

Inventory and Monitoring the Evolution of the Quarrying Exploitation in the Region Tangiers–Tetouan (Morocco) in Order to Design a Gis Tool for the Management of Useful Geomaterials

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SUMMARY

The northern region of Morocco has experienced in the last decade an increased economic growth and made much progress developing of the infrastructure, public works, urban and industrial area's. This development lead to an increased demand for useful geomaterials , which has caused uncontrolled mining exploitation caused by the lack of regulation and deficiency in legislation. This paper introduces the current capabilities of Geographic Information Systems (GIS) with all data for the diagnosis of needs and optimal prediction of the needs of industrial geomaterials. This study presents an overview of the mining activity in the region of Tangier- Tetouan, based on: - the inventory of quarrying, - land mapping , - evolution of exploitation sites and kinds of usful minerals. This study will also lead to solutions for decision makers in the management of quarrying and an optimal choice of sites by : -using an interactive localisation of useful materials in the region Tangiers- Tetouan. - Consideration of all parameters that will be all integrated in the GIS application.