



MARMONI

LIFE09 NAT/LV/000238

After-LIFE Plan

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Introduction

MARMONI is classified as a LIFE NAT project and was applied in 2009, when Biodiversity and Nature projects were not separated, so in principle an “After-LIFE Conservation Plan” would have to be designed here. However, in the application form it has been defined as a “Biodiversity project”, which in consequence calls for an “After-LIFE Communication Plan”. MARMONI was applied under an exemption note of the call 2009 that allowed projects that target at indicator-based and innovative marine biodiversity monitoring systems to disregard the LIFE Nature/Biodiversity requirements for concrete conservation actions. Due to the fact that MARMONI did indeed not have a direct conservation goal linked to concrete conservation measures, the After-LIFE Conservation or Communication Plan cannot exactly follow the examples given on the LIFE homepage from other projects, which dealt with practical species and habitat conservation activities that need to be continued after the project end, nor it is a pure “Communication” issue and therefore we propose to design an “After-LIFE Plan” (ALP) hereto.

MARMONI involved creative thinking and expertise, extensive field work as well as communication with competent authorities and stakeholders for improving monitoring and assessment of the status of marine biodiversity. The results of the project are already now helping implementation of the MSFD as well as the Habitats and Birds Directives in the project target countries and on Regional Seas Convention (RSC) level and thus have high policy relevance. Their uptake by competent authorities of the target countries and RSC institutions is actually the After-LIFE activity and shall be described as one future step in the ALP.

Another issue for the time after MARMONI is the continuation of the scientific and expert work, the follow-up of many open questions and further development of indicators, survey methods and their validation, monitoring concepts and biodiversity assessment tools but also the further use of tested methods and survey techniques – these are tasks of the involved institutes and monitoring institutions and their concrete plans have been collected for the ALP.

The MARMONI work in Sweden has set an excellent example how to use the indicators, tools and information for marine spatial planning, an exercise which is currently implemented in many countries – not only in the Baltic Sea region – also by the countries of the MARMONI partners. It is a direct uptake of the MARMONI work into local and regional planning and we have tried to trace a few projects/actions in which our partners will be involved and highlight them in the ALP.

Since much of this future work cannot be funded by routine state budgets, but requires third party funding, we have also collected information on new projects/funds applied for, in which the MARMONI partners plan to continue the work, go a step further, or multiply the efforts.

The MARMONI results have been disseminated in Europe and world-wide during the lifetime of the project, however already during the reporting phase we understood that the promotion, visibility and utilisation of MARMONI findings by the experts in the form of scientific articles and presentations at conferences will go on for quite some time during the coming years, and we find the communication activities an important part of the ALP.

Consequently, the ALP addresses of the following issues:

- A general vision on marine biodiversity monitoring after MARMONI
- Policy implementation related After-MARMONI communication actions
- Commitments of our scientific institutions to further work on indicators and methods
- Information about techniques and methods elaborated in MARMONI which became a part of the institutes working techniques
- Application of MARMONI information in MSP works at current date and future plans
- New projects applied or granted that use the MARMONI work
- Planned scientific articles and conferences 2015/2016
- Visibility actions and distribution concept of MARMONI publications.

1. General vision on marine biodiversity monitoring after MARMONI

Marine biodiversity monitoring according to the MSFD and BHD combined objectives can only be performed in a sensible way at regional seas' level; solely national monitoring is not showing the ecosystems performance despite the fact that the member states' reporting to the European Commission on the implementation of various Directives is country-based. It is commonly agreed at EC and member states that the regional perspective on the marine ecosystem, its values and pressures to it must be strengthened and cooperation is requested loudly and at any moment. Nevertheless member states perform their own (initial) assessments (e.g. for the MSFD) and perform monitoring at the national scale (e.g. for the BHD). Why? The main reasons appear to be that member states have limited resources for funding their own activities, they act in their traditions of long years performed monitoring, budgets are approved on the national level, institutions operate nationally and trans-national activities are difficult to coordinate. Trans-national cooperation is seen as an "additional" task, as topping up, not as replacement of national activities. However, "additional" resources are not available, neither human nor financial.

