

Project Progress Report: CREATING A SYSTEM OF INNOVATIVE TRANSBOUNDARY MONITORING OF THE TRANSFORMATIONS OF THE BLACK SEA RIVER ECOSYSTEMS UNDER THE IMPACT OF HYDROPOWER DEVELOPMENT AND CLIMATE CHANGE

A.1. Project Progress Report Identification	
Project Title	CREATING A SYSTEM OF INNOVATIVE TRANSBOUNDARY MONITORING OF THE TRANSFORMATIONS OF THE BLACK SEA RIVER ECOSYSTEMS UNDER THE IMPACT OF HYDROPOWER DEVELOPMENT AND CLIMATE CHANGE
Project Acronym	HydroEcoNex
Project Website	
Project Number	BSB-165
Project Duration Start Date	21.09.2018
Project Duration End Date	20.01.2019
Project Priority	2. Promote coordination of environmental protection and joint reduction of marine litter in the Black Sea Basin
Project Priority Specific Objective	2.1 Improve joint environmental monitoring
Lead Partner	Institute of Zoology
Contact Person	Institute of Zoology
Reporting Period	Period 1 : 21.09.2018 - 20.01.2019

A.2. Highlights of main achievements
<p>Management Work Package (M)</p> <ul style="list-style-type: none"> • The necessary steps were taken for project registration for tax exempt, • Letters on co-funding assurance were presented to the lead partner and JTS by each participation institution, • Partner tasks and cooperation opportunities were identified (Consortium Agreement signed by all partners, skype and email discussions) • The project team was appointed (66 team members and 2 voluntary PhD positions and the first expert meetings were carried out (by LP/PP1, PP2, PP3 and PP4). • The First Steering Committee Meeting was carried out by PP2 partner. Main aspects discussed: achievements made by all partners, the main activities/deliverables for the following project period, eMS reporting <p>Implementation Work Package (T1)</p> <ul style="list-style-type: none"> • The first draft of the legislation review was produced by PP2, with a contribution from all partners • Overview of historical data (hydrochemical, hydrobiological, hydrological and meteorological data) and collection of new data (LP/PP1, PP2, PP3, PP4 and PP5). Results are under analysis or published <p>Communication Work Package (C)</p> <ul style="list-style-type: none"> • 4 launching events and 3 press conferences were organized in Chisinau, Galati and Odessa by LP/PP1, PP3, PP4 and PP5 • 1 calendar (200 copies) was produced and disseminated by PP2 • 1 brochure (200 copies) was elaborated by PP2, with contributions from all other partners and was published on paper and online • 1 banner was produced by LP1/PP1 and distributed to all other partners • 1 project Facebook web-site was created for fast dissemination of main project events; • 2 advertisement insertions and 3 press releases were produced and disseminated • Information dissemination on Science Day (Chisinau), and during meetings on other project meetings and study visit (Odessa,Ukraine, Portugal)

A.3. Project Specific Objectives

Project Specific Objectives	Level of Achievement	Explanations
1 - To elaborate a system of monitoring of the influence of hydropower engineering on environment state and ecosystem services delivered by rivers of the Black Sea Basin	to a minor degree	The elaboration of the system of monitoring of the influence of hydropower engineering on environmental state and ecosystem services delivered by rivers of the Black Sea - Dniester and Prut is only at its initial stage. The project partners have made an overview of the specialized literature and own historical data on the impact of hydropower on freshwater ecosystem.
2 - To develop the policy instruments and enhance human capacities for integrated water resource management in light of impacts caused from hydropower and climate change	to a minor degree	PP2 has elaborated the draft of the TOR for an international expert for the development of a Strategy for basin-wide water joint monitoring of transboundary rivers affected by hydropower.
3 - To manage and disseminate the knowledge towards strengthening the transboundary cooperation on integrated monitoring of the impact of hydropower and climate change on river ecosystems	to a large degree	The information and knowledge on the project was started from the initial stage by raising awareness of the stakeholders (national public authorities, researchers, students, interest groups and NGOs) during different project activities: launching events hold by LP/PP1, PP3, PP4 and PP5; at the Steering Committee Meeting and by means of developed communication tools - the brochure elaborated by PP2 and the website, maintained by LP/PP1.

A.4. Target Groups Reached

Target Groups	Target Value	Target Groups Reached (previous periods)	Target Groups Reached (current period)	Source of Verification	Description of Target Group inv.	Target Groups Reached so far %
regional public authority	5.00	0.00	0.00		At this stage no regional public authorities were involved yet.	0.00

national public authority	9.00	0.00	13.00	List of participants of the launching conference organized by LP/PP1 and PP2	In the launching event organized in Chisinau by the LP/PP1 the following national public authorities were involved: representatives of State Chancellery, of the Ministry of Economy and Infrastructure, of the Ministry of Education, Culture and Research, of the Ministry of Agriculture, Regional Development and Environment, of "Apele Moldovei" Agency as well as Ciobruciu Townhall. 1 representative from Regional Ministry of Agriculture and Natural Resources of Transnistria, 2 staff members of HPP station, and 1 representative of hydrometeorologic service took part in the Steering Committee Meeting on January 17, 2019.	144.44
					Representatives from the non-governmental organizations Bios; "Friends of wildlife and nature - OO Джип, Transdnister region, Moldova and Eco-Tiras as well as media representatives (Editorial "Basarabia literara", Radio Moldova, international organizations (UNDP, Austrian Development Cooperation, PNUD and OSCE) participated in the launching event and the press conference	

