

## **ENGINEERING GEOLOGY IN URBAN AREAS DEVELOPMENT IN SLOVAKIA**

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The present development of the society involves a fast increase in urbanization. This brings about the problems with rational use of landscape and of the geoenvironment as well. From this point of view requirements have grown for quantity and quality of geological information especially for new types of engineering geological maps expressing not only engineering geological conditions but the suitability of a territory for certain type of constructions, the optimum land-use (from several alternatives), the long term geoenvironment changes and its vulnerability, as well.

Following the regionally oriented research the multipurpose engineering geological maps at a scale of 1:25.000 were prepared covering the most important Slovak urban centres. Subsequently, general engineering geological map of Slovakia at the scale of 1:200 000 was compiled creating unified skeleton for mosaic of maps 1:25 000 and binding urban areas mapped in details together with their background. It resulted in a comprehensive information system of engineering geological conditions of the whole state territory with more detailed data for more economically significant regions. To meet the requirements mentioned above suitability maps, optimization maps, vulnerability maps and the maps of changes of the geoenvironment have been prepared in some regions as well.