



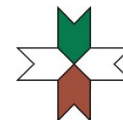
All rivers comes to the Baltic – Baltic starts here!

introduction to a discussion

***14.07.2018, Janów Podlaski, Poland
Green University - Rivers***



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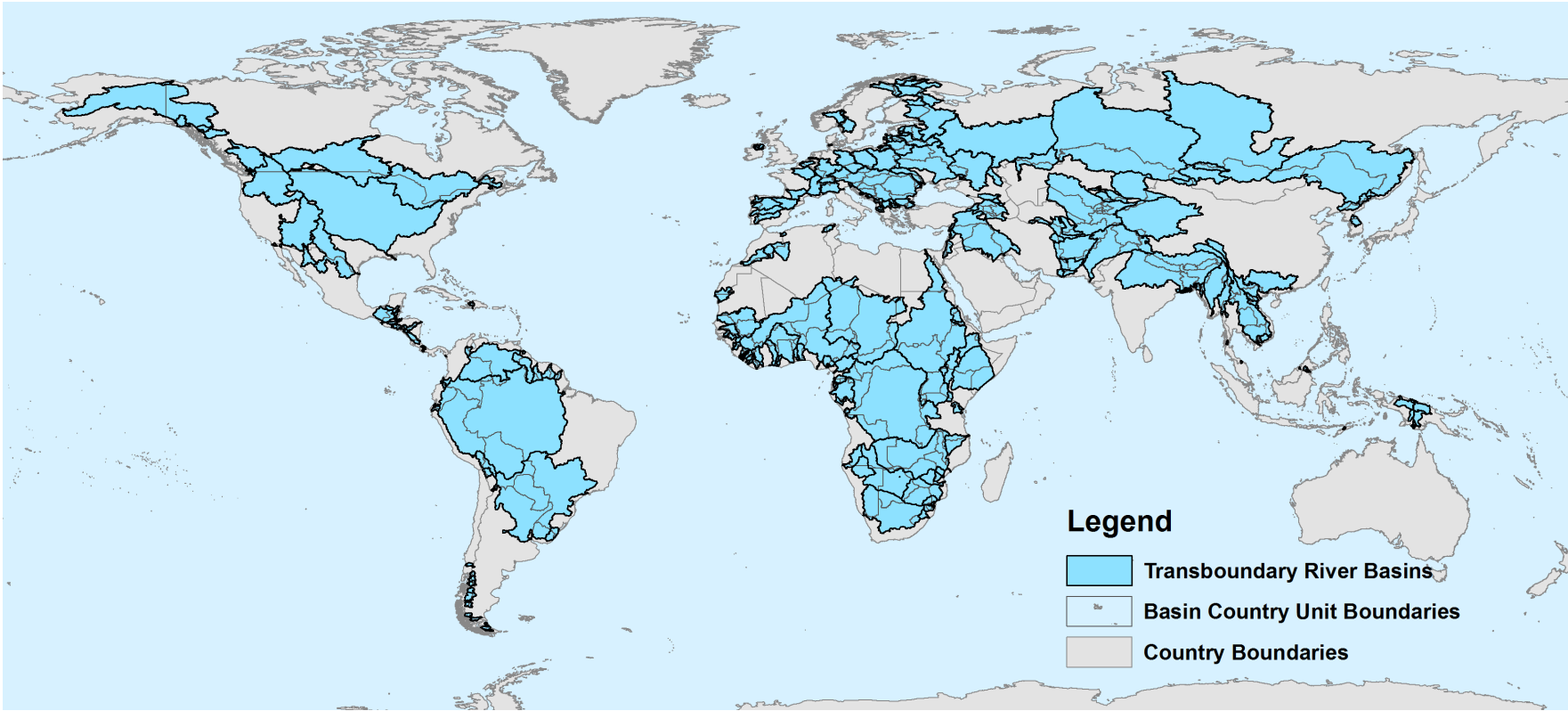
WE ARE THE BALTIC

22 NGOs / 11 nations / " 1 Mio prs.



SWEDISH ENVIRONMENTAL PROTECTION AGENCY

Global perspective



<http://twap-rivers.org/#global-basins>



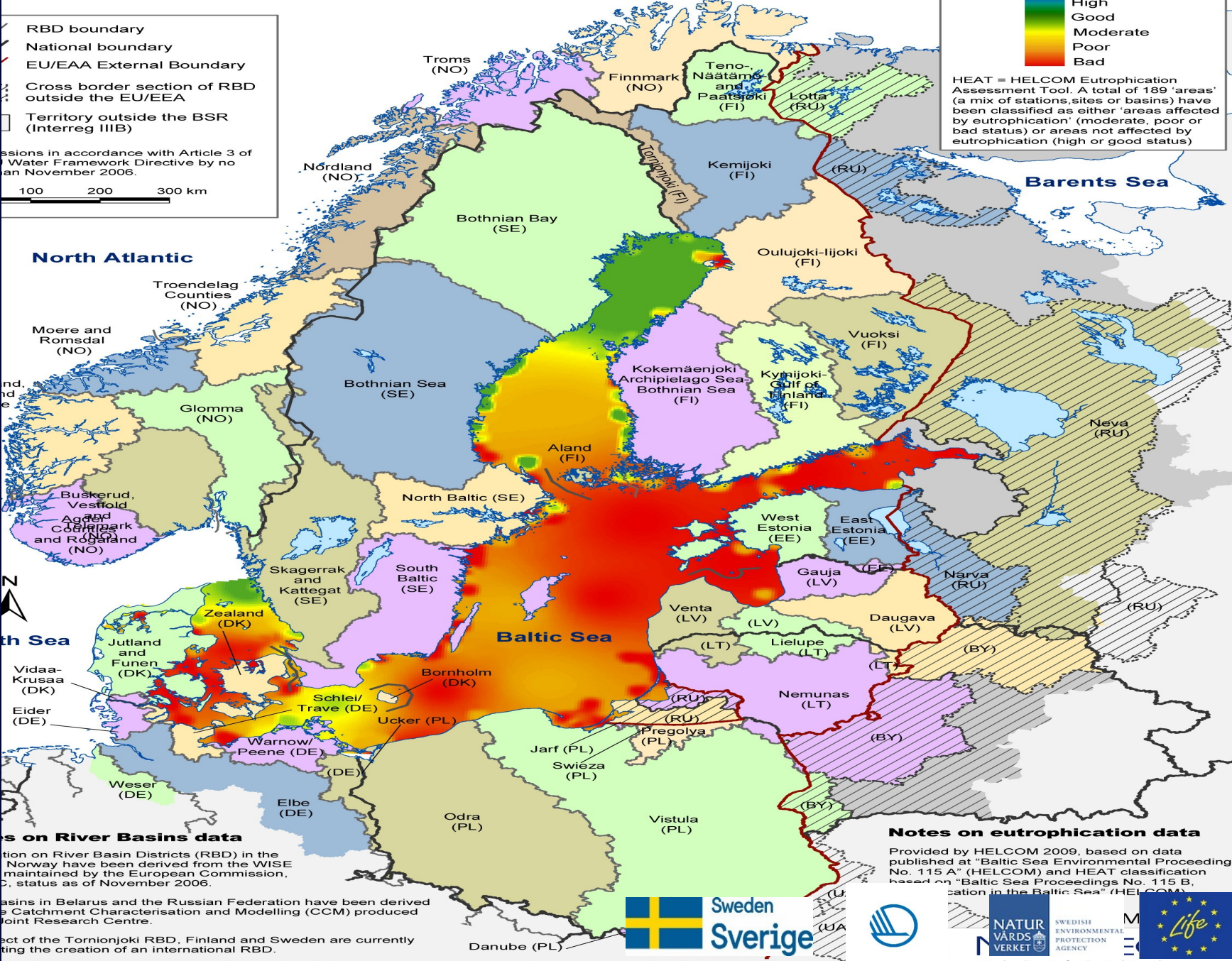
Basin Districts in the BSR and eutrophication (2009) in the Baltic Sea

HEAT integrated classification

HEAT = HELCOM Eutrophication Assessment Tool. A total of 189 'areas' (a mix of stations, sites or basins) have been classified as either 'areas affected by eutrophication' (moderate, poor or bad status) or areas not affected by eutrophication (high or good status)

RBD boundary
 National boundary
 EU/EAA External Boundary
 Cross border section of RBD outside the EU/EEA
 Territory outside the BSR (Interreg IIIB)

Decisions in accordance with Article 3 of the Water Framework Directive by no later than November 2006.



Notes on River Basins data

Information on River Basin Districts (RBD) in the Baltic Sea region (Denmark, Germany, Poland, Sweden, Finland, and Norway) have been derived from the WISE project, maintained by the European Commission, under contract No. 01-98-0255, status as of November 2006.

