REPUBLIC OF ESTONIA
MINISTRY OF THE ENVIRONMENT

Interreg
Estonia-Latvia
European Regional Development Fund

EUROPEAN UNION

The description of the current situation on water management in Estonia

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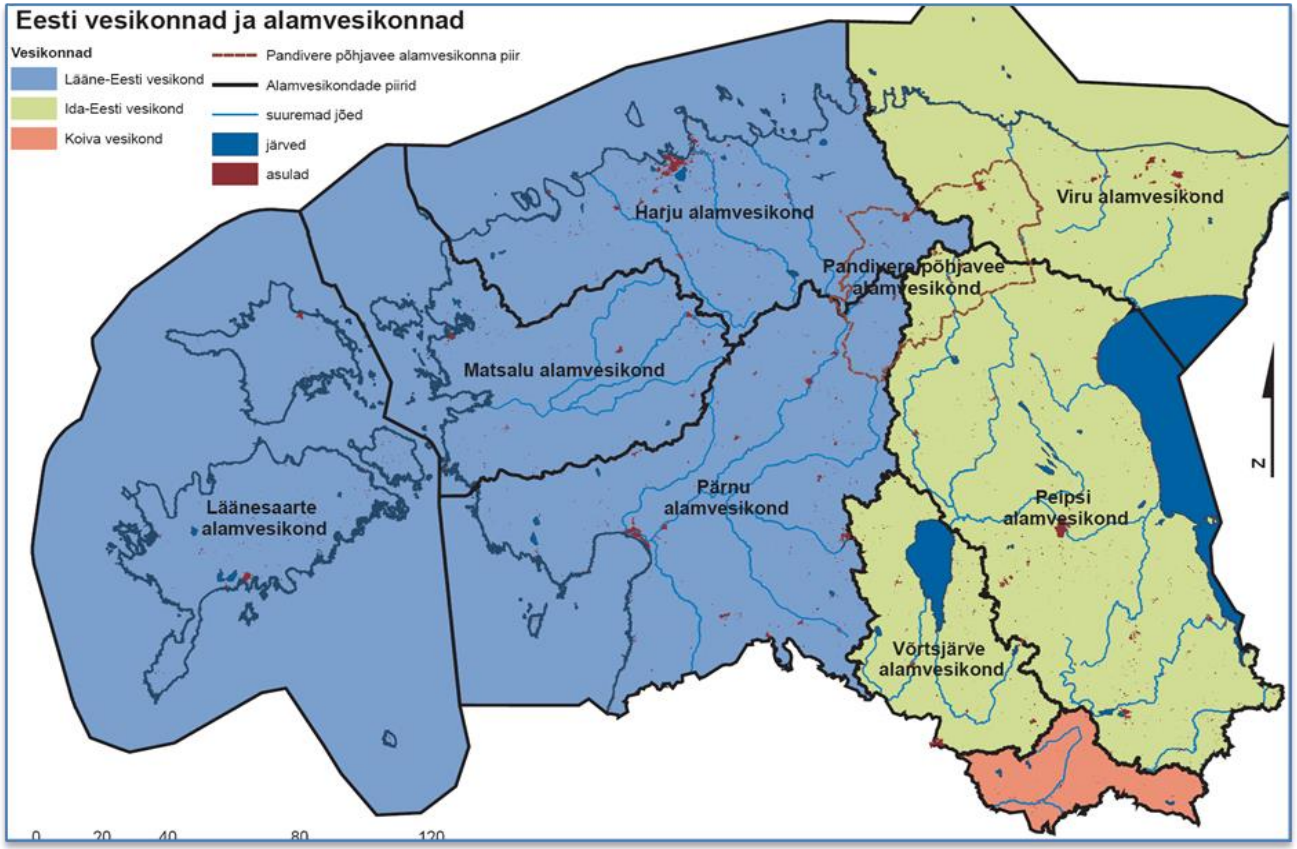
Content:

1. a short overview about time schedule of composing water management plan in Estonia;
2. short overview of the state of waterbodies and most important problems we are facing, focusing on Koiva river basin;
3. some words about methodology we use to measure pressure load to the waterbodies;
4. shortly about monitoring system we currently have;
5. how the measures are set.

Integrated river basin management



Short history of river basin management in Estonia:

1965 – 4 river basin districts
1984 – 2 river basin districts
1999 - 9 river basin districts
2000 - 1 river basin district and 9 sub-units (districts)
2003 - 3 river basin districts and 8 sub-units
2006 - 3 river basin districts and 9 sub-units
2009 - 3 river basin districts

