

The logo consists of a white circle containing the text "VAIKUTA VESIIN" in white, uppercase, sans-serif font. The circle is positioned on the left side of the slide, above a decorative white wavy line that spans the width of the slide.

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# VHS-NEWS

Petri Liljaniemi, Ministry of Environment, Finland

Nordic WFD Conference 2019,

Workshop 5, Session 2

Vaasa 22.5.2019

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Ministry of the  
Environment

Ministry of the  
Agriculture and Forestry

Finnish  
Environment  
Institute  
(SYKE)

Natural Resource  
Institute Finland  
(LUKE)

15 Centres for Economic Development,  
Transport and the Environment

8 River Basin Districts and RBMP

30 Program of Measures



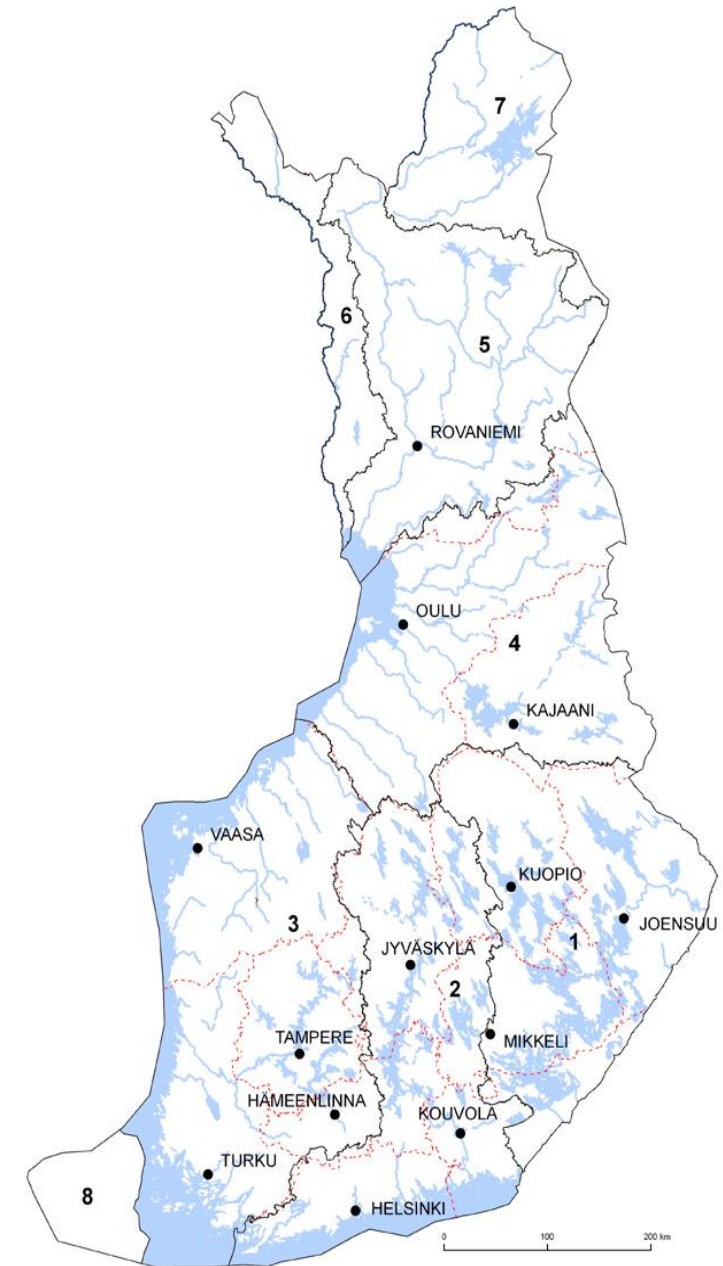
# Finland's eight river basin districts (RBD's)

1. **Vuoksi RBD**
2. **Kymijoki-Gulf of Finland RBD**
3. **Kokemäenjoki-Archipelago Sea- Bothnian Sea RBD**
4. **Oulujoki-Iijoki RBD**
5. **Kemijoki RBD**

Two international river basin districts (*IRBD*) have also been designated covering parts of Finland:

