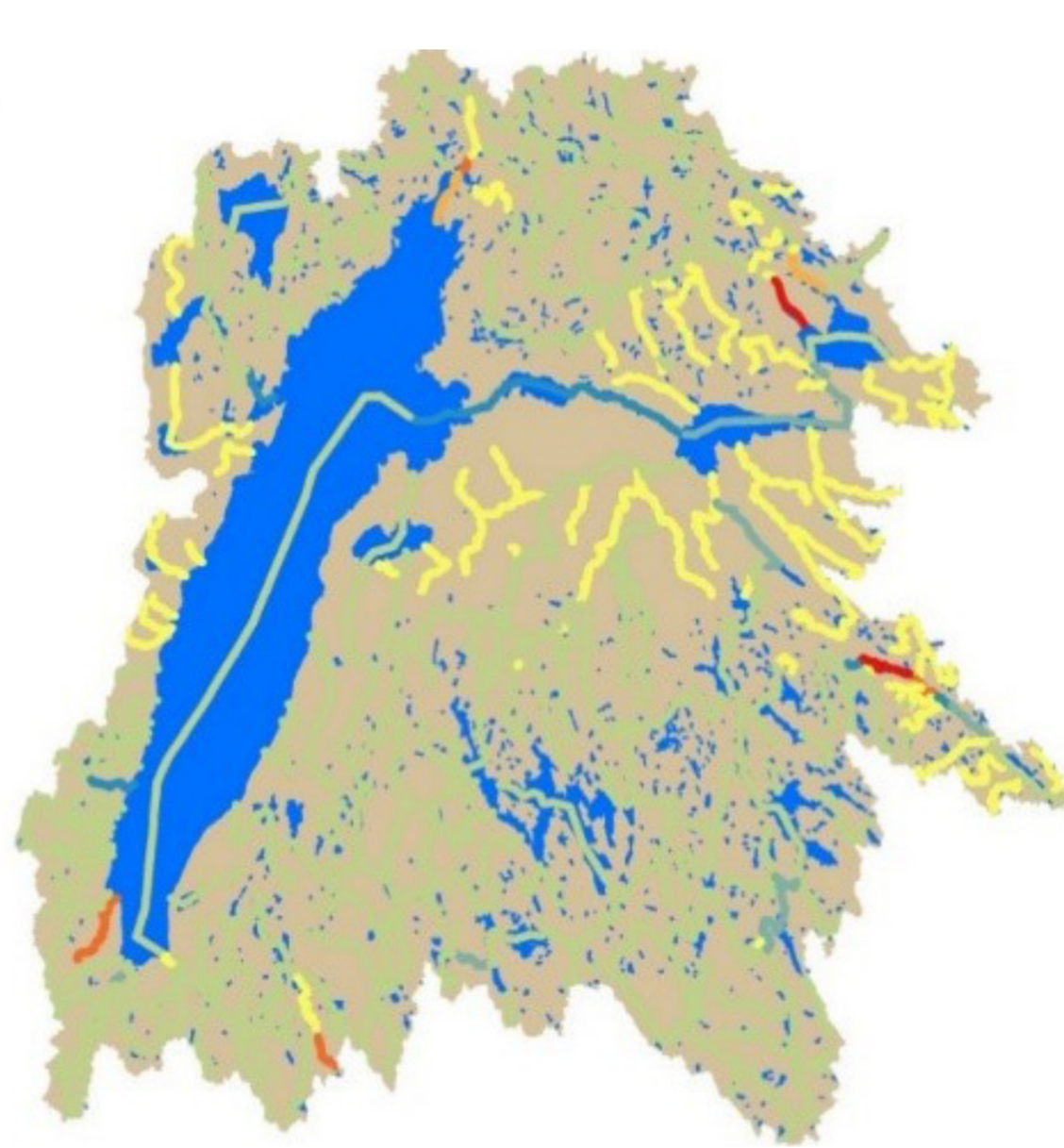