Competent authorities

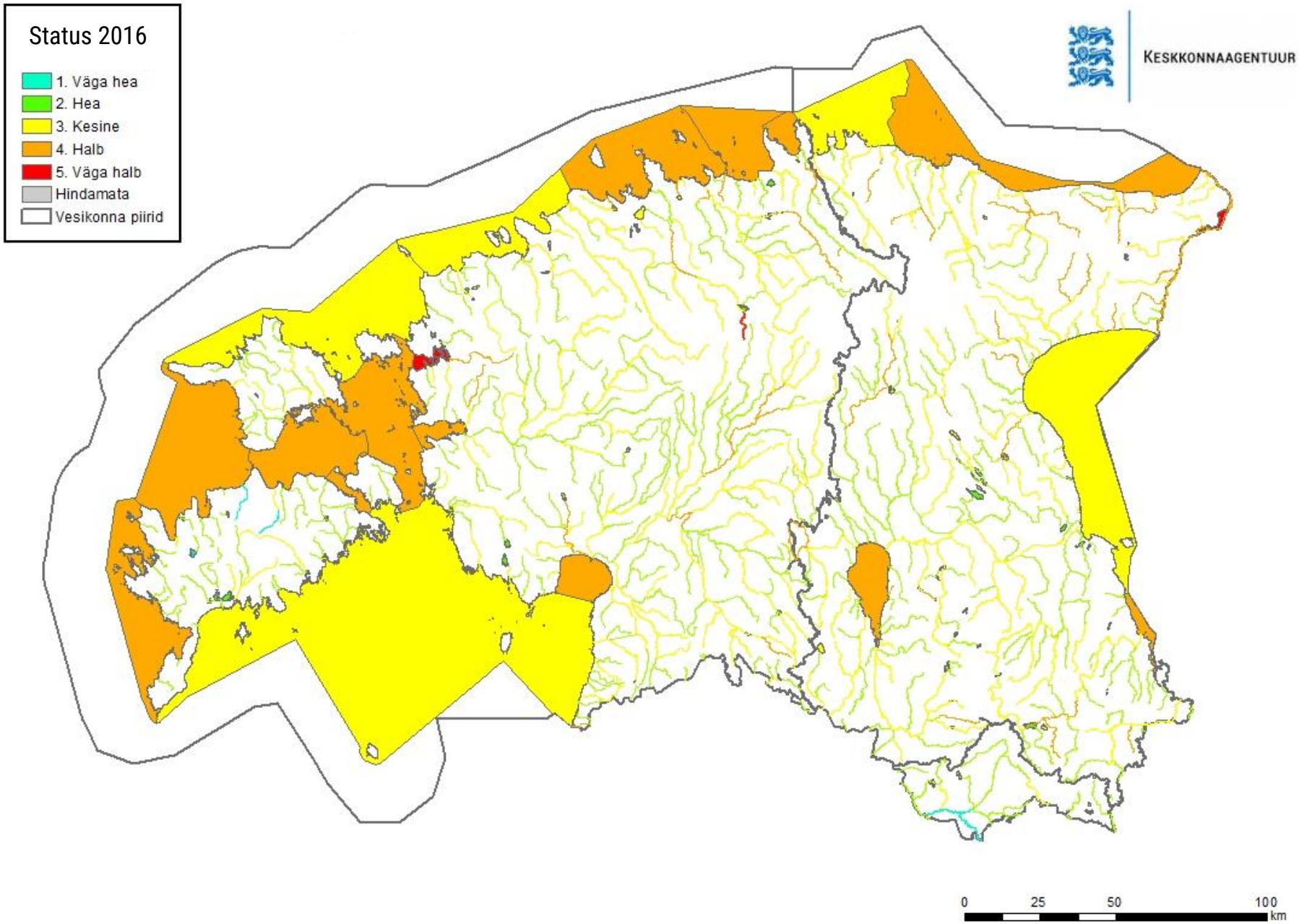
Ministry of the Environment - Enforcement of regulations; economic analysis; preparation of the RBMP and PoM; public participation and overall coordination of implementation

Estonian Environmental Board – Implementation of the PoM

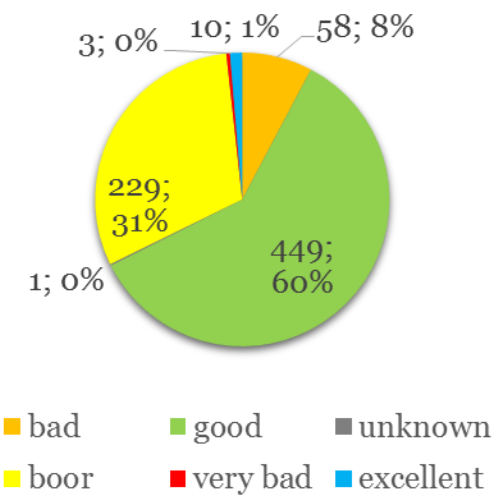
Estonian Environment Agency – monitoring and assessment of groundwater and surface water, pressure and impact analysis and reporting to the European Commission

