EU Green Week PARTNER EVENT

Urban and sustainable water solutions: tackling key challenges in the Nordic capital regions

#EUGreenWeek #NordicRegions #WaterWiseEU

















Agenda

10.00	Welcome Mr. Janne Leino, Director, Helsinki EU Office
10.02	Welcome by moderator Ms. Louise Coffineau, Senior Policy Advisor Environment, Eurocities
10.05	Keynote Ms. Silvia Bartolini, Head of Unit Marine Environment and Clean Water Services, DG Environment
10.25	How we contribute to a clean and healthy Oslofjord Ms. Solveig Schytz, Councilor for planning, cultural heritage, climate and environment, Akershus County
10.40	How to manage a rising sea level and lake water within a city Mr. Peter Svärd, Project Director and Ms. Lisa Jacobsson, Deputy Project Director, from the project "The New Slussen"
11.00	PFAS challenges and solutions from a regional perspective. Mr. John Flyvbjerg, Chief Consultant Environment, Capital Region of Denmark
11.15	Adapting to the changing climate in Helsinki Ms. Hanna Wesslin, Climate Director, City of Helsinki
11.30	Panel discussion and Q&A
11.55	Concluding remarks by moderator Ms. Louise Coffineau, Senior Policy Advisor Environment, Eurocities
12.00	Networking lunch



STOCKHOLM REGION







Keynote

Ms. Silvia Bartolini, Head of Unit Marine Environment and Clean Water Services, DG Environment, European Commission





Urban and Sustainable Water Solutions

EU Green Week Nordic partner event

Silvia Bartolini – DG ENV, 30/05/2024

European Green Deal and Water



UWWTD - from evaluation to revision

The Directive

Collection

Treatment

Monitoring & Reporting

Room for improvement

Remaining pollution

Eutrophication

Energy use, sludge management

transparency/reportin

Coherence with other legislation

New Directive

Requirements for storm water, individual systems etc.

Stricter nutrient measures

Quaternary treatment for micropollutants

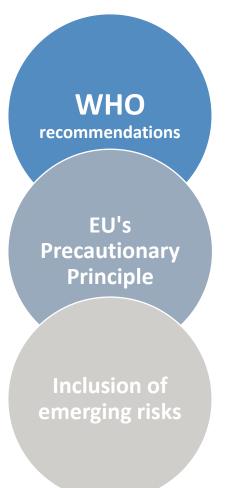
Improved monitoring

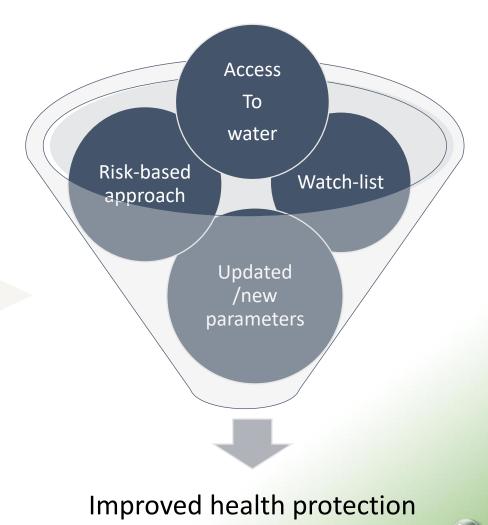
Better coherence with other legislation



Recast Drinking Water Directive –

What's new?





Materials in contact with drinking water

Implementing Acts (IA) :

- Establishing the European positive lists
- Methodologies for testing and accepting starting substances to be included in the EU positive lists
- Procedures and methods for testing and accepting final materials as used in a product

Delegated Acts (DA) :

- Procedure to include substances in the EU positive lists
- Conformity assessment procedure for products
- Harmonised specification for a marking of product



Water leakage rate in the recast DWD



Source AWWA

- Member States shall make an assessment of the leakage levels in their distribution networks
- Member States shall communicate assessment results to COM by Jan 2026
- COM will set a leakage threshold value (TV) by Jan 2028
- Member States leakage value > TV then MS action plan is needed 2 years after setting TV
- New provisions on public information includes leakage rates

Provisions on PFAS in the recast DWD

- Member States have until January 2026 to ensure the monitoring of PFAS and ensure that the drinking water complies with the parametric values set for PFAS: 'Sum of PFAS' (100 ng/l) or 'PFAS Total (500 ng/l)
- Member States can add additional parameters and/or set more stringent parametric values in transposed national legislation
- By Q2 2024: COM shall establish technical guidelines regarding methods of analysis for monitoring PFAS'
- For the future, work ongoing with WHO / ENV contract (2024 2026):

 Phase 1: identification relevant PFAS in DW + development in-depth HH assessment methodology (2024)
- Phase 2: recommendations on health-based guidance values for relevant PFAS in DW (2024 2026)
- Study on PFAS removal from DW (and UWW) + feasibility of an EPR scheme

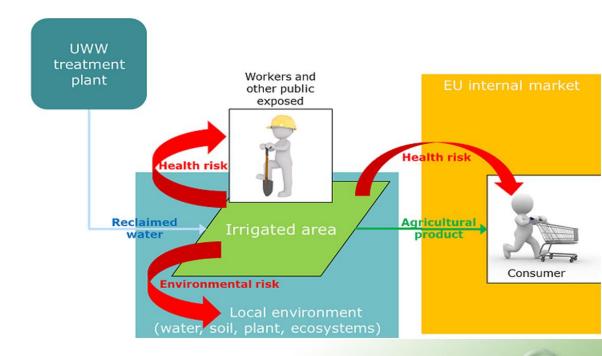
Water Reuse Regulation (EU) 2020/741

Aims:

- address water scarcity and drought
- increase efficiency in the use of resources
- safeguard public health and the environment

The Regulation:

- regulates water reuse in agricultural irrigation
- fit-for-purpose instrument different quality classes
- origin of water for reclamation water already treated up to Urban Waste Water Treatment
 Directive standards





But also:

Industrial Emission Directive (EID)

Sustainable Products Regulation (ESPR)

.....and still under discussion:

Revision of the list of pollutants (ground and surface waters)



Various uses, demands, pressures and impacts. Water is a cross-cutting issue



INCREASING WEATHER EXTREME EVENTS







March 2024 – **EU Climate Risk Assessment** (EEA):

'Europe is the fastest-warming continent in the world. Extreme heat is becoming more frequent, while downpours and other precipitation extremes are increasing in severity. These events, combined with other social and environmental risk drivers, threaten food, water and energy security'.