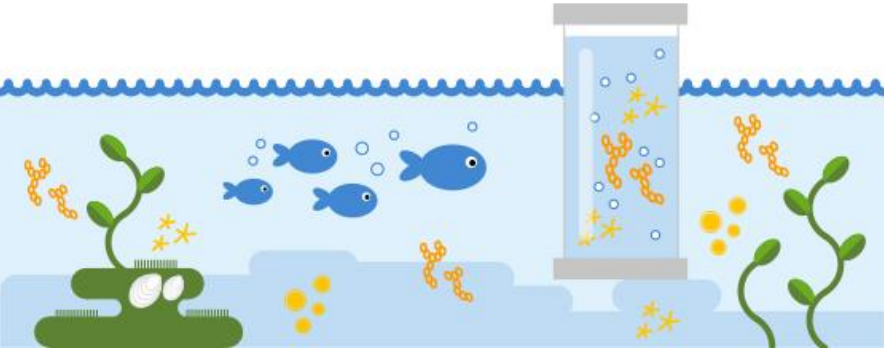
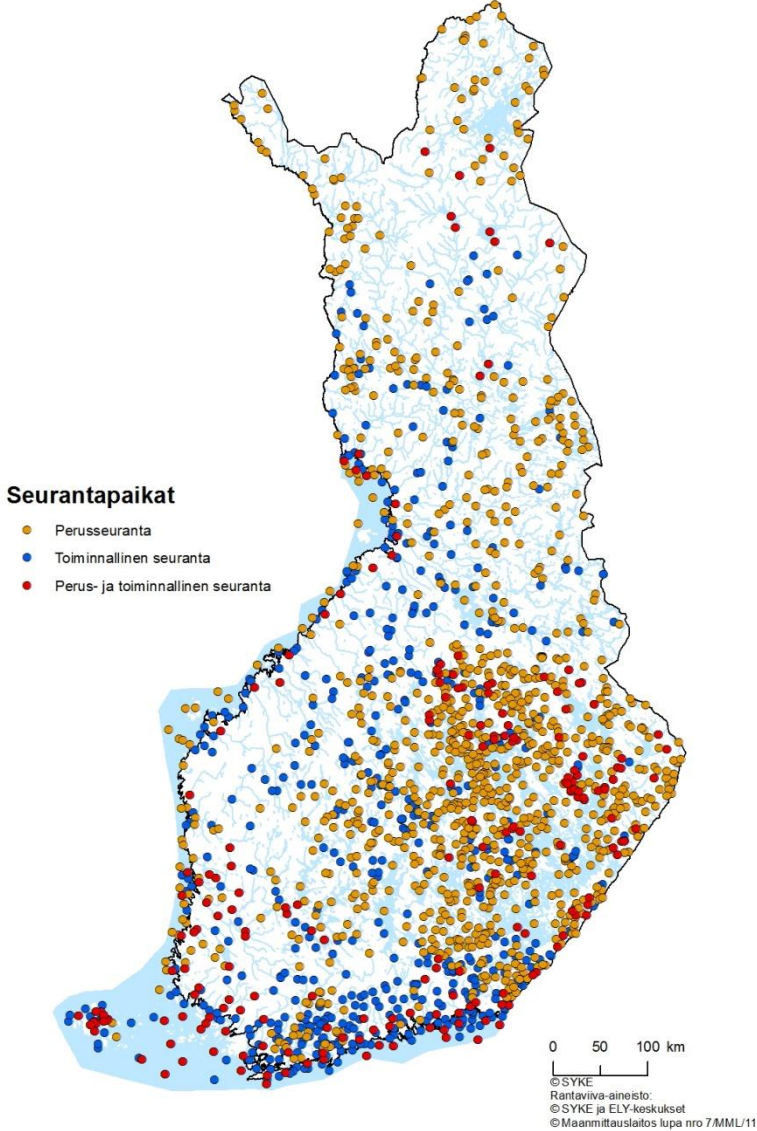
6. **Tornionjoki IRBD** (shared with Sweden)
7. **Teno, Näätämöjoki and Paatsjoki IRBD** (shared with Norway)

8. A separate RBD has been defined to cover the autonomous **Åland Islands**, where the WFD is being implemented by the provincial government.



