



Information layers in a GIS project.

The QMAP project is producing complete national coverage of New Zealand's geology in 21 maps. Each map is litho printed and published with an accompanying explanatory book. This Crown-funded programme is improving our knowledge of the geology of New Zealand by mapping and exploring relationships between rock types and their geological origins.

The programme compiles, interprets and disseminates underpinning research across a range of geological disciplines with a goal of better understanding natural hazards and earth resources such as minerals, groundwater and petroleum.

The GIS database behind each geological map will ultimately be integrated into a seamless national geological database. The completed QMAP geological GIS will be accessible to the New Zealand public in vector and raster formats, and will be maintained and updated as a Nationally Significant Database.

Project Description

Project: QMAP: Geological Map of New Zealand

Location: New Zealand

Client: Foundation for Research Science and Technology (FRST)

Total Project Value: Confidential

Start Date: July 1994

End Date: July 2010

Lead Company: GNS Science

Associated Consultants: None

Key Features:

- Terrain analysis and visualisation
- Geological data analysis and presentation
- Spatial data modelling
- Geological hazard analysis using GIS
- Geological resource assessment using GIS