interest groups including NGOs	13.00	0.00	27.00	List of participants from launching events of LP/PP1, PP3, and PP4, List of participants of the Steering Committee Meeting organized by PP2	organized by LP/PP1. NGOs were also present and gave comments on the expected outcomes at the Steering Committee Meeting (16-17 of January), organized by PP2 (Eco-Tiras) - 5 project team members of Eco-Tiras and 1 representative of NGO ECUT, Tiraspol. 1 employee of the Galati Direction of Public Health, 1 from economic sector (SETCAR Braila) and 2 from the press centre of PP3-UDJG participated to the launching seminar and press conference held in Galati on 28 November 2018. In the launching seminar and press conference held in Galati on 28 November 2018 2 from industry and ecology sectors (CEPROHART Braila, County Office for Pedological and Agrochemical Studies of Galati) received documentation and agreed to participate at future activities as volunteers. In the project launching organized by PP4: Eco-Tiras NGO -2 participants took part, Union of Marinist Painters of Odessa - 1 participant - took part in the launching event. Source of verification: List of participants annexed to the Report on project launching conference at	207.69
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					Galati on 28.11.2018; List of participants annexed to the Report on press conference 28.11.2018; List of volunteers projectBSB165-P3 (registered on 28.11.2018), attached to deliverable D.C.1.1.	
					At the launching events organized by LP/PP1 the following target groups were involved: researchers, lecturers and graduate students of the Institute of Zoology, University Dunarea de Jos Galati, State University of Moldova, Institute of Chemistry, Institute of Geography and Ecology, Institute of Geology and Seismology, Academy of Sciences of Moldova took part. Information about the project was presented in the Section Life Sciences of the Academy of Sciences participants At the Steering Committee Meeting on 16 and 17 of January, 2019 the following target groups took part: 2 representatives of Ukrainian Centre of the Ecology of Sea, 1 representative of Hydrometeorological Centre for Black and Azov Seas, 2 representatives of University Dunarea de Jos Galati, 1 representative of the Institute of Geography and Ecology, 7	

higher education and research	20.00	0.00	166.00	List of participants from launching events of LP/PP1, PP3, PP4 and PP5, List of participants of the Steering Committee Meeting organized by PP2	representatives of Institute of Zoology, 2 representatives of State University of Tiraspol, 1 representative of Moldova State University At the launching event on 12 of December, 2018 organized by PP5 the following target groups were involved: 20 representatives of UkrSCES, 22 representatives of HMC BAS - 8, representatives of Odessa Lower Dniester National Park - 3, representatives of Odessa National University - 4, representatives of Odessa National Polytechnic University - 1, representative of Institute of Marine Biology - 1. In the launching event which took place in Odessa organized on 6 of December by PP4: Polytechnic University - 1 participant, Odessa National University - 4 participants, Odessa State Ecological University - 1 participants, Institute of Zoology, Ministry of Education, Culture and Research, Moldova - 4 participants, Institute of Marine Biology - 2 participants, Institute of Market Problems and Economic and Ecological Research of the National Academy of Sciences of Ukraine - 1 participants, UkrSCES - 41	830.00
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					participants, HMCBAS - 6 participants, Odessa Lower Dniester National Park - 3	
General public	2 700.00	0.00	77.00	Facebook Page Hydroeconex	On the Facebook inhabitants from Moldova and other countries were informed about the project, the page has currently 77 follows.	2.85

A.5. Work Package Management (management)

WP number	WP title	WP start date	WP end date	WP status	WP expenditure - current report	% of WP reported so far
M	Management	09.2018	03.2021	proceeding according to work plan	0.00	0.00

Partners` involvement

Abbreviation	Name
IZ	Institute of Zoology (Lead Partner)
Eco-Tiras	International Association of River Keepers "Eco-Tiras"
UDJG	University Dunarea de Jos Galati
SRI UkrSCES	Scientific Research Institution Ukrainian Scientific Centre of the Ecology of Sea
HMCBAS	Hydrometeorological Center for Black and Azov Seas

Please Describe The Progress In This Reporting Period And Explain How Were Partners Involved And Who Did What

The project implementation was carried out in accordance with the grant contract, the Guidelines for Grant Applicants, the Programme and the EU and applicable national legislation. LP/PP1 coordinated preparation of project documents, including the co-funding letters, scanning the budget and partnership agreements and sending them to all partners, introducing modifications into the eMS system, made the financial transfers to all partners and sent the notifications to JTS and the Management Authority. All partners have registered the project with relevant authorities for tax exempt. In Moldova LP/PP1 registered the project on the governmental platform of the Republic of Moldova (amp.gov.md) and presented the project documents to the Ministry of Finances (Decision, Monitorul Oficial on 23 November, 2018), in Romania the project was registered at the Ministry of Public Finances and Ministry of Research and Innovation on 25.09.2018 and in Ukraine the project was registered at Ministry of Economic Development and Trade on 29.11.2018 (relevant documents are added into Attachments section). All partners contributed to the development of project logo, the text of the consortium agreement and completed the appropriate job descriptions in accordance to the qualification required by each partner in HydroEconex project (issues were discussed with partners on skype on 10.10.2018 and via email). LP/PP1 has conducted several skype conference discussions and a kick off meeting (back to back with launching conference). Partner tasks and cooperation opportunities were identified (Consortium Agreement was signed by all partners, skype and email discussions for project Consortia consolidation). The project team was appointed (66 team members and 2 voluntary PhD positions and the first project team meetings were carried out (by LP/PP1, PP2, PP3 and PP4). PP2 organized the 1st Steering Committee Meeting, with participation of all partners of the Consortia.

