Solutions for
Oil & Gas

Driving the transition of the Oil & Gas sector

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MINSAIT

Digitalizing energy companies

Driving the transition in the Oil & Gas market

Nowadays O&G companies are experiencing a challenging transformation. Achieving operational excellence, increasing workforce productivity, guaranteeing business continuity and resilience, attracting and retaining talent to the industry and keeping a profitable growth are amongst the top priorities for O&G sector. However, strong commitments with sustainability like progressive decarbonisation towards Net Zero are in the strategic plan of most O&G operators.

Refineries are renovating into multienergy hubs, creating new production models to go through energy transition and sustainability: Renewable generation, circular economy, green hydrogen, biofuel, synthetic fuel and energy efficiency. All of this without losing focus in profitability and asset management.

Retail transformation in order to attract, know and hold a new generation of clients more digitalized and with new needs that come from mobility and other priorities of the sector.

Digital lever renovates companies culture to new work "Data-Driven" models and attracts talent to the sector.

Overcoming the challenges to preserve the O&G sector

At Minsait we respond to these challenges by covering the entire value chain with our own digital solutions, third-party products and the provision of specialized monitoring and consulting services. All of this complemented by our international team of more than 1,000 professionals who have in-depth knowledge of both IT/OT and the O&G market.

Solutions for Asset Management

- Inventory, analysis and use of data from assets facilities or complex energy models based on IoT and an Open-Source Platform that facilitates field devices interconnection and allows monitoring of processes.
- Integration of different data sources and systems to monitor and detect asset integrity threats.
- Integrable Mobility Solutions with management systems that cover inspection, attention and maintenance rounds. Paper-less processes.
- Asset Performance Management solution for predictive maintenance.
- Security solutions for assets, people, and facilities, using monitoring with video using advanced analytics (Contextual Intelligence) to give a more complete use of security: EPIs control, facilities and space.
- Automation of inspections using drones, IoT devices, VA and IA, Edge Computing and Digital Twin.

Solutions for environment and sustainability

- Solutions for evaluation and quantification of environmental impacts to manage natural capital risk in projects.
- Automation system for early detection of hydrocarbon spills in sea surface, using a combination of different active sensors with intelligent algorithm.

Digitalized retail solutions

- Advanced analytics for the analysis of consumer behavior and attendance.
- Analytical video solution for the monitoring and detection of events in the surroundings of a petrol station.

Promoting operational excellence, productivity and sustainability

Asset Management Optimization

- Optimizing the operational efficiency through a central repository for all data from our assets and our IoT&Edge platform that facilitates field devices interconnection into a common operational data repository, avoinding information silos.
- Preventing threats in assets integrity and improving the decision-making.
- Empowering field operators and increasing their efficiency.
- Minimizing production losses and unplanned downtime in critical assets.
- Minimizing risk exposure and increasing the security of assets, people, and facilities.
- Automating inspections using drones or robots.

Sustainability of the Oil & Gas sector

- Guaranteeing the respect of environmental law and reducing carbon footprint, actively monitoring regulations' compliance
- Reducing environmental impact in critical operations.

Retail Digitization

- Improving the income thanks to contextual intelligence of the attendance of filling stations.
- Increasing efficiency in operations and improving security through the smart station.

-15%
reduction on maintenance cost

+20%
improvement in flexibility operations, efficiency and security

-15%
reduction in energy consumption and carbon footprint of assets

+15%
improvement in assets availability ratios.

Selected references

Tech for impact

We connect talent, technology and businesses to generate positive and sustainable growth and impact.

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