## Enhancing production through the upstream Data Management: Automation and Visualization

Upstream data is the lifeblood of the oil and gas industry. In order to keep data on exploration and production projects, the Tunisian oil Company (ETAP) has an information management system that enables it to enter, validate, update and distribute the E&P data to engineers on request. ETAP conducts exploration, development and sales activities in the oil and gas sector.

Due to current conditions in the oil and gas sector, monitoring, instant availability and optimal use of the production data are becoming an increasingly important factor. This situation has amplified the interest of companies in the way they manage the most valuable asset; this is DATA, in order to improve the overall efficiency to optimize production in the fields. The standardization is a store for a successful data management. It enables to re-enforce a strong basis for data quality.

Now, "DATA" has become the basis for all decisions, from exploration to day-to-day operations, from production forecasts to development planning for each field. In addition, data governance has important implications for the success of the company through the good quality of data.

ETAP receives daily production data from many different assets. The data received is not uniform and does not follow any standardization policy. For this reason, ETAP seeks to optimize the use of existing data management technologies and solutions to manage and improve their workflow, from standardization to data collection and database integration going up to visualization and reporting. Technology is one of the ingredients that contributes to the understanding of the different scenarios encountered during the field study.

Upgrading existing solutions involves process improvement, automation and data visualization, which provides proactive monitoring of Tunisian oil and gas production from all wells. With the company's upstream data management strategy, production technologists and reservoir engineers are now able to work more efficiently to improve well productivity and instantly detect issues.

As such, this paper will present the implementation of the upstream data management system and will highlight the significant improvement in visualization as well as timely reporting. The document also details the impact of E&P data management and the strategy taken by the company to ensure success.