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| Document title | Recent and upcoming activities of the RETROUT project |
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This document has been prepared by the HELCOM RETROUT Project manager

Background

Following the agreement by [HOD 49-2015](#) (Outcome para. 4.35), HELCOM is involved as a partner in the RETROUT project (Development, promotion and sustainable management of the Baltic Sea Region as a coastal fishing tourism destination).

RETROUT is a three-year (10/2017–09/2020) Interreg project promoting the Baltic Sea Region as a coastal fishing tourism destination. Recreational fishing in the Baltic Sea, which partly relies on sea trout, has unused potential for sustainable growth. The project aims to develop better opportunities for fishing tourism, advise on relevant policy regulations, and develop management methods for sea trout in the Baltic Sea Region. This will be achieved through cooperation between project partners providing thematic expertise in river restoration, tourism development, fishery and ecosystem service management. As an output of the project, RETROUT will provide guidance in the form of best practice toolboxes for river restoration and fishing tourism. These toolboxes can be used by authorities and stakeholders to help foster sustainable growth within this field through measures for improving stock and river habitat status and through appropriate policy and regulatory adjustments for fishing tourism.

The project comprises 14 partners from the Baltic Sea countries (Sweden, Estonia, Latvia, Lithuania and Poland) including HELCOM as an intergovernmental organization. Stockholm County Administrative Board is the lead partner responsible for the overall project coordination. RETROUT is a flagship project of the EU Strategy for the Baltic Sea Region Policy Area Bioeconomy and it is co-financed by Interreg Baltic Sea Region Programme under the Natural resources priority field.

HELCOM contribution

As a partner in the project, HELCOM is leading Work Package (WP) 4 “Assessment of status and management of seatrout rivers and stocks”. The aim of WP4 is to assess the pressure of recreational fishing on sea trout stocks, to compile information on the status of sea trout rivers and stocks in the Baltic Sea region, to evaluate different river restoration methods and to recommend best practices and management options. The WP 4 working group includes experts in the fields of river restoration, fish biology, cultural history, water resources management and environmental communication. HELCOM is responsible for the strategic planning and coordination of the working group.

The main project results will be published in the HELCOM Baltic Sea Environment Proceedings (BSEP) by the end of the project, after endorsement from the Fish Group. The tasks and deliverables of WP4 are in line with HELCOM 2013 Ministerial Agreements on salmon and sea trout, and the project activities will support implementation of [HELCOM BSAP](#) conservation goals for the Baltic sea trout based on [HELCOM Recommendation 32-33/1](#). The work of RETROUT WP 4 aligns with the scopes of the Group on Ecosystem-based Sustainable Fisheries ([ToR, Work Plan 2018-2019](#)) and Task Force on Migratory Fish Species ([ToR, Work Plan 2017-2018](#)) what regards migratory fish. Further, the [FISH-M 2-2016](#) meeting encouraged Contracting Parties to share information on projects on river habitat restoration or developing best practice

guidance on habitat restoration (Outcome paragraph 4.15), and [FISH-M 3-2016](#) welcomed the aim to ensure close cooperation between RETROUT and FISH-M (Outcome paragraph 4.19) and appreciated the RETROUT project initiative and especially the decision to incorporate river restoration in a dedicated work package led by HELCOM (Outcome paragraph 4.21), while [FISH 7-2017](#) welcomed the possibility to exchange experiences on restoration activities (Outcome paragraph 6.6).

The recent and upcoming activities of RETROUT WP4 are set out in the Annex to this document.

Action requested

The Meeting is invited to take note of the RETROUT activities.

Recent and upcoming activities of the RETROUT project, Work Package 4 (Assessment of status and management of sea trout rivers and stocks)

The overall scope of RETROUT is to develop and promote the Baltic Sea Region as a coastal fishing tourism destination, with focus on sea trout. The project has four Work Packages addressing different aspects of the project scope, including the biological basis for trout fishing through stock and river habitat status assessment and management and river restoration practices, policy reform studies and dialogue, and actual development and promotion of coastal fishing tourism destinations.

The aim of RETROUT Work Package 4 (WP4), led by HELCOM, is to compile information on the status of sea trout rivers and stocks, evaluate different river restoration methods and technological solutions, and to recommend best practices and management options. The assessment of status of sea trout rivers and stocks will support national implementation of HELCOM Recommendation 32-33/1 “Conservation of Baltic salmon and sea trout populations by the restoration of their river habitats and management of river fisheries”.

