

# **Portal of Geohazards in the Czech Republic– information services for disaster prevention**

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The territory of the Czech Republic has been affected by many natural disasters during the last decades (mainly floods and subsequent landslides). By implication of this demand, the Czech Geological Survey as a long-term developer and administrator of the Czech National Geological Information System (GeoIS) has developed a specialized Portal of Geohazards since 2005. This is a subsystem of the GeoIS and presents a central platform for online access to the interpreted data and information about geological risk phenomena in the Czech Republic. The Portal of Geohazards represents a system of internet applications – web services that enable access to the requested geoscientific information from a selected area for nongeological public. One of the core applications of the Portal of Geohazards is an automated reporting system – GeoReports. This complex application system currently provides five thematic geoscience information services to users: Radon risk; Ground Instability; Vulnerability of the geological environment and groundwater; Influence of the geological environment on the chemistry of groundwater; Engineering–geological characteristics of land. These were developed on the base of integration of different data sources, map services from various providers and a subsequent expert interpretation of this data by geologists. After defining an area of interest, the user receives (in .pdf format) a detailed commented map and text information about the geological environment and certain geohazards. An integral and important part of each report is always a targeted recommendation for the land use according to the certain geohazard and the degree of vulnerability of the geological environment. The Portal of Geohazards will also contain a newly built National Registry of Landslides. The Portal of Geohazards (currently in testing mode) represents a completely new way of dissemination of the geoscientific information to broad public.