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# COMPLETE

## Completing management options in the Baltic Sea Region to reduce risk of invasive species introduction by shipping

Katja Broeg @TG Ballast 2017

# Preventing invasive species introduction and spread by shipping

Developing **consistent and adaptive** management tools and recommendations for the Baltic Sea region

BY

Addressing **both** major vectors of harmful aquatic organisms and pathogens: ballast water and biofouling

implementation

surveillance

monitoring

decision support

dialogue

risk assessment

harmonization

management systems



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## COMPLETE addresses:

- **Challenges** concerning the implementation of the Ballast Water Management Convention (BWMC), Marine Strategy Framework Directive (MSFD), and EU-IAS regulation

- non-indigenous species monitoring and surveillance for MSFD, IAS, and BWMC
- database and information exchange / synergies
- risk assessment (HELCOM/OSPAR Joint Harmonized Procedure, JHP)
- early warning
- decision support and enforcement (BWMC)

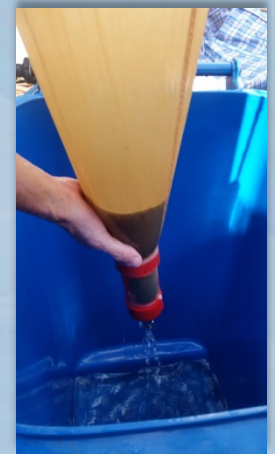
- **Gaps** concerning biofouling

- legal aspects
- limited knowledge on antifouling practices and procedures
- lack of information on cleaning procedures and facilities
- lack of cost-efficiency analysis
- quantities of biofouling waste and its handling procedures
- the role of leisure boats and their trailers in introduction and spread



# COMPLETE in a nutshell

1. Regionally harmonized implementation and enforcement of the Ballast Water Management Convention
2. Elaboration of a proposal for a BSR biofouling management strategy
3. Harmonization of monitoring for NIS/IAS/HAOPs/ (MSFD/IAS/BWMC synergies)
4. Stakeholder involvement

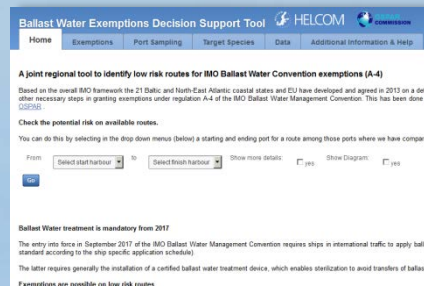
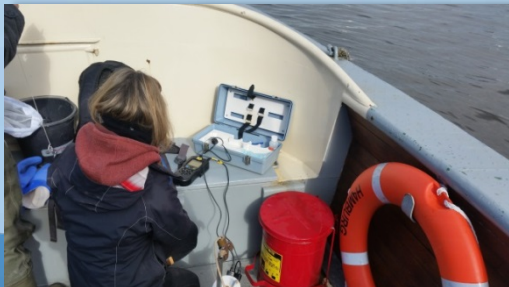


## WP2 Guidelines for surveillance and monitoring program of non-indigenous species

- **Selecting innovative tools for detection of target harmful aquatic organisms and pathogens**
- Biofouling assessment protocol for leisure boats
- Assessment of overall biofouling potential and areas of risk
- **Integrated monitoring of non-indigenous species introductions by shipping and other vectors**

## WP3 Ballast water risk assessment and management systems

- **Target species selection criteria and risk assessments**
- **Advanced risk assessment tool under the HELCOM-OSPAR Joint Harmonised Procedure**
- **Delivering the regionally harmonized early warning system for invasive species**
- Decision support system for ballast water management in the Baltic Sea
- Training local authorities for the Ballast Water Management Convention



# Activity 3.1

The existing **TS list selection criteria** and **risk assessment** under the HELCOM-OSPAR Joint Harmonized Procedure for BWMC A-4 exemptions will be reviewed and recommendation for improvement provided for the work of the HELCOM/OSPAR TG Ballast and HELCOM expert group.

Based on recent scientific knowledge and international expertise, transparent, robust, in-line with BWMC G7

Taking-up needs and suggestions from the TG Ballast process

## Methods and outcomes:

## Period

- |    |                                      |                                     |            |
|----|--------------------------------------|-------------------------------------|------------|
| 1. | <b>Tender for external expert</b>    | <b>BSH</b>                          | <b>1</b>   |
| 2. | <b>Meeting with project partners</b> | <b>External expert and partners</b> | <b>1</b>   |
| 3. | <b>Review of RA and criteria</b>     | <b>External expert</b>              | <b>1-2</b> |
| 4. | <b>Discussion and final review</b>   | <b>External expert and partners</b> | <b>2-3</b> |



## WP4 Evidence-based options for biofouling management in the Baltic Sea Region

- National biofouling regulations, cleaning procedures and facilities
- Catalogue of best practices for biofouling management from within and outside the Baltic Sea Region
- Guidance on antifouling systems, cost-efficiency evaluation
- Benefits of biofouling management on ship speed, fuel consumption and emissions

## WP5 Databases and user-friendly information support

- **Information system on non-indigenous species and harmful aquatic organisms and pathogens**
- Decision support tool for selection of optimal antifouling system and cleaning options
- Interactive user-friendly map on hull cleaning services

## WP6 Stakeholder involvement and strategy development processes

- **Establishing network of main stakeholders**
- **Engaging stakeholders into development and use of project products**
- Roadmap proposal for harmonized biofouling management strategy in the Baltic Sea Region





### Associated organizations:

Polish Ministry of Maritime Economy and Inland Navigation  
 Ministry of the Environment of Estonia,  
 Ministry of the Environment of Finland  
 Ministry of Agriculture and Forestry of Finland,  
 Ministry of Environment and Food of Denmark  
 German Federal Environment Agency  
 Swedish Transport Agency  
 Finnish Transport Safety Agency,  
 Lithuanian Maritime Safety Administration,  
 AS Tallink Grupp  
 Finnlines PLC  
 Navidom Oy  
 Viking Line Abp  
 Polish Register of Shipping S.A.  
 Baltic Ports Organization  
 Port of Gdynia Authority S.A.  
 SE Klaipėda State Seaport Authority  
 Port of Hamburg Marketing  
 International Council for the Exploration of the Sea  
 Finnish Safety and Chemical Agency  
 Finnish Energy  
 Makarov Training Centre of Admiral Makarov State  
 University of Maritime and Inland Shipping  
 Finnish Sailing and Boating Federation



# Take Home Messages:



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