

MGI018-P04

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## Web publication and visualization of three-dimensional geologic model using WebGIS

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We have developed Web-GIS system for Web publication and visualization of three-dimensional geologic model.

This system is composed of the following free and open source softwares:

- 1) Apache web server
- 2) PostgreSQL/PostGIS database
- 3) MapServer web mapping engine
- 4) Openlayers webgis client

The system is used via Web browser such as Internet Explorer. The basic functions are shown below.

- 1) display horizontal cross sections
- 2) display east-west and the south-north cross sections
- 3) display specified cross section
- 4) display 3d geologic model by VRML

Moreover, we have developed system for analysis of borehole data to support construction of three-dimensional geologic model. In this presentation, we will introduce an outline and main functions of the system.

Keywords: modelling, borehole data, visualization, open source, open standard