

ADNOC drives its digital transformation with the Panorama Digital Command Center

ADNOC's Panorama Digital Command Center is a fully integrated, real-time data visualization center that helps gain insights, unlock efficiencies, and identify new pathways to optimize operations. AVEVA's System Platform, InTouch Operations Management Interface (OMI), and Unified Supply Chain are the foundation of the display, enabling integration across various systems and providing actionable insights.

Business Transformation

The Abu Dhabi National Oil Company is the state-owned oil company of Abu Dhabi and the principle catalyst for the Emirate's development. ADNOC's business spans exploration and production all the way to distribution, and sensors track even the most minute assets throughout the entire process. There are easily tens of thousands of data points that need to be tracked and analysed to optimize operations.

The Panorama Digital Command Center, which takes up an entire floor in ADNOC's headquarters, does just that. It is a fully integrated, real-time data visualization centre that empowers ADNOC's sharpest minds to gain insights, unlock efficiencies, and identify new pathways to optimize performance. It features a 50 metre long screen, which curves to fit seamlessly with the wall and covers its height from floor to ceiling, giving ADNOC a single, national view of their oil and gas assets and production.

The company set out ambitious plans in November 2018, announcing that it would increase oil production capacity to 4m barrels per day (bpd) by 2020, and 5m bpd by 2030. ADNOC also hopes to leverage the nation's gas resources to transform it from net gas importer to net gas exporter. For ADNOC, technology is a key enabler of this progress, and they have been Industry pioneers when it comes to leveraging disruptive technology to gain measurable business results.

ADNOC's primary digital transformation goals included:

- Empowering strategic decision-making and increasing collaboration across the enterprise
- Fully aligning the ADNOC operations value chain, reducing the cost of production and maximizing net profit
- Improve asset reliability, availability and performance while improving unplanned equipment downtime

ADNOC is using its data to develop new tools that integrate all of their critical equipment into the digital value chain. The aim is to leverage analysis of historical data to develop predictive maintenance capabilities and identify, ahead of time, maintenance requirements, understand the impact on other equipment or areas of the value chain, and better plan for and respond to those requirements.

Measurable Results

- ADNOC's Panorama Digital Command Center enables savings between \$60m to \$100m through optimized operations
- Their pioneering use of technology enables unique visibility across operations for improved business agility by integrating and monitoring 10 million+ tags across 120+ dashboards
- Integrated and centralized monthly operating plans from 14 subsidiaries delivered through the Panorama Digital Command Center
- Visual management up to 700 times faster

To find out more about this unique facility, watch the video: <https://sw.aveva.com/success-stories/adnoc>