

# **FRIST – FORUM FOR RISK INVESTIGATION AND SOIL TREATMENT - A COMPETENCE CENTRE FOR TREATMENT OF CONTAMINATED SITES**

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## **ABSTRACT**

Forum for Risk Investigation and Soil Treatment, FRIST, is a recently established competence centre for investigation and treatment of contaminated sites. The centre is a co-operation between Stena Metall, Renova and Chalmers University of Technology. FRIST is situated at School of Civil Engineering, Chalmers, and Associate Professor Lars Rosén at the Department of GeoEngineering is the manager of the centre.

The main aim with FRIST is to initiate research for development of cost-effective treatment techniques and strategies for investigation of contaminated sites. The research should be taken into a wider perspective, and one goal is to establish Göteborg, both nationally and internationally, as a precursor area for treatment of contaminated sites. The aim is also to initiate co-operation with other universities and companies. Projects within the Alliance for Global Sustainability, AGS, are high on the FRIST agenda.

Three research areas have been identified and will be given high priority in the FRIST activities. The first area is concerning legislation, permissions and priorities. Risk investigation and prioritisation processes, and outlines of more efficiency in the process for permissions are requested. The goal is to establish co-operation, and start a PhD project, within the area of economics and environmental law. The second area is on risk investigation. Uncertainty and data worth in decision analysis for contaminated land will be important, with focus on pollution distribution and mobility. Focus will be on cost-benefit-risk decision analysis for managing uncertainties and achieving cost-effective treatment strategies. A PhD project in this field is already on going at GeoEngineering, Chalmers. The third prioritised area is research and development of treatment techniques. A PhD project will be started on studies of pollutant distribution and mobility. Adsorption and leaching processes will be studied for development of more efficient on-site and in-situ treatment techniques. Research will be carried out on both organic and inorganic pollutants.

## **KEY-WORDS**

FRIST, risk investigation, soil treatment techniques, organic and inorganic pollutant mobility.