



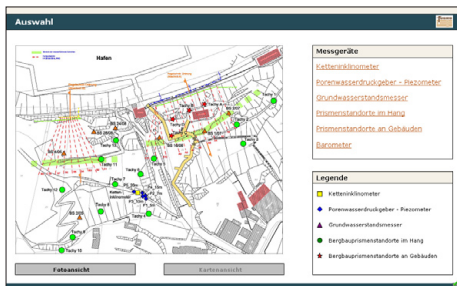
GeODin Landslide Monitoring



Rügen Coastline, Baltic Sea

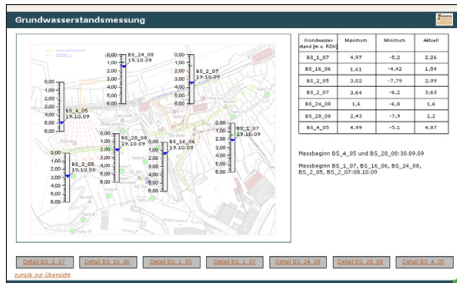
The island of Rügen is located in north-eastern Germany in the Baltic Sea. It has an area of 924 km² with a coastline of 574 km. There are two national parks, which include the famous chalk cliffs, a nature reserve and it is one of the most popular holiday destinations in Germany.

In 2009 Fugro Consult GmbH was awarded a contract to monitor landslide stabilization measures for a coastal area where a slip had already occurred. The structural measures consisted of installing a horizontal drainage system to allow sinking of the groundwater level in the slope and so increase its' stability. The instrumentation was supplied by the company Scanrock and included the use of chain inclinometers, prisms mounted on the slope and adjacent buildings, barometric, porewater pressure & groundwater level measurements.



Monitoring Overview

FUGRO provides the GeODin® data management software for automatic field data collection, transfer from sensor to database and internet based analysis & presentation solutions. The GeODin Portal-Server was configured to create web pages on the fly from the database, handling the high density of measurement values and time-critical graphics required to monitor the landslide and provide an early warning system to allow safe evacuation of the local population.



Groundwater Monitoring

Each web page in the portal contains links to other portal pages, whether it is a detailed view of selected parameters and trends, or an overview of particular sensors, allowing easy and intuitive information management. By using just GeODin graphic tools the creation of reports and diagrams to show geological, geotechnical and analytical data was greatly simplified. No knowledge of HTML coding or web-site design tools was needed for this implementation.

Links between web pages were attached to variable text elements, either solitary or contained within reports and time series. The links are controlled by attaching conditional statements, so that certain conditions have to be met for a link to be active (e.g. if no daily values are present then the link is greyed out). Additionally conditional links can pass on parameters for loading the correct data in the next layout (e.g. linking from a monthly to an annual view). Additional standard portal features such as map- and pdf-servers may be integrated in a GeODin Portal-Server solution.



For further information please contact Fugro or Scanrock: info@scanrock.de / www.scanrock.de

FUGRO CONSULT GMBH
 Umwelt – Geotechnik – Analytik
 Abteilung Umweltinformatik
 Wolfener Straße 36V
 12681 Berlin

Tel. +49 30 – 93 651 302
 Fax +49 30 – 93 651 300
 e-mail support@geodin.com
www.geodin.com www.fugro.de
www.fugro.com

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