MARMONI has been implemented with a strong international consortium, in excellent cooperation and with a substantial budget. The goals and objectives have been achieved by the consortium jointly, they could not have been achieved by a single institution or country expert group; the budget was absorbed fully and was found sufficient for the tasks implemented. When benchmarking with neighbouring initiatives and projects, which were far less equipped with funding and human resources, it became clear that only large financial resources can lead to regional cooperation in marine environmental monitoring and biodiversity assessments – the costs for operation will be high also in the future and member states can afford only the minimum which they are explicitly obliged to. Thus, regional cooperation, which we all agreed as being the key for better monitoring and surveillance of our seas, must be funded substantially externally or it will not succeed. Ad hoc project-based funding for testing new approaches, like MARMONI, are important to find new ways; however, substantial funds for a later implementation of such approaches must be made available outside the member states' scarce regular budgets, e.g. by the European Union, to finance the ambitious goals of the MSFD and in interlink with the BHD, the WFD and other Directives.

2. Policy implementation related After-MARMONI activities

Looking at the indicator and monitoring work of MARMONI in general, the logical step forward is finding ways to continue the indicator development at the Baltic Sea region level by thematic groups such as the HELCOM working groups. This will guarantee the expansion of the MARMONI outcomes to more than the four participating countries; the non-MARMONI countries Lithuania, Germany, Denmark and Poland are aware of the MARMONI indicators and eager to test them for their monitoring programmes – HELCOM is the right meeting point for that. Some steps have already been taken with the indicators' uptake to HELCOM CORESET (some national commitments have been made for HELCOM CORESET work after the end of the CORESET project). Furthermore, the engagement of MARMONI key experts in the further HELCOM work for the upcoming Holistic Assessment 2016 (HOLAS), which shall be based strongly on the MARMONI biodiversity assessment tool, has been agreed. The data collection needs for the indicators must be integrated into national monitoring programmes and the MARMONI indicators should be tested in different areas and then classified according to their applicability – local, sub-regional, and regional. Currently they are pilot tested in some areas and many unanswered question on their applicability still exist. The proposed monitoring methods shall be further evaluated for national application and possibly implemented in monitoring programmes. The MARMONI outcomes shall be used for developing a common, coordinated HELCOM approach to monitoring and assessment of biotopes – this approach should be discussed within the HELCOM STATE group by the HELCOM contracting parties. MARMONI partners from the four countries are part of this group and will promote the MARMONI approach actively.

3. Commitments of MARMONI partners (scientific institutions) to further work on indicators and methods

The work performed within the MARMONI project actions will continue to impact marine biodiversity monitoring and assessment development after the project has ended. In particular, the scientific institutions are committed to operationalizing the indicators and the developed new monitoring methods by continuing the work to uptake as far as possible those indicators and methods not presently included in the national monitoring programmes. The following task list gives an idea about the concrete plans of the partners to continue the work started in MARMONI:

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means	Availability of funding
Commitments of our scientific institutions to further work on e.g. the indicators or methods	Further work on indicators is planned to be a part of regular development activities in the frame of the national marine monitoring programme. Currently the need for such development is stated in the new monitoring programme. Especially work on benthic and pelagic indicators will be conducted during the years 2015-2016	2015/2016	Estonian Marine Institute (AB5 EMI)	The estimated needed funding is 100 000 € for 2 years	Funding not available yet but will be applied through Estonian Environmental Investment Centre
	Swedish expert support to development of HELCOM core indicators	Coordination and financing by AB 10 SwAM. Involves national experts incl. AquaBiota Water research (subcontractor to AB10 SwAM)	Institution's means. For 2015 and development of biodiversity indicators: SEK 600,000 – 700,000.	Yes	2015-12-31
	Swedish contribution to HELCOM intersessional expert network for benthic habitat monitoring	Aquabiota Water Research (Subcontractor to and financed by AB10 SwAM)	Institution's means. For 2015: SEK 50,000	For 2015, yes. For 2016, no (estimated funding needed SEK 100,000).	2016-12-31
	Adapting some of the bird indicators for use in the Swedish reporting for the MSFD within OSPAR and HELCOM	Bird monitoring group in Lund University (sub-contractor to AB10 SwAM)	The monitoring is part of the national monitoring programme; budget for use in indicator	The monitoring programme is in place, indicator development is under discussion with SwAM	

