

Urban geological map of Tabriz city, Iran

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Tabriz city which situated in north west part of Iran, is the metropolis of the eastern Azarbaijan province stands out as a more critical city due mainly to vulnerability to the geological hazards. Nevertheless, the growth of population and also high rate of immigration, especially during the last 20 years, have given rise to an undesirable expanding of the city.

In order to assist the state planners and decision makers at the early stages in land -use planning, the urban geological map of Tabriz city were prepared by Geological Survey of Iran (GSI) in scale of 1:50,000.

This map which resulted from overlay of seven thematic maps with thirteen zonations in GIS environment, was conducted to evaluate possible expansion of the city. This map also aims to accurately measure areas suitable for urban development. The thematic maps in this study are as follows:

Surface material deposits - geomorphology - geotechnical properties, the ease of excavation, constructional material, maximum ground acceleration, groundwater depth and direction of flow, water chemistry, and water quality.

The urban geological map of Tabriz shows both suitable areas for land-use planning and also shows the zonation of areas susceptible to geological hazards.