Please Describe And Justify Any Problems And Deviations Including Delays From The Work Plan Presented In The Application Form And The Solutions Found

The project management was carried out in accordance to the work plan, there are only some small inconsistency in the project periods that shall be adjusted accordingly (see description in the problems and solutions).

Please describe progress achieved in this reporting period

Activity Number	Activity title	Start month	End month	Status
Activity M.1	Task definitions and project team mobilization	09.2018	10.2018	proceeding according to work plan

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable M.1.1	Consortium Agreement	The purpose of this Consortium agreement will be to specify the relationship among the members of the consortium, their rights and obligations.	10.2018	Consortium agreement specifies the relationship among the members of the consortium, their rights and obligations. The elaboration of the document was initiated by the LP in cooperation with PP2 and then sent around to PP3, PP4 and PP5 who sent feedback and suggestions. The document was based on partnership agreements a grant contract, stating the rules and obligations of project partners, rules of reporting, role of lead beneficiary, procurement rules etc. Additionally to this, the document includes the principles of cooperation among project partners. The document was signed by all project partners.	completed	/home/eMS-Home/financeReport Uploads/PR34/DEL27649/null/Consortium_Agreement_final_version.pdf
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable M.1.2	Job descriptions	Job description will provide a description of the personnel involved in the project. The lead partner will elaborate a template that will be distributed to all project partners, pertaining the post title, project title, project duration, responsible to, project background and purpose, scope of work, expected project outputs and activities in which the person will be involved, experience and qualifications and way of reporting.	09.2018	Job description of LP/PP1, PP2, PP3, PP4 and PP5 provide a description of the personnel involved in the project in accordance to the partner budget , including two PhD students involved on a voluntary basis. A total number of 68 job descriptions were developed: LP/PP1 - 22 members, PP2 - 11 team members, PP3 - 16 team members and 2 PhD students on voluntary basis, PP4 - 9 members and PP5 - 8 team members at executive and managerial, managerial and executive level). The lead partner distributed a template with an example to project partners, however PP3 followed the requirements of the UDJG, required for employment contracts.	completed	/home/eMS-Home/financeReport Uploads/PR34/DEL27650/null/Job_description_all_partners.rar
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable M.1.3	Skype meetings reports	The reports will summarize the main issues on presented during skype discussion and the plan of activities, tasks and relevant deadlines were agreed on.	10.2018	Web conferencing via skype was an invaluable communication tool used by LP for clarifying project issues in the initial stage. The issues were related to partners documentation they have to present to the LP, partners tasks, procurement rules, communication and visibility rules. During September-November, 2018, the LP project manager, Elena Zubcov had a very frequent communication with partners from Ukraine and Romania via skype (almost every day). However, 3 skype discussion were most relevant, for which the minutes of the discussion are attached as evidence of communication.	completed	/home/eMS-Home/financeReport Uploads/PR34/D EL27651/null/Pro toxol_of_Slype_meetings.pdf
Activity Number	Activity title		Start month	End month	Status	
Activity M.2	Steering Committee Meetings		11.2018	03.2021	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
				The First Steering Committee Meeting of HydroEcoNex was held during 16-17 of January, organized by the PP2 in Chisinau and Tiraspol. The members of the project teams of the PP1, PP2, PP3, PP4 and PP5 as well as local stakeholders (representatives from the ministries, administration of Dubasari		



Deliverable M.2.1	Steering Committee Meeting Reports	<p>The meeting report will contain agenda, minutes of the meeting, list of participants, information about field trip relevant pictures, press releases and info on press conferences and evaluation forms of the meetings. The minutes of the meeting will summarize the main points of discussion, the quality of the provided reports, main project outcomes and deliverables, the level of deviation from the project plan, the main benefits for the target region and stakeholders involve</p>	03.2021	<p>hydropower plant (HPP) and Yagorlyc nature reserve as well as NGOs) took part in the event. During the first day, the members of the Steering Committee of HydroEcoNex reflected on contribution of each partner for achieving the project objective: the development of an unified system of innovative environmental monitoring on the transformations in Black Sea Basin's river ecosystems, caused by hydropower operation under climate change. During the second day, the participants visited the Dubasari Reservoir and Dubasari Hydropower Plant. Besides the project team, the regional ministry of agriculture and natural resources, the HPP administration, the director of the Iagorlic State Reserve, staff members of the Tiraspol University, the regional hydrometeorologic service as well as of youth environmental educational structures and local NGOs) took part in the visit. The of HPP, reflected on the main technical aspects of the functioning of Dubasari Hydropower Plant. In the afternoon, an excursion was</p>	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/D EL27652/null/Steering_Committee_Meeting_Report.rar
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				also organized to "Aquatir" Sturgeons Complex in Tiraspol – a modern facility for sturgeon reproduction. The uploaded documents of the Steering Committee Meeting report includes: agenda, invitation, minutes of the meeting, the list of participants. Relevant photos on the event are available on the project web-site https://www.facebook.com/projectbsb165/posts/284421008915236?_xts__%5B05D=68.ARCJS1kbvz0ecxHhPrNptdn030RibWj6BQntTTaW5jj82e51h7oefHCL1Se9m1fMFAnKnhvOGa0mInQ49sgS2nfq1j1MHuS		
Activity Number	Activity title		Start month	End month	Status	
Activity M.3	Financial Management and Auditing		10.2018	03.2021	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence



Deliverable M.3.1	A consolidated financial interim report	After the mid term project implementation the project partners will submit an interim financial report along with the scanned copies of the financial documents. The lead partner will make the consolidated financial report and contact partners in the case of additional clarification/corrections. The consolidated interim financial report will be submitted to the Managing Authority one month after the mid term project implementation (October,2019).	10.2019		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable M.3.2	Audit report	Each partner will need to undertake an audit to check the correctness and financial performance in accordance to the requirements of Financial Regulations and Directives of EC and the requirements of the BCB Programme. The audit report needs to certify that in accordance to the auditor opinion, the financial reports reflects the planned project planning and are in accordance to the national legislation on accountings. The auditor shall ensure that the audit work complies with internationally accepted audit standards.	10.2019			not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence	
Deliverable M.3.4	A consolidated final financial report	The final financial report will be completed 6 month after the project finalization. The partners will need to submit their final financial reports 4 months after project completion. The project lead partner will check the project expenditure and make a consolidated final financial report and submit it 6 months after the project finalization	03.2021			not started	
Activity Number	Activity title	Start month	End month	Status			
Activity M.4	Project performance measurement, reporting and monitoring	09.2018	03.2021	proceeding according to work plan			

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable M.4.1	Consolidated progress report	The progress reports will provide information about the implementation of project activities and their quality of implementation. The progress reports will be submitted the following month after 4 month of project period. The lead partner will inform the project partners one month before the last month of progress report and remind about the progress report. After receiving the project reports from the partners, the lead partner will make a consolidated report.	01.2019	LP informed the PPs during Steering Committee Meeting (16-17 of January, 2019) on the need for development of project reports. Each partner filled in the Partner report and downloaded the pdf files, based on all Partner Project, LP developed the consolidated partner report (Project Progress Report). After the first draft was finalized, it was circulated among partners to give suggestions, feedback and after that submitted to JTS. Partners gave comments and then the final progress report was submitted.	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable M.4.2	Consolidated final report	The final report will include the narrative report and will be prepared by the lead partners. The project partners will submit to the lead partners their final reports within 4 months after completion of the project implementation and the lead partner will prepare a consolidated final report within two month period and submit it to the Program Managing Authority.	03.2021		not started	

A.5. Work Package Creation of the up-to-date system of transboundary monitoring (implementation)

WP number	WP title	WP start date	WP end date	WP status	WP expenditure - current report	% of WP reported so far
T1	Creation of the up-to-date system of transboundary monitoring	09.2018	03.2021	proceeding according to work plan	0.00	0.00

Partners` involvement

Abbreviation	Name
IZ	Institute of Zoology (Lead Partner)
Eco-Tiras	International Association of River Keepers "Eco-Tiras"
UDJG	University Dunarea de Jos Galati
SRI UkrSCES	Scientific Research Institution Ukrainian Scientific Centre of the Ecology of Sea
HMCBAS	Hydrometeorological Center for Black and Azov Seas

Please Describe The Progress In This Reporting Period And Explain How Were Partners Involved And Who Did What

The implementation activity was led by LP/PP1 but also other partners were involved in the development of the deliverables within this Work Package. Therefore, PP2 coordinated the elaboration of the first draft of the legislation review (DT1.1.1). LP/PP1 is coordinating the development of the deliverable DT1.2.1 - The Protocol of Monitoring the Impact. At the stage of first progress report, partners contributed with a description of the activities undertaken, monitoring data were collected are under analysis. It is foreseen that a draft of scientific results will be presented in the second progress report. All partners (LP/PP1, PP2, PP3, PP4 and PP5) described the results of their contributions to the fulfillment of this deliverable in their partner reports.

Please Describe And Justify Any Problems And Deviations Including Delays From The Work Plan Presented In The Application Form And The Solutions Found

There is no delays of the work plan, only some inconsistencies were found with the project output (described in the Report Section of the Project Progress Report).

Please describe progress achieved in this reporting period

Activity Number	Activity title	Start month	End month	Status
Activity T1.1	Overview of the national and international legislation on monitoring of surface waters and transboundary use of aquatic resources	09.2018	09.2019	proceeding according to work plan

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
				An overview was made on the national and international legislation on monitoring of surface waters and transboundary use of aquatic resources. In chapter 1, an overview on international provisions, legal and procedural aspects on innovative transboundary monitoring of the transformations		

<p>Deliverable T1.1.1</p>	<p>Review on legislation</p>	<p>The review will discuss the reference conditions for surface water, the national/international regulations on transboundary monitoring and legislative framework on climate change adaptation. The information will be reflected in the first progress report.</p>	<p>01.2019</p>	<p>of the river ecosystems under the impact of hydropower development and climate change. In chapter 2 an overview of the EU policy and legislative framework in which hydropower is expected to operate in Europe, accordingly to key provisions stating the requirements for the prevention of the a further deterioration of rivers but also to actively restoring their ecological status and removing, or at least significantly reducing, the pressures and threats they from hydropower activities. In chapter 3, recommendations are given regarding the international regarding the monitoring of the effects of hydropower on freshwater ecosystems. A focus is given on Water Framework Directive and Habitats Directive, also relevant aspects on assessing the impact were compiled from the Regulations on the status of surface water and that of monitoring and systematic evidence of the state of surface and underground water. An example on impact scaling of hydropower impact is presented from Czech Republic,</p>	<p>proceeding according to work plan</p>	<p>/home/eMS-Home/financeReport Uploads/PR34/D EL27658/null/Legislation_overview_2nd_Draft.pdf</p>
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				also an overview is made on those changes and indicators of impact, which are important for monitoring the hydropower impact in the context of climate change. Particular attention is given in Chapter 4, in which an analysis was made of the Romanian, Ukrainian and Moldovan legislation, which aim to find a synergy between policies and practices on energy, nature and water in order to take account of the river's ecological requirements early on in the planning process and wherever possible also include measures to improve the ecological status of the river, illustrating this with good practice examples of ecological restoration from across the EU.		
Activity Number	Activity title		Start month	End month	Status	
Activity T1.2	Monitoring of ecosystems state downstream the hydropower dams on the transboundary Dniester and Prut rivers		10.2018	03.2021	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
				A discussion was started on the set of common indicators to be used by all partners for assessing hydropower impact. Main reflections about such discussions can be found in the minutes of the launching events of LP/PP1,		