The project intends to advance implementation of restoration measures (mainly habitat restoration and addressing migration barriers) in selected rivers, partly in accordance with priority rivers identified by HELCOM as having the greatest potential to increase the production of trout and salmon (listed in HELCOM BSEP 126A and Recommendation 32-33/1), with the purpose of demonstrating innovative implementation tools. In this context, stakeholder communication is an important tool in need of innovative approaches. The gained experience will be synthesised in a dedicated Baltic Toolbox with a set of river restoration measures to be published as a HELCOM report with pan-Baltic recommendations, including a section with case studies. The main results will be translated into local languages for national dissemination.

The work of WP 4 is divided in the following 4 Groups of Activities (GoA) that in summary will:

1. *Assessment of sea trout river and stock status, impacts of recreational fishing and management options*, with the aims to
 - develop a common, standardised methodology for assessing sea trout river and stock status
 - assess sea trout river and stock status
 - gather data on recreational fishing and its impacts on sea trout populations
 - evaluate management option scenarios and potential growth of sea trout stocks
2. *Joint evaluation of completed restoration projects*, with the aims to
 - undertake a research study of past river restoration projects to identify differences between successful and failed projects
 - evaluate the ecological effects of habitat restorations and fish ways already installed in the study cases
 - gather data costs, construction time, stakeholder involvement/information and project difficulties
 - produce a consolidated report on river restoration success factors based on the study outcome
3. *Demonstrating efficient river restoration measures*, with the aims to
 - demonstrate efficient river restoration measures and implementation methods as a way to promote identified success factors/best practices and innovative approaches
 - transnational learning-by-doing that will result in increased knowledge of lessons learned of different approaches, management systems and innovative tools (e.g. stakeholder communication, cross-sectorial coordination) valuable for advancing implementation
 - at the pan-Baltic level, provide new knowledge for a concrete input to the Baltic ToolBox for River Restoration and development of recommendations for improving habitat and stocks of migratory fish species

4. *Develop Baltic Toolbox for River Restoration*, with the aims to
- by using inputs from WP 4 activities 4.2 (joint evaluation of completed restoration projects) and 4.3 (demonstrating efficient river restoration measures), jointly develop a Baltic Toolbox for River Restoration to be published as a HELCOM report in the BSEP and used by local, regional, national public authorities.

The following meetings are planned under WP 4:

- Monitoring and assessment method workshop at Klaipeda University in Lithuania (in June 2018) – *DONE*
- Pan-Baltic meeting on river restoration and trout management (in period 6)
- Study visits to demonstration sites in Estonia, Latvia/Lithuania, Sweden and Poland (exact number to be determined; summer 2019/2020)
- Yearly RETROUT partnership meetings (yearly in fall; 1st in Stockholm October 2017, 2nd in Stockholm October 2018)

Summary of the recent activities and progress within WP4

Since the former HELCOM RETROUT Project manager Mika Rahikainen moved to another professional assignment in summer 2018, Henri Jokinen commenced at HELCOM on 6th August 2018 as the new Project manager within the RETROUT project, with the responsibility to lead and coordinate the work of WP4.

Progress summaries for different GoAs in WP 4 are provided below. An overview of all planned WP 4 GoAs and tasks is given in Table 1.

GoA 4.1 Assessment of sea trout river and stock status, impacts of recreational fishing and management options

Lead: HELCOM

Timeframe: Periods 1-4, to be finished by September 2019

Progress summary:

This GoA has made most progress in Work Plan task 4.1.1 “Common methodology on trout river habitat monitoring and electrofishing” and task 4.1.3 “Monitoring and assessment method workshop in Lithuania”, advancing the project goal of an agreed methodology for assessing sea trout river and stock status. The role of HELCOM (PP 13) in task 4.1.1 has been overall coordination and internal communication, and in task 4.1.3 the joint preparation for the workshop with Klaipeda University (Lithuania, PP 9) and moderating and reporting it.