			calculation is discussed with relevant authorities	and SEPA	
	The work concerning the uptake of suitable indicators and methods, and the exploration of potentially suitable indicators and methods, into the Finnish national monitoring programme will be continued.	The work will be ongoing until the finalization of the next monitoring programme, i.e. until July 2020	AB7 SYKE, AB8 LUKE	Included into institutional routine concerning the development of the Finnish national monitoring programme	Yes
	Indicator development work, which in part is based on MARMONI indicator development, will be continued within the DEVOTES project.	DEVOTES WP3, duration 1.11.2012 – 31.3.2016.	AB7 SYKE	Budget of FP7 DEVOTES project. WP3, estimated costs 187 680 € (calculated based on man months allocated to WP3 and mean salary)	Yes. Ongoing project
	Fish, benthos and plankton experts will continue work with the development of indicators within HELCOM.	The indicator development work will be ongoing until the finalization of the next monitoring programme, i.e. until July 2020.	AB7 SYKE, AB8 LUKE	Included into institutional routine concerning the development of the Finnish national monitoring programme. Furthermore, for the continued development of the zooplankton indicators, funding has been applied for the HELCOM ZEN (Zooplankton Expert Network).	Yes
	Citizens' observation work will be further developed within the MERIROSKA and ENVIBASE projects.	MERIROSKA: 1.1.2014 – 31.12.2015; furthermore a continuation will be applied for from 1.1.2016 onwards.	AB7 SYKE	MERIROSKA, 10 000 euros. ENVIBASE, WP T4, with total funding of ca 400 000 euros for general citizens' observations,	MERIROSKA: Yes. ENVIBASE: Citizens' observation technology development and data utilization is

		ENVIBASE WP T4: 1.1.2015 – 31.12.2017.		will also include legacy from MARMONI activities as a part of the overall project	included in SYKE activities: Techniques developed further
	Work concerning the cost-effectiveness of monitoring has been performed in cooperation with experts from the DEVOTES project that is focusing on EU –level approach on evaluation of cost-effectiveness. The work will be continued and expanded within the DEVOTES project.	DEVOTES WP2, duration 1.11.2012 – 31.8.2016.	AB7 SYKE	Budget of FP7 DEVOTES project. WP2, estimated costs 112 608€ (calculated based on man months allocated to WP2 and mean salary)	Yes. Ongoing project
	Re-evaluation of the juvenile flounder indicator with additional data collected in the Inspire - project (a Bonus - project). The development and testing of the pikeperch maturation indicator in MARMONI was based on data collected from fyke-net catch or by trawl surveys. There is also a lot of data collected by gill-nets and the suitability of this data for the pikeperch indicator will be evaluated.	2016-2017	AB8 LUKE	Work will be included into institutional routine	Yes. Ongoing projects
	New data collection for the next release of the indicators “Abundance index of wintering waterbird species”, “Wintering waterbird index”, “Wintering indices for waterbirds of different feeding guilds (WWBIFG)”, “Distribution of wintering waterbird species”, “Distribution of wintering waterbirds (multi-species)” and “Distribution of wintering waterbirds of different feeding guilds (multi-species)”	Winter 2015/2016	Latvian Nature Conservation agency by contracting Latvian Ornithological Society (sub-contractor in MARMONI to AB3)	Roughly estimated ca €80000.	Verbal commitment from LNCA authorities; National monitoring programme requires the data collection to be carried out 3 times per every 6 year period, however, the funding is not granted yet