European policy context





European Council - March 2023

It acknowledged "[...] the need for enhanced EU and global action on water and the importance of a strategic EU approach to water security"

European Parliament

- ✓ Resolution on droughts in 2022
- √ 2 plenary discussions on water crisis in 2023

European Economic and Social Committee

✓ Call for a **EU BLUE DEAL**





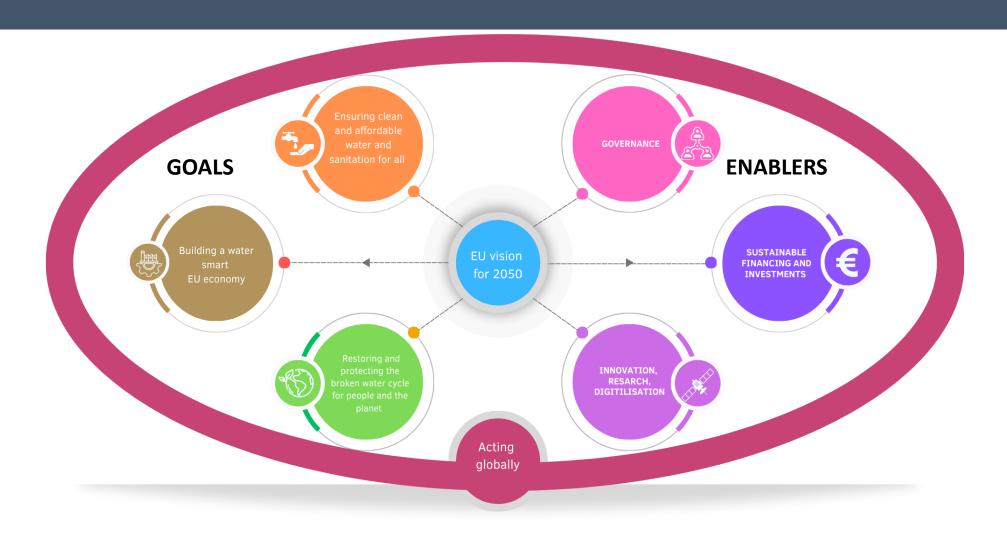
The EU vision for 2050 Water Resilience endorsed by the College

"In 2050, global society will be water resilient, offering water security for all.

This entails the protection and restoration of aquatic ecosystems, and a fair balance between water supply and water demand responding to current needs, including the realization of the human right to safe drinking water and sanitation,

without compromising the rights of future generations."

« Towards EU Water Resilience »



Next steps

- 1. <u>#WaterWiseEU</u> communication campaign to raise awareness "See Water Differently" soft launch on 22.03.2024, World Water Day full launch on 29.05.2024
- 2. Green Week on Water Resilience (29-30 May), with partner events from 29 May to 1 September
- 3. Commission assessment **report on implementation of the Water Framework and the Floods directives**, as well as Programme of Measures under the **Marine Strategy Framework Directive**; & the **EEA's "State of European waters 2024"** report (Q2/Q3 2024);
- 4. Forthcoming evaluations of the Marine Strategy Framework, the Nitrates and Bathing Water Directives.
- 5. Internationally, World Water Forum (May 2024), One Water Summit (September 2024) and CBD COP16 (October 2024).

How we contribute to a clean and healthy Oslofjord

Ms. Solveig Schytz, Councilor for planning, cultural heritage, climate and environment, Akershus County





How we contribute to a clean and healthy Oslofjord

Ms. Solveig Schytz
Vice Mayor for planning, cultural heritage,
climate and environment, Akershus County, Norway



Our contribution in solving the Oslofjord challenges

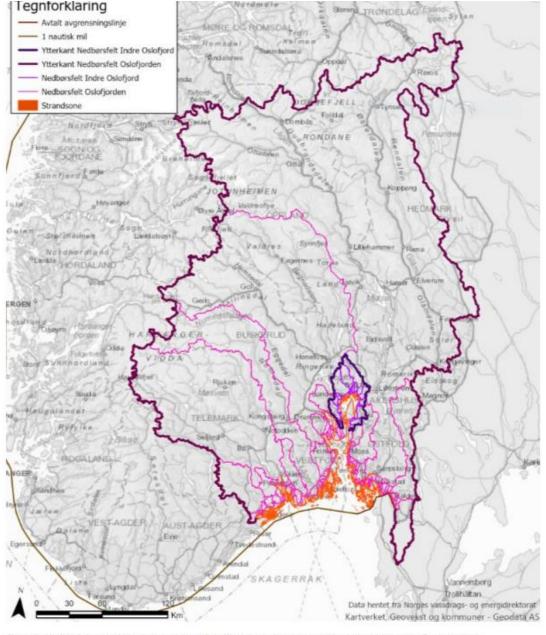
These challenges are among our most important regional cross-political priorities in Akershus

In short our priorties are to:

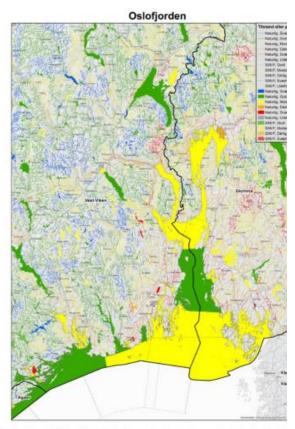
- ❖Intensify our contribution in following up The National Action Plan for The Oslofjord
- Strenghten cross sectoral interaction and management between levels and branches
- Increase our ambitions and investment funds in the years ahead
- ❖ Increase and fill in the gaps through collaboration and actions

The Oslofjord catchment area and Akershus County

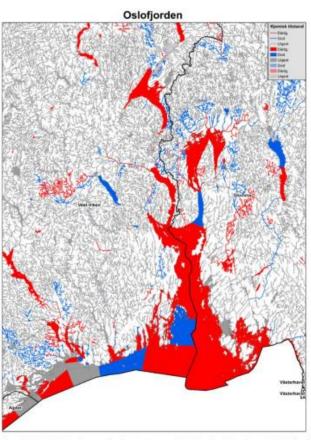
- The goal is «good ecological water conditions» by 2027 in the whole catchment area – in rivers and the fjord
 - Most probably extended to 2033
- Turn around the situation where the public have no access to 71% of the coastline in inner parts of the Oslofjord.
 - 1,6 of Norways 5,5 million inhabitants live close by the Oslofjord



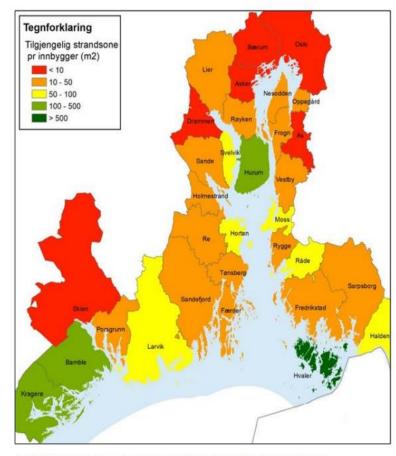
Figur 4: Nedbørfeltene til hhv Indre- og Ytre Oslofjord samt, kystsonen (100m beltet i oransje). Brun strek er



Figur 5a: Viser hhv økologisk- og kjemisk tilstand pr vannfarekomst etter vannfarskriftens kvalitetsel Oslafjorden. Tatt ut av Vann-Nett pr 31. oktober 2019. (Økologisk tilstand: bld = svært god tilstand, tilstand, gul = moderat tilstand, oransje = dårlig tilstand, rød = svært dårlig tilstand. Kilde: Vann-Ne

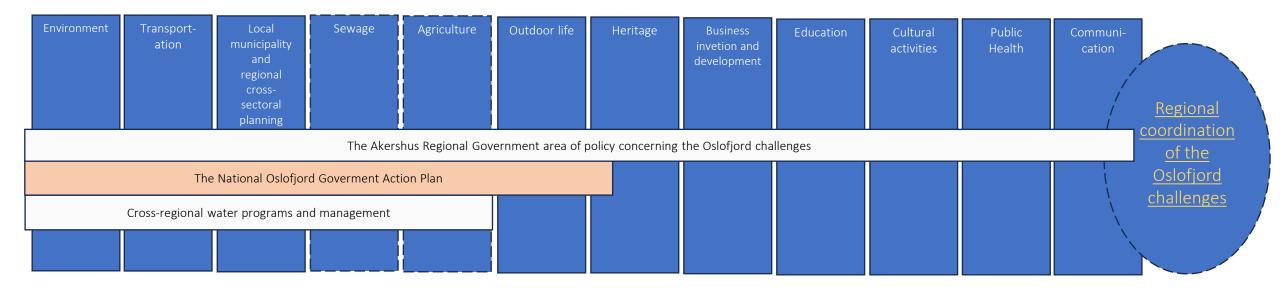


Figur 5b: Viser hlv kjemisk tilstand pr vannforekomst etter vannforskriftens kvalitetselementer i Oslofjorden. Tatt ut av Vann-Nett pr 31. oktober 2019. (Kjemisk tilstand: blå = god tilstand, rød = dårlig tilstand). Kilde: Vann-Nett.