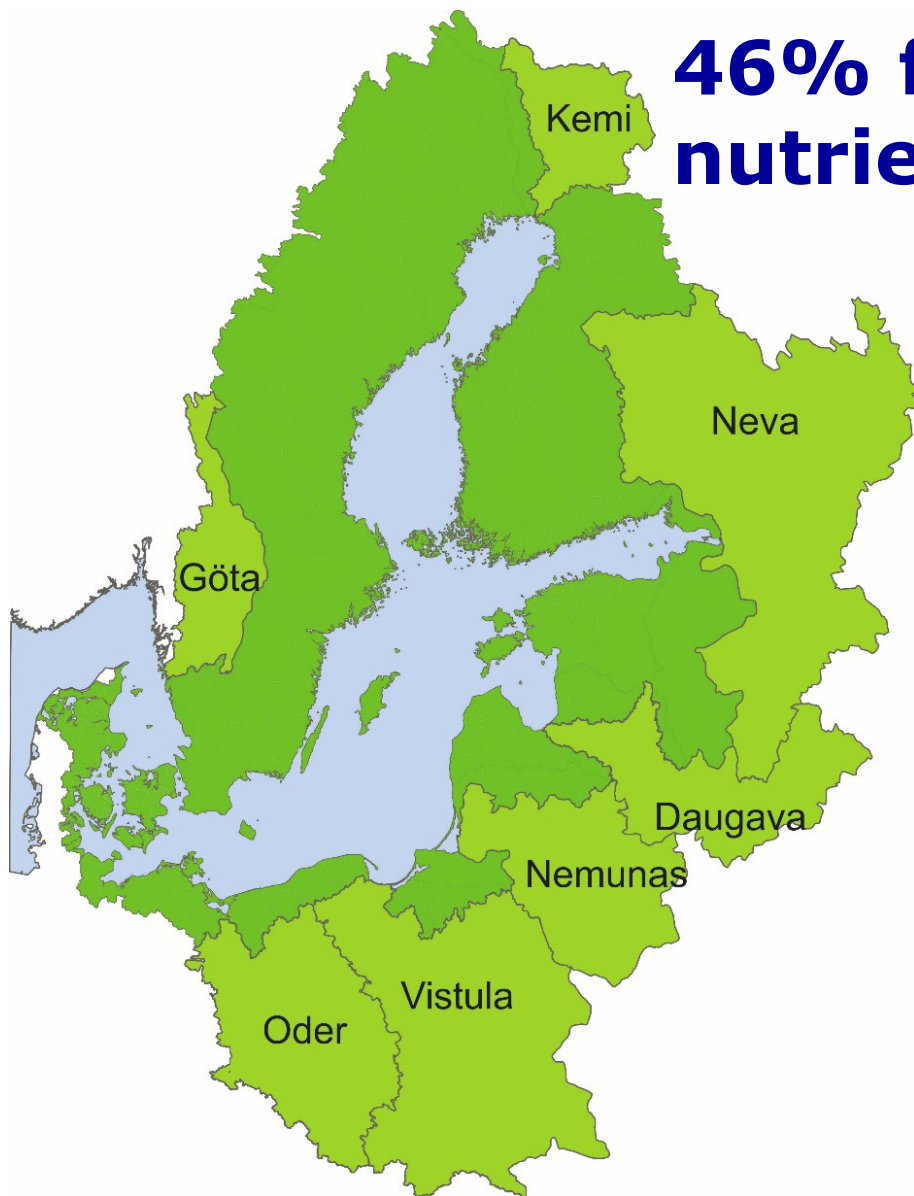
Basins in Belarus and the Russian Federation have been derived from the Catchment Characterisation and Modelling (CCM) project produced by the Joint Research Centre.

Basins in the Tornionjoki RBD, Finland and Sweden are currently being created for the purpose of the creation of an international RBD.

Notes on eutrophication data

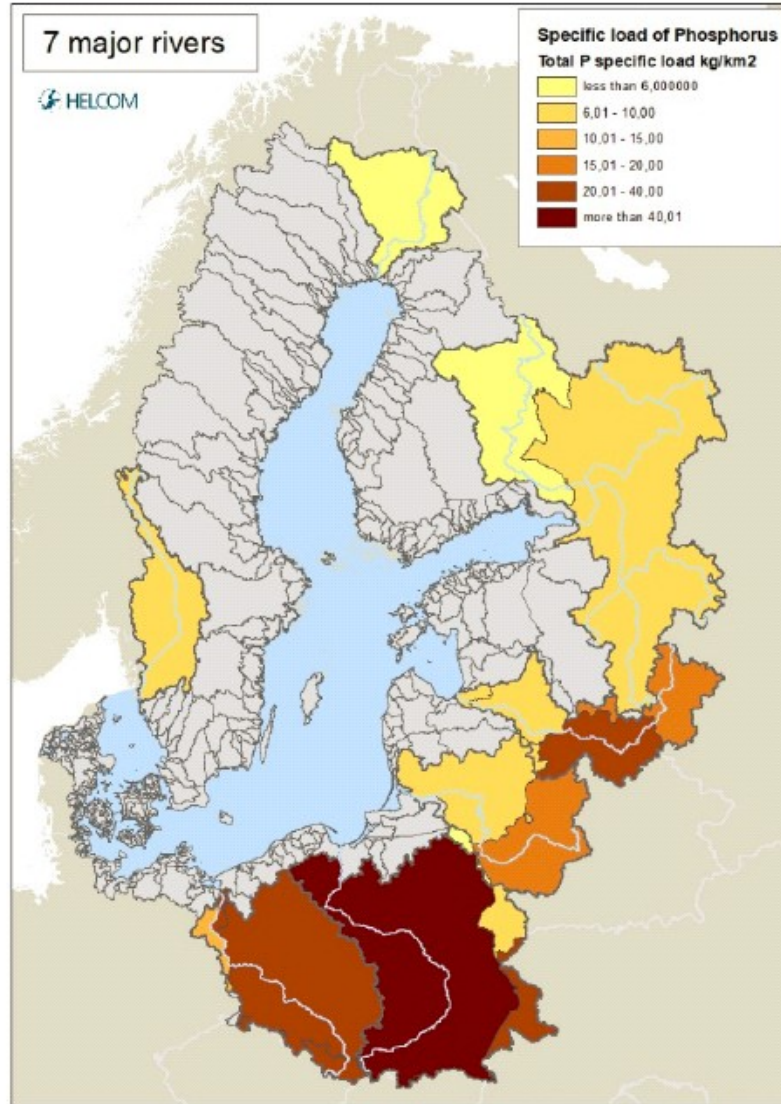
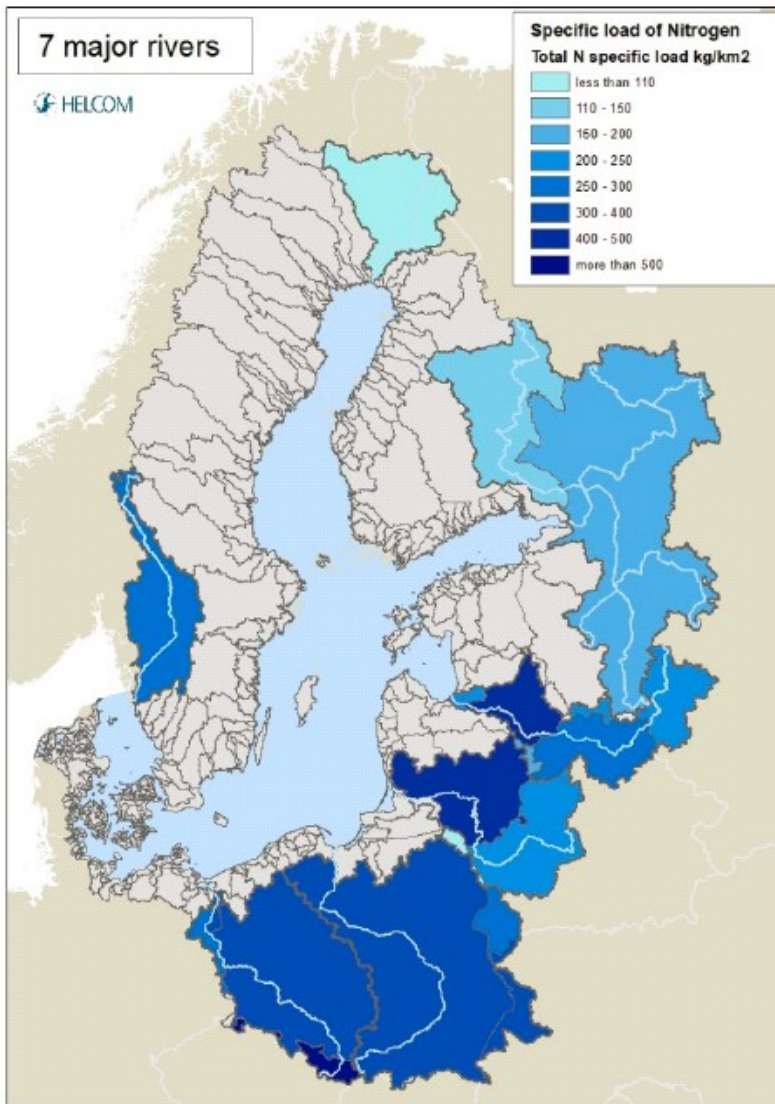
Provided by HELCOM 2009, based on data published at "Baltic Sea Environmental Proceedings No. 115 A" (HELCOM) and HEAT classification based on "Baltic Sea Proceedings No. 115 B, Eutrophication in the Baltic Sea" (HELCOM).