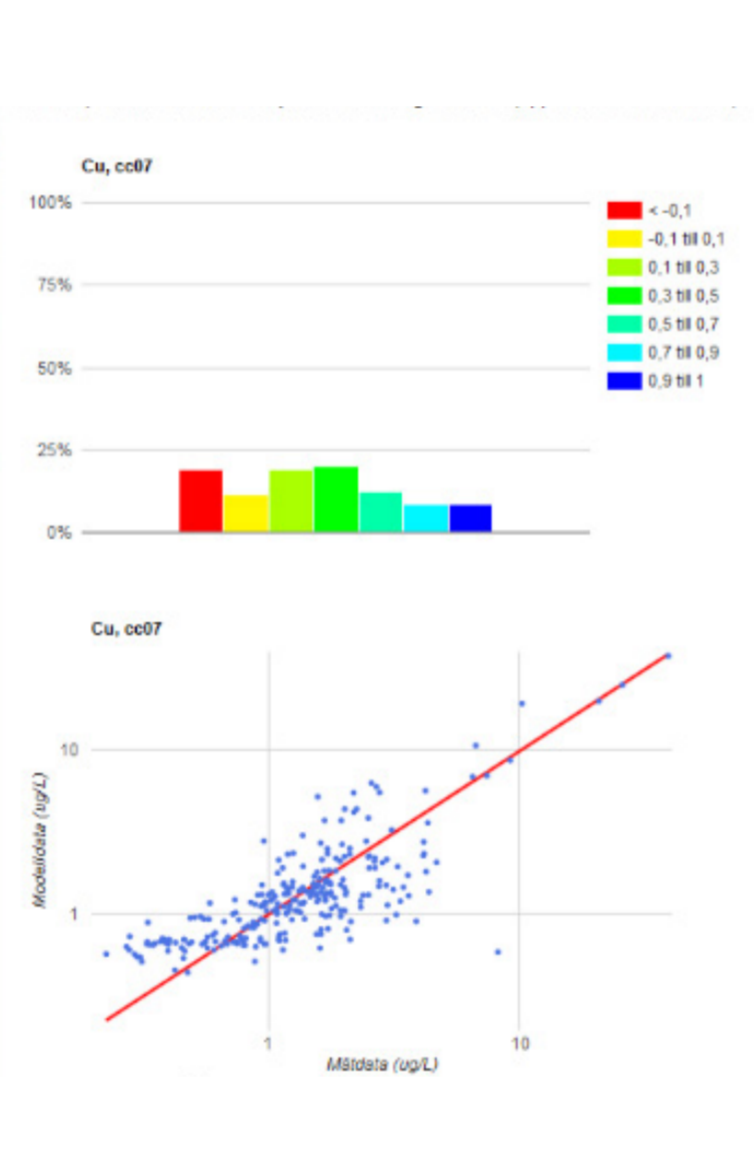