Task 4.1.3 was held in Klaipeda, Lithuania, 26-28 June 2018, excellently hosted by Klaipeda University (PP 9). The workshop was organized jointly with the sixth meeting of ‘HELCOM Task Force on migratory fish species’ ([FISH-M 6-2018](#); document 7-1). The workshop was attended by representatives from Estonia, Latvia, Lithuania, Poland and Sweden as well as invited guests from Natural Resources Institute Finland and Swedish Anglers Association. The aim of the workshop was to understand the sea trout population status and habitat assessment methods (habitat classification, trout habitat score, electrofishing) and harmonizing their use. The workshop *i*) shared information on relevant methods being considered; *ii*) attended an excursion to trout river sites with methodology demonstrations; and *iii*) synthesized the emerging challenges and solutions for the identified shortcomings.

Regarding task 4.1.1, Stockholm County Administrative Board (PP1, Sweden) has let the manual for the [River Habitat Survey](#) to be translated into English, and has distributed it to WP 4 partners, together with digital forms for the River Habitat Survey and the Trout Habitat Score, in accordance to what was agreed at the methods workshop in Klaipeda (document 7-1).

There are still many open questions regarding GoA 4.1. Most of them concern task 4.1.2 'Assessment of sea trout river and stock status...', and have to do with uncertainty of the proper approach for implementing the task due to imprecise original planning. Partly since some of the persons involved in the original planning of the project or in the early start of it have left and been changed to new people, it has turned out to be challenging to follow precisely the original idea. The RETROUT WP 4 working group are considering this and will decide on the specific scope, aims and approach for this GoA and especially task 4.1.2, and prepare and agree on detailed plans to take the work forward, in order to achieve the general goals set for the GoA and the WP4. This work is currently ongoing.

GoA 4.2 Joint evaluation of completed restoration projects

Lead: Campus Roslagen AB (Sweden)

Timeframe: Periods 1-3, to be finished by March 2019

Progress summary:

This GoA has made most progress in Work Plan task 4.2.1 "Case study template and interview guide" and task 4.2.2 "Case study data collection and summary", advancing the goals of this GoA. The role of HELCOM (PP 13) in task 4.2.1 has been to support the GoA Lead Campus Roslagen AB (PP 16, Sweden) and participate in the development of the case study template, and in task 4.2.2 taking care of coordination and communication, especially being responsible for the data request to Baltic Sea counties within the HELCOM framework for increasing the data coverage in GoA 4.2 beyond the project partner countries alone, with the aim to secure Baltic wide generality of the GoA outcome.

In task 4.2.1 Campus Roslagen AB (PP 16, Sweden) developed together with HELCOM a data request template/questionnaire for data submissions on past sea trout stream restoration cases (realized and non-realized) during spring 2018. The question template regarded environmental issues, sea trout production, biodiversity, ecological status, cultural heritage, energy production, recreational value and other stakeholder interests among others. The received information is the basis for the analyses of the past restoration activities for finding out central factors of success and failure in sea trout river restorations. In addition, also an interview guide has been developed by Campus Roslagen AB (PP 16, Sweden) and circulated to relevant project partners for the use at interviews (in local languages) with national stakeholders to enable more in-depth information and stakeholder opinions on the case studies reported under task 4.2.2.

In task 4.2.2 the data request was sent out first to relevant WP 4 project partners (PP 1, PP 5, PP 8, PP 9, PP 17) to be answered by end August 2018 (then extended to end September). The same data request with relevant background information was later also sent to all HELCOM Countries (Fish group and Fish-M contacts) to be answered by 19 October at the latest. By the end of period 2 (end September 2018) only one project partner and one non-partner country had answered the data request. After several extensions of the data request dead line, by the end of 2018, requested data had been received from all project partner countries and additionally three more non-partner countries were working on compiling the requested data. The actions in this task (analyses) and the subsequent tasks in the GoA are being proceeded with and the work is currently ongoing.

GoA 4.3 Demonstrating efficient river restoration measures

Lead: University of Tartu /EMI (PP 5, Estonia)

Timeframe: Periods (2)3-6, to be finished by end of September 2020

Progress summary:

Officially and according the description in the project application, this GoA should start in period 3. However, in some demonstration cases processes have been practical to initiate already earlier.

In most of the cases planning and procurement restoration work is currently going on, while in one site the restoration work was already finished during this summer (Vitsån, Sweden, implemented by external non-project funding).