# Number of water bodies and monitoring stations

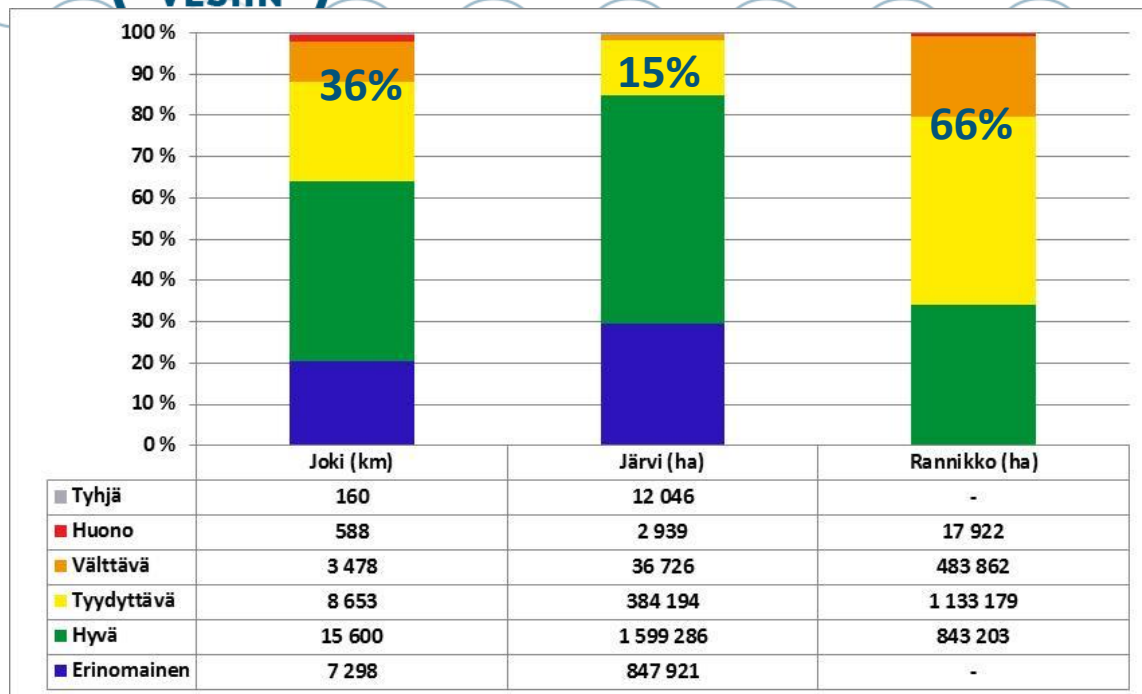
Surface water category	WFD 2015	
	sites	water bodies
Lakes	1637	4603
Rivers	962	1913
Coastal	259	276
Ground-waters	442	3511



# Ecological status of surface waters

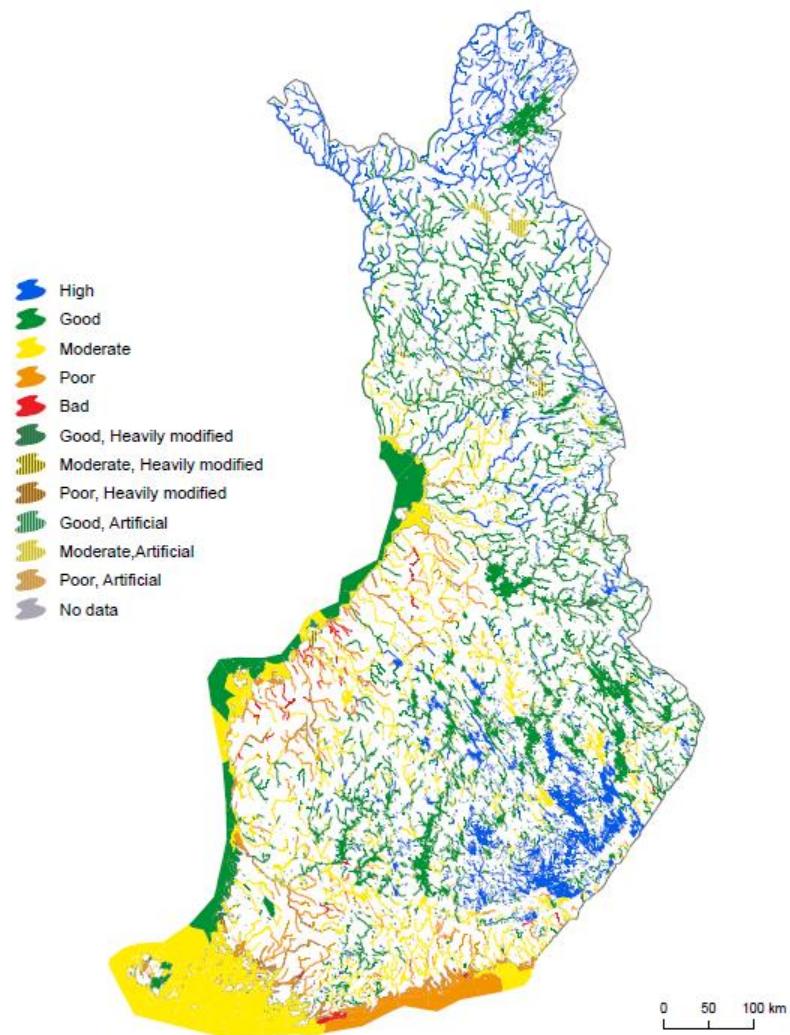
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by proportion of total length (rivers) or surface area



- New status classification will be finalized in 30.6.2019 and published in August 2019

Ecological status of surface waters 2015



Classification is based on data from years 2008-2012.  
© SYKE, Luke, ELY-centres, Ålands landskapsregering, MML