	covering the whole Latvian EEZ waters are planned for the winter 2015/2016.				
	<p>Preparations for starting routine data collection on the abundance and distribution of wintering waterbirds in the Latvian EEZ waters. The work includes:</p> <ol style="list-style-type: none"> 1. Theoretical training course for potential fieldworkers and training of counts on special simulator software. 2. Preparation of a special field guide on marine birds for aerial observers 3. Published detailed methods of bird counting from plane in the national language 4. Practical field training of potential fieldworkers with at least 10 hours of flight experience for each observer. 	By end 2015	Latvian Nature Conservation agency by contracting Latvian Ornithological Society (sub-contractor in MARMONI to AB3)	€40 000	Contracted
	<p>Two methods should be tested in Latvian waters. One is straight forward and is dependent primarily on availability of funding to acquire hardware and software:</p> <p><i>Aquatic Crustacean Scan (ACSA) image recognition software for monitoring zoobenthos community composition.</i></p> <p>The second is more complex and separate survey must be organized:</p> <p><i>Using sediment cores to measure the apparent redox potential discontinuity (aRDP) depth.</i></p> <p>The capacity (personal and technical means) for third method must</p>	2016	AB1 LHEI	The actual costs are not calculated yet. Tentative estimation for ACSA is 25 000 – 30 000€ and ca. 100 000 € for a RDP as single investments. It should be external funding. For Satellite observations additional funding ca. 16 000 € per year will be needed.	Not yet

	be raised: <i>Satellite observations in phytoplankton bloom indicators.</i>				
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4. Information about techniques and methods elaborated in MARMONI which became a part of the institutes working techniques

Similarly to the indicator work, also the techniques and methods elaborated within MARMONI will be used by the partners, for example:

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means?	Availability of funding
Information about techniques and methods elaborated in MARMONI which became a part of the institutes working techniques	Analysis of implementing additional MARMONI indicators in national Swedish indicator system. The analysis aim to identify opportunities for improved cost efficiency and coverage within MSFD D1 and D6.	AB10 SwAM, and sub-contractor AquaBiota	Institution's means. SEK 35,000	Yes	2015-12-31
	The methods developed for the different indicators based on bird abundance (wintering and breeding) will be used in the national program and reporting for MSFD.	2016+	Bird monitoring group in Lund University (sub-contractor to AB10 SwAM)	Budget negotiations ongoing	Negotiations between SwAM and SEPA ongoing which CA is in charge – no decision yet
	Indicators such as 2.4, 2.5, 2.6, 2.7, 2.11, 2.12, 2.13, 2.14 will be further tested and used in routine assessment procedures for national monitoring purposes as well as EIA projects. The beachwrack indicator and methodology will be further tested in the Gulf of Finland in selected sites for possible application in routine monitoring.	2016/17	AB5 EMI	Ca. 50 000€ for 2 years	Not available yet but application to EEIC will be made in end 2015
	Published detailed methods of bird counting from plane in national language "Preparations for starting routine data collection on abundance and distribution of wintering waterbirds in	By end 2015	NCA by contracting Latvian Ornithological Society (sub-contractor in MARMONI to AB3)	No concrete sum for the single activity, part the 40 000€ contract referred to in section 3	contracted

	the Latvian EEZ”				
	The Drop video method will be used both in monitoring and research.	continuous	AB1 LHEI	Included into institutes routine	Yes
	Monitoring survey methods are adopted as good practice enforced in future projects.		Sub-contractor AquaBiota	Depending on future projects	Not yet available
	The information gained on the Zoolmage method will be used for further development of the national zooplankton monitoring.	Until the finalization of the next monitoring programme, i.e. until July 2020.	AB7 SYKE	Included into institutional routine. External funding will also be sought (costs not yet estimated; dependent on e.g. time line of work, which is yet to be determined, see column “Available and committed?”)	Not yet. Due to the maternity leave of the zooplankton taxonomic expert, the schedule of the work is yet to be determined.
	The MARMONI Marine Biodiversity Assessment Tool will be taken up as a possible assessment tool which will be further considered in SYKE and SYKE will examine its possibilities to support the HELCOM biodiversity assessment for the holistic assessment of the Baltic Sea.	The tool evaluation for the use in HELCOM is being done until the end of 2015, when testing of the HELCOM tool has been scheduled to start.	AB7 SYKE	Included into institutional routine	Yes