Time schedule of composing WMP in Estonia

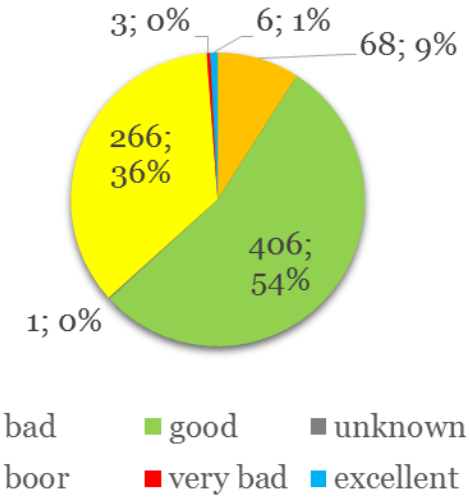
Activity	Time schedule
Start of the 3rd circle of the WMP and PoM	**2017. June** 2017. July – December: public participation (articles, sharing the information)
A timetable and work programme for the production of the WMP and PoM	**2018. December 22** - approval 2018. June-November – public display
Preliminary flood risk assessment and potential significant flood risk areas	**2018. December 22** - approval 2018. June-November – public display
Characteristics of the river basin district, review of the environmental impact of human activity and economic analysis of water uses Flood hazard maps and flood risk maps	**2019. December 22** - approval 2019. April-September – public display
3rd WMP and PoM Flood risk management plans	**2021. December 22** - approval 2021. May- coordination with other ministries 2021. April-September – public display


Status 2016
1. Väga hea
2. Hea
3. Kesine
4. Halb
5. Väga halb
Hindamata
Vesikonna piirid
KESKKONNAAGENTUUR
0
25
50
100
km

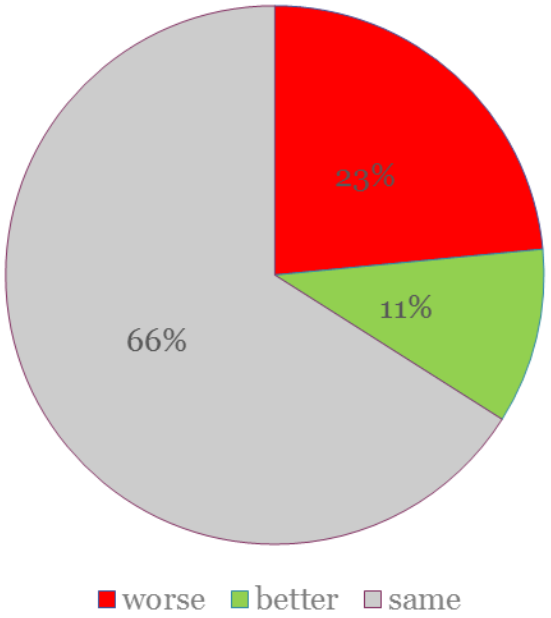
Status 2013



Status 2016



Changes in status 2013 to 2016

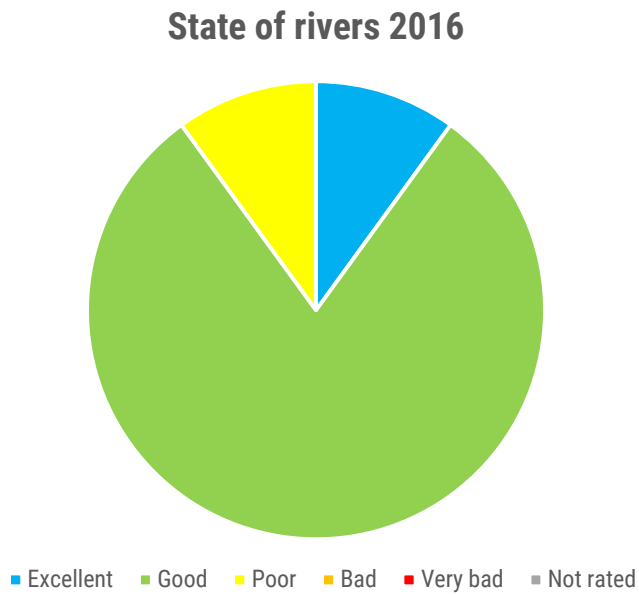


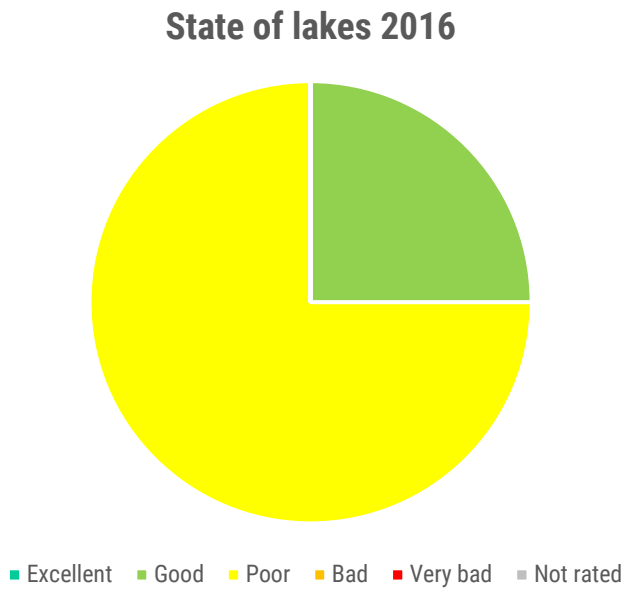
State of waterbodies in Koiva river basin

