

Study of the Recife Metropolitan Region Environment Aiming the Sustainable Development.

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The Geological Survey of Brazil, during the 1990-1999 period, elaborated the Information Program for the Territorial Management of the Recife Metropolitan Region (RMR) with the colaboration of FIDEM, division of the State of Pernambuco responsible for the coordination of studies and public management for the region of Recife. The SINGRE Project executed over on area of 2.776km², had the aim to obtain information about the environment useful for the government managers and administrators, to implement the public policy in harmony with the environment, with thecnical support. Based on the integration of data about geology, geomorphology, hidrogeology and other informations about the environment, several reports and thematic maps were produced concerning several subjects, such as the underground water quality and the anthropological activities that cause problems to the environment of the RMR. In the last phase, the SINGRE Project produced reports and maps about the following subjects: impactant activities over the environment, vulnerability of underground water, geology, geomorphology, mining urban expansion, evolution of the vegetation cover and evolution of the coostal line. Therefore, favorable areas were indicated for mining of construction materials, for the instalation of sanitary disposal and the explotation of underground water for urban use In two counties the geothecnical characterization of the soil was studied aiming the planning of the urban growing, as well preservation areas to protect the surface water reservoir.