

**Abstracts Participantes**  
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# Reliability of rotative equipment at digital transformation era

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## **Key Words:**

Reliability, plant yield, rotative equipments, big Data, digital Transformation

## **Abstract:**

Nowadays, technical services department at oil&gas plants face a major challenge, which is to quickly adapt to new arising technologies in order to increase the reliability of the equipments; thus, keeping the plant continuously producing at maximum safety standards.

More and more information is becoming available to Engineers who may not be able to use them conveniently in order to take effective decisions at an efficient way. This problem may be a consequence of fast technology development in a new digital era along with lack of trained people' skills, together with time scarcity as well as natural learning curve factors. Additionally, both software and hardware development performances speed are assymetric and this may impact on the technology deployment.

As this theme is quite large in scope, this paper will focus at rotative equipments (centrifugal pumps, compressors of all kind- rotatives, alternatives, centrifugal...-, gearboxes, etc,) along with the driver equipment (we will center on electrical motor), and how all the massive currently available information related to these equipment could be used by the Engineers in order to increase not only their reliability but their lifetime. As a matter of fact, the increase on the reliability of the dynamic equipment has direct consequences in the performance of the plant, not only enabling to avoid loss of production but as well increasing the safety of the facilities.