GoA 4.4 Develop Baltic Toolbox for River Restoration

Lead: HELCOM (PP 13)

Timeframe: Periods 4-6, to be finished by end of September 2020

Progress summary:

This GoA is not yet in an active phase.

Deviation in implementation (WP 4)

GoA 4.1 Assessment of sea trout river and stock status, impacts of recreational fishing and management options

According to the project Work Plan an output of task 4.1.1 was to be finalized by the end of June 2018, but the working group agreed that the RETROUT Coordinator (Stockholm County Administrative Board, PP1, Sweden) will instead provide a summary of the matter by the end of August 2018. However, such report/summary regarding common methodologies had yet not been produced by the end of period 2 (end September 2018). The plans for accomplishing the task output have been specified and clarified by the working group, and accordingly it will be delivered during period 3.

GoA 4.2 Joint evaluation of completed restoration projects

GoA 4.2 has suffered from some delays, namely due to organizational changes in the start of the project (change in lead partner organization for the GoA), and more lately the progress has been delayed and dependent on the data submission from project partners (and HELCOM countries). Receiving of timely contributions of sufficient quality from partners and HELCOM countries to the central data requests has been very challenging, requiring several dead line extensions and the overall prolongation of this work phase. By the end of period 2, only a few data submissions were received, although promises of progress were made by most partners/countries. These delays subsequently shifted the schedule of oncoming tasks of this GoA that depend on the data submission. However, preparations for the data analyses and in-depth interviews have already started. Following the current status, this GoA might be in need of some overall schedule changes, that however, should be minor to their degree.

GoA 4.3 Demonstrating efficient river restoration measures

The Swedish (Bränningeån, Erstaviksbäcken, Moraån, Skeboån and Vitsån), and the Polish (Reda) rivers should also be listed in the work plan as demonstration cases (as own tasks) since they will be considered in the project, regardless that they are (partly) implemented by external non-project funding.

GoA 4.4 Develop Baltic Toolbox for River Restoration

Not relevant

HELCOM's contribution to project communication

During period 2 HELCOM (PP 13) has contributed to the project's internal communication, by sustaining an active contact to RETROUT management team, project partners and collaborators.

The (former) Project manager presented online the RETROUT project and the plans and progress of WP 4 to the HELCOM FISH 8-2018 Meeting on 23-24 May 2018 (<https://portal.helcom.fi/meetings/FISH%208-2018-509/MeetingDocuments/Outcome%20of%20FISH%208-2018.pdf>).

According to the project's visibility rules, HELCOM has a RETROUT project web site at <http://www.helcom.fi/helcom-at-work/projects/retrout/>.

HELCOM also prepared and published a HELCOM Outcome document from the Joint RETROUT-HELCOM workshop on sea trout population status and habitat assessment methods, held in Klaipeda, Lithuania, on 26-28 June 2018 (FISH-M 6-2018 Outcome; document 7-1).

Summary of the upcoming activities within WP4

The next upcoming activities of RETROUT WP 4 include tasks from GoAs 4.1, 4.2 and 4.3. GoA 4.4 will start later in spring 2019. An overview of all planned WP 4 GoAs and tasks is given in Table 1.

GoA 4.1 Assessment of sea trout river and stock status, impacts of recreational fishing and management options

Tasks 4.1.1 *Common methodology on trout river habitat monitoring and electrofishing*, and 4.1.4 *Tests of assessment method [in countries]* have been decided to be combined in one common 'methods' report. The report will provisionally contain a common description for habitat survey methods and river status assessments as well as trout monitoring and electrofishing, and additionally summaries of the experiences of each partner country in testing/applying the sea trout stock and habitat assessments methods considered at the methods workshop (task 4.1.3) in some selected test rivers. Specifically, the report will first present the River Habitat Survey (RHS), the Trout Habitat Score (THS) and the parr density estimation from electrofishing, and then contain a compilation/synthesis of the country wise summaries on available information/experiences of the testing/use of these methods. This work lead by Stockholm County Administrative Board (PP1, Sweden) is to be finished by end of March 2019.

Task 4.1.2 *Assessment of sea trout river and stock status, extent of pressures and management options*, will have a high priority, as this task is lagging in schedule and rapid advancement now needed. A template for river specific THS and parr densities for a data request to be preferably sent to the HELCOM Contracting Countries, is being developed. The proposed template is based on the data template used by ICES WGBAST for the same purpose. A data request is needed in order to receive Baltic wide data to be used in the output of task 4.1.2.