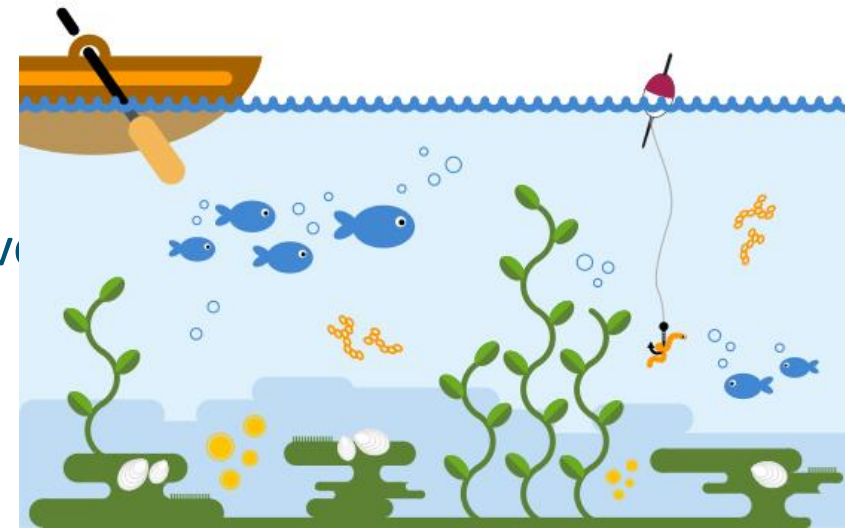
# Ground waters

- 3794 groundwater bodies
  - 377 GWB's at risk not achieving good status
  - 3 poor quantitative status
  - 96 poor chemical status
- Commission feedback:
  - monitoring coverage (especially quantitative monitoring)
  - grouping (basis for grouping was unclear)
- Goals for 3<sup>rd</sup> RBMP
  - improve trend assessment with a statistical method
  - find a way to increase the number of monitoring sites



# Commission feedback from 2nd Cycle

- Strengths
  - Public participation and international co-operation
  - Improved coverage and reliability of classification and monitoring
  - Enhanced knowledge about groundwater
- Weaknesses
  - Coverage in biological data
  - Hydromorphology and Chemical monitoring should be developed
  - Justification for exemptions
  - Pressures-Measures connection



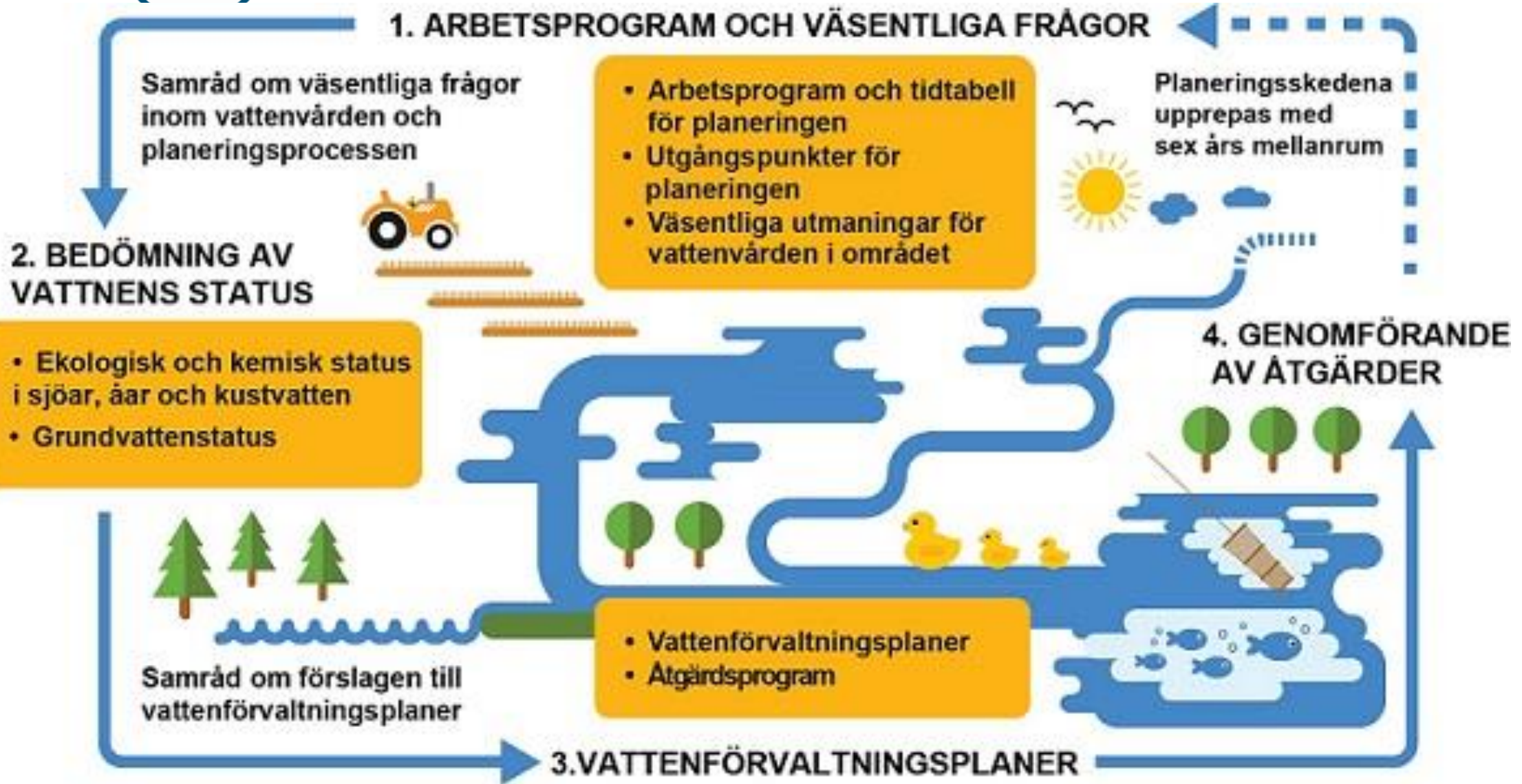
An aerial photograph of a river basin. The foreground is dominated by vibrant green agricultural fields. A road winds through the middle ground, leading to a small farmstead with several buildings. To the right, a dense forest of tall trees borders a large, calm blue lake. The background shows more fields and distant hills under a clear sky. A decorative white wavy line runs across the top of the image, and a circular logo is in the upper left corner.