Name of waterbody	Ecological state (ES) WMP 2013-2016	ES not good element 2013-2016	ES not good parameter 2013-2016	ES not good reason 2013-2016	Change of ES 2013 tp 2016
Ahelo	good	missing	missing	missing	same
Hargla	poor	FYBE	FISH+A1:F18	unknown	same
Koiva	good	missing	missing	missing	same
Kolga	good	missing	missing	missing	same
Kuura	good	missing	missing	missing	same
Laanemetsa	good	missing	missing	missing	same
Mustjõgi_1	good	missing	missing	missing	same
Mustjõgi_2	good potential	missing	missing	missing	better
Mustjõgi_3	goog	missing	missing	missing	same
Mustjõgi_4	goog	missing	missing	missing	same
Mustjõgi_5	excellent	missing	missing	missing	same
Pedetsi	good	missing	missing	missing	same
Peeli	good	missing	missing	missing	same
Peetri	Excellent	missing	missing	missing	same
Punaoja	good	missing	missing	missing	same
Pärlijõgi_1	poor	FISH	missing	dams	same
Pärlijõgi_2	good	missing	missing	missing	better
Ujuste	good	missing	missing	missing	same
Vaidava_1	poor	FISH	unknown	dams	better
Vaidava_2	good	missing	missing	missing	same
Transboundary river basin					
Pedeli_1	good	missing	missing	missing	same
Pedeli_2	good	missing	missing	missing	same
Pedeli_3	goog	missing	missing	missing	same
Ruhja	boor	FISH	missing	missing	worse
Õhne_1	good	missing	pmissing	missing	same
Õhne_2	poor	FISH	JKI	dams	same
Õhne_3	poor	FISH	JKI	dams	worse
Puzupe	good potencial	missing	missing	missing	same

Name of waterbody	Ecological state (ES) WMP 2013-2016	ES not good element 2013-2016	ES not good parameter 2013-2016	ES not good reason 2013-2016	
Aheru järv	poor	FYKE, FYPLA	Chl_a,FP_J,FPK,N-üld,pH,Secchi	nutrients	worse
Hino järv	good	missing	missing	missing	same
Kirikumäe järv	poor	FYKE, SUSE	N-üld, P-üld, SD, T, ASPT, EPT	nutrients	same
Köstrejärv	poor	MAFY	taksons, mändvetikas, penikeel, kardhein	old pollution, lake in inproving	worse
Murati järv	poor	FYKE, SUSE	pH, SD, T, ASPT, EPT	SUSE naural drift	same
Pabra järv	good	missing	missing	missing	same
Pullijärv	pood	FYKE, FYPLA	N-üld, pH, Secchi, FPK, J	nutrients	same
Ähijärv	poor	FYKE, FYPLA	FP_J,FPK,pH,P-üld,Secchi	unknown	worse

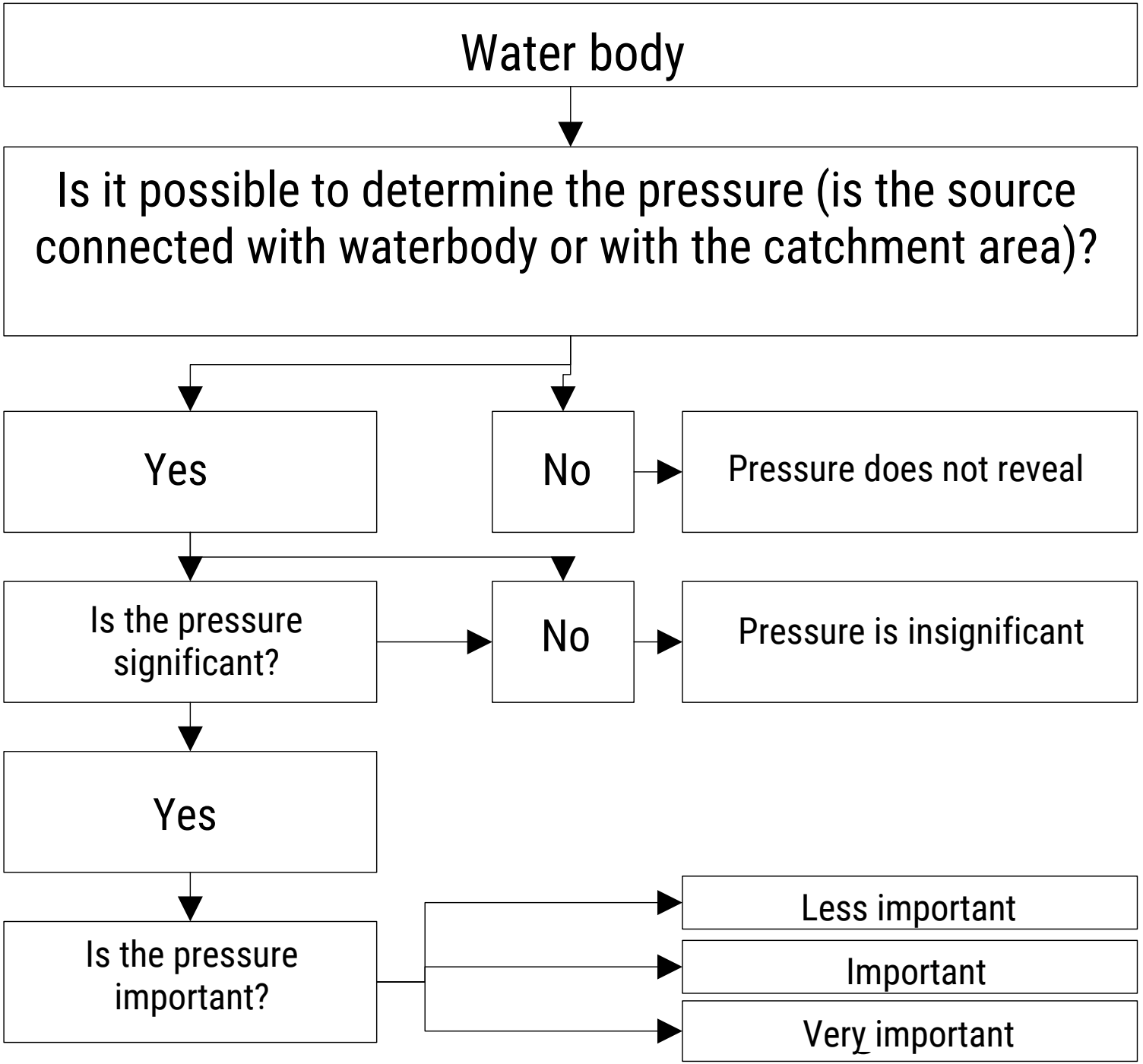
Status of waterbodies in Koiva river basin

