

PORI FINLAND

BSR NOAH: January 2019 - December 2021



NOAH ACTIONS

A Storm Water Management Model (SWMM) of the Pori pilot area was created to estimate the amount of urban run-off.

Water flow measurements and sampling were also carried out. Water sampling was conducted to analyze the quality of the stormwater and for modeling it in different flood situations.

The Extreme Weather Layer (EWL) is a new tool created in the NOAH project and is used for planning in the city of Pori. The tool assists in spatial planning and flood risk prediction. It can be used to look at the impact of residential construction on the capacity of the drainage ditch located in the pilot area.

NOAH IMPACT

- With NOAH actions, financial damages can be reduced, and flood risks mitigated.
- Consequently, wastewater spillages and overflows are reduced, resulting in less pollutants and excessive nutrients flowing to the Baltic Sea.

ABOUT THE PILOT SITE

- Pori is a city located on the southwestern coast of Finland, less than 20km from the Baltic sea
- Separate sewage and stormwater systems

CHALLENGES

- The city's ground surface is flat, which increases drainage problems as well as stormwater and snowmelt flood threat. Additionally, river floods are a problem in Pori.
- The stormwater drainage ditch is originally designed only for drainage of agricultural areas, so its capacity may not be enough in heavy rainfall situations.



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