Figur 9: Tilgjengelig landfast areal per innbygger i 100-metersbeltet. Kilde: SSB Statistikkbanken.

Similarities and differences in the national and regional scopes meeting the Oslofjord challenges



Regional contribution to the National Government Action Plan



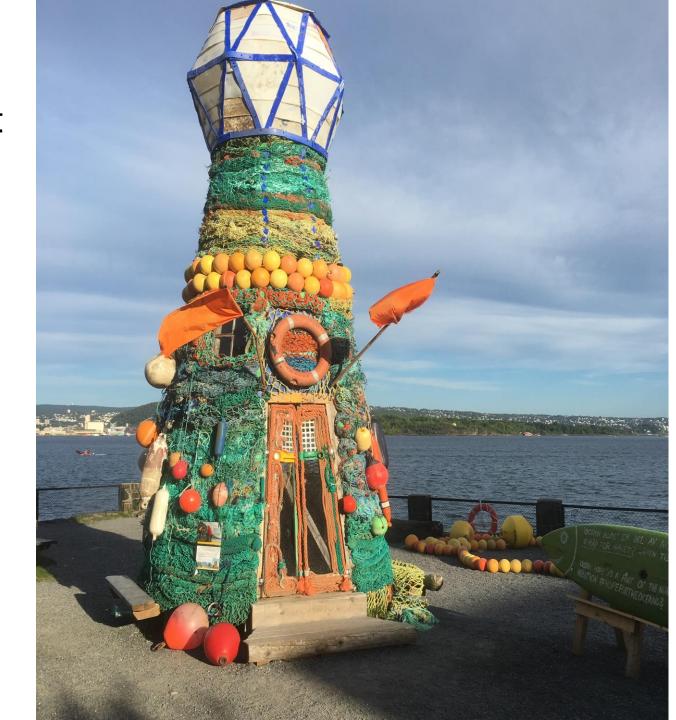
 Strenghten our capasity and coordinate our responibilities in carrying out the National Action Plan on the regional level

 Use our role in enhansing regional sustinable development in all policy areas

 Expose and utilize our underdeveloped possibilites of leverage and means

In addition our County Government is contributing even more to a clean and healthy Oslofjord

- Akershus County builds on all the SDGs to define our contribution, with emphasize on the Planetary Boundaries
- The County Government gives The Oslofjord high priority in the 2023-2027 Political Platform
- And of course, in our regional planning, which for many areas will be in cooperation with Oslo, the Oslofjord will be central in many aspects.



In addition our County Government is contributing even more to a clean and healthy Oslofjord (2)

In more detail The County Government and administration is

- Helping local authorities in their caretaking of vegetation zones, rivers, streams and wetland, and avoiding interventions
- Contributing to that peoples outdoor activities have longlasting access to the fjord
- Contributing to redused reduction of natural areas along the coast and establish new areas for conservation
- Giving regional support to national expectations in the holistically planning of land and sea areas locally
- Contributing to the Norwegian fullfilment of The Kunming-Montreal Global Biodiversity Framework

The Oslofjord fund 2024 – the main objectives

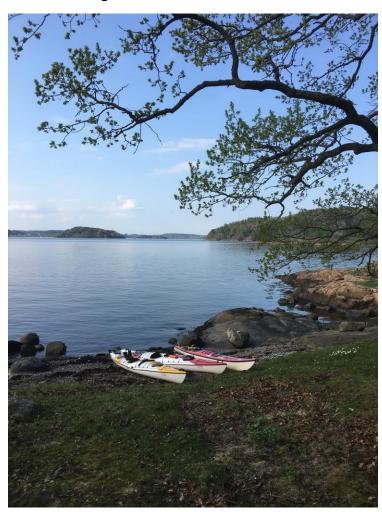
To spend 25 million NOK this year as a startup of our long term investment fund and increase the sum every year

Accelleration and increased collaboration in projects with the aim

- To contribute to a clean and healthy Oslofjord
- To contribute to better access for everyone to The Oslofjord

Our aproach:

- Removing negative impact from the whole catchment area, rivers and in the fjord
- Reinforcing positive impacts
- Mobilization of engagement and support in the catchment area
- Ensuring necessary fundings



We aim to increase our collaboration with partners and authorities on:

- Regional and local watermanagement
- Transportation
- Agriculture
- Sewage management
- Access to the Oslofjord
- Co-creative comminication
- Cross-sectoral collaboration
- Better and more efficient use of our invesment funds and financial support







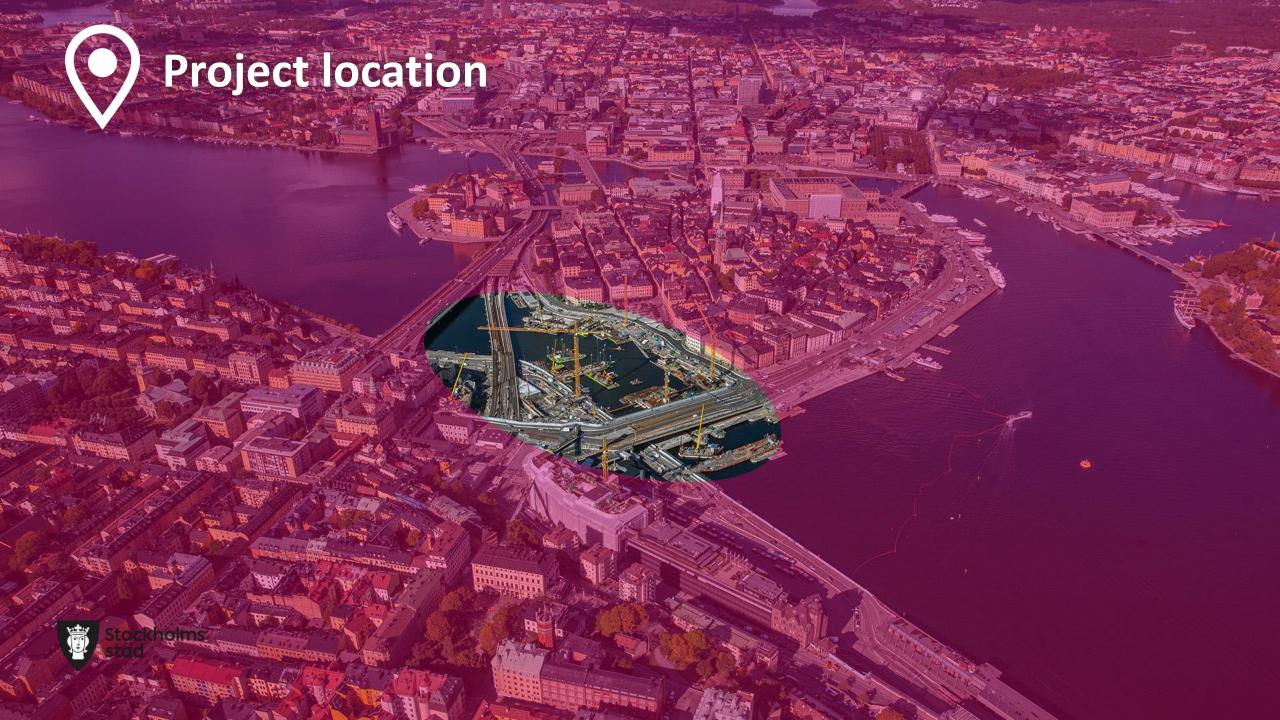
How to manage a rising sea level and lake water within a city