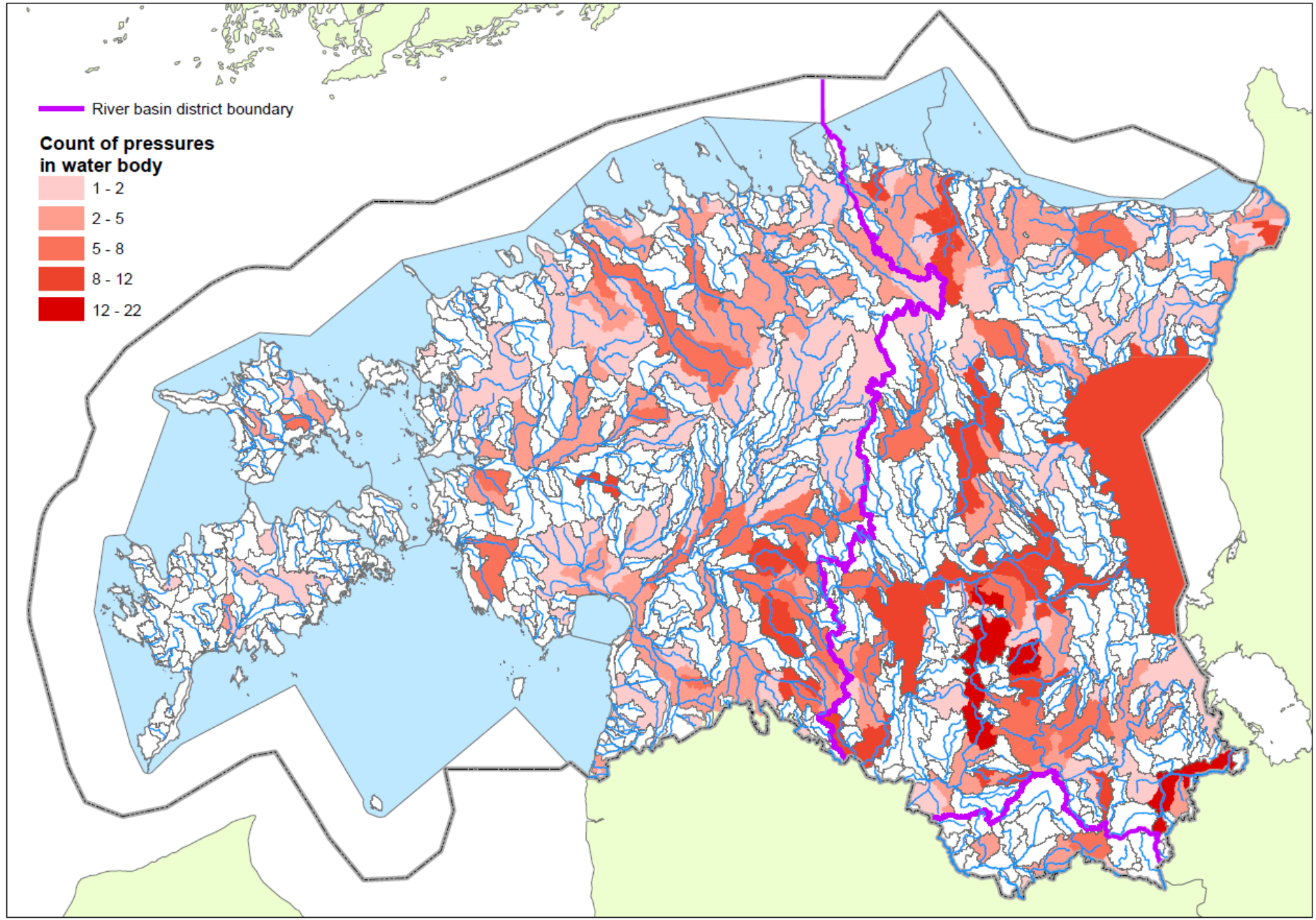


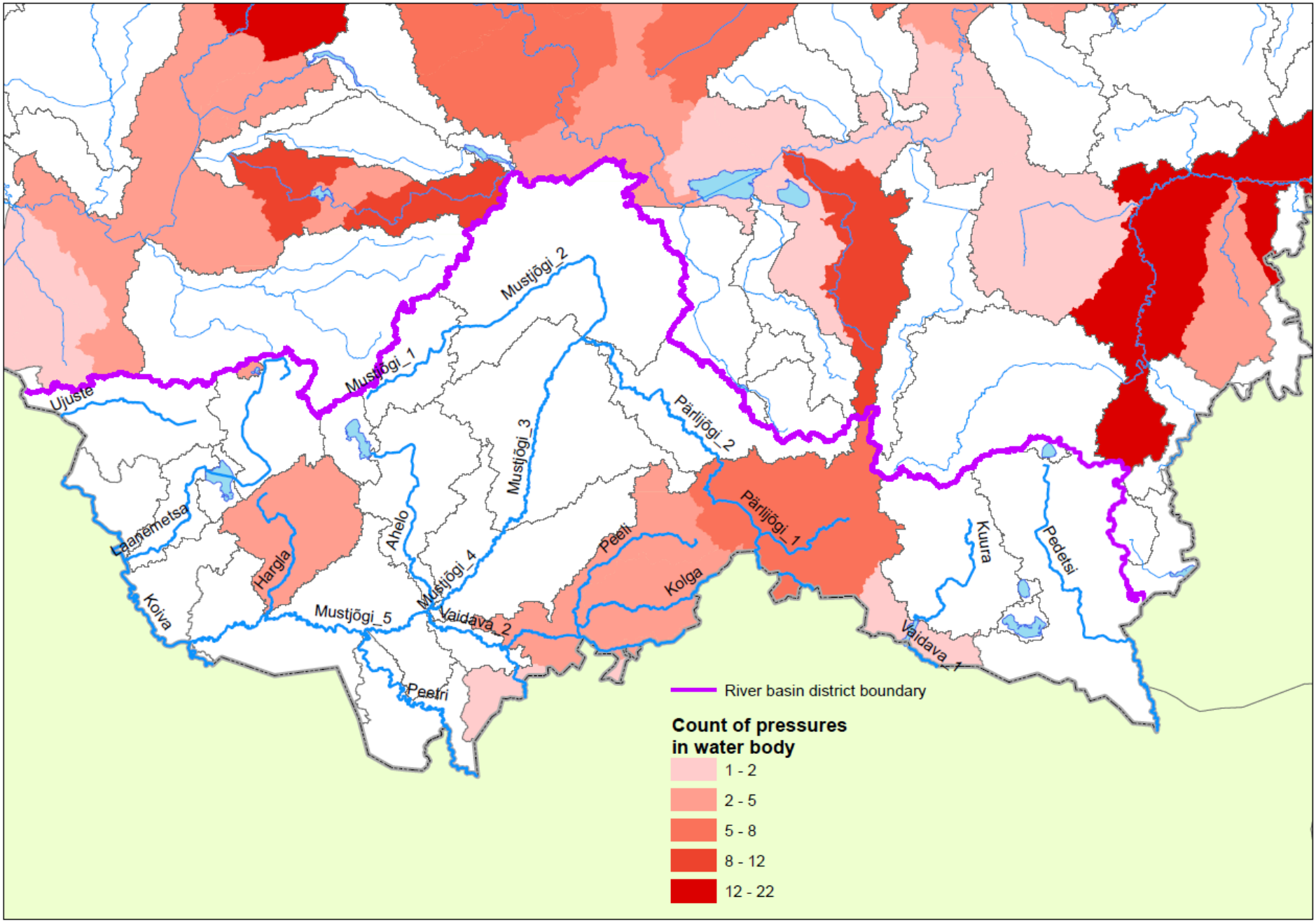


Three most significant problems in Estonia

Pressure	Trend
1. Wastewater, sewage (wastewater treatment plants, industrial wastewater, private treatment facilities) in agglomerations	
Wastewater from non-agglomerations	
Contaminated soil, past pollution, pollution in deserted military areas, old gas stations, oil collection and treatment facilities, oil storages	
2. Agriculture (farming, land use, manure storages, use of fertilizers)	
Land reclamation, drainage (pollution, hydro morphological impact on small rivers and streams)	
3. Water reservoirs, impoundments (collection of water for hydro energy, irrigation, recreation, landscape)	
Mining of minerals (calcareous rocks, oil shale)	
Internal pollution load from water bodies	


