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Press Release

Digital data means online upgrades at Techenomics

The development by Techenomics of more advanced digital data capabilities, including real time data, will enhance the company's predictive maintenance services providing clients with even greater performance and life from their lubricants.

Undertaking this step-change means introducing new technology and upgrading existing online systems to capture more data and provide real time analysis and reports.

Techenomics is working with consultants to bring this to fruition, including Melbourne-based IT expert Peter Byrne, who is upgrading online systems, and Murdoch University Engineering student Brice Gower, who is developing remote sensors to capture data.



Chris Adsett, CEO of
Techenomics International

The company has also appointed Newcastle University graduate chemical engineer Steven Adamthwaite as Project Engineer for the development and implementation of Techenomics' upgraded Blue Oceans software package.



Steven Adamthwaite



Brice Gower



Peter Byrne

CEO Chris Adsett says the gathering of data by using an Industrial Internet of Things (IIoT) network, and interpretation of the data by Intelligent Algorithms are playing increasingly important roles in optimised mining operations and as such, Techenomics is on a quest to help customers gain more from oil and lubricants.

"This places greater demands on online capabilities and Peter Byrne is researching and examining structural changes to our online systems."

Peter Byrne aims to bring the software used by Techenomics up to date so that it is capable of supporting the company's digital data aims across its areas of operation.

He says this work includes creating one database so that staff in various countries can work from the same page. The upgraded software system will also include a report generator which will be easily accessed by employees and clients.

“Users will be required to input more data so that Techenomics can provide more relevant comparisons and trends between components and vehicle makes and models.

“For instance, this will enable Techenomics to track and analyse the effectiveness of a type of gearbox in a certain make and model of vehicle and compare that with other gearboxes in the same vehicles in different countries.

“Although the reports generated will look similar, the data structure behind them will be totally different.” Peter Byrne says facilitating real time data will require further software refinement owing to the vast amount of data being generated.



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“Real time data is generated every few seconds, which means if you have 20 or so different measurements coming in from an engine every few seconds, there is a vast amount of data that must be captured, stored and interpreted.

“Is all this data kept or is it summarised in some way and only the relevant data provided in real time reports? It is no good storing the data and then providing a report from the relevant data in a few weeks, as it is not real time.

“The challenge is how to get data from a truck driving around a mine site in Mongolia and present it to management sitting in an office in another country to let them know there is an issue with that vehicle.” Chris Adsett said this process would allow Techenomics to provide more ad hoc reports from the entire database using the increased amount of data, thus providing a more comprehensive service for clients.

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