Monitoring System to Counter-manage the Risks of Infrastructure Collapse in Tuzla (Bosnia)
(ref. 983305)

Tuzla is one of the densely populated urban areas in Bosnia and Herzegovina that has a long history of coal and salt exploration leaving behind abandoned mines. These mines are a hazard to the infrastructure and the population in this area due to ground deformation and sink holes. Many of the historical buildings simply collapsed and disappeared during the last 50 years.

The project will bring together the huge amount of historical data on mining areas, their geotechnical and hydrogeological features, and integrate and produce an actual real picture of the situation by updating the existing geographical information system (GIS).

The end-result will be detailed hazard maps for endangered areas that will provide the basis for a long-term planning to monitor and mitigate the risk. The research will be done together with the communities in Bosnia and Herzegovina (representatives of the Tuzla Canton government and ministries, as well as the municipality of Tuzla) in order to increase their understanding of the problems and their feeling of ownership.

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Approval Date: 14 November 2008
Duration: 2 years; expected completion by April 2011
Web site: [http://www.demos.ba](http://www.demos.ba)

Abandoned salt mine “Tusanj” near Tuzla.

The centre of Tuzla shows various damage to the infrastructure caused by abandoned salt mines, like these “scars” in the pavement.