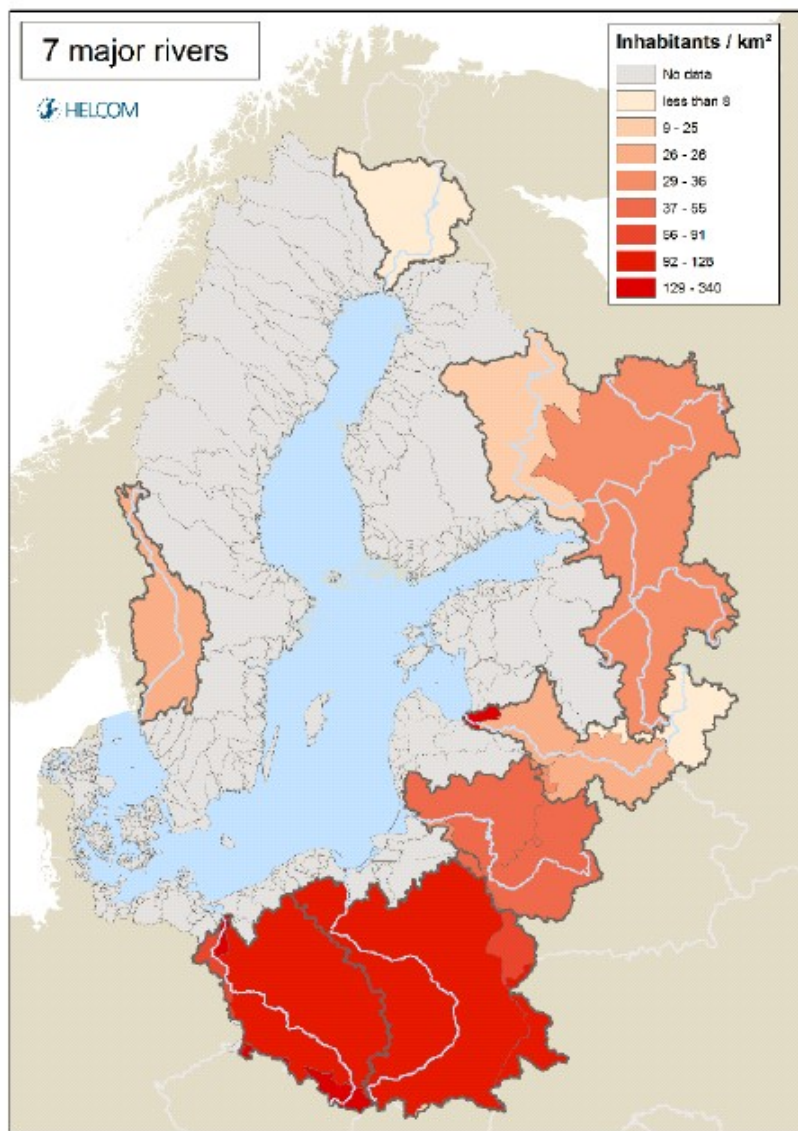
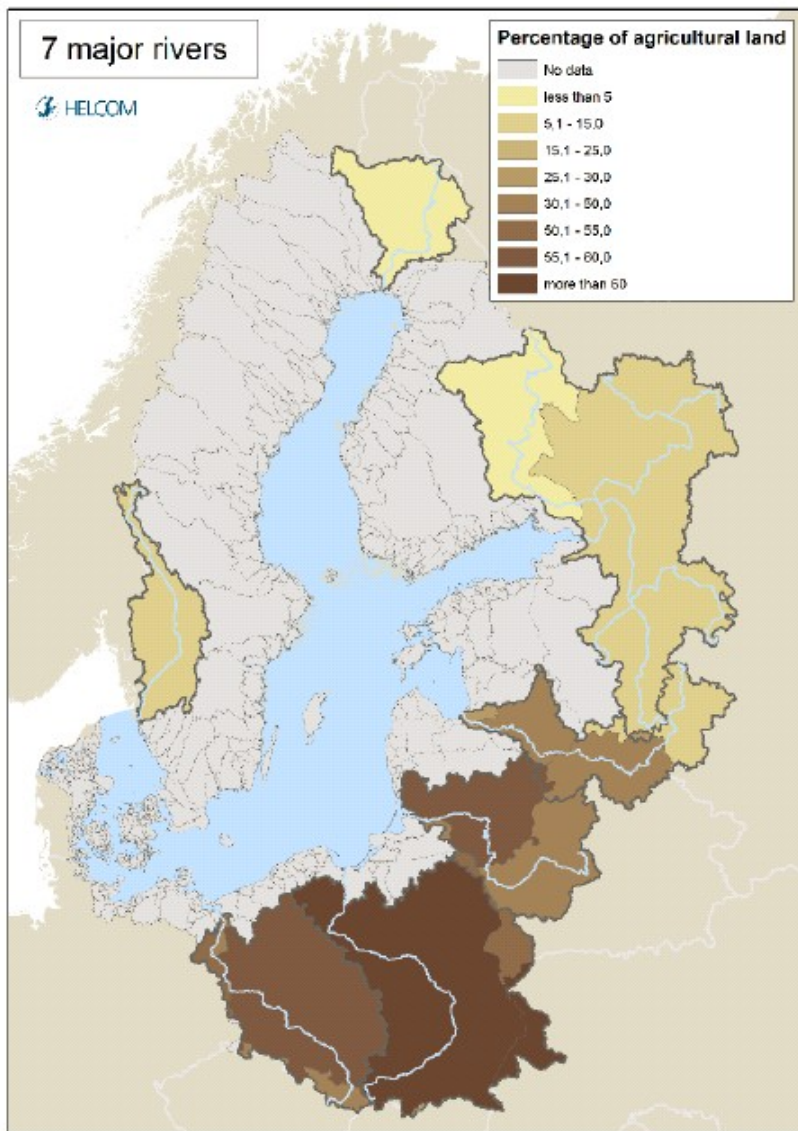
46% flow, >50% - nutrients

- Nearly 55 million people
- Human pressure is highest in southern parts
- Around half of the catchment areas of the Nemunas, Vistula and Oder rivers are covered by agricultural areas
- Forests dominate the catchments of the Göta, Kemi, Neva and Daugava rivers.
- The proportion of inland lakes is high (>15%) in the Göta and Neva River.



7 biggest rivers: area specific load of N & P

co-funded by EU LIFE Programme



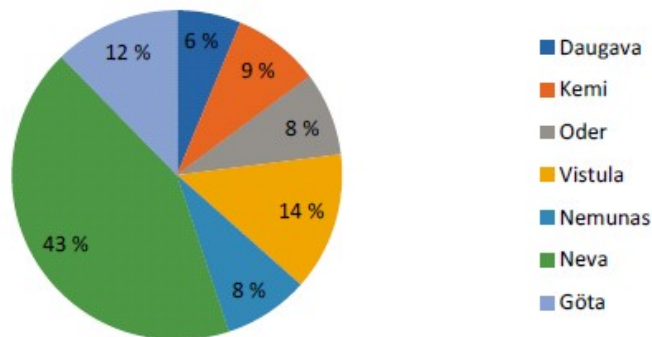
7 biggest rivers: agriculture & population

