NOAH project pilot site SÖDERHAMN SWEDEN

BSR NOAH: January 2019 - December 2021





NOAH ACTIONS

A Storm Water Management Model (SWMM) of the Söderhamn pilot area was created to estimate the amount of urban runoff.

Water flow measurements and sampling were also carried out. Water sampling is 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 Söderhamn. The tool assists in spatial planning and flood risk prediction.

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

- Söderhamn is a city located on the east coast of Sweden
- Total area of 10.4 km²
- Separate sewage and stormwater systems

CHALLENGES

- The pilot area was chosen to analyze the impact of heavy rainfall and sea level rise on urban environment and stormwater system.
- Some stormwater catchments e.g. roofs are still connected to the sewer system and therefore there are several combined sewage overflow (CSO) structures in the system. However, these CSO-s are equipped with backflow valves to avoid seawater entering to the sewer.







SCAN QR CODE FOR MORE INFORMATION! sub.samk.fi/noah

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