<p>Deliverable T1.2.1</p>	<p>Protocol of monitoring the impact</p>	<p>As in the case of separate data collection, the protocol will be based on the description of specific river impact parameters that are characteristic for transboundary river ecosystems, affected by hydropower. However, this time it will be possible to have a broader view on the impacts, jointly analyzing the issues, which face countries sharing the rivers for energy, drinking water, irrigation or other water services, and thus to prepare appropriate information for decision makers.</p>	<p>12.2020</p>	<p>PP3, PP4 and PP5 as well as of the Steering Committee Meeting. Within this activity, LP/PP1, PP2, PP3, PP4 and PP5 were involved in the preparation or procurement (e.g. PP2) of field and laboratory equipment and necessary consumables and methodological guidelines for research, systematization of hydrochemical, hydrobiological, hydrological and meteorological parameters existing in the laboratory before construction of the hydropowers on the Dniester River (1970-1980). Also specialized literature was reviewed on the impact of hydropower on the following components : a) the dynamics of pollutants in the water-suspension system; the changes occurring on the structure of populations of different groups of hydrobionts (bacteriophyta and zooplankton, as well as zoobenthos and fish), structural functional state of the hydrobiocenoses and parameters of hydrobiont productivity . PP5 reviewed average daily and monthly average values of hydrometeorological parameters of waters and atmosphere for the stations of the Dniester and Prut river basins</p>	<p>proceeding according to work plan</p>
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Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
				for developing numerical models and climate change scenarios.		
Deliverable T1.2.2	Consolidated interim scientific report	The report will include an overview of the assessed impacts on the shared rivers, based on river processes and ecosystem response (physico-chemical and biological). All group of partners cooperating on shared rivers will write a report (5 reports will be produced), IZASM will systematize the final data to produce a consolidated final report (1). The report will be reflected in the Vth progress report a summary made in a language understandable to the general public will be placed on website.	10.2019		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
				1.Expert reflections (LP/PP1 in cooperation with PP2) on changes of fish diversity, which occurred under the impact of hydropower of middle Dniester and Dubasari reservoir were also presented in the article "Multiannual dynamics of ichthyofauna of middle Dniester river and Dubasary reservoir", authors: Bulat, Dm., Usatyi		

<p>Deliverable T1.2.3</p>	<p>Scientific articles and thesis conferences</p>	<p>The published articles on new and historical data on the impact of hydropower on Dniester and Prut rivers will be used to communicate researchers from the field of water resource management on the developed common methodology of monitoring and its use for replication in other regions.</p>	<p>03.2021</p>	<p>M., Trombitsky I., Zubcov E., and also a general overview concerning the quality of water according to the bacterioplankton indices of the Medial Dniester river. ŞUBERNEŢKII, I.; JURMINSKAIA, O.; NEGRU, M.; ZUBCOV, E. Evaluarea calităţii apei fluviului Nistru pe baza parametrilor cantitativi ai bacterioplanctonului. Both articles were published in the Proceedings of the scientific-practical conference (with international participation), Tiraspol, 16-17 November, 2018, 38-41 and 230-234, Eco-Tiras, 2018, Print-Caro. The proceedings can be downloaded on the https://www.eco-tiras.org/books/conferinta_tiraspol_2018.pdf 2. Expert reflections on the legislative aspects for the regulation of the Dniester Hydro energetic complex (DHEC) on the the Lower Dniester ecosystems health were presented in the scientific article "LEGAL ASPECTS OF HYDROPOWER IMPACTS ON TRANSBOUNDARY DNIESTER RIVER ECOSYSTEM" (PP2, author Ilya Trombitsky) published at the International Symposium "Functional Ecology of Animals"</p>	<p>proceeding according to work plan</p>	<p>/home/eMS-Home/financeReport Uploads/PR34/DEL27661/null/Scientific_Articles_Published_during_1st_Progress_Report.pdf</p>
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				dedicated to the 70th anniversary from the birth of academician Ion Toderas .		
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.2.4	Consolidated final scientific report	The lead partner will systemize the scientific reports presented by partners in a consolidated final report.	03.2021		not started	
Activity Number	Activity title		Start month	End month	Status	
Activity T1.3	Economic valuation of lost ecosystem services.		09.2018	10.2019	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.3.1	Report on valuation of ecosystem services	The report will present an economic valuation of ecosystem services lost, the description of the methodology used and recommendation for the application of the methodology for calculating the compensation for the impacts.	10.2019	Based on available literature the identification of river ecosystem services that can be potentially impacted by hydropower operation are currently identified by the expert on ecosystem services of PP2.	proceeding according to work plan	
Activity Number	Activity title		Start month	End month	Status	
Activity T1.4	International workshop on validation of monitoring indicators		10.2020	10.2020	not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.4.1	Workshop report	The workshop report will contain agenda, the list of participants, main discussion points and presentations, relevant pictures, evaluation forms.	10.2020		not started	
Activity Number	Activity title		Start month	End month	Status	
Activity T1.5	Testing of elaborated set of monitoring indicators on the transboundary rivers Dniester and Prut		03.2019	03.2021	not started	