co-funded by EU LIFE Programme

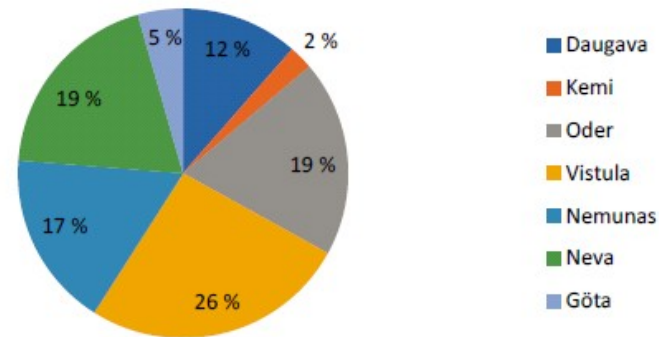


Regional water trends

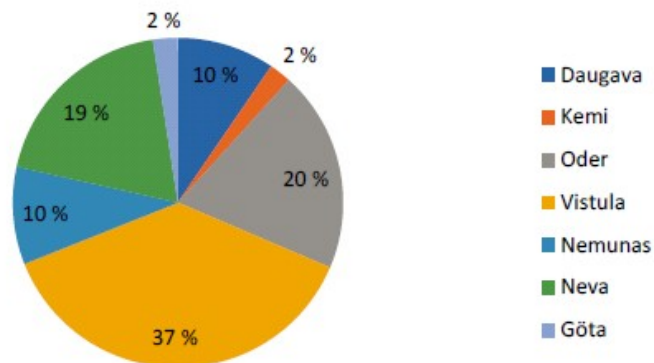
Flow



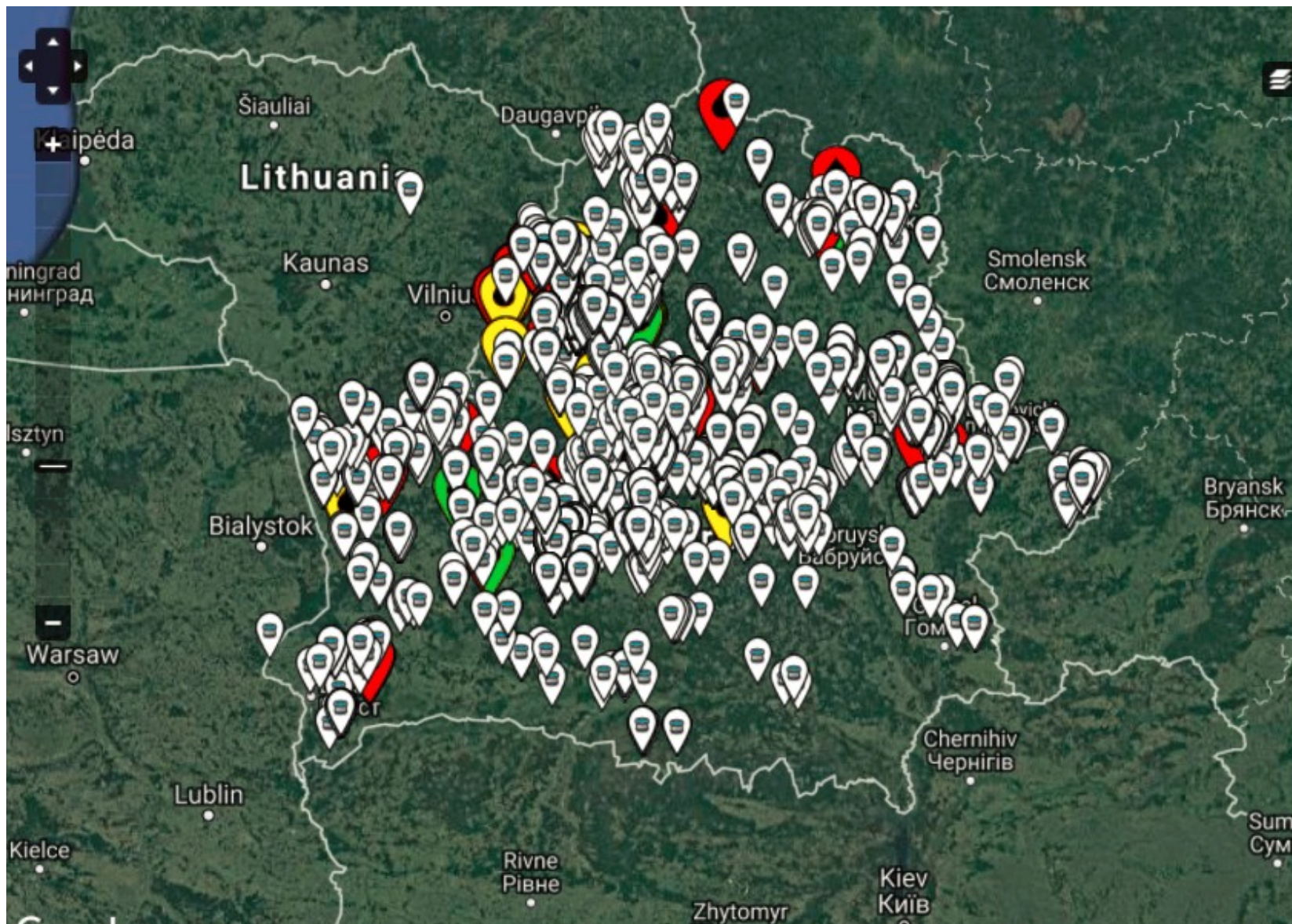
TN



TP



Tested: Nitrates in drinking water



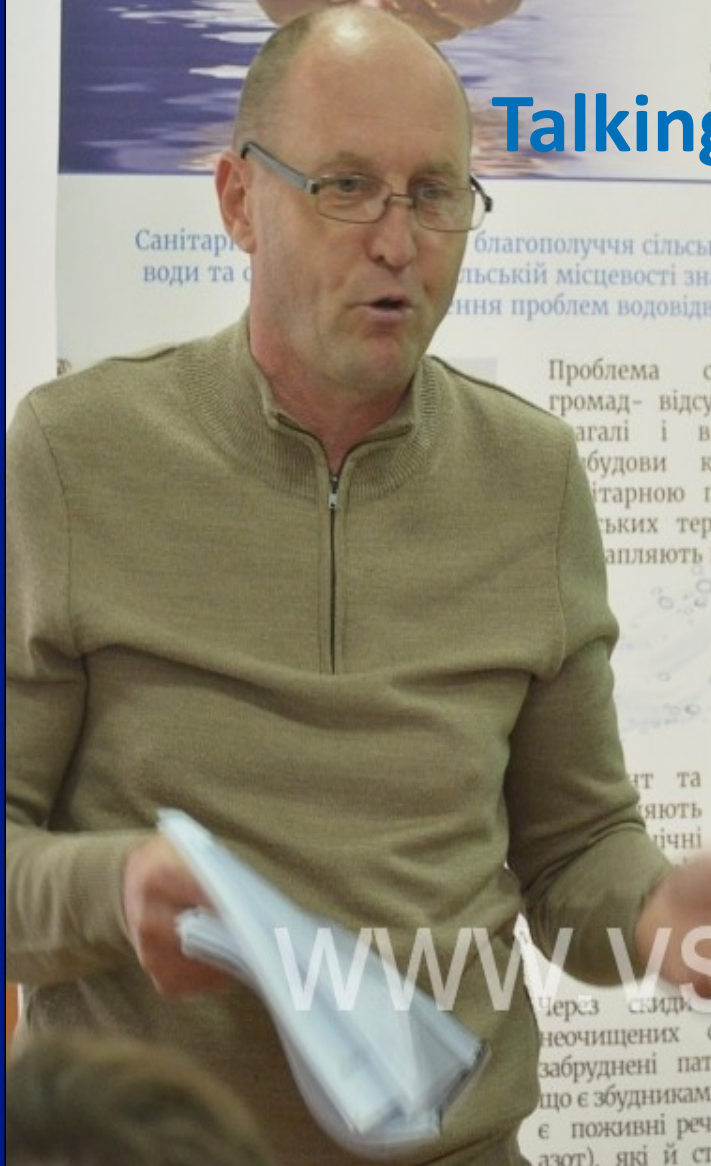
Old sins..., 500 m from the border

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Talking local agenda

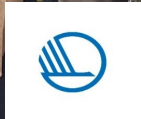


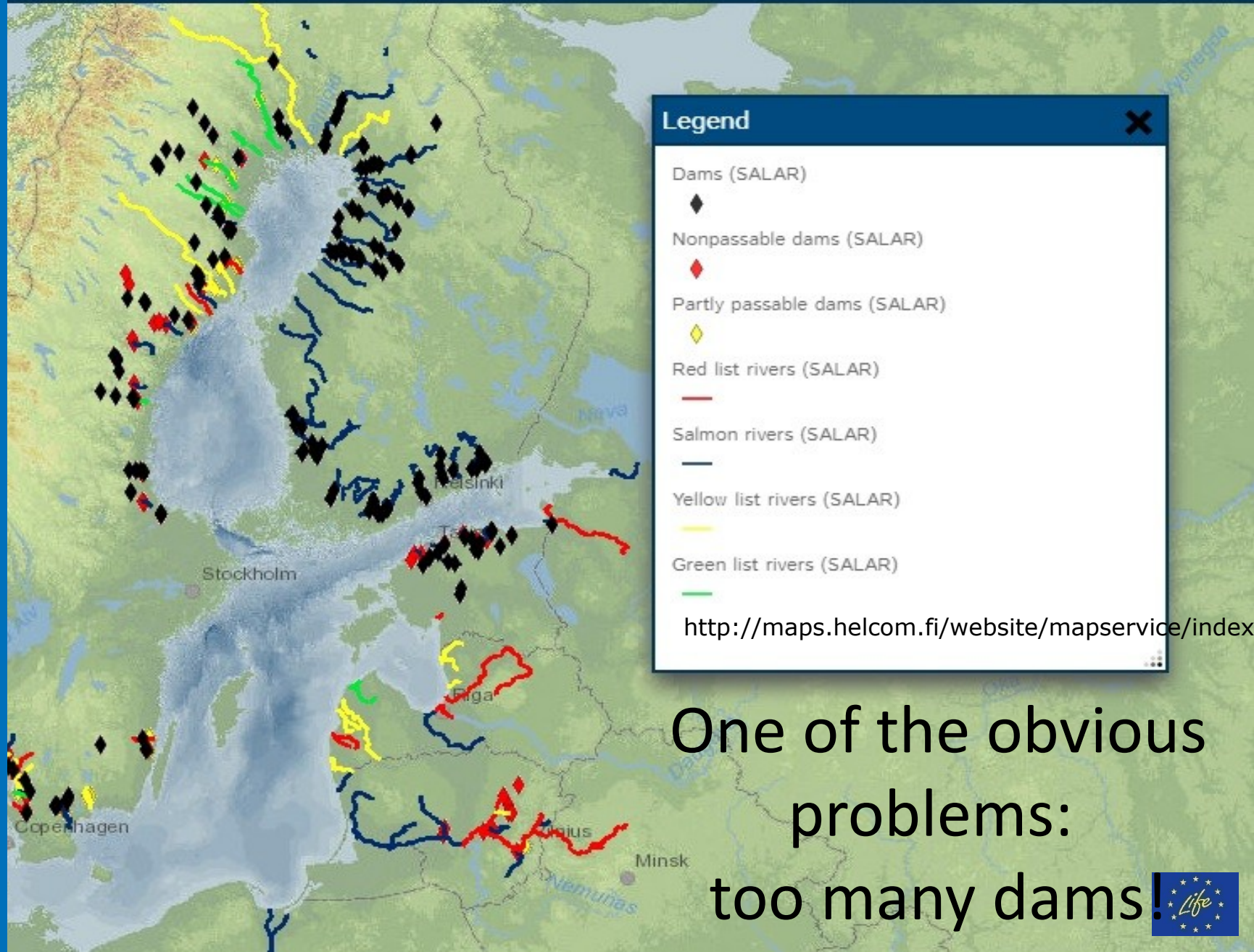
www.vsokali.com



True, Transboundary, Cross-sectorial

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Legend [X]

- Dams (SALAR)
 - ◆ Nonpassable dams (SALAR)
 - ◆ Partly passable dams (SALAR)
- Red list rivers (SALAR)
