

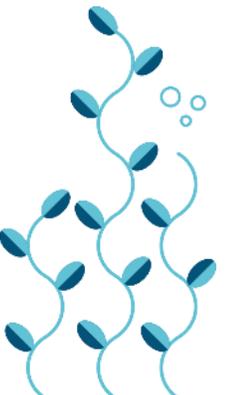
# Preparation of next programme of measures in Finland

- Milla Mäenpää, Ministry of the Environment /
- Sini Olin and Anne-Mari Rytönen, Finnish Environment Institute, SYKE
- Nordic WFD Conference, 22.5.2019
- Workshop 5/session 1



# Programme of measures in 2021-2027

- Process
  - Update sectoral and horizontal guidance's in national level (“measure type toolbox”): Sectoral teams with experts and stakeholders DL 9/2019
  - New data management system
  - Planning process in regional level begins at the end of 2019
- Main principles:
  - No major changes in sectoral measure types, evaluation of impacts or cost/benefits
  - Clear connection between measures and pressures and between national measures and KTM
  - Special attention to: monitoring of indicators, hazardous substances, connection with marine strategy and flood risks, adaption to climate change.
  - Stakeholder involvement and perspective to improve the implementation.



# (Some of the) lessons learned/still learning from collecting data for indicators for pressures and measures

- The pressure-driver connection (multiple)
- Valuation of significant pressures:
  - clarified guidance
  - New tools and visualisations
- EU-reporting vr. national: The linking between national measures and KTM's is complicate
  - Finland has linked only some of the national measures to KTM's



# Visualisation of measures



## RBM Regional measures



## Front page



## RBM National Measures



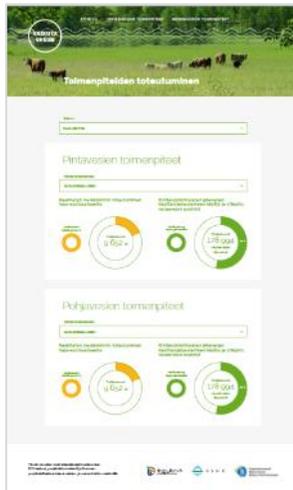
## MS PoM



## Measure cards



## Sectors

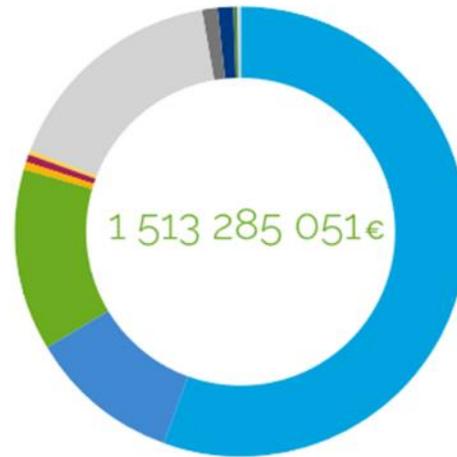




# Tarkastele alueellisia toimenpiteitä sektoreittain

Vesienhoidon alueelliset toimenpiteet on määritelty vesienhoitosuunnitelmissa. **Pinta- ja pohjavesien toimenpiteitä** voidaan tarkastella sektoreittain, jolloin saa hyvän käsityksen kustannusten ja toteumien jakautumisesta niiden kesken.

SEKTORIN OSUUS KOKONAISKUSTANNUKSISTA V. 2018



- Yhdyskunnat 55,8 %
- Haja-asutus 10,8 %
- Teollisuus 12,9 %
- Kalankasvatus 0,01 %
- Turvetuotanto 0,6 %
- Turkistuotanto 0,5 %
- Metsätalous 0,3 %
- Maatalous 16,5 %
- Happamuuden torjunta 1,0 %
- Maa-ainesten otto 1,0 %
- Pohjavesialueiden suojeleusuunnitelmat ja selvitykset 0,04 %
- Liikenne 0,1 %
- Kunnostus, säännöstely ja vesirakentaminen 0,3 %
- Pilaantuneet maa-alueet 0,1 %
- Muut 0,001 %

An aerial photograph of a sandy beach with people and a dog. The water is shallow and clear, showing ripples. 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'.

VAIKUTA  
VESIIN

# Planning measures in a changing climate

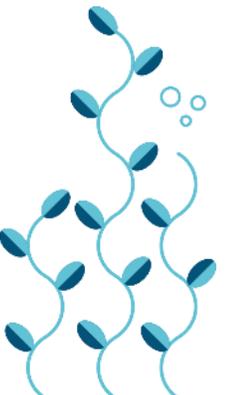
## Steps of climate proofing for River Basin & Flood Risk Management

1. What are the climate change (and land use change) impacts on water quality and quantity?

2. What are the consequences to river basin and flood risk management?

3. How do proposed measures adapt to these changes?

4. How to make climate-proof, adaptive management plans?



# Considerations in climate-proofing

Urgency	Which climate impacts call for (additional) measures in each sector?
Robustness	Is the measure useful under different climate and land use scenarios (average and high) and extreme events (e.g. wet and dry conditions)?
Synergies (win-win)	Does the measure support multiple objectives like flood risk reduction, biodiversity goals etc.
Flexibility	Can the measure be adjusted or implemented gradually if the conditions change?
Mitigation	How does the measure affect greenhouse gas emissions or carbon storage?
Life span	Especially in long-term investments it is important to take into account potential changes in climate and other factors.





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Thank you!