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.5.1	Data sets for Dniester and Prut river	The data sets will be based on the description of specific river impact parameters of Dniester and Prut river, that are characteristics for transboundary river ecosystems affected by hydropower. However, this time it will be possible to have a broader view of the impacts, thus jointly analyzing the issues countries sharing the rivers for energy, drinking water, irrigation or other water purposes and prepare appropriate information for decision makers.	10.2020		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable T1.5.2	Guide on common methodology for monitoring of hydropower impacts on transboundary river ecosystems	The guide will discuss the overview of the elaborated monitoring methodology with particular emphasize of the investigated transboundary rivers. The guide will contain a general overview of the monitoring methodology developed (produced by IZASM), methodology of economic valuation of ecosystem services (produced by Eco-Tiras), case studies: Dniester river (produced jointly by IZASM, UkrSCES and HMCBAS), Prut river (produced by UDJG and IZASM).	10.2020			proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence	
Deliverable T1.5.3	Scientific articles	Each team of partners working on shared rivers will produce a joint article with a critical analysis of the hydropower impacts in the context of climate change and the results of testing the elaborated set of monitoring indicators as well as recommendations for the potential decision makers.	03.2021		not started		
Activity Number	Activity title		Start month	End month	Status		
Activity T1.6	Organize a youth summer school		07.2019	08.2019	not started		
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence	

Deliverable T1.6.1	Summer school report	The summer school report will contain agenda of the summer school, list of participants, video of photo recording, participant reflections on the event. The report will be available on project website.	08.2019		not started	
Activity Number	Activity title		Start month	End month	Status	
Activity T1.7	Knowledge transfer workshops for decision makers, water resource specialists and graduate students		12.2019	12.2020	not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.7.1	Knowledge transfer workshop reports	The workshop reports will contain the agenda, list of participants, main topics discussed, presentations delivered, evaluation forms.	12.2020		not started	
Activity Number	Activity title		Start month	End month	Status	
Activity T1.8	Development of a strategy for bilateral water cooperation on joint monitoring of transboundary rivers affected by hydropower		02.2019	12.2019	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.8.1	Final strategy document	The final draft will be delivered after receiving the final feedback from partners and relevant decision makers from the ministries and Water Border Commissions. The final document will be published in the proceedings of the international conference and also available for download on the project website.	12.2019		not started	
Activity Number	Activity title		Start month	End month	Status	

Activity T1.9	Organization of an international conference on hydropower impact on ecosystem functioning		10.2019	11.2019	not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.9.1	Conference proceedings	The conference proceedings will include the collection of papers and relevant projects/actions related to the state of freshwater ecosystems of Prut and Dniester river and impact of hydropower that will be presented at the conference and the elaborated strategy for bilateral water cooperation on joint monitoring of transboundary rivers affected by hydropower, as well as the Conference resolution that will be delivered to the governments of the Black Sea countries.	11.2019		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.9.2	Conference report	The conference report will contain agenda, list of participants, relevant photos, most relevant presentations, discussion points and conference resolution.	11.2019		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable T1.9.3	Posters	Posters will present the main project results from the investigated rivers.	10.2019		not started	