- Salmon rivers (SALAR)
- Yellow list rivers (SALAR)
- Green list rivers (SALAR)

<http://maps.helcom.fi/website/mapservice/index>

One of the obvious problems:
too many dams!



Dammed fate of Swedish rivers...

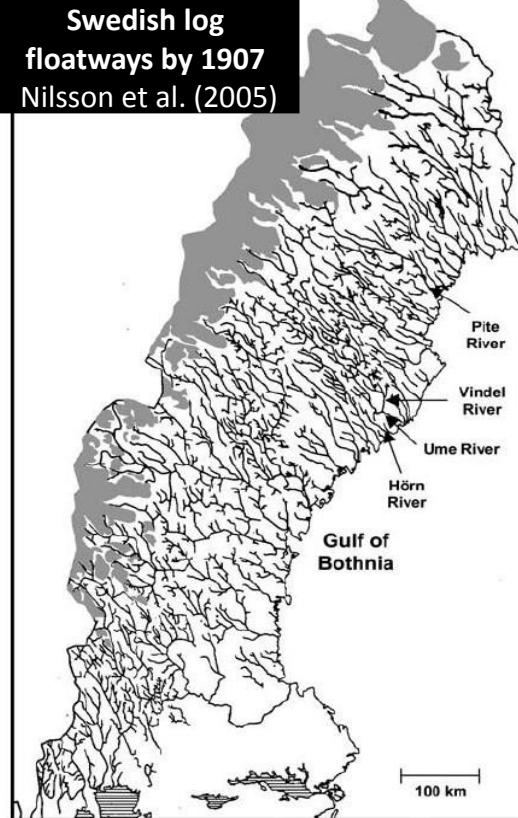
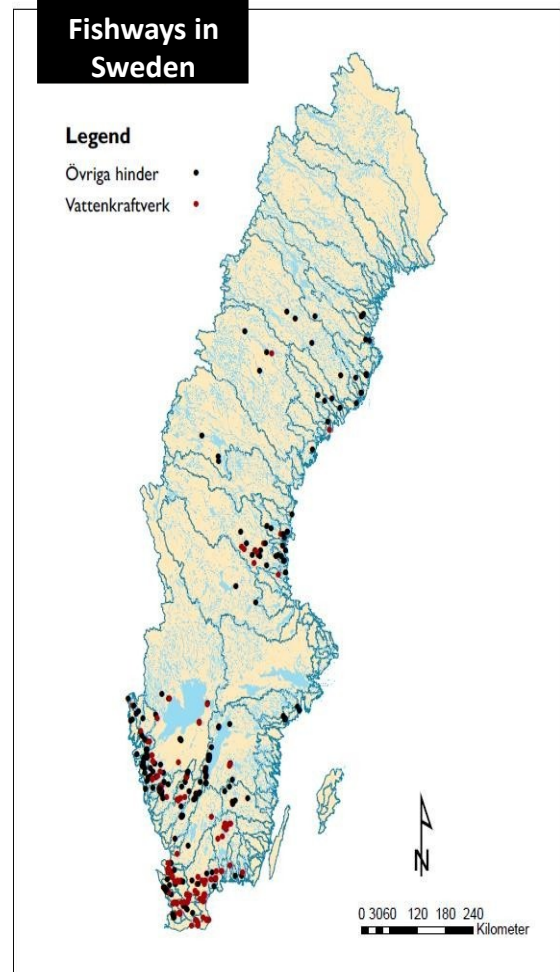
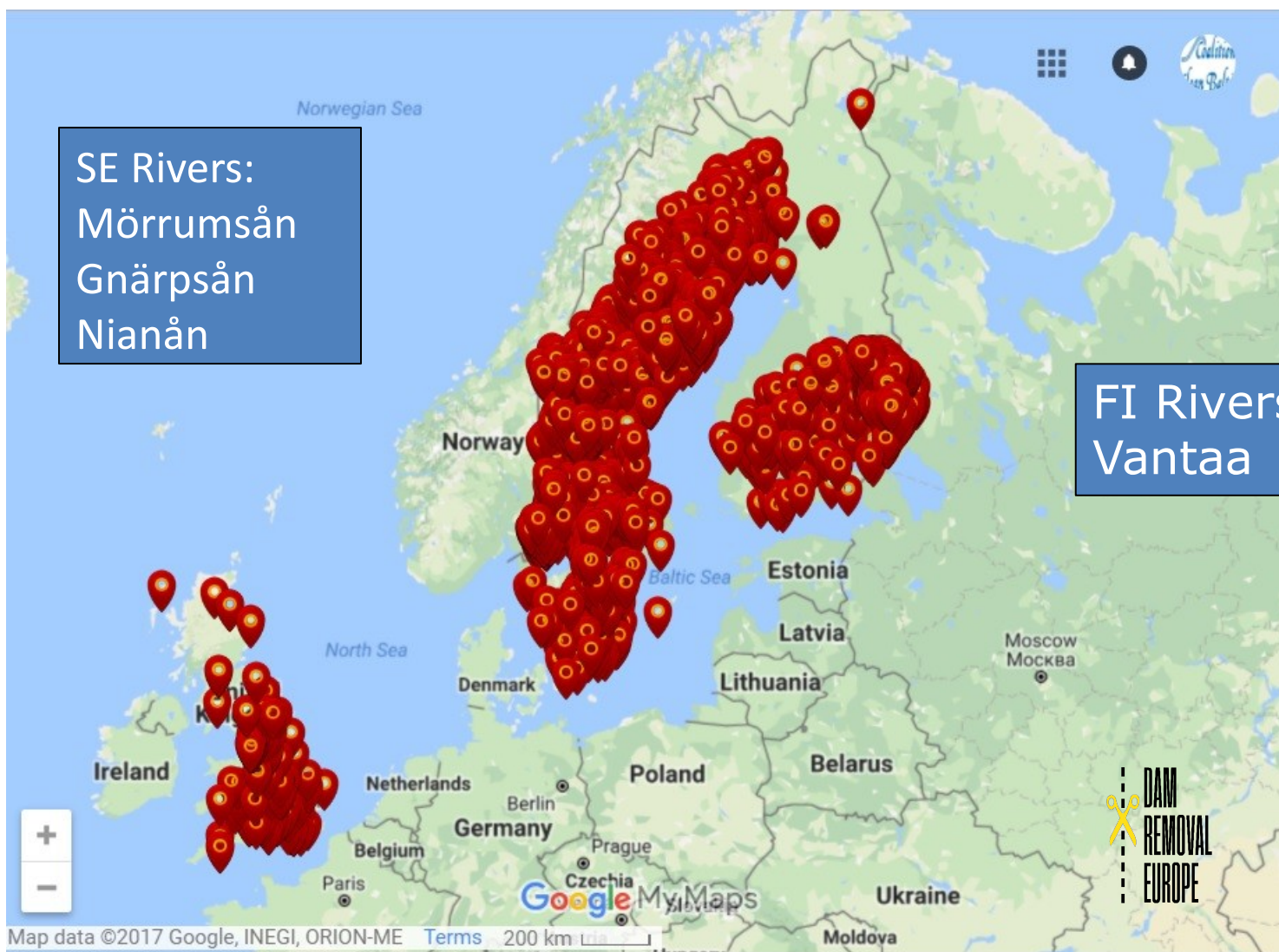


Figure 1. Map showing the network of log floatways used in northern and central Sweden (in northern Europe) by 1907 (river stretches not used for floating are not depicted). The *hatched areas* denote alpine regions without conifer log production (adopted from Andersson 1907). *Arrows* indicate the location of rivers mentioned in the text.

