

SLUPSK POLAND

BSR NOAH: January 2019 - December 2021



NOAH ACTIONS

A Storm Water Management Model (SWMM) of the Slupsk pilot area was created to estimate the amount of urban run-off. In addition, water samples were collected to assess stormwater quality.

Six devices for measuring precipitation (rain gauges) were installed in Slupsk. Additionally, devices for measuring the water level at the main sewers, were installed in 12 locations. All of the devices include automatic data archiving and remote transmission.

With the help of the devices, data about precipitation and water levels can be gathered and monitored, helping with flood risk mitigation.

The Extreme Weather Layer (EWL) is a new tool created in the NOAH project and is used for planning in the city of Slupsk. The tool assists in spatial planning and flood risk prediction.

ABOUT THE PILOT SITE

- ◆ Slupsk is a city in northern Poland, about 20km from the Baltic Sea coast, on the Slupia river
- ◆ Sewage and stormwater systems are both separate and combined

CHALLENGES

- ◆ The combined stormwater and sewage systems pose a risk to the wastewater treatment plant and to the Slupia River, which is the recipient of the wastewater overflows.
- ◆ The wastewater spillages are harmful because they contain eutrophying nutrients, hazardous substances and pathogens.



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.

