Transformative technologies

These technologies have seen significant development and evolution over the past few years, and the pace of innovation is increasing. As innovation accelerates, transformative technology trends start to converge. Synergies between these technology trends drive exponential, rather than linear, change.

A fundamental enabler
Allows operators to manage plants remotely with faster, regulated, and reliable connectivity. Private 5G technology enhances security and optimizes operations and logistics at chemical plant sites.

Tools to improve industrial inspection
Robots and drones have the potential to transform long-standing business models and operations during plant maintenance.

Private 5G technology enhances security and optimizes operations and logistics at chemical plant sites.

Increase transparency
Blockchain solutions can be used to improve reliability of logistics across supply chains using a de-centralized ledgers. This eliminates the need for intermediaries when paying for transactions using smart contracts, with a pre-programmed set of conditions. Other applications are also under trail for smart contracting by commodity trading companies – reducing transaction costs, increasing speed and adding transparency.

Manufacturing processes in the chemical industry, as well as the types and volumes of products that will be produced, could be significantly impacted by these transformative technologies. But how aggressively are manufacturers moving to adopt?

Understanding the opportunities and the impacts of these technologies in today’s world, requires an understanding of the various technologies and the pace at with they are developing, to be better prepared.