5. Application of MARMONI information in MSP works at current date and future plans

The demonstration on **marine spatial management** (A4.2) provided several examples on best practices. The mapping of conservation values is well founded and became a method useful in all parts of the Baltic Sea and beyond. It is currently already applied in the following MSP projects in which some of MARMONI partners are part:

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means?	Availability of funding
Application in MSP works at current date	Pärnu County MSP, under preparation (http://www.parnumeri.hendrikson.ee/lisainfo.html)	Autumn 2015	Pärnu County Government & consultant; with AB5 EMI	518 072.29 EUR	Yes. (Estonia-Latvia Programme project)
	Hiiu County MSP (http://hiiumeri.artes.ee/)	Autumn 2015	Hiiu County Government & consultants with AB5 EMI	204 010 €	Yes Environmental Investment Centre project
	Integrated Maritime Plan of the full waters of Latvia	2015 - 2016	CB BEF LV with AB1 LHEI and others	200 000€	Contracted by Latvian MoE
	Identification and evaluation of MSP tools	2015	AB10 SwAM, unit for ocean planning	Internal budget, yearly	yes
	Blekinge county (SE) MPA designation based on MARMONI maps	By end 2015	Blekinge County administrative board (sub-contractor to AB10 SwAM)	Included into institutional routine	Committed into ongoing work
	Kristianstad municipality MSP	By end 2015	Kristianstad municipality & AquaBiota (sub-contractor to AB10 SwAM)	Included into institutional routine + budget of 45 000 €.	Committed into ongoing work as well as committed funds.

6. New projects applied or granted that use the MARMONI work

MARMONI has opened many doors for further action. The consortium has developed jointly and in different partnerships a series of new projects, partly already approved, partly pending or planned to continue the fruitful cooperation and get more mosaic stones inserted into the picture of marine biodiversity monitoring and assessment of the Baltic Sea and the implementation the BHD and MSFD accordingly. The given list of projects is a small selection only and undergoing constant changes.

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means?	Availability of funding
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<p>New projects applied or granted that use the MARMONI work</p>	<p>“Inventory and development of monitoring programme for nature values in Estonian marine areas (NEMA)” 2014-2016. The general aim of the project is to contribute to the achievement of favourable conservation status of marine nature values in Estonian territorial waters and EEZ.</p>	<p>By end 2016</p>	<p>AB5 EMI together with partners (i.e.AB6 BEF EE).</p>	<p>Total budget 521 700 €</p>	<p>Yes. EEA Financial Mechanism project</p>
	<p>HELCOM project BalticBOOST application that was submitted 17 November 2014 in response to the EU Call: "Best practices for action plans to develop integrated, regional monitoring programmes, coordinated programmes of measures and addressing data and knowledge gaps in coastal and marine waters" (DG ENV/MSFD Action Plans /2014). Will use the MARMONI Marine Biodiversity Assessment Tool for the basis of development of new version of HELCOM biodiversity assessment tool.</p>	<p>2015; new attempt not known yet</p>	<p>SYKE, NIVA - Denmark and EMI</p>	<p>Currently applied 50 000 euros for Tool development part of the project</p>	<p>BalticBOOST did not get funded and new funding opportunities must be identified</p>
	<p>AquaBiota’s participation in further HELCOM CORESET work during 2015.</p>	<p>2015 all year</p>	<p>AquaBiota</p>	<p>13200€ from AB10 SwAM</p>	<p>Yes</p>
	<p>Project to develop the Marine Spatial Plan of the Latvian territorial waters including transboundary cooperation.</p>	<p>2015 - 2016</p>	<p>BEF LV, LHEI, NCA</p>	<p>200 000€</p>	<p>Approved (national funding)</p>
	<p>ResponSEable: improving ocean literacy and supporting implementation of MSFD, MSP and EU Integrated Maritime Policy; science-policy cooperation; MARMONI outcomes will be distributed to wide range of scientific institutions also UN and</p>	<p>2015 - 2018</p>	<p>BEF Group</p>	<p>3.5M€</p>	<p>Approved (Horizon2020)</p>

