

Several topics are defined to be of major concern for groundwater resources management in Viet Nam and, therefore, are addressed in frame of the IGPNV project:

- ◆ Groundwater salinization by seawater intrusion
- ◆ Groundwater pollution due to sewage and industrial pollution sources
- ◆ Management and interpretation of hydrogeological and related data using GIS
- ◆ Improvement of the monitoring network
- ◆ Definition of groundwater protection zones and extraction limits
- ◆ Strategy development for exploitation and utilisation of groundwater and sustainable development of groundwater resources.

Initially, the activities are focussed on Nam Dinh province as the pilot area, and will be subsequently extended to other provinces of the north and the south of Viet Nam.

Project Frame

1st project phase: 06/ 2009 – 12/ 2010

2nd project phase: 01/2011 – 06/ 2014

Project partner:

- National Center for Water Resources Planning and Investigation (CWRPI), Vietnam
- Federal Institute for Geosciences and Natural Resources (BGR), Germany

On behalf of the Ministry of Natural Resources and Environment, Vietnam (MONRE) and funded by the Federal Ministry for Economic Cooperation and Development, Germany (BMZ)

Improvement of Groundwater Protection in Viet Nam (IGPNV)



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Simple filter system installed in a private household in the south of Nam Dinh province filtering extracted groundwater to improve drinking water quality.

National Centre for Water Resources Planning & Investigation (CWRPI)

in cooperation with
Federal Institute of Geosciences
and Natural Resources (BGR)

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and Environment, Vietnam (MONRE)

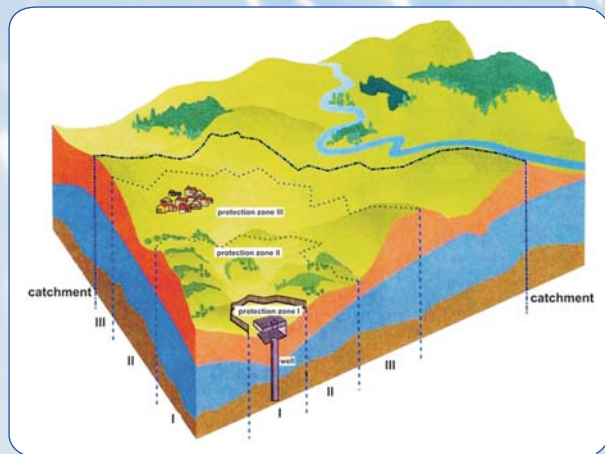
funded by
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Background

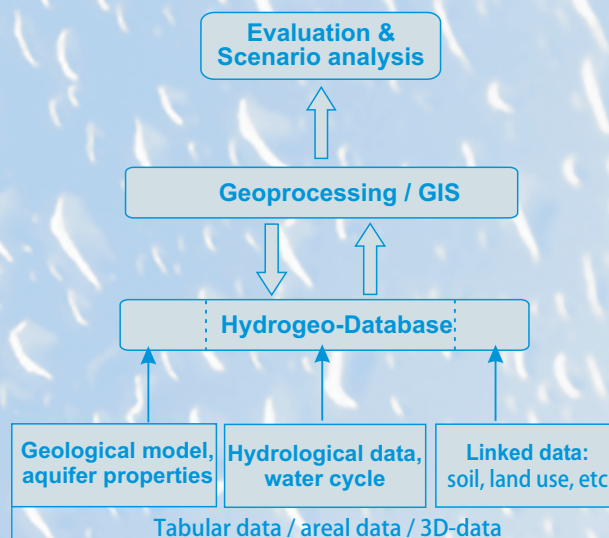
The recent growth of both population and economy in Viet Nam is based on the extensive exploitation of available water resources. Groundwater will become the major resource for the future water supply of Viet Nam, since surface water is vulnerable and increasingly affected by climate change, untreated sewage water and industrial waste water. Sustainable management of this finite resource is essential to life, development and environment.

During the last decades, the uncontrolled utilization and increasing exploitation of the finite groundwater resources in Viet Nam have resulted into several negative effects including:

- continuous declining of groundwater tables in a regional scale,
- land subsidence particularly in urban areas,
- salinization of coastal groundwater resources by seawater intrusion, and
- pollution by unsuitable handling of domestic, agricultural and industrial waste



Design of groundwater protection zones to preserve the water quality of municipal water supply well (source: BGR).



Basic concept of data input and workflow for Groundwater Resources Assessment.

Scope & Objective

The improvement of groundwater protection is essential for social and economic development of Viet Nam and, therefore, is the major objective of the IGPVN project.

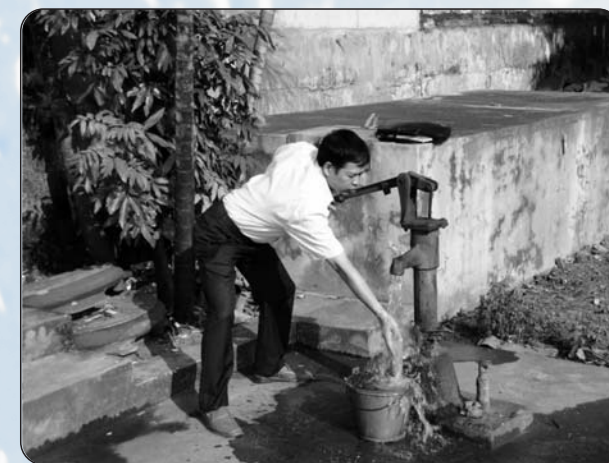
Nowadays, it is a common understanding that sustainable groundwater management has to be part of an Integrated Water Resources Management (IWRM), which is based on a participatory approach, involving users, planners and policy makers at all levels. The IGPVN project supports this process by facilitating communication, data exchange and workflow between the various institutions dealing with water related topics. Moreover, awareness raising campaigns are aimed to responsible utilization and protection of the water resources by the various stakeholders.

Roles & Activities

Since 2008, the National Center for Water Resources Planning and Investigation (CWRPI) subordinated to the Ministry of Natural Resources and Environment (MONRE) is mandated to investigate and monitor the national groundwater resources in order to provide recommendations for water regulations and management.

On behalf of the funding German Federal Ministry for Economic Cooperation and Development, Germany (BMZ), the German Federal Institute for Geosciences and Natural Resources (BGR) supports CWRPI in their efforts to improve the Groundwater protection by technical assistance including design of a joint hydrogeologic database, increases capacities for modern methods and technologies in data processing and analysis.

Moreover, BGR aims to facilitate internal and external data exchange and workflow in the framework of an IWRM and raises awareness for responsible utilization and protection of the groundwater resources.



Investigation of groundwater in a household tube well by CWRPI staff.