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# River Basin Management



# Coordination with RBMP:s

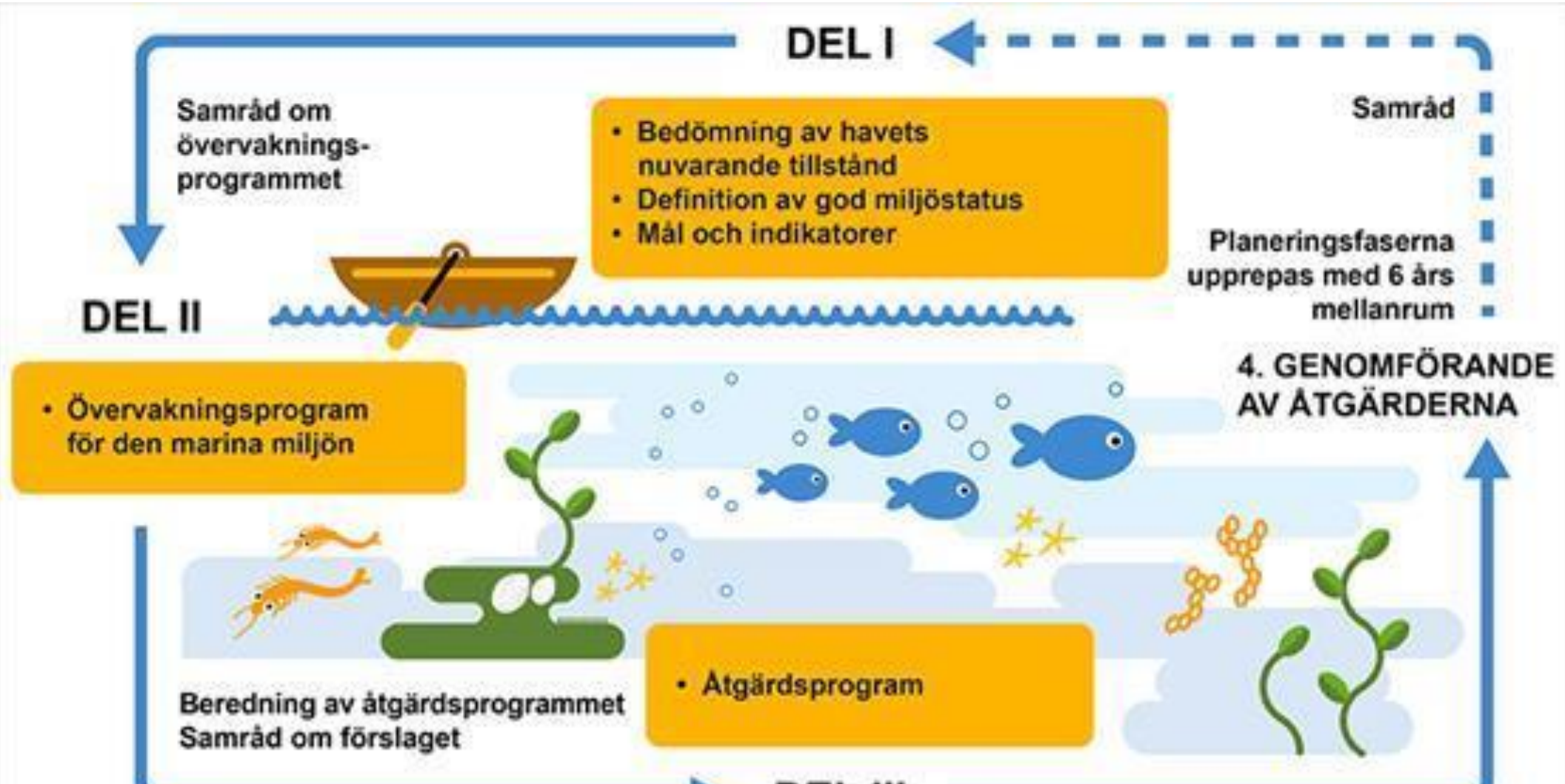


An aerial photograph of a sandy beach with shallow, rippling water. Four people are visible: one standing on the sand, and three in the water. Two of the people in the water are wearing colorful inflatable rings. Long shadows are cast on the sand. A white wavy graphic line runs across