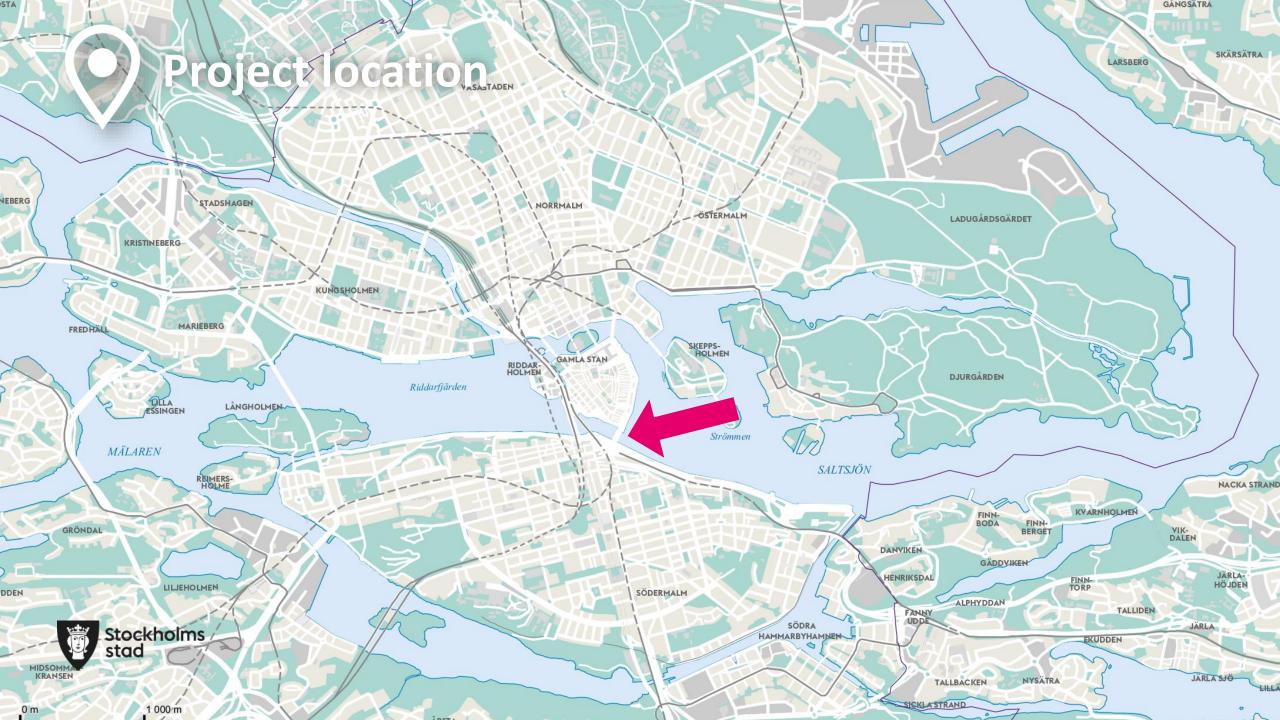
Mr. Peter Svärd, Project Director and Ms. Lisa Jacobsson, Deputy Project Director, from the project "The New Slussen

