

## **4 Team 4 OIL and GAS Operations Executive Summary**

The crisis facing the oil & gas industry has endangered even the most stable organizations. The issues with fluctuating supply and demand tactics has resulted in low oil prices for prolonged periods of time. This includes the instability in upstream operations as they have seen a decline in efficiency and asset reliability while undergoing increases in operating and maintenance costs. To compensate for the losses, organizations are cutting down on capital expenses by selling assets, cutting down on projects, drastic labor cuts and deferring investments.

This model of expansion and contraction creates instability within organizations and its operations. Thus, there is an urgent need for a more efficient and profitable operation without compromising health, safety, environment and quality performances. This report aims to provide an insight in to the business and operational issues present in the current market situations with the help of case studies and literature reviews.

The actions recommended from this report are to integrate technology through better data collection and leveraging IT solutions to monitor processes reducing overhead costs in labor and equipment. Centralization of resources and data analytics are two of the main ways which are discussed in the report through case studies which have already demonstrated real savings to the industry. Future recommendations of cloud solutions are suggested which will have a further impact on operational efficiencies.