



Document title	Initial ideas for the structure and contents of the PLC-6 report
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Consideration and inputs to preliminary outline of the PLC6 assessment – for HELCOM PLC6 8-2015 meeting 20-21 May 2015 in Uppsala, Sweden

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Setting the frame

HELCOM PRESSURE supported the strategic approach to PLC work as presented in doc. 3-2 to PRESSURE 2-2015 meeting. This includes four major flagships:

1. Annual basic reports on actual air- and waterborne inputs
2. Progress toward fulfilment of MAI = Core Pressure Indicator on nutrient inputs
3. Progress toward fulfilment of CART = CART assessment system
4. Periodic PLC assessments

PRESSURE 2-2015 agreed that the content of the PLC6 assessment should mostly focus on source apportionment and assessing effectiveness of measures to be complementary to other three flagship PLC products. Further the meeting supported that a new user friendly format e.g. as an e-book for the report should be explored. It is the understanding that the e-book format is on a trial basis.

HELCOM GEAR has requested that main results of the PLC6 assessment of air- and waterborne should be ready by the end of 2016 in time for the use in the Contracting Parties for MFSD process and in time for the use of HOLAS2.

HELCOM PLC6 7-2014 meeting considered the users and requirements to the PLC6 report (doc. 5.2 and 5.3).

There is a need to be clarified if an Executive Summary should be developed together with the main PLC6 assessment.

General questions to discuss and assumption to agree upon

- We want to avoid too much repetition from other PLC products, but if we want a comprehensive PLC6 report some repetition might be necessary – alternative a lot of links and references needed – will it make the PLC6 report readable and relevant

- What are the target group(s) – the e-book may facilitate several target groups – e.g. the overall/main/summarizing pages focused on managers/decision makers, while the more detail layers in the e-book would be directed to technical/scientific community, NGO's, consultants, and more interested managers and public
- Should we focus on inputs to Baltic Sea sub-catchments and assigning inputs to the countries with the outlet – or should we focus on net inputs per country (source) – at least net inputs are important when evaluation sources and effect of measures taken, and will force us to provide data on transboundary inputs and retention
- We should agree that for some part of the assessment we will not have complete coverage of the Baltic Sea catchment/not have information from all CP's, but will be based on good examples from few countries – this will also be the case for e.g. for HM's if CP's are not providing data
- We could choose to use the "big seven" as examples where want to use for the more detailed analyses/assessment (or if CP's had good examples for other rivers that is fine too)
- Developing the report should be a teamwork where all PLC-6 project members will get some responsibilities, e.g. as collecting information on measures taken in their country to reduced N and P inputs to the Baltic Sea, new measures decided or planned to implement and the expected effect of this measures, and also to help collecting some of the necessary background information
- Background information, supporting information/data and information on measures and their effects must be collected and provided by spring 2016, otherwise it is not included in the assessment (1. April 2016)s
- The assessment will include air- and waterborne inputs of flow, N, P and selected HM's

Proposal for overall structure

In the table below the left row is the title of the chapter. Second row from the left are the sub-chapter which in an e-book can be made short (few pages pr. chapter), with the main message and figures, written in a language directed to e.g. managers. The third row from the left indicated then deeper layers in the e-book made during the PLC 6 assessment or to link to other places (reports, indicators, environmental fact sheets, YouTube etc.).

By making the division in short over all sub-chapters and more detailed deeper layer we can focus on finalizing the sub-chapters in 2016, but only some of the deeper layer/pages, and then the rest in 2017.

Chapter name	Sub-chapter	Deeper layers/pages or links	Comments
0. Main message	Key results	Link conclusion to the different part of the assessment	Short text 1-2 concluding graphs and tables
1. Conclusion	Main finding, how can it be evaluated, our advice/way forward	Link conclusion to the different part of the assessment	Short text
2. Inputs to BAS and trends	N: timeserie Trend – changes Status 2014 P: timeserie Trend – changes	Detailed graph/tables Losses pr. ha Fractions of N Methods Data (Excel, Website) As for N	Most important graphs from Core Pressure indicator/CART follow-up assessment The big 7 rivers Regarding methods as

	Status 2014 HM: timeserie Trend – changes Status 2014	Detailed graph/tables Methods Data	far as possible refer to PLC guidelines
3. Catchment characteristics	Key information on: Areas Landuse Soiltype % lakes/km stream Climate Agricultural data Wastewater removal	More detailed information on/link to the mentioned issues Making some relation between inputs to the sea	Good examples e.g. from the “big 7” and other selected rivers
4. Inputs sources	N: Status 2014 Waterborne, direct, air Source receptor matrix (blame matrix air) Source apportionment Comparing with 2006 Relating source apportionment to catchment data P: Status 2014 Waterborne, direct, air Source apportionment Comparing with 2006 Relating source apportionment to catchment data HM: Main pathways of HMs	Detailed graph/tables Source apportionment at least background, diffuse, point, transboundary Methods Data Detailed graph/tables Source apportionment at least background, diffuse, point, transboundary Methods Data Methods Data	This includes source apportionment On the sub-chapter level we might show the result per sub-basin, while in the deeper layer pr. country and even country-basin, big 7 and possibly also making some simple statistics based on al catchment pr. country
5. Effect of measures	Overview of applied measures Overview of expected effects of applied measures Summary on how we evaluate effects and effectiveness of measures <i>Summary and obtained effect and the effectiveness of (selected) measures taken by CP</i> Results from selected catchments	Information on applied measures pr. CP Information on expected effects of applied measures pr. CP More detailed information on how the evaluation is done More detailed results of the evaluation per country More detailed results of the evaluation e.g. for selected catchments	We could focus on some CP's plus good examples as for (some of) the big 7 We have to discuss how to group different measures as we have no possibility to evaluate effects and effectiveness of measures (we can not make economic analysis need to use known information) Questionable if we can provide further data/information beside what will be presented
6. Potential	Summary on potential due to	How do we make the	Can we make some

reduction due to additional measures	improved wastewater treatment/connectivity Summary on potential due to selected measures directed to agriculture, transport sector etc. (both air and water) e.g. further on Gothenburg protocol, NECII etc. Can we advise on some measures in different parts of the Baltic Sea catchment area	evaluation? More detailed results if any How do we make the evaluation? More detailed results if any	relevant estimates an assessment – we could ask for example –again from the big 7 an other selected catchments
7. How dataset were established and summary on methodology	Summary on establishing data Overview applied methodology	Summary on monitored and unmonitored areas Data gap filling Normalization (air, water) Trend analysis Methods on source receptor matrix air, source apportionment (water) Evaluation of effects and effectiveness of measures	Chapter both explaining how a complete dataset was established, normalization, statistical analysis and other analysis. Include description of country specific methods where relevant. CP's to provide short describe using a template agreed in the PLC6 project
8. References			
9. Abbreviation			
10. Data	Where can data be find	Excel spreadsheet Web-interface new PLC-DB	Discuss how much should be available

Supporting data background information:

- Climate – precipitation (or net precipitation) and temperature: annual time-series (map or stations) – and examples on monthly variation (select some stations in each CP)
- Agricultural related data: livestock (how), application of fertilizer and manure (how)
- Land-use (maps and/or tables pr. country) incl. lake areas/wetland – can we get this pr catchment
- Km stream pr catchment
- Soil types (map)
- Point sources: removal % for different size categories
- % connected to treatment plants