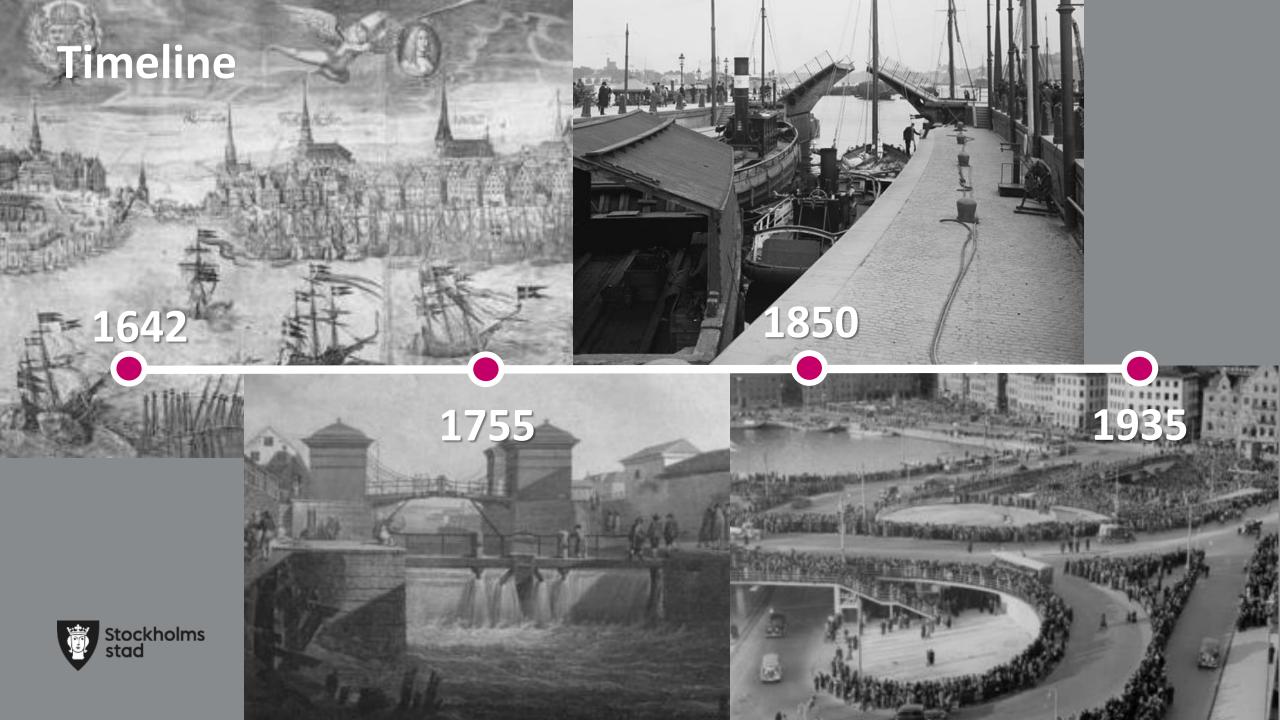














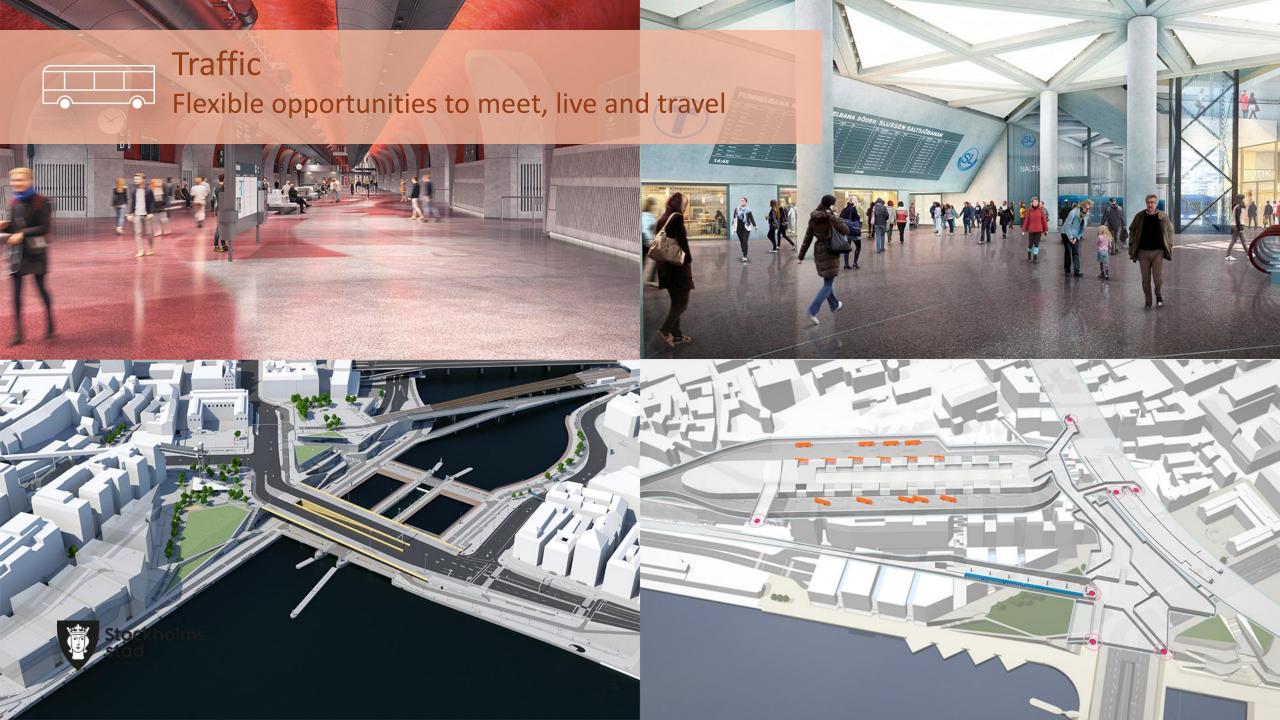




New underground bus terminal



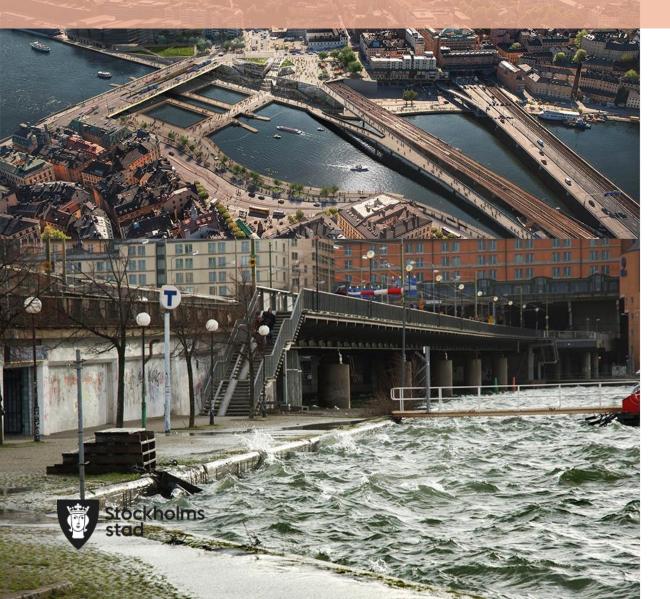






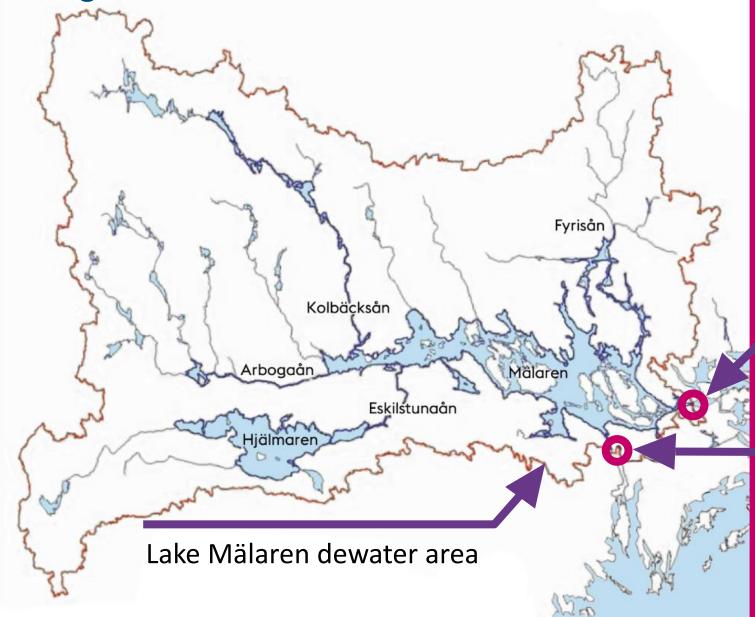


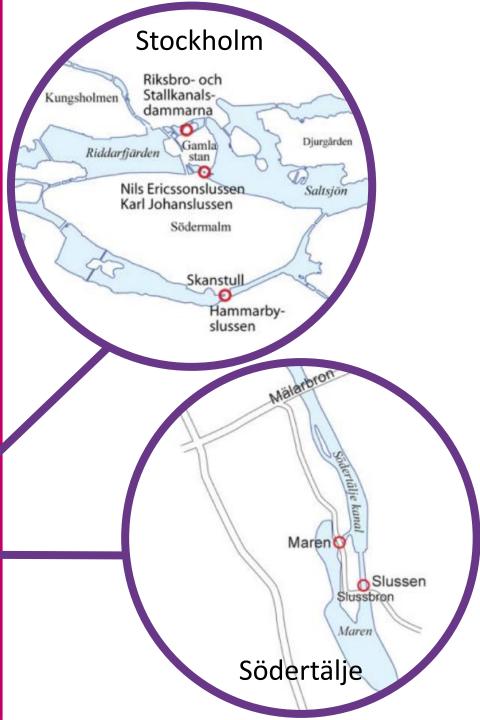
Assure potable water for the region and safeguard infrastructure and buildings





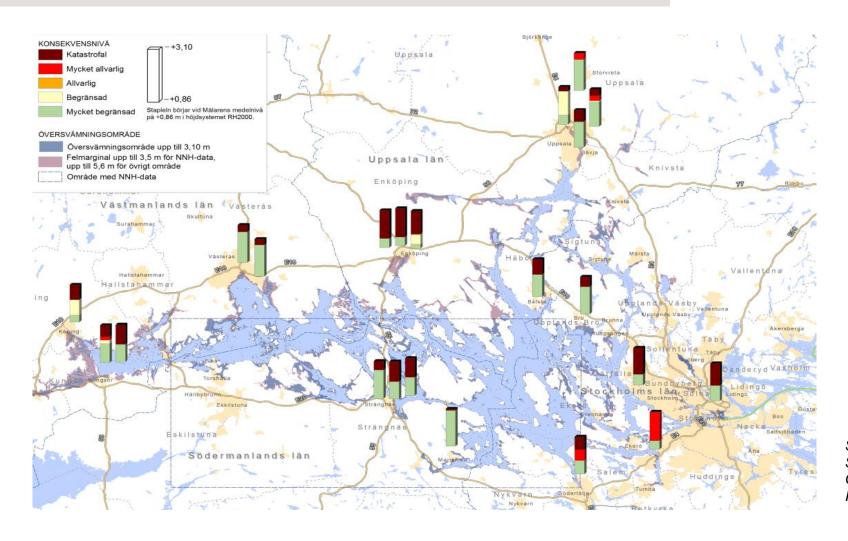
Lake Mälaren A regulated lake since the 1940's