the top of the image. In the top left corner, there is a white circle containing the text 'VAIKUTA VESIIN'.

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# Marine Strategy Management

# Coordination with Marine Strategy

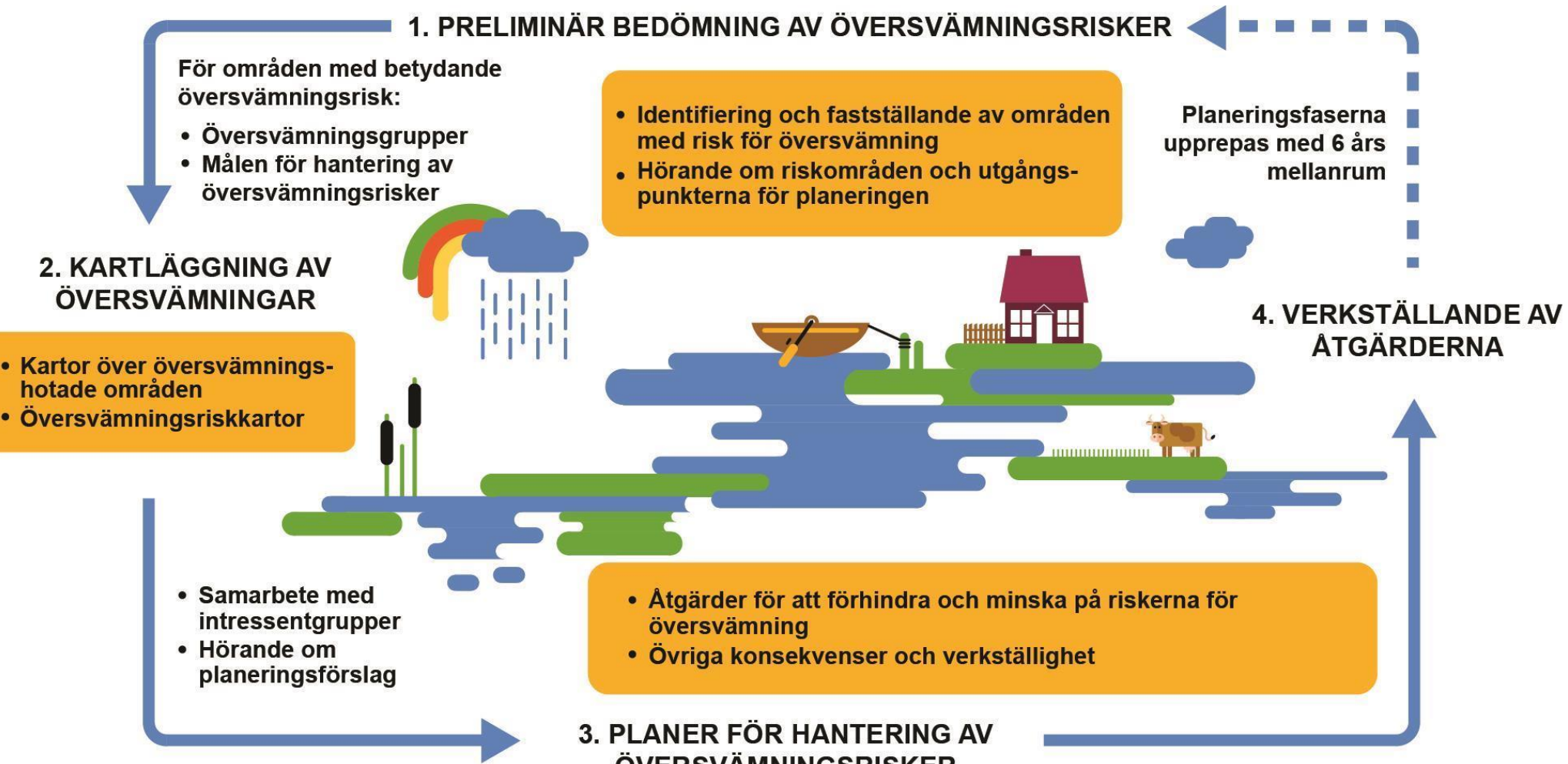


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# Flood Risk Management



# Coordination with Flood Risk Management



# RBMP for 2022-2027

Updates the RBMP's:

