface drainage. 3. There are environmental legislation and regulation of the use of water objects. 4. The catchment area of the r. Guryevka is the subject of research (there are data on the various characteristics of the watershed). 5. There is the road infrastructure in CA.
Weaknesses	<ol style="list-style-type: none"> 1. There is no interaction between the regional and federal programs for the development of the Kaliningrad region of reclamation systems. 2. Lack of good practice use of wetlands. 3. The lack of information about the importance of wetlands. 4. Farmers are not interested in using innovation to reduce the level of eutrophication. 5. There are no programs to reduce the level of eutrophication, and accordingly, there is no financial support. 6. Road infrastructure of CA has a low development.
Threats	<ol style="list-style-type: none"> 1. COVID-19 paralyzed activities in the 3rd period: <ul style="list-style-type: none"> - The ban on holding meetings lowered the level of cooperation; - Practice communicating online does not work; 2. Reduction of subsidies for state and federal programs. 3. The increase in terms of coordination of authorization documents for the federal and regional level. 4. Inability to implement the project due to its high cost. 5. There are no additional sources of funding for the project.
Opportunities	<ol style="list-style-type: none"> 1. Organization of training and information seminars for farmers and local agricultural experts. 2. Creation of educational materials (brochures, presentations, and practical guidelines).

	<p>3. A preliminary tender conference with potential contractors to explain the concept, objectives and requirements of the project.</p> <p>4. Co-financing of the construction of wetland with the landowners or farmers.</p> <p>5. Joint operation of the constructed wetland (Municipality, landowner, the owner of the water body).</p>
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6. List the most important cooperation initiatives with Waterdrive groups of activities and/or case areas. (max 3000)

Group of activities/case areas	Type of cooperation
2.1	Case area implementation Frank /Mikhail
2.2	Leadership and co-ordination Magnus / Mikhail
2.3	New services, Flemming/Mikhail
5.1	Waterdrive overall recommendations, Staffan/Mikhail
5.3	Development of larger technical proposals, Kaj /Mikhail

7. List the target groups most relevant for your CA results communication. (max 1000)

WUP - ensuring close cooperation with entire groups in the preparation and implementation of the project.
Department of Agriculture (Interaction with farmers).
Farmers and local private landowners in the selected area
Local and regional authorities - (support activities aimed at the implementation of the project).
Institutions/universities and schools (an active role in the case study; improving the level of environmental education).

8. List the five most important elements in a participatory toolbox to support strong local action. (max 2000)

1. Involvement of the landowners in the potential solutions using tools WUP.
2. The progress triangle illustrates the importance of new ways of working together and to develop our relations in order to successfully reach common goals.
3. Digital Multiscale Decision Support System – a new application for smartphones to optimize the location of measures in agricultural landscapes.

9. List the five most important considerations when it comes to leadership and coordination to support strong local action. (max 2000)

1. Joint action by the authorities and the leaders of farmers' associations.
2. Important: actively use the sharing of success stories during project implementation and later use.
3. To raise awareness among the target groups such as the rural communities and the local authorities.

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| 4. Active work is supported through information meetings for agriculture leaders as from the government and from the land users holding of information meetings for agriculture leaders as from the government and from the land users/ |
| 5. To Organization of cooperation between different structures (ecologists, environment specialists, reclamation, catchment officers, farmers, landowners, etc.). |

10. List the five most important policy recommendations to support strong local action. (max 3000)

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| 1. EU funding to programs for learning best practices for farmers, landowners, agricultural experts. |
| 2. EU funding of development and publication of educational and methodological materials, inspirational tools for cross-sector local level cooperation and implementation. |
| 3. EU funding of the projects with the involvement of landowners in focus groups. |
| 4. Implementation of agricultural support schemes for environmental measures/end of tile measures. |
| 5. Using GIS tools for decision-making. |
| 6. Using DDS – a new application for smartphones to optimize the location of measures in agricultural landscapes. |

11. Any other comments or issues?

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Add attachments:

- a. Add a PPP with approx. 5-10 slides for presentations of your CA at the Waterdrive website. The PPP should be understandable for the target groups. Use the Waterdrive presentation template.
- b. Add any other material supporting mid-term review and reporting as you wish.