ICES uses THS and parr density estimates from electrofishing to produce status evaluations for different Baltic Sea regions based on the estimated realized parr density in relation to the estimated maximum parr density. HELCOM has a core indicator on the [Abundance of sea trout spawners and parr](#) that to most parts uses the evaluations from ICES. These existing evaluations encompass totally around 300 sea trout rivers, but many rivers with existing THS and parr density data are left outside due to various reasons. The assessment report to be done within RETROUT project could potentially take into account more rivers with existing data, and hence provide a more comprehensive status evaluation with higher single river resolution.

Next steps consist of the finalising of the template and specifying the data request and its rationale as well as planning of the next steps after the data request, with the priority to move the data request forward until the point of sending it out as soon as possible.

GoA 4.2 Joint evaluation of completed restoration projects

Data submissions concerning past river restoration cases (task 4.2.2) have at this point been received by all project countries and additionally from Russia. Submissions are still expected from Germany, Denmark and Finland. Based on agreed selection criteria a sub-set from all received study cases has been chosen. Two projects per countries have been picked out for in-depth studies with interviews (task 4.2.3); one successful and one failure.

Based on the interview guide (task 4.2.1) developed by Campus Roslagen Ab (PP 16, Sweden), concerned project partners shall conduct interviews with at least three stakeholders for each chosen restoration project (implementing authority, a stakeholder in favour of the restoration, and a stakeholder that was opposing it). The interviews need to be finished and English transcripts submitted to Campus Roslagen Ab (PP 16, Sweden) by March 2019.

Finally, based on multivariate analyses of received restoration case data, and analyses and interpretation of the in-depth interviews, a consolidated report (task 4.2.4) on success factors of restoration activities will be produced, feeding into the Baltic Sea Toolbox for river restoration best practices (GoA 4.4).

GoA 4.3 Demonstrating efficient river restoration measures

The work with the river restoration demonstration cases will proceed over different implementation phases depending on the stage of each restoration project. The work with the restoration demonstration cases are being carried out very independently by each responsible project partner. Each restoration demonstration case shall produce a dedicated demonstration project report (a concise report in English writing, full documentation in national language) in form of a process documentation, generally following the applicable parts of the listed sequence of events for the demonstration cases as proposed in the Work plan. The dedicated demonstration case reports will feed into the 'Baltic Sea Toolbox on River Restoration Best Practices' (GoA 4.4) as an own chapter/section, and shall be ready by the end of period 5 regardless of the current stage of the project at that time, in order to be possible to compile and prepare the Baltic Toolbox report in time.