A.5. Work Package Communication (communication)						
WP number	WP title	WP start date	WP end date	WP status	WP expenditure - current report	% of WP reported so far
C	Communication	09.2018	03.2021	proceeding according to work plan	0.00	0.00
Partners` involvement						
Abbreviation			Name			
IZ			Institute of Zoology (Lead Partner)			
Eco-Tiras			International Association of River Keepers "Eco-Tiras"			
UDJG			University Dunarea de Jos Galati			
SRI UkrSCES			Scientific Research Institution Ukrainian Scientific Centre of the Ecology of Sea			
HMCBAS			Hydrometeorological Center for Black and Azov Seas			
Please Describe The Progress In This Reporting Period And Explain How Were Partners Involved And Who Did What						
<p>A total number of 4 project launching events were organized by LP, PP3, PP4 and PP5 in Chisinau, Galati and Odessa, starting from mid of November, 2018 to Mid of December, 2018. The events were attended by by project partners, representatives of research and education institutions, water management institutions, State Chancellery, ministries, non-governmental organizations as well as international organizations. The events were mediated on printed and online media as well as social media; also a short information was included in the 4th BSB newsletter. The links can be followed on the project website on Facebook: https://www.facebook.com/projectbsb165/posts/258057864884884?_tn_=K-R http://www.en.ugal.ro/events/scientific-events/286-launchingseminar-of-the-project-hydroeconex,-code-ems-bsb165,-eni-cbc-joint-operational-programme-black-sea-basin-2014-2020. PP2 contributed with support in organization of launching events in Chisinau and Odessa (by PP4) and also in cooperation with all project partners developed, published and disseminated two project publications (brochure and calendar). LP elaborated in cooperation with all other partners the project logo, a banner, which was delivered to all other partners and created a Facebook website on the project, with the purpose of timely dissemination of information about the project events. The project was presented at the public event dedicated to the Day of Science on 10 of November in Chisinau and also to a project meeting and study tour of the GEF project "Enabling Transboundary Co-operation and Integrated Water Resources Management in the Dniester River Basin" . LP/PP1 prepared information for the 4th newsletter of BSB2014-2020 Programme. The communication materials and activities were prepared in accordance to the requirements set in the Manual on Communication and Visibility.</p>						
Please Describe And Justify Any Problems And Deviations Including Delays From The Work Plan Presented In The Application Form And The Solutions Found						
<p>No delays were encountered in implementing communication activities and deliverables, however there are some observations to be taken into consideration for the next project period: 1) "PP4 and PP5 could not summarize the opinions of participants to the project launching events, because most of participants did not fill in the forms". For the next project events, PP1 will change the form, simplifying it, making it shorter and include only the most important. On the other hand, a self-evaluation form would be more helpful to assess the success of a project event. 2) It would be good if PP1, PP2 and PP3 and also PP4 and PP5 shall cooperate while elaborating one type of material (like press releases, invitation, agenda and presentation templates - these could be shared among mentioned partners in order to reduce the time efforts for approving the materials with JTS office. 3) There is a mistake in the project description, for calendar 300 copies are indicated, however in the partner budget there are 200 copies. Therefore, according to the budget, 200 copies of the calendar were printed</p>						
Communication objectives - what is the progress toward the communication objectives as defined in the application form? The level of achievement should be cumulative; however the explanation should describe achievements in this reporting period						
Project specific objectives		Level of achievement		Explanations		
Please describe progress achieved in this reporting period						
Activity Number	Activity title		Start month	End month	Status	
Activity C.1			09.2018	03.2021	completed	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.1.1	Report of the project launching events	The report will contain agenda, minutes of the meeting, list of participants, evaluation forms of the meeting and relevant photos. The minutes will reflect the following meeting components: 1) Project objectives and how they will be achieved; 2) Guidelines on the progress and financial reports, narrative final reports 3) Communication and dissemination guidelines.	12.2018	The current reports uploaded in the attachments include agenda, list of participants, minutes of the meeting, evaluation forms and also relevant photos. Since the photos were too big, for LP, PP3 and PP4 only links to photos in Facebook are provided. Link to photos of launching event organized by LP in Chisinau: https://www.facebook.com/projectbsb165/photos/pcb.258064581550879/258062474884423/?type=3&theater Link to photos of launching event organized by PP3 in Galati: https://www.facebook.com/photo.php?fbid=568341606950320&set=pcb.568346456949835&type=3&theater Link to photos of launching event organized by PP4 in Odessa: https://www.facebook.com/projectbsb165/videos/303457483598663/	completed	/home/eMS-Home/financeReport Uploads/PR34/DEL27674/null/Launching_Conference_Reports.rar
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.1.2	Press release	The press release will be e-mailed to assignment editors and journalists at newspapers, magazines, radio stations, online media, television stations or television networks in Moldova prior the event inviting them to take part in the event.	12.2018	4 press releases were produced and disseminated, these being targeted at media representatives, interested stakeholders from national authorities, research and education institutions and interest groups, including NGOs The press releases were sent before the event calling participants to come to the launching conference and the press conference place and raised public attention on the project BSB165. The press releases were produced in Romanian (PP2 and PP3) and Ukrainian language (PP4, but also used by PP5).	completed	/home/eMS-Home/financeReport Uploads/PR34/DEL27675/null/Press_releases.rar
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.1.3	Press conference	<p>The press conference will gather media representatives from main national radio stations, online media and television station. Also representatives from NGOs and local authorities from the target project areas will be invited. The purposes of the press conference will be distributing information to the media and answering questions from reporters on the project. The press conferences (12) will organized during the major project events.</p>	03.2021	<p>On November 13, 2018, the Project manager of LP/PP1 and Project Coordinators of PP2, PP3, PP4 and PP5 presented to the journalists at the conference in the hall of Press Agency IPN, Chisinau the main objectives and expected results of the project and answered the questions regarding the potential risks and challenges. The press conference was transmitted live on the website https://www.privesc.eu/arhiva The press conference was organized by PP3-UDJG at Galati in the frame of the launching event on 28 November 2018. The report of the press conference is attached. In connection with the project launching event on December 6, 2018, a press conference held in Odessa, organized by PP4 in cooperation with PP5, in the conference hall of UkrSCES, Frantsuzsky Blvd, 89. The news about the event was reflected on: http://1tv.od.ua/news/28804-1urban 06.12.2018 https://www.youtube.com/watch?v=1iuQtK5USHE - news Channel 7 Radio 102,7 - 1 urban 06.12.2018</p>	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/D EL27676/null/press_conferences.rar
Activity Number	Activity title	Start month	End month	Status		
Activity C.2		11.2018	03.2021	proceeding according to work plan		

