

Analyzing the Technological Capability of National Iranian South Oil Company and Determining the Existing Technological Gap to Offer Improvement Solutions (Case Study: Oil and Gas Projects)

By

Abdolaziz Saedi Nia^{1}*

Abstract

Today, technology plays a major role in the competitiveness of enterprises. Employing modern and advanced technologies allows enterprises to offer better products and services with lower prices and better features (in terms of quality, flexibility, reliability, and so forth). In addition, technology may lead to creating and distributing new products and services into the current market or new markets. Therefore, technology can improve the competitive advantage of an enterprise, and the lack of attention to it can lead to the loss of market share. On the other hand, due to the increased rate of technological developments and introduction of new technologies, reduced lifespan of technologies, and that they are becoming more complex and costly, the need for technology management is inevitable. This paper seeks to use Panda and Ramanathan's assessment model to analyze technology needs and the capabilities level of the existing technologies in oil and gas projects. In this model, the capability levels of enterprise are assessed from 3 primary and 9 secondary dimensions. In addition, the enterprise status at each dimension is determined and a number of recommendations are given to narrow the existing gap.

Keywords: *Technology, technological capability, technology assessment, technology need assessment model*