Water body
Is it possible to determine the pressure (is the source connected with waterbody or with the catchment area)?
Yes
No
Pressure does not reveal
Is the pressure significant?
No
Pressure is insignificant
Yes
Is the pressure important?
Less important
Important
Very important


River basin district boundary
Count of pressures in water body
1 - 2
2 - 5
5 - 8
8 - 12
12 - 22


Mustjõgi_2
Mustjõgi_1
Ujuste
Pärlijõgi_2
Mustjõgi_3
Pärlijõgi_1
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Pedetsi
Laanemetsa
Ahelo
Hargla
Mustjõgi_4
Peeri
Kolga
Koiva
Mustjõgi_5
Vaidava_2
Vaidava_1
Peetri
River basin district boundary
Count of pressures in water body
1 - 2
2 - 5
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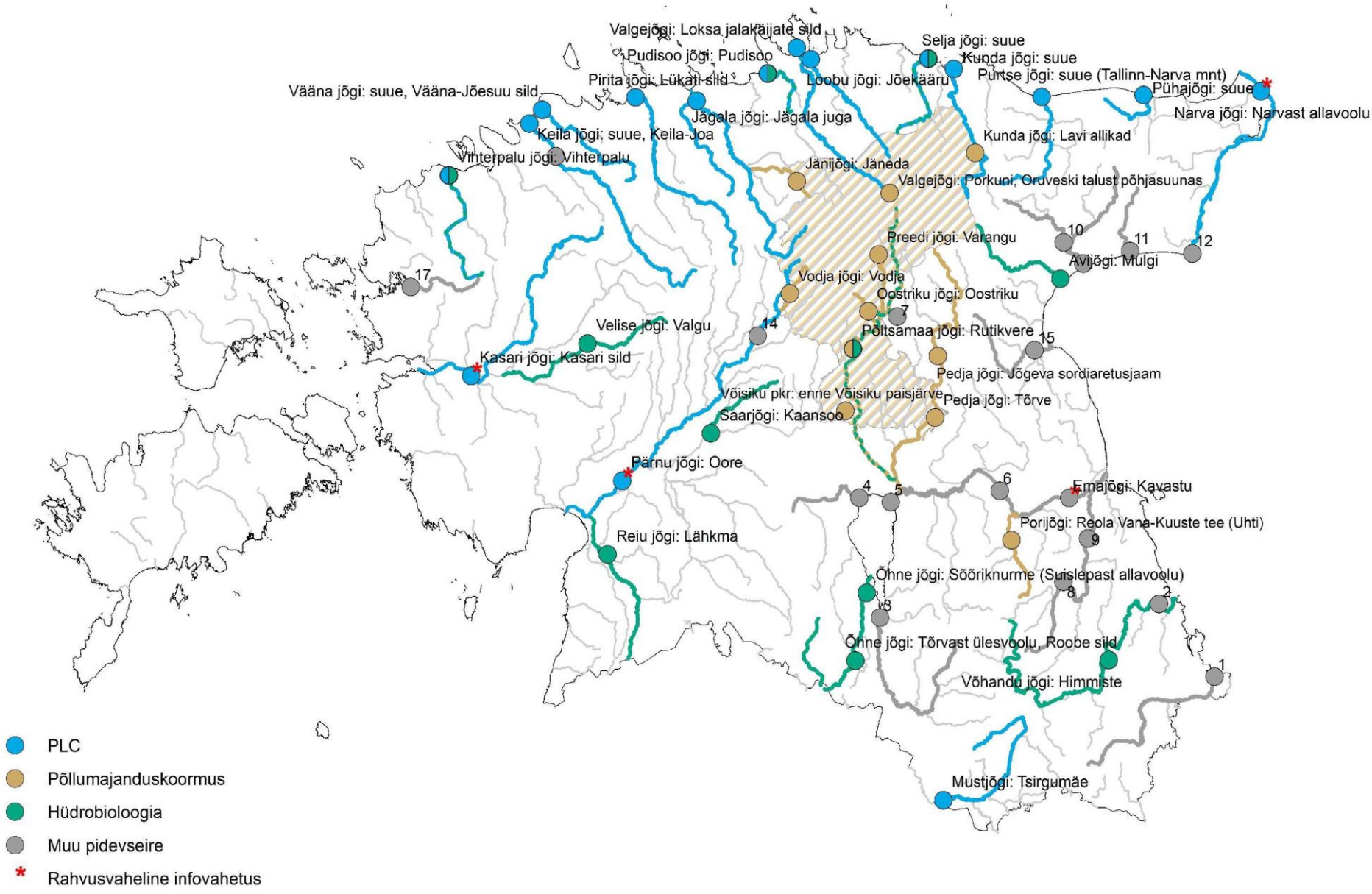
12 - 22