Table 1. Overview of WP 4 GoAs and tasks

| TASK | TITLE | LEAD/RESPONSIBLE | DEADLINE | STATUS |
|--|--|---|-----------------------------|-------------------|
| <i>GoA 4.1 Assessment of sea trout river and stock status, impacts of recreational fishing and management options, Lead: PP 13, HELCOM</i> | | | | |
| Task 4.1.1 | Common methodology on trout river habitat monitoring and electrofishing | PP1 CAB Stockholm (Sweden) | by end of period 3 (ext.) | ongoing |
| Task 4.1.2 | Assessment of sea trout river and stock status, extent of pressures and management options | PP 13 HELCOM | by September 2019 | planning, ongoing |
| sub-task | Gather data on recreational fishing and its impacts on sea trout populations | PP 17 MIG (Poland) | ?? | unknown |
| Task 4.1.3 | Monitoring and assessment method workshop in Lithuania | PP 9 Klaipeda University (Lithuania) | by end of June 2018 | delivered |
| Task 4.1.4 | Tests of assessment method in Lithuania | PP 9 Klaipeda University (Lithuania) | by September 2018 | to be delivered |
| Task 4.1.5 | Tests of assessment method in Latvia (in selected rivers) | PP 8 BIOR (Latvia) | by September 2018 | to be delivered |
| Task 4.1.6 | Tests of assessment method in Estonia (in selected rivers) | PP 5 EMI (Estonia) | by September 2018 (2019?) | to be delivered |
| Task 4.1.7 | Tests of assessment method in Poland (in selected rivers) | PP 17, MIG (Poland) | by September 2018 | to be delivered |
| Task 4.1.8 | Tests of assessment method in Sweden (in selected rivers)?? | PP1 CAB Stockholm (Sweden) | by September 2018 | to be delivered |
| <i>GoA 4.2 Joint evaluation of completed restoration projects, Lead: PP 16, Campus Roslagen AB</i> | | | | |
| Task 4.2.1 | Case study template and interview guide | PP 16 Campus Roslagen AB (Sweden) | by January 2018 | delivered |
| Task 4.2.2 | Case study data collection and summary | all | by 28 September 2018 (ext.) | delivered |
| sub-task | Circulate template to all HELCOM countries | PP 13 HELCOM | by 19 October 2018 | delivered |
| Task 4.2.3 | Interviews with key Stakeholders | all, guidance by PP 16 Campus Roslagen AB | by March 2019 (ext.) | ongoing |
| Task 4.2.4 | A consolidated report on success factors of restoration activities | PP 16 Campus Roslagen AB (Sweden) | by end September 2019 | ongoing |
| <i>GoA 4.3 Demonstration projects, Lead: PP 5, University of Tartu (EMI)</i> | | | | |
| sub-task | production of a habitat assessment and a time series graph of parr densities for river restoration sites and control sites | all Activity 4.3 partners | by end of September 2018 | unreported |
| sub-task | collection of data about the ecological status of the project rivers and providing the information in excel format to the project coordinator (hakan.haggstrom@lansstyrelsen.se) | all Activity 4.3 partners | by end of August 2018 | unreported |
| Task 4.3.1 | Valgejõgi 1 | PP 5 EMI (Estonia) | by end of Period 6 | ongoing |
| Task 4.3.2 | Valgejõgi 2 | PP 5 EMI (Estonia) | by end of Period 6 | ongoing |
| Task 4.3.3 | Jägala jõgi | PP 5 EMI (Estonia) | by end of Period 6 | ongoing |
| Task 4.3.4 | Kunda jõgi | PP 5 EMI (Estonia) | by end of Period 6 | ongoing |

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| Task 4.3.? | Pudisoo (new) | PP 5 EMI (Estonia) | by end of Period 6 | ongoing |
| Task 4.3.5 | Smiltelė | PP 9 Klaipeda University and PP 15 Klaipeda District Municipality (Lithuania) | by end of Period 6 | ongoing |
| Task 4.3.6 | Rīva | PP 7 Kurzeme Planning Region, PP 14 Ventspils Regional Municipality, supported by PP 8, BIOR (Latvia) | by end of Period 6 | ongoing |
| Task 4.3.7 | Reda | PP 17 MIG (Poland) | by end of Period 6 | ongoing |
| Task 4.3.8 | Bränningeån | PP1 CAB Stockholm (Sweden) | by end of Period 6 | ongoing |
| Task 4.3.9 | Erstaviksbäcken | PP1 CAB Stockholm (Sweden) | by end of Period 6 | ongoing |
| Task 4.3.10 | Moraån | PP1 CAB Stockholm (Sweden) | by end of Period 6 | ongoing |
| Task 4.3.11 | Skeboån | PP1 CAB Stockholm (Sweden) | by end of Period 6 | ongoing |
| Task 4.3.12 | Vitsån | PP 3 Haninge municipality (Sweden) | by end of Period 6 | finished, unreported |
| <i>GoA 4.4 River restoration best practices toolbox, Lead: PP 13, HELCOM</i> | | | | |
| Task 4.4.1 | Baltic Sea region best practices manual for river restoration | PP 13 HELCOM | by end of Period 6 | not started |
| Task 4.4.2 | Summary publications in national languages | EMI (Estonian), BIOR (Latvian), Klaipeda University (Lithuanian), MIG (Polish) and Stockholm CAB (Swedish) | by end of Period 6 | not started |
| Task 4.4.3 | Study visits to demonstration sites in Estonia, Latvia/Lithuania, Sweden and Poland | EMI, BIOR, Klaipeda University, MIG and CAB Stockholm | by end of Period 6 | not started |
| Task 4.4.4 | Pan-Baltic meeting on river restoration and trout management | PP 13 HELCOM | by end of Period 6 | not started |