- no changes to principals of characterization, typology and classification of waters
- Preliminary status assessment calculated in SYKE, final confirmation of status in regional level
- New supporting data from remote sensing data in lakes and coastal waters.
- New principles and criteria for significant pressures and risk assessment of ground waters
- New priority substances and updated threshold values included in Chemical classification
- Modifications on status assessment of Heavily Modified Waters

1<sup>st</sup> public hearing began 1.8.2018 together with Marine Strategy Planning



Select: ▾ 2017

S2A, 23.07.2017 00:00 UTC

Enlarge map to a new window

61.51794, 21.07353

- Satellite image
- Drainage basins (proposition)
- WFD coastal regions
- WFD lakes



[syke.fi/tarkka/en](http://syke.fi/tarkka/en)

### True color images (RGB)

- RGB: 23.08.2017 09:47:29 UTC, LC8
- RGB: 23.08.2017 09:47:05 UTC, LC8
- RGB: 21.08.2017 09:59:02 UTC, LC8
- RGB: 17.08.2017 00:00:00 UTC, S2
- RGB: 14.08.2017 10:00:29 UTC, S2**
- RGB: 14.08.2017 09:52:50 UTC, LC8
- RGB: 12.08.2017 00:00:00 UTC, S2
- RGB: 11.08.2017 09:23:30 UTC, LC8
- RGB: 09.08.2017 09:35:51 UTC, LC8

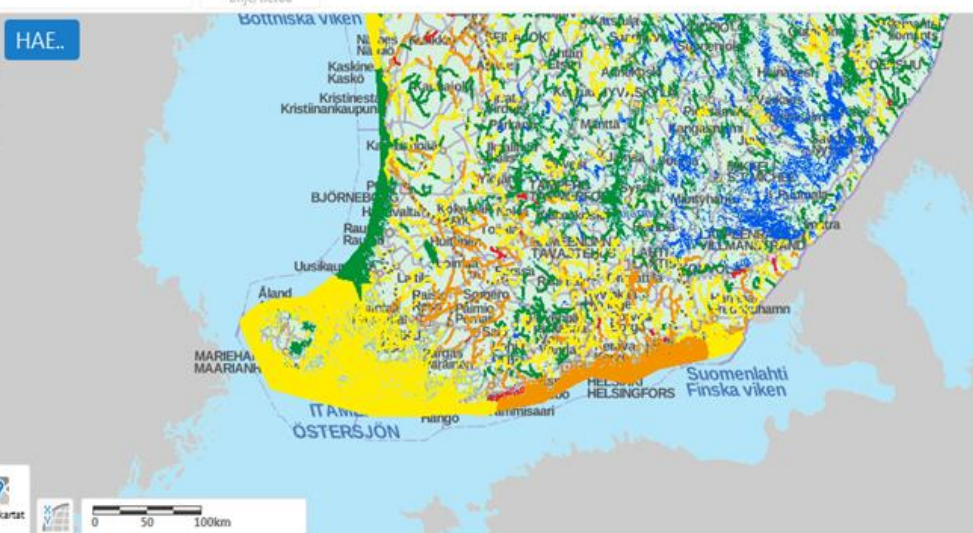


työkalut

Navigation and tool icons: Siirrä, Lähennä, Loitonna, Kokoalueen rajaus, Alkuperäinen rajaus, Kohteen tiedot, Jaa, Tietoa vesien tilasta ohje/tietoa