Severe consequences around the lake Impact on important public functions



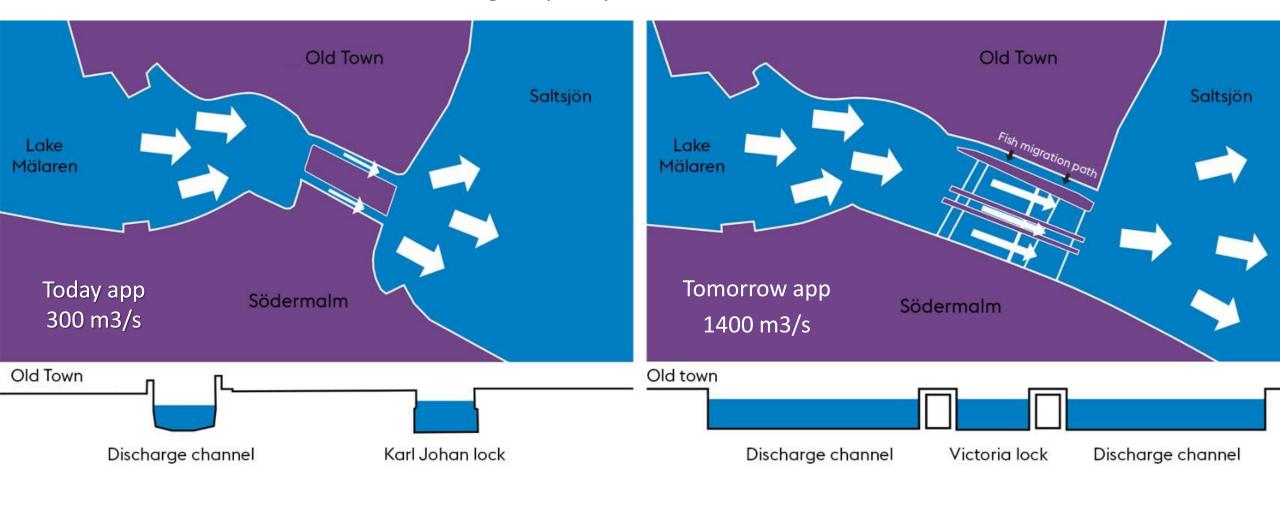


Source: Swedish Civil Contingencies Agency Fö2010/560/SSK



Increased ability to regulate the water level

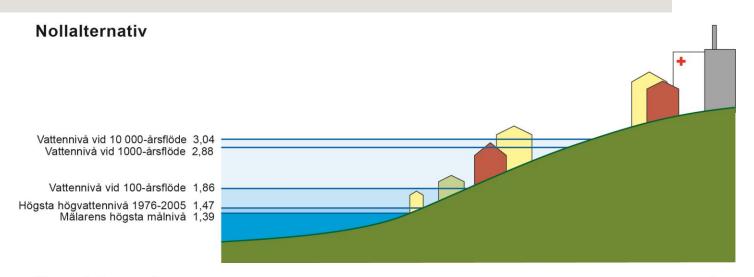
The new Slussen has 5 times the discharge capacity



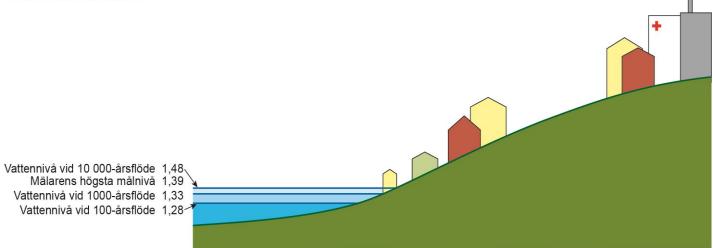


A good safety margin according to SMHI*

*Swedish Meteorological and Hydrological Institute











Improved conditions for the natural environment













Provides vital ecosystem services and other values



6 counties, 40 municipalities within the watershed

Source of drinking water for more than 2 million people

Waterfront cities, cultural sites, industries and infrastructure





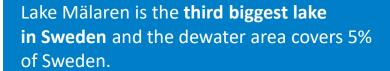


Fertile agricultural land and commercial fishing

Wetlands of national importance and high recreational value

About 70 Natura-2000 areas, of which 20 are in shoreline locations

Waterway and harbors of national interest







OECD highlights the climate adaptation in the Slussen project



The OECD highlights the climate adaptation in the Slussen project in their report "Climate-resilient infrastructure -GETTING THE POLICIES RIGHT".

The report provides a framework for governments to ensure that existing and new infrastructure is climate-adapted.