	TransAtlantic cooperation; MARMONI approach to stakeholder information integrated into project ToR; BEF in charge of Baltic Sea Region input to the project.				
	MareCap –Marine Nature Capital: Marine Protected Areas as basis for sustainable development of the Baltic Sea region; a project continuing MARMONI work in terms of linking MSFD and BHD, marine MPA network and the Baltic Sea regional approach, monitoring and surveillance as well as tool-based assessment; issues to be considered which were not the focus of MARMONI: pressures and cumulative aspects as well as the quality and coherence of sites.	Under development 2015, if approved 2016 - 2022	BEF and most of MARMONI partners	65 000€ SEED; Full proposal not yet calculated, approx. 10M€	SEED money granted

7. Planned scientific articles and conferences 2015/2016

The work performed within the MARMONI project actions will **continue to impact the scientific communities** through planned scientific articles and conferences. The following scientific articles are in preparation or planned in the near future and outside of the MARMONI lifetime:

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means?	Availability of funding
Planned scientific articles and conferences 2015/2016	Paper with the working title "Tool for assessment of marine biodiversity – case study from the northern Baltic Sea" is being prepared for submission.	No date yet	EMI, AquaBiota, SYKE, IAE	Included into institutional routine	Committed into ongoing work
	A manuscript by Saku Anttila, Vivi Fleming-Lehtinen, Jenni Attila, Sofia Junttila and Heidi Hällfors concerning the indicator Cyanobacterial surface accumulations – the CSA-index is in preparation.	Until finished, estimated to be by 31.12.2016.	The authors (SYKE); see column "Concrete activity".	Included into institutional routine	Committed into ongoing work
	A manuscript by Elena Gorokhova, Maiju Lehtiniemi, Callis Amid, Jurate Lesutiene, Solvita Strake, Laura Uusitalo and	Until finished, estimated to be by	The authors (SYKE, LIAE and collaborators); see column	Included into institutional routine	Committed into ongoing work

	Natalja Demereckiene with the working title "Assessing the indicator properties of Baltic zooplankton assemblages for classification of environmental status within Marine Strategy Framework Directive (MSFD)" is in preparation.	31.12.2016.	"Concrete activity".		
	A manuscript by Antti Lappalainen, Lauri Saks, Mira Anttila, Kristiina Jürgens, Eevi Kokkonen, Mika Kurkilahti, Outi Heikinheimo, Aare Verliin and Markus Vetemaa titled "Length at sexual maturation of female pikeperch (Sander lucioperca)" has been submitted for publication.	Until finished, estimated to be by 31.12.2016.	The authors (LUKE, EMI; see column "Concrete activity".	Included into institutional routine	Committed into ongoing work
	A manuscript by Antti Lappalainen and Mika Kurkilahti concerning results of the power analysis of data on the indicator Abundance of Cyprinids is in preparation.	Until finished, estimated to be by 31.12.2016.	The authors (LUKE); see column "Concrete activity".	Included into institutional routine	Committed into ongoing work
	A manuscript by Ari Ruuskanen concerning the indicator Cladophora glomerata growth rate is in preparation.	See column "External budget (€) or institution's means?"	The author; see column "Concrete activity".	Work done in own time (currently no longer working at SYKE, is private entrepreneur)	See column "External budget (€) or institution's means?"
	A manuscript by Ari Ruuskanen concerning the indicator Depth distribution of selected perennial macroalga is in preparation.	See column "External budget (€) or institution's means?"	The author; see column "Concrete activity".	Work done in own time (currently no longer working at SYKE, is private entrepreneur)	See column "External budget (€) or institution's means?"
	A manuscript by Laura Uusitalo, Jose A. Fernandes, Eneko Bachiller, Siru Tasala and Maiju Lehtiniemi with the working title "Semi-automated zooplankton classification provides useful data for MSFD indicators" is in	Until finished, estimated to be by 31.12.2016.	The authors (SYKE and collaborators); see column "Concrete activity".	Included into institutional routine	Committed into ongoing work