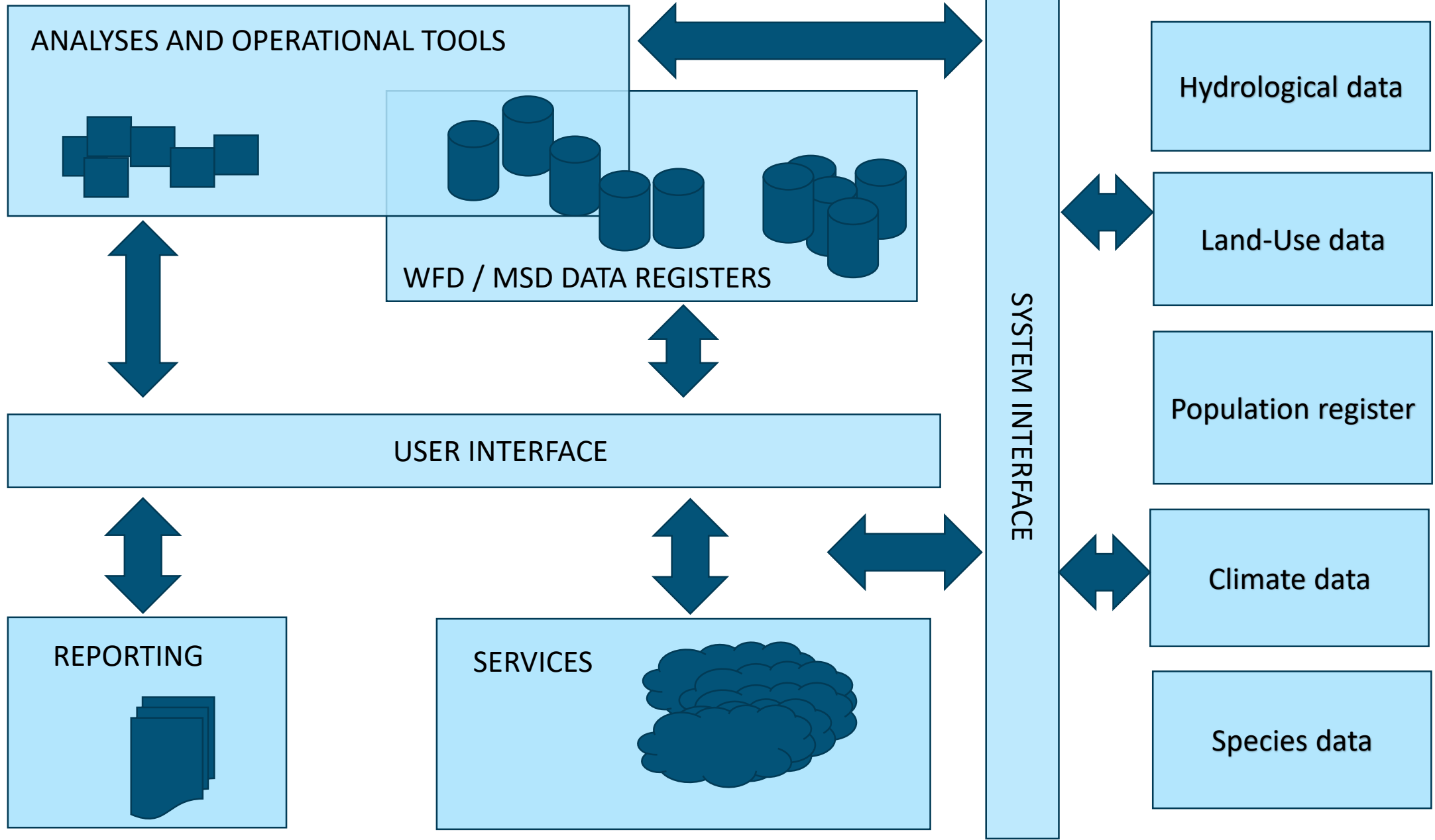
Karttatason valinta: HAE...  
 Pintavesien tila ja seuranta  
 + Kemiallisen luokittelun taso 2013  
 + Ekologisen tavoitetilan saavuttaminen 2013  
 + Kemiallisen tavoitetilan saavuttaminen 2013  
 - Maastokartta  
 - Taustakartta  
 - Merikartta

# New tools



Images may be freely used for publication but must be accompanied by attribution text for Sentinel 2 (S2) images:  
 "Original images: ESA Copernicus Sentinel Data, processed: SYKE".  
 Click on the map to get feature info.  
 More information: [group@ymparisto.fi](mailto:group@ymparisto.fi), [group=eotuki.syke]  
 Direct address: [syke.fi/tarkka/en](http://syke.fi/tarkka/en)

# NEW DATA MANAGEMENT SYSTEM





# Programme of measures in 2021-2027

- Process
  - Updating the toolbox in national level: Sector teams with experts and stakeholders DL 9/2019
  - Data management system under development
  - Planning process in regional level begin (end of 2019)
- Main principles:
  - No major changes in the measures, evaluation of impacts or cost/benefits
  - Clear connection between measures and pressures and between national and KTM
  - Special attention to: monitoring of indicators, hazardous substances, connection with marine strategy and flood risks and adaption to climate change.
  - Stakeholder involvement and perspective to improve the implementation.



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# Progress in implementation of PoM- Visualisation project



Will be pulished in June 2019

Sectors



RBM regional measures



Front page



RBM National level measures



MS PoM



MS measures



## Water related meetings in

# EU2019.F

- Water and Marine Directors Meeting 25.-26.11.2019, Helsinki
- CIS Groundwater Working Group Meeting and Joint Workshop of Groundwater and Drinking Water experts 14.-16.10.2019, Helsinki
- Network of European Environmental Lawyers (NEEL) Conference 20.9.2019, Helsinki

**Welcome to Finland!**



# Digitalization and new data sources

- Several EU-Commission Projects address the adoption of digitalization and new monitoring methods
- Idea of "digital review of environmental Directives" raised in seminars and workshops
- Finland Promotes new Satellite solutions for water quality classification during EU-presidency
  - Several presentation and sessions in Conferences and Seminars: Arctic Seminar, Space Week



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**Thank You!**