Modelling Industrial Pollution

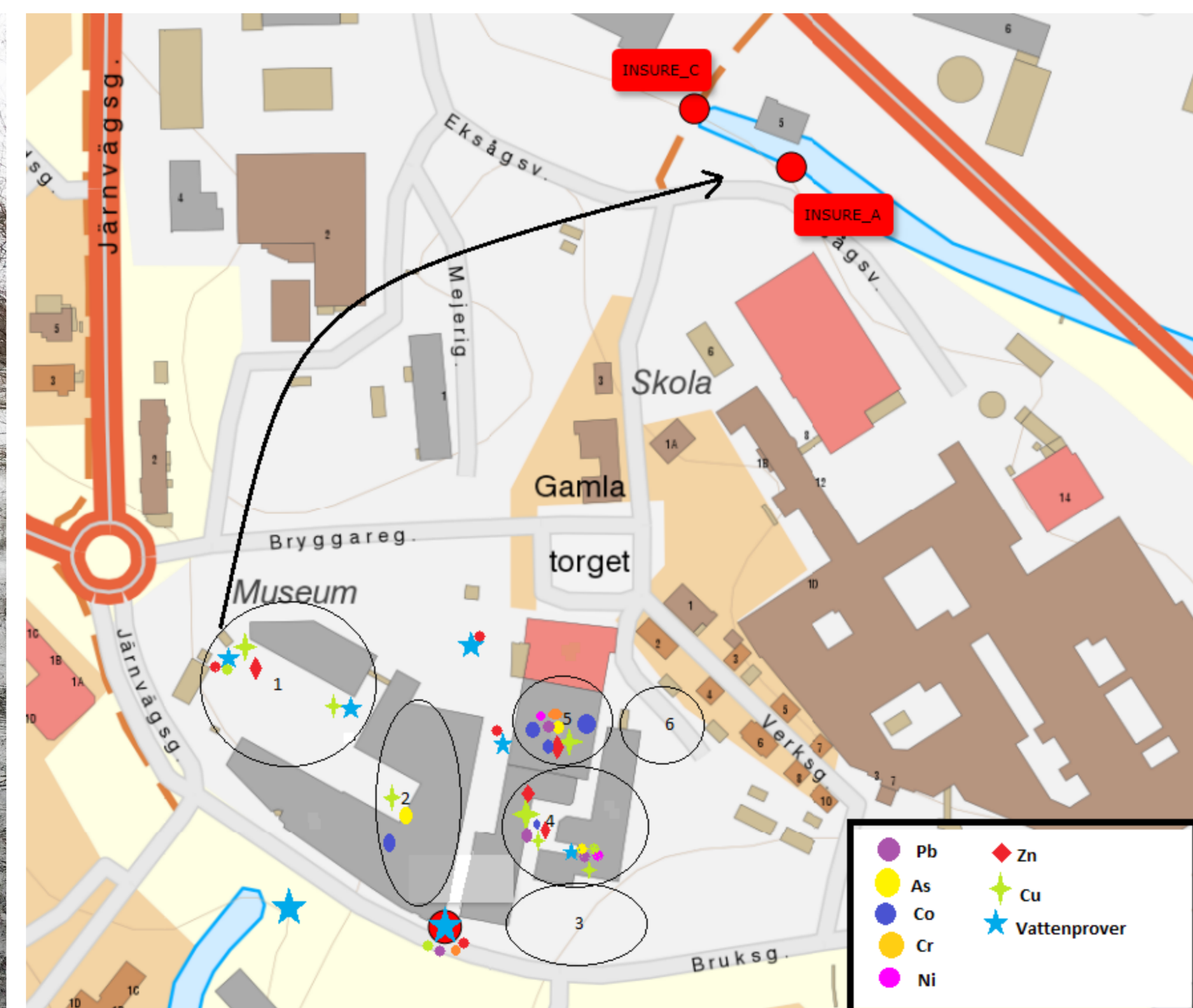
in the project Innovative Sustainable Remediation (INSURE)



Observed levels of Copper, including samples from the INSURE project. Figures: SMHI

The Net Modell

NET is a general tool made by SMHI, for upscaling water quality information. The tool describes the hydrology of Sweden in high temporal and spatial resolution. In the set-up, which was used for this project, Sweden is divided into about 37000 sub-basins, modelled dynamically. NET has been used in INSURE to model Cadmium (Cd), Copper (Cu), Mercury (Hg), Nickel (Ni), Lead (Pb) and Zinc (Zn).



Map over model area in Åtvidaberg. Figure: Länsstyrelsen Östergötland

The Åtvidaberg approach

In the Åtvidaberg pilot area we made an overview where the pollutions were located and where they originated from. Following were questioned:

- In which areas are the sources for the different metal contaminants?
- How are the contaminants dispersing in the area and where do we need more knowledge?

We decided to focus on the central parts of the B-factory and the Åssa area. This method facilitates a more accessible overview of the polluted area. The information was later used by the municipality of Åtvidaberg and their consultants when constructing the sampling plan for the pre-sanitation study.

www.insure.se

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