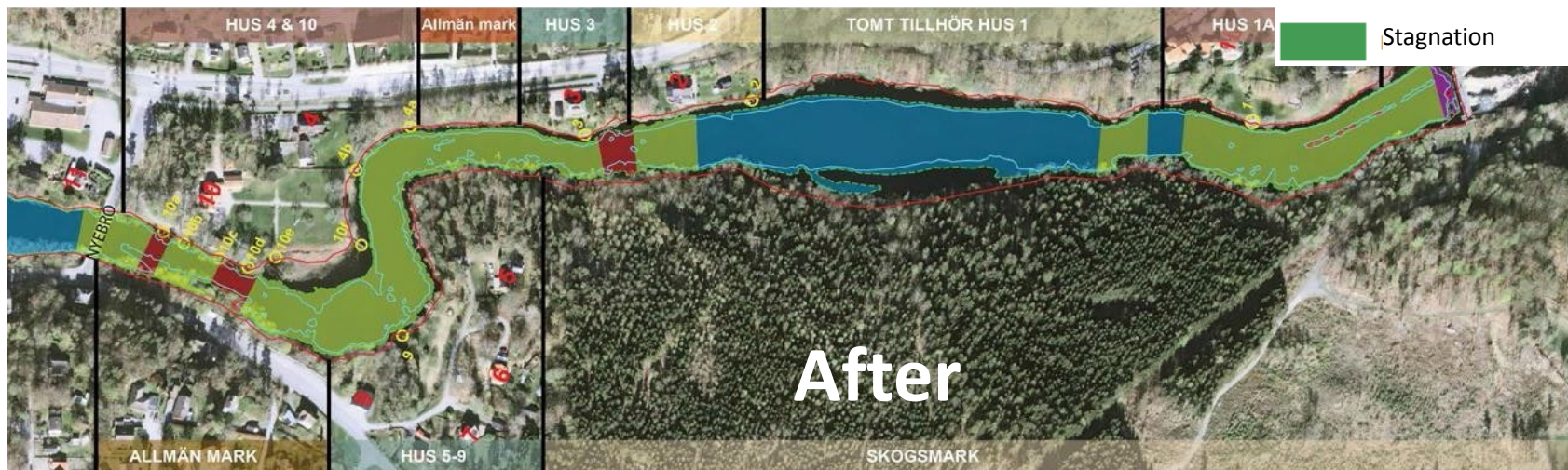
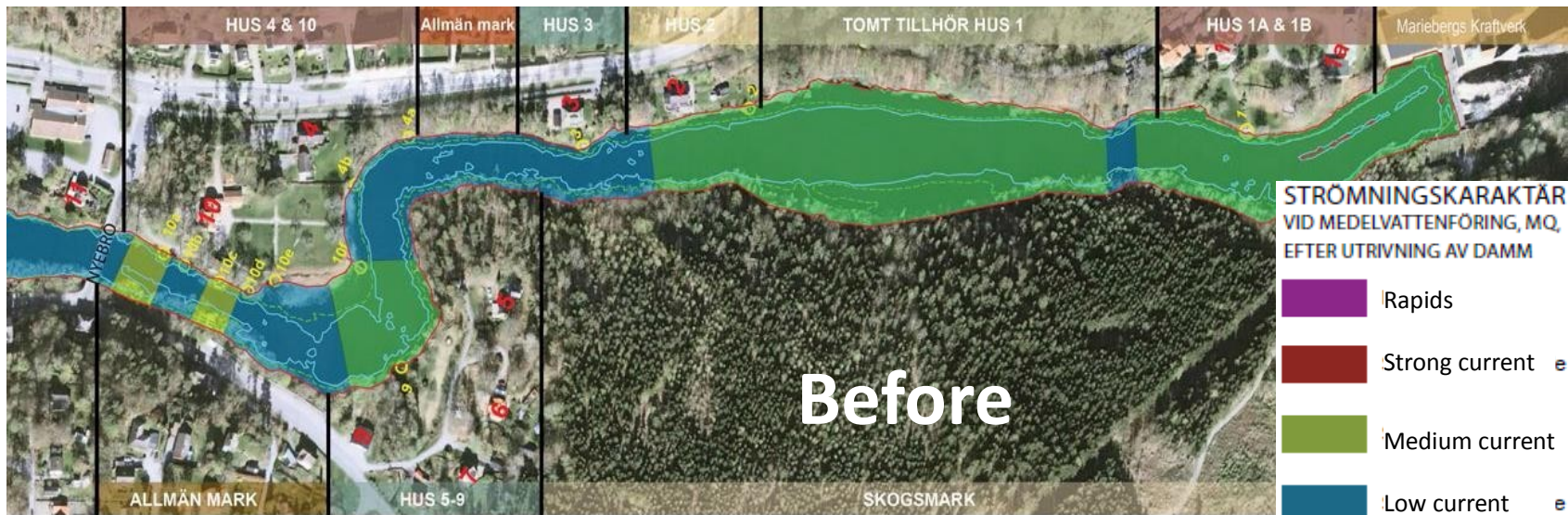


Dam removal cases is in the Baltic Sea Region



<http://damremoval.eu/dam-removal-map-europe/>





River Mörrumsån

- Restored heterogeneous and lotic habitat
- Increased spawning- and reproduction-areas for salmonids
- Restored connectivity for all species
- Loss of renewable energy



But... is it all nice and bright?

BEFORE: need to evaluate pros, cons, incl. risks, e.g.

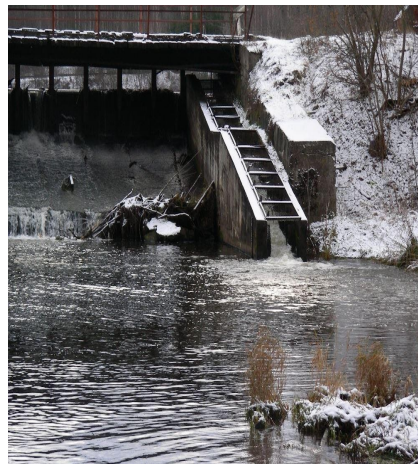
- Old sins upstream
- Increased silting and suspended solids
- Area that will be flooded downstream
- Loss of renewable energy source

VS.

- Improved biodiversity
- Removed barriers for up- & downstream migration
- Increased recreational value



Variety of manmade and natural barriers:

