

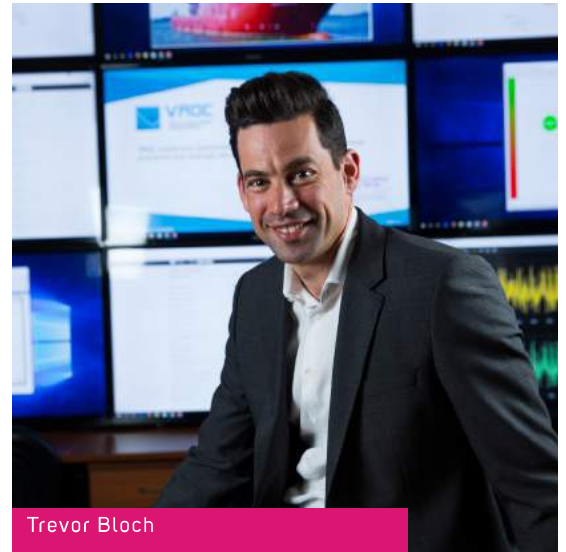
ORGANISATION: **VROC Australia Pty Ltd**  
PROJECT NAME: **VROC Intelligent Asset Management**

VROC is a predictive analytics solution utilising artificial intelligence and machine learning technologies. VROC was designed specifically to solve the 'Big Data' challenge for companies operating and maintaining industrial plants and equipment.

The innovation is a predictive maintenance software-as-a-service (SAAS) solution. The VROC system is designed to work on any industrial machinery across a broad range of industries including water, wastewater and desalination plants; oil and gas facilities; mining processing facilities; power stations; ships; container cranes; and smaller equipment such as elevators in commercial and residential buildings. The VROC system streams data from the sensors and equipment already installed at the client facility into the VROC data centre. Using our innovative machine learning and advanced analytics algorithms, the VROC servers use the information gathered to predict when each piece of equipment at the client facility is likely to fail. It does this by modelling the normal operation of the plant and equipment, modelling what past failures look like, and using that information to

detect the extremely small signs that indicate a failure is imminent. VROC then provides a series of user customisable live dashboards calculated in real-time to display the equipment likely to fail in the near term and provides a quantified estimated Time to Failure (TTF), and a confidence level of how confident the system is in making the prediction.

The TTF allows the plant operator or maintenance personnel to prioritise their maintenance program and allows them to order parts, arrange external expertise, plan a workaround, and repair the equipment before it fails and causes them costly plant downtime and potentially dangerous situations. The SAAS model provides new customers with a low cost entry point as they require simple streaming of their data to the VROC system which allows us to start assisting them with failure predictions.



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