WFD monitoring plan 2016-2021

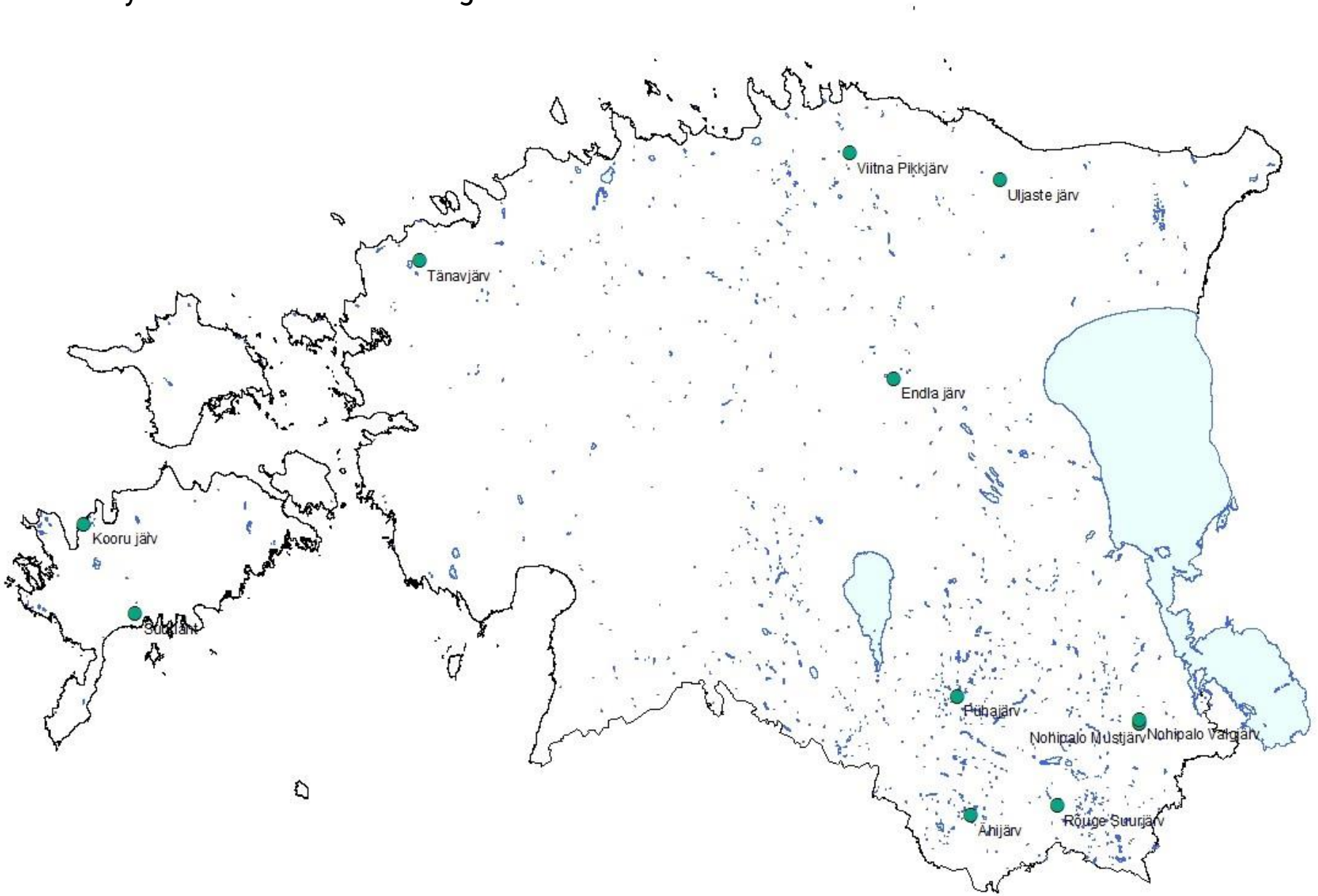
1. Surveillance monitoring
2. Operational monitoring
3. Investigative monitoring
4. Additional monitoring in protected areas

- **Ecological quality elements monitored**: phytoplankton, zooplankton, fishes, phytophentos, zoobenthos, macrophyts, fishes
- **Chemical parameters for chemical state assessment**: 31.12.2015 Regulation of the Ministriy of the Environment nr 77 para 3 parameters
- **Supportive quality elements measured** - physio-chemical parameters, specific substances and, hydromorphology

Annual hydro-chemical monitoring



Annual hydro-chemical monitoring



Programme of Measures

Administrative
Technical
Consultative
Research-related

Basic measures
Supplementary measure

2.6 million euros for Koiva

- Substantial pressure sources
- The measures were determined at the level of the water bodies
- Exception -> cross river basin district measures

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Thank you!

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