→ http://oe.cd/1U9





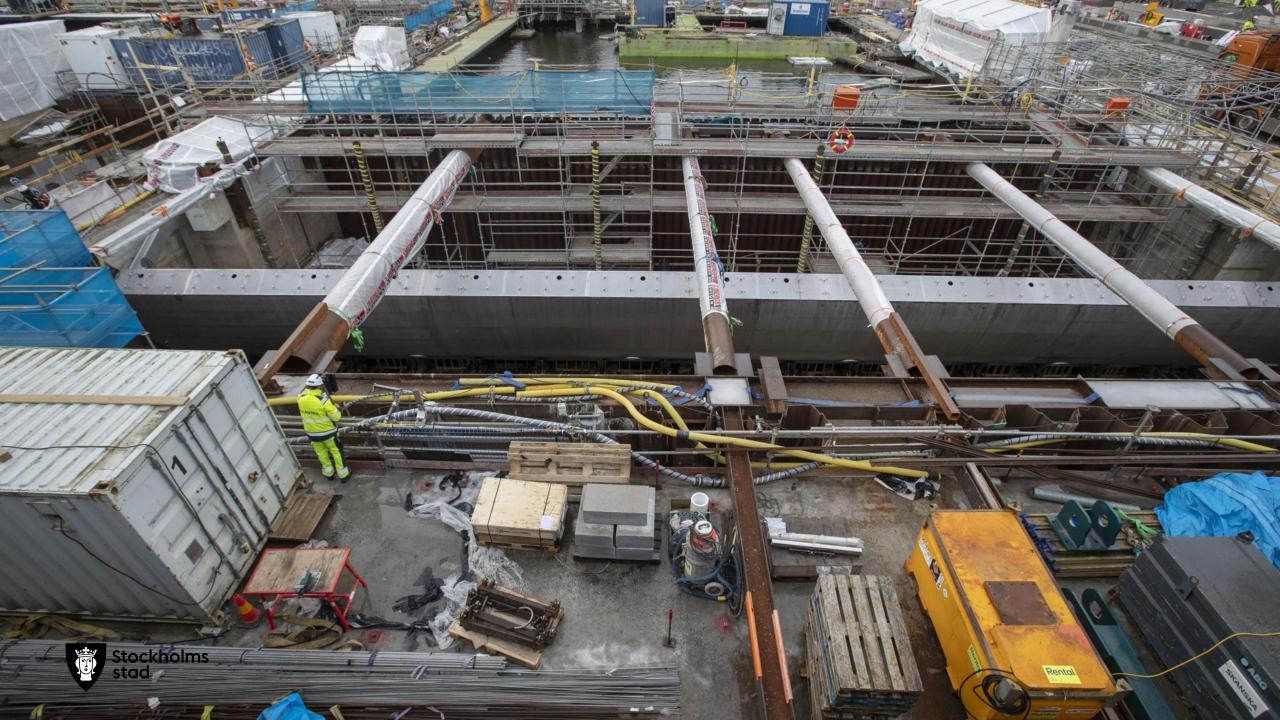






















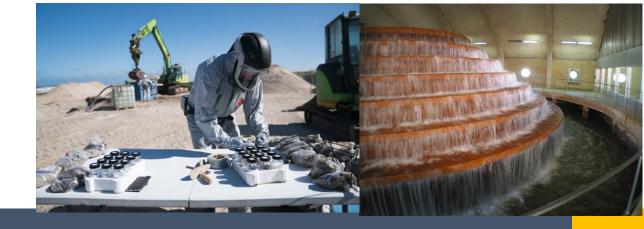




PFAS challenges and solutions from a regional perspective

Mr. John Flyvbjerg, Chief Consultant Environment, Capital Region of Denmark





PFAS challenges and potential solutions seen from a regional perspective

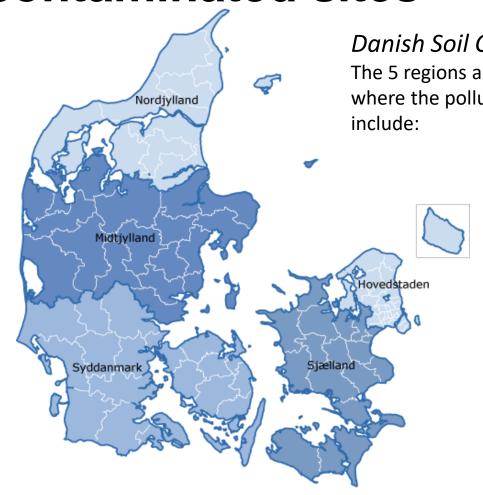
Urban and sustainable water solutions - tackling key challenges in the Nordic capital regions

EU Green Week 2024 Partner Event May 30, 2024

John Flyvbjerg¹, Niels Døssing Overheu¹ and Julie Kofoed² 1: Dept. for Environment, Centre for Regional Development Capital Region of Denmark

2: Danish Regions

Five Danish Regions – responsible for contaminated sites



Danish Soil Contamination Act:

The 5 regions are responsible for "old contaminated sites", i.e. sites where the polluter cannot be held responsible. Responsibilities include:

- Find and register sites
- Investigation and risk assessment
- Proritization
- Remediation