	preparation.				
	Scientific paper: "Mapping of the marine environment and its conservation values as a basis for management decisions – from concept to practical use".	2015	AquaBiota	9000€	yes
	Scientific paper exploring the relationship between bird density of long-tailed ducks bottom topography (expressed as blue mussel density/patchiness).	2015	AquaBiota, Lund University	Included into institutional routine	yes
	WATERS conference May 6-7 2015, Malmö: Martin Isaeus is a key-note speaker on MARMONI results.	2015	AquaBiota	1408€, institute's budget	yes
	Analysis and publication of long-term (1966 – 2015) national bird monitoring data for wintering waterbirds including calculation and analysis of national indicators.	2016/2016	Leif Nilsson, Lund University	Included into institutional routine	yes
	Scientific article "Development of Wintering Waterbird Indicators for the Baltic Sea"	2015	Ainars Aunins and 14 co-authors (MARMONI and HELCOM)	Included into institutional routine	yes

8. Visibility actions and distribution concept of MARMONI publications

MARMONI has been very visible mostly to the policy makers, monitoring institutions and scientific communities – and it will continue to be visible and noticed by distribution of the MARMONI publications to national and international audiences.

MARMONI has not much been visible for the general public due to the complicated thematic focus of the project and orientation towards competent authorities and experts. However, the TALLINK approach of using the ferries as best location to tell to people about the sea has been a great idea and shall be continued and intensified.

A few specific actions have been scheduled for 2015 by the MARMONI partners that shall be listed here.

Task	Concrete activity	Time period for activity	By whom this will be done	External budget (€) or institution's means?	Availability of funding
General MARMONI visibility	Continued distribution of MARMONI printed materials (e.g. the brochure "The Diversity of Life in the Baltic Sea" and the reports "MARMONI activities and results in brief" and "The MARMONI approach to marine biodiversity indicators, Volume I: Development of indicators for assessing the state of marine biodiversity in the Baltic Sea within the LIFE MARMONI project", among others).	continuous	All MARMONI partners	No costs	Yes
	The MARMONI poster series will be on board of the Tallink ferries for the whole season 2015/2016; further cooperation with the ferry line on marine biodiversity and public information is planned.	Current till spring 2016	AB6 BEF EE	No costs	Yes
	The MARMONI web site is available at www.balticseaportal.net and will be maintained by BEF Latvia also in future as part of the BEF's marine portal.	Not terminated	CB BEF LV	Included into institutional routine	Yes
	An article by Eija Rantajärvi, Antti Lappalainen and Heidi Hällfors describing the MARMONI project and its results was submitted to the YMPÄRISTÖ magazine (in the Finnish language) 12.6.2015.	Estimated time of publication October 2015.	The authors (SYKE and LUKE); see column "Concrete activity".	Included into institutional routine	Committed into ongoing work
	Educational lessons using MARMONI informative outcomes e.g. "Identification key of washed ashore marine organisms", "Invasive animal species in the Baltic Sea" or "Seals in Baltic Sea" in NCA Nature Education centres "Ziemeļvidzeme" in Salacgrīva and "Meža māja" at Ķemeri. Regularity: on demand all through the year (not planned activity).	2015 onwards	Local specialists in Nature Education Centres	Included into institutional routine	Yes
	Collection of beach wrack data by schools according to the simplified methodology developed by the EMI. In the	2015 onwards	AB5 EMI	Included into institutional routine	Yes

	<p>MARMONI project, the teachers of schools participating in the Baltic Sea Project have been trained on benthic species, collection of data and calculating the beach wrack indicator and it has been applied in some schools. The co-operation between scientists of EMI and schools participating in the Baltic Sea Project will continue also in future.</p>				
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