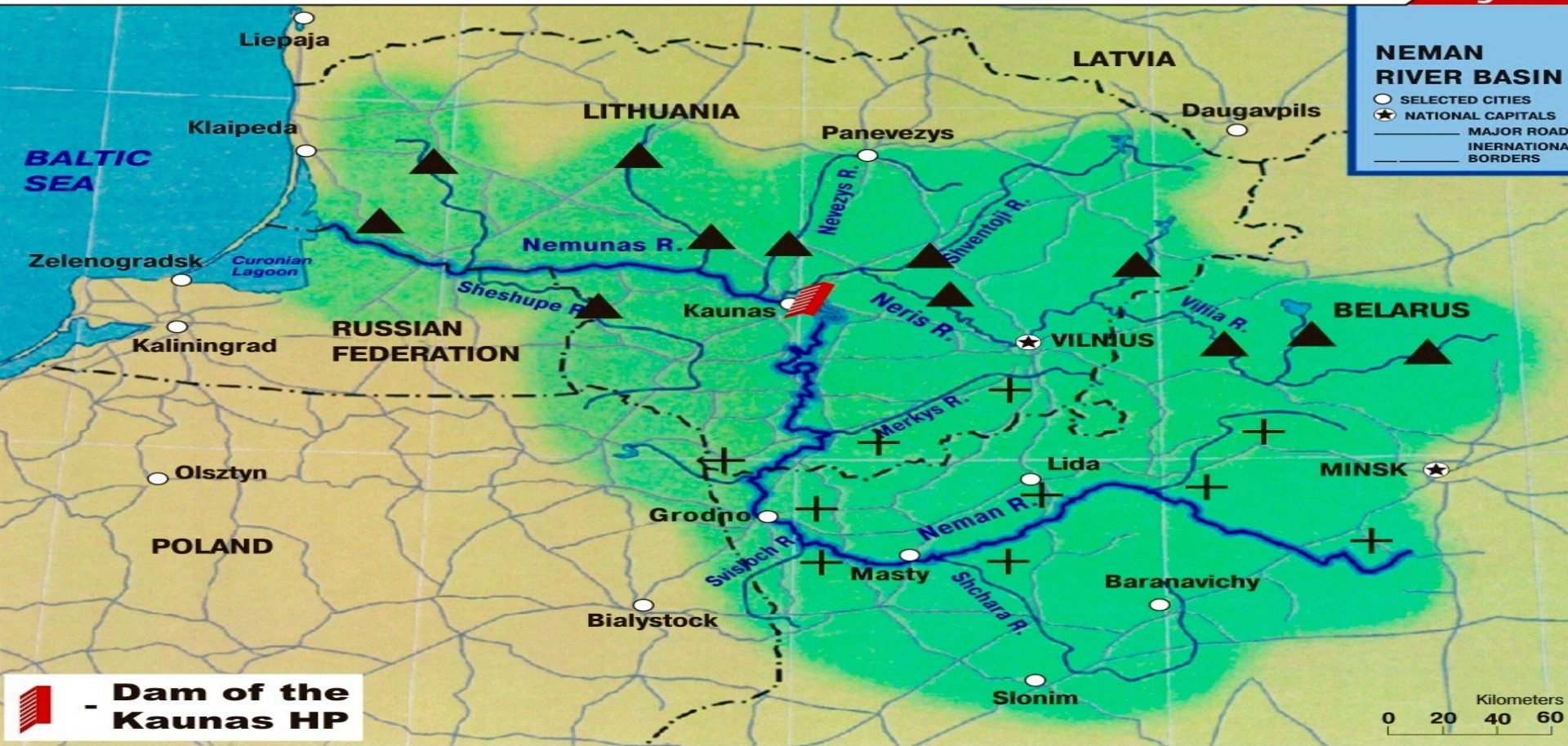


Real cases that require evaluation



Artificial barriers...

Figure 1



Salmon Spawning waterways in the Neman River basin

- ▲ – spawning rivers existing
- ✚ – spawning rivers lost after the Kaunas dam has been built

Nature is calling!

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Ласасёвы ЦЭНТР

Salmon centre Лососёвый центр



Информационный центр по сохранению лососевых рыб в Беларуси создан в рамках проекта «Развитие и укрепление сети хранилищ вокруг значимых водно-болотных угодий», реализуемого общественной организацией «Ахова птушак Бацькаўшчыны» (АПБ) при поддержке Коалиции Чистая Балтика (CCB), и финансируемого шведским агентством по международному развитию и сотрудничеству (SIDA). Ответственность за содержание экспозиции полностью возлагается на АПБ.

Партнерская организация «Ахова птушак Бацькаўшчыны»
www.apb.by

Coalition Clean Baltic SWEDEN Nordic Council

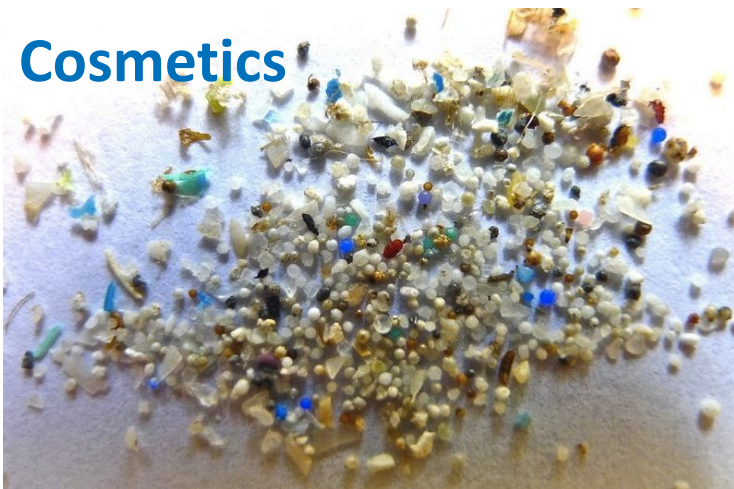
АПБ з'яўляецца нацыянальным партнёрам глабальнай асацыяцыі прыродазахоўных арганізацый BirdLife International у Беларусі.

2017



Microplastic – emerging Baltic problem

Cosmetics



Paints
& textiles



Inefficient WWTPs...



>70% with riverine inputs



Mixed problem...

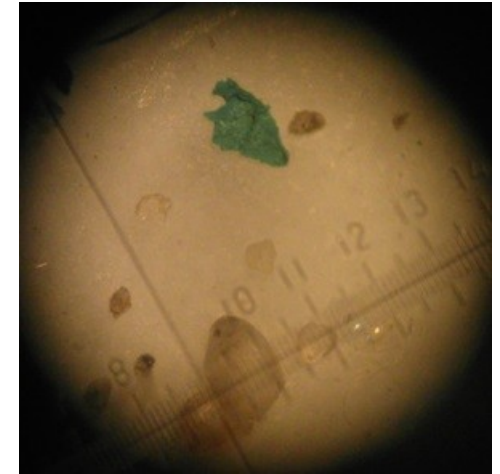
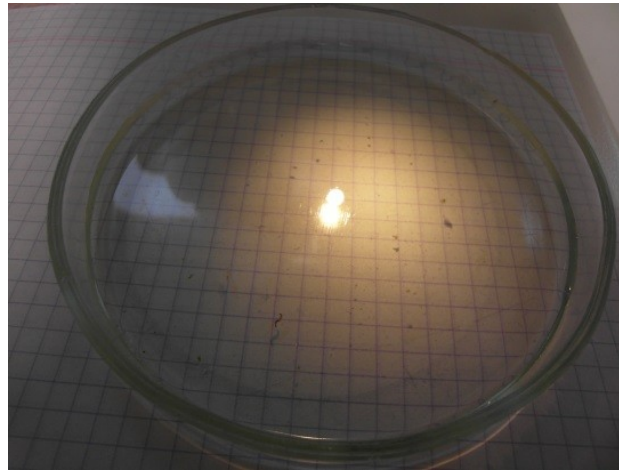
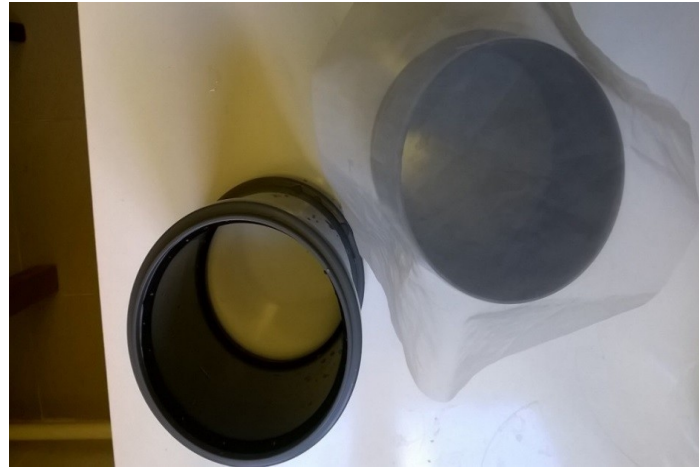


Inefficient treatment (e.g. >60 yrs old WWTPs)

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Screening of riverine/freshwater microplastic inputs



Common expertise and knowledge

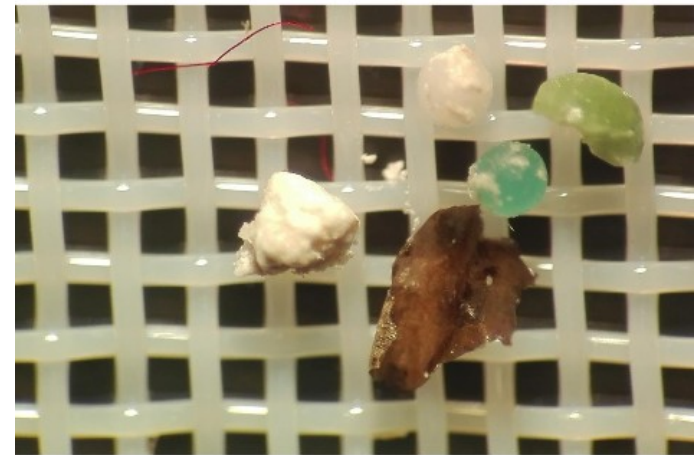


RIVER WATCH

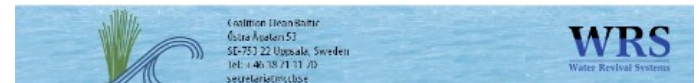
MANUAL FOR PUBLIC ENVIRONMENTAL MONITORING



Guidance on concrete ways to reduce microplastic inputs from municipal stormwater and waste water discharges



September 2017



Common challenge for all...