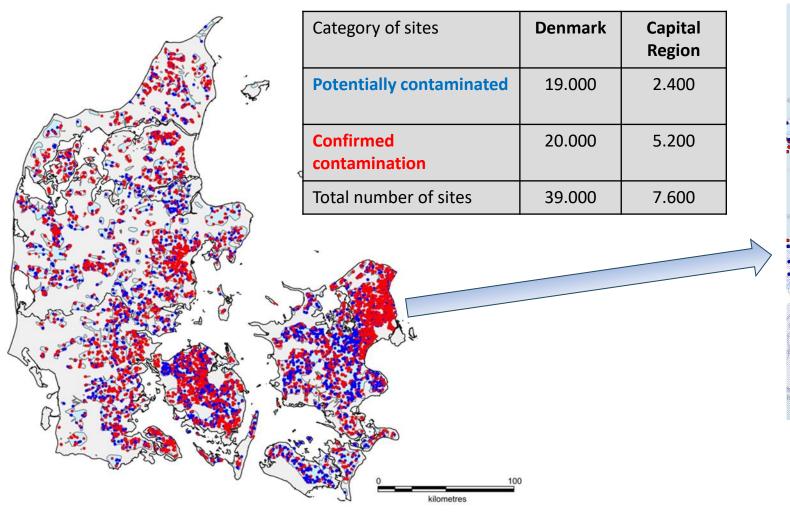


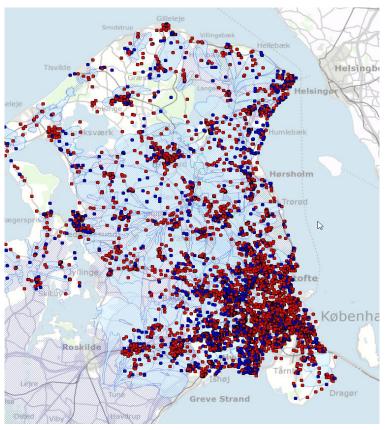




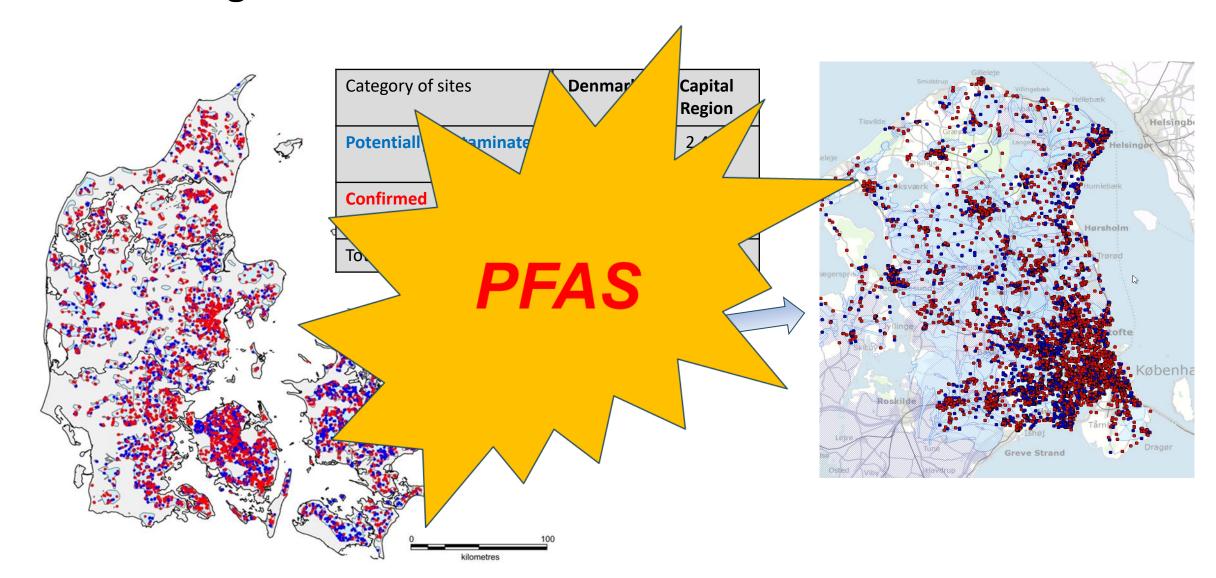


The challenge



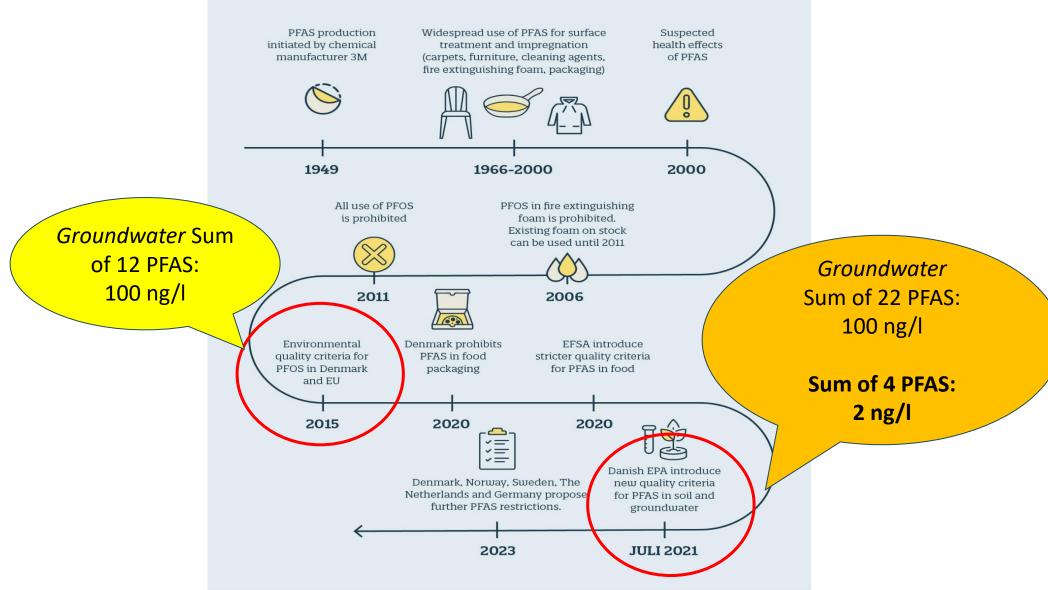


The challenge



7tel/beskrivelse (Sidehoved/fc

PFAS substances historically



7#el/beskrivelse (Sidehoved/fod)

Korsør case (2021): Extensive PFAS pollution near firefighting training area







Photos: TV2 News, DR (Danish Broadcasting Cooperation)

7tel/beskrivelse (Sidehoved/fod)

2022/23: Suprising pathways for PFAS spreading



PFAS in seawater concentrates in sea foam



PFAS contaminated sea foam is a source of groundwater contamination at well-fields near the coast

Photos: DR, NIRAS

National PFAS action plan – on the way

Important elements should be:

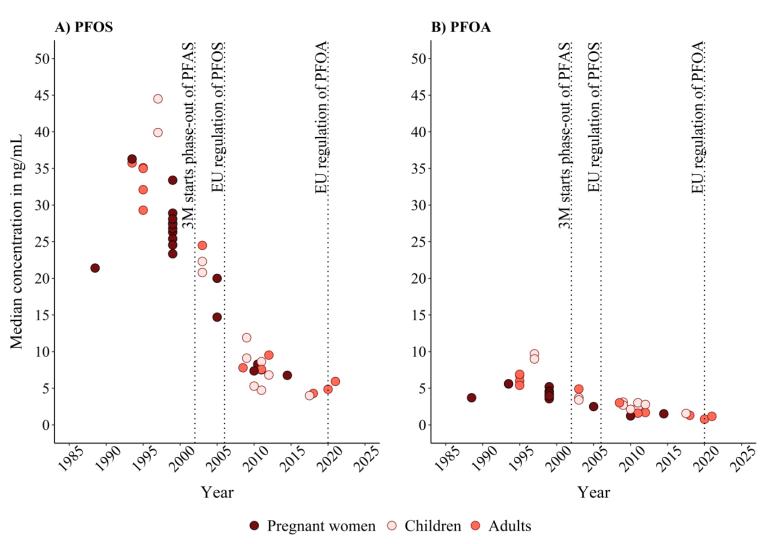
- Ban/phase out/substitution of PFAS
- Overview of the problem
- Prioritisation
- Clear communication on risks etc.
- Research and development

2023: Denmark, Germany, Norway, Sweden and the Netherlands propose restrictions of PFAS use in the EU.

2024: Danish government has proposed national ban of PFAS in shoes, clothing and impregnation products

Regulation works!

Median concentration of PFOS and PFOA in blood samples from the Danish population, 1988-2021.



Hull, S.D., Deen, L., Petersen, K.U., Jensen, T.K., Hammer, P., Wils, R.S., Frankel, H. N., Ostrowski, S.R., Tøttenborg, S.S.: Time trends in per- and polyfluoroalkyl substances (PFAS) concentrations in the Danish population: A review based on published and newly analyzed data *Environmental Research* 237 (2023)

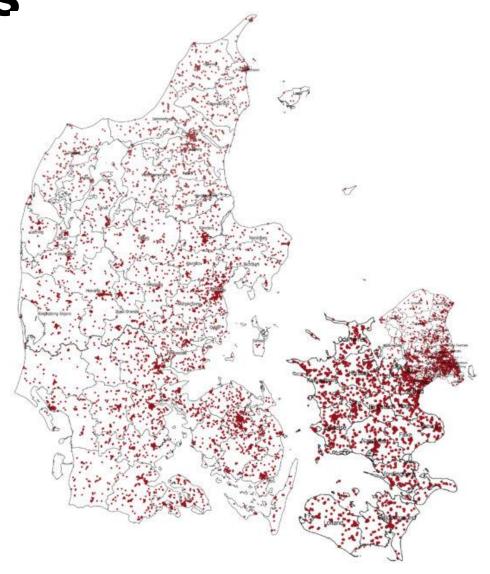
7&el/beskrivelse (Sidehoved/fod)

Overview:

Potential PFAS risk sites in DK

The regions have identified app. 15.000 sites:

- Firefighting training sites
- Landfills
- Carpet and textile industry
- Chemical industry
- Carwash
-and many more



PFAS - prioritization and investigation by the regions

- app. 15.000 potenial risk sites identified
- app. 1.200 sites have been investigated (including 100 firefighting training sites)
- Prioritization strategies are being formulated

focus on:

- ✓ important pollution sources like fire fighting training areas
- ✓ sensitive locations e.g. childcare institutions
- Remediation we are still at the very beginning



PFAS - research and development

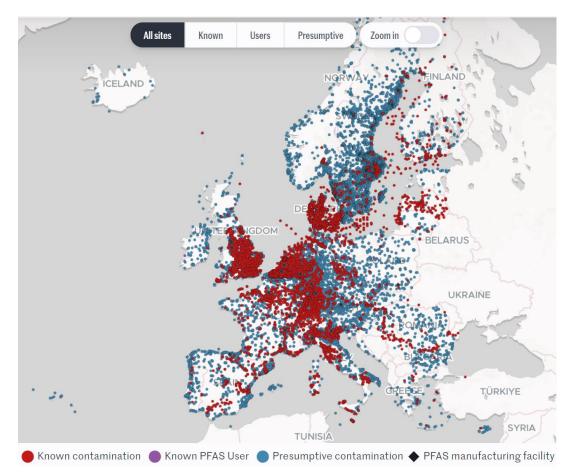
Danish regions have initiated and participate in several R&D projects – including:

- Testcenter at Korsør firefighting school
- PFAS behaviour in the subsurface
- Risk assessment
- Remediation methods and technology
- Water treatment



Conclusions/summary

- We have a problem no need to panic – but action is needed
- Preventive action/phase out of PFAS
 long term (national/EU)
- Overview of potential pollution sources
- Prioritisation of sources
- Remediation of sources with highest priority
- R&D in remediation and water treatment
- Monitoring (in environment and people)



<u>Source: The Forever Pollution Project – Journalists</u> <u>tracking PFAS across Europe</u>

Adapting to the changing climate in Helsinki

Ms. Hanna Wesslin, Climate Director, City of Helsinki



EU Green Week PARTNER EVENT

Thank you!

#EUGreenWeek #NordicRegions #WaterWiseEU









