



IMPLEMENTATION OF AI IN LARGE-SCALE OIL AND GAS PROJECTS.

DIGITALIZATION OF THE OIL AND GAS INDUSTRY.

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From machine learning to computer vision, deep learning to virtual assistants and autonomous vehicles to robotics, **NCOC has been focused on a range of technologies that have supported advances in AI.**

****NCOC** is developing an operational model that integrates AI into the processes, from the well to the contract.**

Beyond automating tasks, the real value lies in transforming the decision-making process.

Digital Strategy

AI Enabling Excellence



HSSE

- **Focus:** Enhance HSSE data with AI, reduce frontline exposure to high risk, enable electronic permit-to-work
- **AI Component:** Behavioral analysis and anomaly detection, Restricted Area Control, Unsafe Behavior Analytics
- **Value:** Reduced exposure to operational hazards and environmental risks



Operational Excellence

- **Focus:** Protect high reliability, enable predictive maintenance, digital oilfield and twin
- **AI Component:** Advanced analytics and scenario analysis to support operational decisions, Well and equipment anomaly detection
- **Value:** production optimization and reduction of maintenance efforts



Effectiveness

- **Focus:** Intelligent Business Processes, enhance operational visibility
- **AI Component:** AI Agents, intelligent procurement, detection of anomalies and risks
- **Value:** OPEX reduction and process efficiency gains



Foundational Enablers

- **Focus:** Unlock AI and data, scale out digital infrastructure, leverage digital platforms, enable digital upskill
- **AI Component:** Usage of AI Technologies and Machine Learning to automate routine tasks and improve efficiency
- **Value:** faster analytics, improved systems uptime, faster tech adoption



Pioneering Excellence 4Ps



Backup slides