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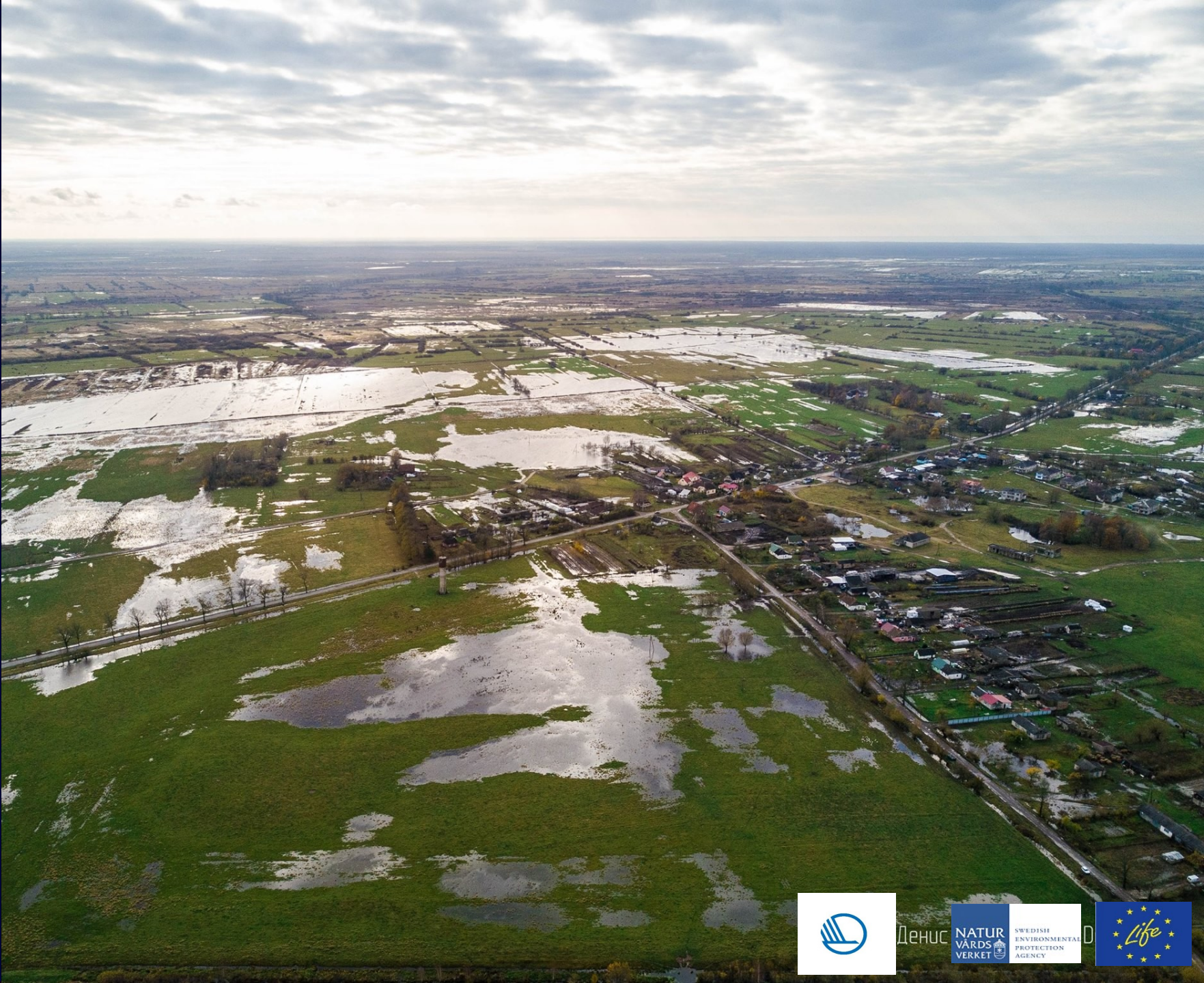
DEPUS

NATUR
VÅRDS
VERKET

SWEDISH
ENVIRONMENTAL
PROTECTION
AGENCY



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Денис



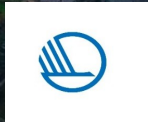
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Денис



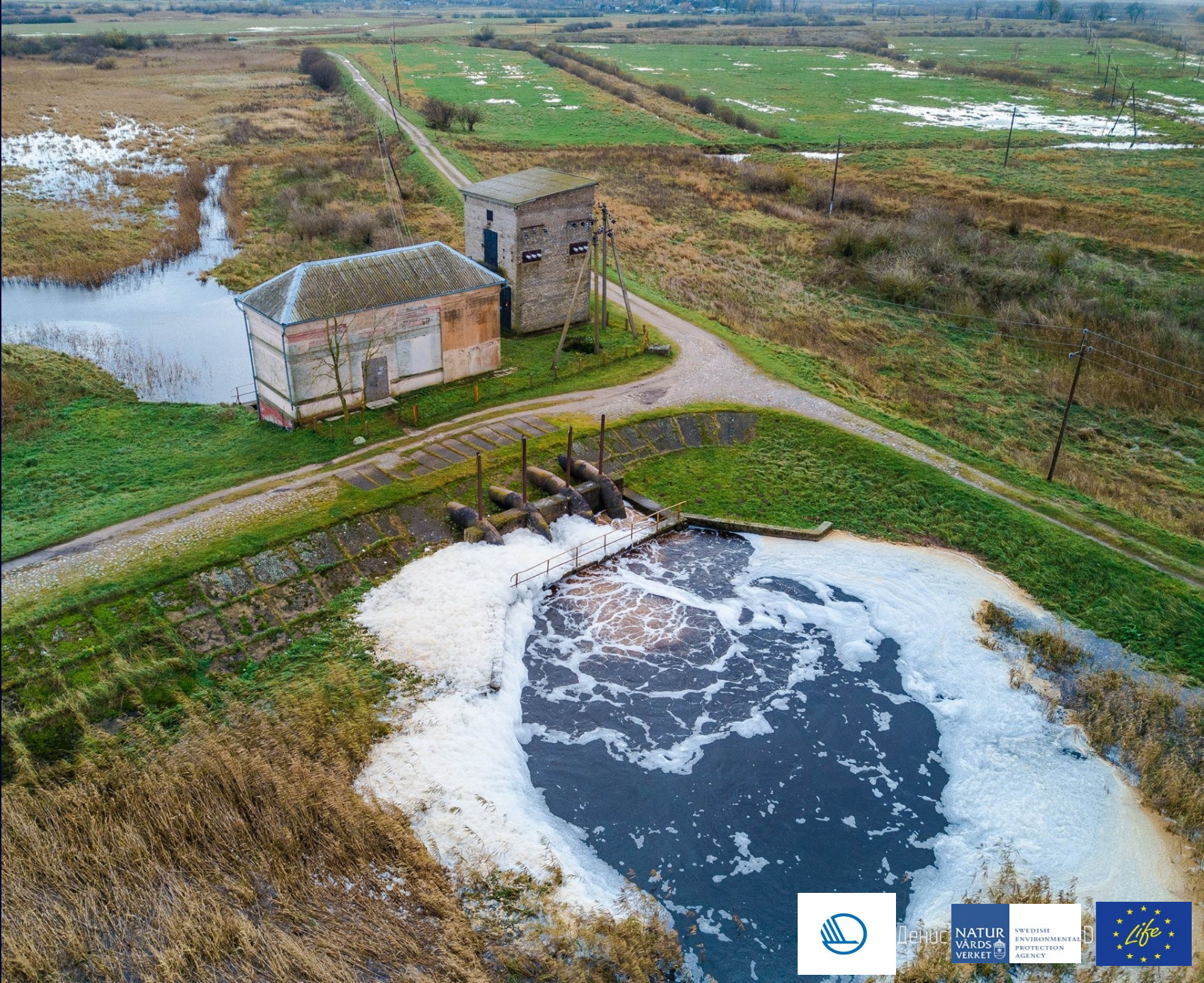
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Денис



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Dehuc

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©

Den



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#STOP_E40



High Five, Pripyat! (Pripyat', dai pyat'!)

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#IamTheBaltic


I NEED YOUR VOICE

Coalition Clean Baltic
FOR PROTECTION OF THE BALTIC SEA ENVIRONMENT

Join us:

 <http://www.ccb.se/iamthebaltic>

 <http://y2u.be/iMwxZpPwIDs>

 [@coalitioncleanbaltic/](https://www.facebook.com/coalitioncleanbaltic/)

 [@CCBnetwork](https://twitter.com/CCBnetwork)

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