



# FUGRO GEOLOGICAL DATABASE YEMEN

Water supply and sanitation in Yemen is characterised by severe water scarcity and a high level of poverty. Despite these challenges, significant progress has been made thanks to reforms and donor support. Fugro was able to help by using GeoDin for the creation and management of the national geological database.

## YEMEN

The Republic of Yemen is located on the Arabian Peninsula, bordered by Saudi Arabia and Oman. Increasing demand for water and its scarce availability has always been problematic. Several international economic, financial and administrative reform programmes were initiated with the World Bank, IMF and international donors, where water management implementation was made a priority. Unfortunately the ongoing civil war has severely worsened the situation for the 20 million population.

## IMPLEMENTATION

The German Federal Institute for Geosciences and Natural Resources (BGR) has provided advisory services to the National Water Resources Authority (NWRA) and the Geological Survey and Mineral Resources Board (GSMRB) with regard to national water quality control, the collection, processing and evaluation of relevant data as well as in counterpart training. As one of the main project outputs environmental geological information is provided in support of the sustainable and integrated management of available water resources.



View from Kawkaban towards Shibam



Sedimentary rocks exposed, Shibam - Kawkaban road



**KNOWLEDGE TRANSFER**

GeoDin is used by the Geological Survey and Mineral Resources Board as an environmental and hydrogeological database. GeoDin is integrated within their project structure workflow, with tools for complex data analysis, special graphical interpretation, list comparisons and report preparation. The GeoDin user interface is in English. Training was provided in English with an Arabic translation.

Initially a GeoDin workshop was held in the Yemeni capital Sana'a, followed by a two week refresher course in Germany, at the Geoconsultancy Department of Fugro Germany Land, Berlin

The current civil war has resulted in the destruction of the country's water infrastructure, with many Yemenis forced to leave their homes for other areas, where wells in those areas are now under increasing pressure.

**TECHNICAL DETAILS**

The recommended system requirements are PCs with Windows operating system from Windows 10 (64-bit) with 4 GB RAM and a display resolution of 1920 x 1080 px. GeoDin may also be run from a Windows Server 2016 or higher as well as Citrix. Previous Windows operating systems and RAM configurations may work, but these are not supported. When working with client/server databases the appropriate database drivers must also be installed.

GeoDin can be used as a stand-alone program or integrated in a multi-user network. Integrated contextual help is provided in English and German.

GeoDin is designed, programmed and distributed exclusively by Fugro. Visit [info.geodin.com](http://info.geodin.com) or [geodin.com](http://geodin.com) for further information.