

876 – Digital solution construction for asset monitoring, the dual strategy importance

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Abstract: In the last decade or so, the company has been working on the development of solutions for Industry 4.0, both for internal applications in its production lines, as well as for offering to the market. This dual strategy has generated operational efficiency gains and, more recently, increased business for the company. This paper intends to show some cases using a cloud-based solution for on-line monitoring and advanced management of equipment and industrial assets. Two special cases are presented, one 150kW electric motor bearing fault detection with artificial intelligence algorithm and other, a vibration analysis at cloud software of a 375kW electric motor; in this case the analysis is oriented by the ISO20816 standard. One of the main benefits noted at company due to the 4.0 maintenance practice is the total cost of ownership (TCO) reduction at the company wiring factory plant. In this case, between 2019 and 2021, an 7% increase of overall equipment effectiveness (OEE) avoided an investment in the order of R\$ 21 million (USD 4,15 million).