



## PARTNER SEARCH FORM

<b>DATE:</b> 11-12-2010
<b>PROJECT INFORMATION</b>
<b>TITLE:</b> OPTIMAL ENVIRONMENTAL RECLAMATION STRATEGIES OF OPEN PIT MINES <b>ACRONYM:</b> OPENREST-MINE
<p><b>SUMMARY:</b> Mineral deposits exploitation by open-pit mining is an activity that impacts adversely the environment. Regardless of the effectiveness of the environmental management practices that are applied by the mine operator, often, these mining activities led to severe environmental degradation just because of their enormous size and the duration of these activities. As a consequence, mining activities affect irreversibly the local communities, which adjust their life-style and depend their economic prosperity on the development plans of the mining company.</p> <p>The type and magnitude of environmental impacts of surface mining are closely related to various site-specific physical, chemical, ecological, socioeconomic legal and cultural characteristics. In this context, the reclamation practices and especially the selection of land uses after the mine closure is a difficult decision, which is complicated further due to the variety of parameters that must be taken into account trying to provide the local community with a viable development plan.</p> <p>Conventional methods used for reclamation planning and design are characterised by the lack of data integration and by time-consuming analysis. Therefore, the main objective of this research program is to develop a platform that will be able to integrate all required data, decision criteria and support mine operators and local authorities to select the optimal reclamation strategy.</p>
<b>KEYWORDS*:</b> ENVIRONMENT, RECLAMATION, MINING, LAND USE
<b>CALL:</b> BS-ERA.NET 2010
<b>INSTITUTION*:</b> Laboratory of Quality Control-Health & Safety in Mineral Industry, Dept. Of Mineral Resources Engineering Technical University of Crete
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<b>SCIENTIFIC AND TECHNOLOGICAL EXPERTISE OFFERED*</b> The Laboratory of Quality Control-Health & Safety in Mineral Industry of the Mineral Resources Engineering Department has involved in several research activities concerning the estimation of the environmental and health/safety risk in mines and quarries as well as the development of decision support systems for the selection of the optimal reclamation and land uses in large surface lignite mines.
<b>PARTNER SOUGHT</b>
<b>SCIENTIFIC AND TECHNOLOGICAL EXPERTISE REQUESTED:</b> Partners should have some experience in the subject of mineral resources exploitation, reclamation, environmental management and the relevant legalization.

<b>EXPECTED CONTRIBUTION TO THE PROJECT:</b> Partners are mainly expected to provide all available relevant data (current reclamation practices, legalization, socioeconomic conditions, etc) from their countries and lesser to contribute to the development of the platform.	
<b>ORGANISATION TYPE*:</b>	
x Higher Education	x Research Institute
x R&D Company	x SME <input type="checkbox"/> Other
<b>HOW MANY PARTNERS ARE REQUIRED?</b> 3	
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