

# **Hydrological analysis of ANABIB's pivot sprinkler irrigation system working**

With the process of strong growth, the concentration of populations in urban centers and the seriousness of the issues related to potable water supply, managers, technicians and decision makers are, because of that, often and increasingly faced with issues of command and development of these systems.

Given the complexity of traditional archiving that involves a difficulty in utilizing the cartographic and descriptive material, potable water supply systems management proves to be slow and costly to effectively meet the pressing needs.

To improve the knowledge of a potable water supply system, detect and understand the disorders that may occur, simulate its working, design its master plan, size its expansions, provide the household connections and decide on the choice of location and on future situations, the management with a Geographic Information System is an essential operation.

Our work presents the power of these new tools in contributing to the management of potable water supply systems.

An application was chosen "Birtouta Potable Water Supply Systems" in order to illustrate this approach.