

Optimizing efficiency through digitalization in chemicals, petrochemicals and refining
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Exclusive Speaker Interview



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1. What does the subject of digital transformation and IoT mean to you?

To me, digital transformation showcases how our engineers make faster and precise decisions by using available tools in the digital environment. On the other hand, IoT allows engineers bring their equipment/ devices nearer by getting actual parameter at side and understand equipment behaviour.

2. What's the greatest impact IoT, data analytics and AI will have on the industry? What lies ahead of operators and how will they adapt?

The greatest impacts are it ensures less complications, cost-saving, faster and precise decision-making. IoT will dominate O&G since it helps to reduce costs due to fewer human intervention. Fewer people are required to do the equipment failure prediction, lean and transparent in term of the work process. Operators will need to be more adaptable on system changes and resilient with the challenges that come with it.

3. How will this paradigm shift affect the classic production process and manufacturing value chain?

This shift will positively affect the production process and manufacturing value chain as it will ensure a more standardized format with a central monitoring, towards a risk-based maintenance and lean approach.

4. Will Artificial Intelligence replace humans working in oil and gas?

No, Artificial Intelligence might help in terms of giving the right information especially in predicting the future but human intervention is still needed at the final stage when it comes to concluding the decision.

5. What impact does Big Data have on operational efficiency and how is Big Data changing the industry?

Big Data helps users to focus on the issue rather than guessing or having to study it. More software and solutions will be deployed to cater more Big Data issues and translate it in the meaningful manner.

6. With these radical changes looming, what opportunities lie ahead for manufacturers?

These changes allow manufacturers to save operation costs and be more efficient in their work processes.

7. What will be the highlight of your presentation at Asian Downstream Summit?

My presentation will highlight on how Big Data can help to change the current maintenance philosophy from time-based to risk-based. Not only that, I will be discussing on how online or offline data can be seen as supporting tools for engineers to make the final decision.