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.2.1	Brochure	The content and design of the first brochure will be done by Eco-Tiras during 2018, bilingual English/Russian, A5 format, colour, 200 items. Another brochure will be elaborated during 2019 by IZ, in English/Romanian, A5, colour, 200 items. The pdf of the brochures will be available for download on the project website.	03.2020	The brochure was developed by PP2, with contributions from LP, PP3, PP4 and PP5, being in two languages: in English and Russian. It includes a brief overview of project objectives, main group of activities, a short description of the investigated transboundary rivers Dniester and Prut, the impact from hydropower and climate change on freshwater ecosystems, a description of partner institutions involved. The brochure was published on hard copy and online. The links for downloading are the following: http://eco-tiras.org/docs/brosura_eng+cop.pdf http://eco-tiras.org/docs/brosura_rus+cop.pdf	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/DEL27677/null/Brochure.rar
Activity Number	Activity title		Start month	End month	Status	
Activity C.3			09.2018	03.2021	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.3.1	Banner (10 items)	A banner (5 items) in English will be produced by the Lead partner and distributed to other partners. Eco-Tiras will also produce 4 items of roll-up banners (2 items - for summer school and 2 items for conference). UDJG will also produce one banner.	03.2019	During this project period, LP/PP1 has designed and printed one banner (5 items) on the project. The banner was used at the launching event of LP/PP1, PP4 and PP5 as well as during the 1st Steering Meeting organized by PP2. Supplementary to this, the banner was also used to inform the general public about the project during the Science Day, hold on 10 of November 2018, at the National Museum of History, at which 36 research organizations took part. The banner could be downloaded from the project website, when it will be elaborated.	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/D EL27678/null/AC T_de_PREDARE_P RIMIRE_baner_final_for_reporting.pdf
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.3.2	Calendars (300 copies)	Calendars will be produced by Eco-Tiras during December 2018 and distributed during different events in 2018 and 2019, including the conference and other project related events.	12.2018	The Calendar was developed by PP2, aiming is to inform the general public about the project. From this point of view, along with a statement of the project's objectives, main activities, expected results and a brief description of the partners, it also tries to answer the question: what are the challenges of the problem under study. This is especially important for understanding of the current global discussion on the hydropower development on rivers. The international legally binding agreements dealing with the issue are also covered. The Calendar could be downloaded from Eco-Tiras web-site https://www.eco-tiras.org/books/arconteh_calendar_2019.pdf A total number of 200 copies were published and distributed to different stakeholders, including members of the project partners PP1, PP3, PP4 and PP5.	not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.3.3	Conference bags (100 copies)	The conference bags will be produced by IZASM and distributed during international conference and workshop.	07.2019		not started	

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.3.4	Leaflets	The leaflets will be produced by each partner separately: 3 (IZ, UkrSCES and HMCBAS) during February 2018, 200 items by each partners. The other 2 leaflets will be produced during March 2019, by UDJG (100) and Eco-Tiras (300). The information included will be related to project objectives, results, project area and partners. The pdf of the leaflet will be available for download on the project website.	03.2019		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.3.5	Advertisement insertions in newspapers	The insertions will be placed in newspapers by Eco-Tiras and UDJG for communication about the project (during November 2018 and October, 2019).	10.2019	PP2 published an advertising insertion was published in the newspaper Jurnal de Chisinau on 02 and 09 of November, 2018. The information was also distributed via Facebook https://www.facebook.com/photo.php?fbid=812147382450077&set=a.113391995658956&type=3&theate PP3 published an advertising insertion D.C.3.5 approved by JTS was in on-line newspaper "Monitorul de Galati" on 17 January 2019.	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/DEL27682/null/advertisement_insertions.rar
Activity Number	Activity title	Start month	End month	Status		
Activity C.4		11.2018	03.2021	proceeding according to work plan		

Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.4.1	The elaborated digital platform	The digital platform will provide opportunities to new members to be registered who are concern or share interests on transboundary water management or Dniester/Prut river protection. The digital platform popularity can be assessed according to the number of visitors and registered users.	03.2021	During the first project period, a simplified tender procedure was conducted. The tender invitations were sent to three tenderers, however only one has presented all the necessary documents. The evaluation Committee Meeting took place on 27 of December and the contract was signed on 28 of January. Currently the structure of the website (menu and submenu) are prepared. Also, for easy and timely dissemination, a project website was also created on the Facebook, which updates with news about the project events. The link to the Facebook website can be accessed here: https://www.facebook.com/projectbsb165/?modal=admin_todo_tour	proceeding according to work plan	
Activity Number	Activity title		Start month	End month	Status	
Activity C.5			11.2018	03.2021	proceeding according to work plan	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence

Deliverable C.5.1	Reports on public events where the project was presented	The report will present the name of the public event, the issues addressed and relevant photos from the event. The public events will be highlighted in the progress reports and the final report accordingly.	03.2021	An information about the project was presented at the Science Day on 10 of November, 2018, which took place at the National Museum of History in Chisinau. 36 research institutions and general public was present at the event. We presented a short information, the banner of the project and answered the questions about the project activities. Short information on the project was also presented within the study tour organized within a GEF project "Enabling Transboundary Co-operation and Integrated Water Resources Management in the Dniester River Basin" in Spain and Portugal, 18-24 November 2018, as well as at the Second Steering Meeting, Odessa. 18 December 2018.	proceeding according to work plan	/home/eMS-Home/financeReport Uploads/PR34/DEL27684/null/Science_Day.rar
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.5.2	Links to TV and radio broadcasts	The links will provide the video/audio registration from the broadcasts. The link will be advertised on the project digital platform.	03.2021		not started	
Activity Number	Activity title		Start month	End month	Status	
Activity C.6			11.2018	03.2021	not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence



Deliverable C.6.1	Press conference narrative	The press conference narrative will include the location of the event, the participants and the issues addressed during the press conference.	11.2020		not started	
Deliverable number	Deliverable title	Deliverable description	Planned delivery month	Progress Report Deliverable Description	Status	Deliverable evidence
Deliverable C.6.2	Press release	The press release will be e-mailed to assignment editors and journalists at newspapers, magazines, radio stations, online media, television stations or television networks in Moldova prior the event inviting them to take part in the press conference	03.2021		not started	