

Oil & Gas Industry

GOARC Safety 4.0 – Integrating advanced technologies on a centralized platform for proactive risk management and process safety in the Oil & Gas industry

The dynamic oil and gas industry faces multiple challenges, including fluctuations in global demand, production efficiency, volatile prices, strict environmental regulations, and operational hazards. A source of vulnerability and concern, these challenges are compounded by the risks posed by ageing infrastructure and obsolete technologies. With a lack in real-time status of the employees and the tasks in the field, combined with missing the full view and communication gaps regarding hazard situations, accidents, contractors, remote precise tasks, and emergency situations, the Gas & Oil industry is experiencing major changes.



GOARC's safety solution breaks down information silos, providing dynamic risk management and process safety based on enhanced connectivity. The GOARC platform fully integrates with equipment, software, IoT, sensors and other sources, enabling remote monitoring and real-time data visualization in a single command center. The technology-based platform provides data-driven decision-making capabilities with AI-based preventive analytics and insights. A central source of reliable data consolidates information, monitors and tracks workers, equipment, tasks and maintenance procedures to improve operational performance, enable fast response, and ensure correct actions for an efficient and safe environment.

In a dynamic environment with multiple operational risks involving complex equipment and production processes, the key to worker safety is connectivity, process improvement, and proactive safety management. GOARC's platform connects management, workers, assets, and processes, empowers connected workers, provides constant worker awareness and reliable communication in an integrated system that enables a focus on prevention and the highest standard of operational efficiency to improve safety while creating value and increasing sustainability.

Integrated data and advanced analytics

Track and monitor operations and work processes and gain critical insights with dynamic, centralized data transfer from the field

- Seamless flow and integration of data including external and internal data sources, IoT sensors and other connected equipment, operational data, real-time worker status and equipment checks
- Centralized data visualization with AI and ML analytics for improved and rapid decision-making, facilitating proactive corrective and preventive actions
- AI-powered actionable insights for safety and informed risk assessment
- Effective and timely identification of potential hazards and equipment malfunctions
- Connected worker – monitor sensor-equipped wearable devices for injury prevention, biometrics and performance-related data to identify fatigue, falls, etc.
- Visual reports and notifications from the field, workers as proactive part of feedback loop
- Data-driven insights to make faster, better decisions
- Multi-directional flow of information and communication improve processes and overall performance, enables real-time alerts and notifications, fast response time



Integrated command center

- One source of information – a centralized network collects and aggregates massive amounts of data, breaks down silos of information
- Integrate data, analytics, and workflows
- Updated records and investigation reports, analysis
- Real-time alerts and response, rapid emergency management
- Enhanced communication from the field, greater worker awareness and engagement



Enhanced process safety and operational efficiency

- Tracking & Scheduling of key safety features such as pressure, temperature, measurement percent value, desiccant change, oil change and more
- Identify risks and ensure timely incident escalation
- Real-time information availability including emergency procedures and relevant safety documents for machinery operation and product handling
- Close skill gaps, build competencies, promote informed, engaged and safe workforce
- Connected safety: data-driven personalized safety insights and training, guidance
- Improve production performance and quality



GOARC's Value

Reach Operational Excellence with GOARC's technology



AI & Machine Learning

Artificial intelligence and machine learning to identify and monitor predictive and prescriptive metrics, delivering dynamic reports based on real-time analytics for optimal risk and safety management.



Connected Worker

GOARC's Connected Worker solution enables a full digital view of facility activities, converging personal and process safety with integrated information from all sources enabling fast data-driven decisions at the right time.



Command center

The only centralized command center with real-time data visualized. Combining command, control, communications, computers, and intelligence together in one source for a full digital view of facility operations

Unique Visualization and Dynamic Personalized Routines

- Permit to Work
- Shift Management
- Operator Rounds
- Emergency Preparedness
- Audits
- Emergency Management
- Asset Management
- Hazard Management
- Incident Management
- LOTO

Our Solutions



Control of Work

- Flexible system with dynamic routines and workflows
- Data support investigation and corrective action
- Analyze all work processes across the facility and set and monitor KPI's



Critical Event Management

- Integrated end-to-end emergency communication and handling
- Detects anomalies and notifies workers with push notifications
- Emergency equipment audits, training and emergency drills



Asset Performance Management

- Track, analyze and manage asset lifecycle
- From inspections to maintenance with a standardized and optimized process
- Analyzes device properties to predict failures and performance degradation



Health & Safety

- Proactive protection against potential dangers
- Data-driven actionable insights and alerts
- AI-enabled analytics and case management tools

Industries



Mining



Oil & Gas



Chemicals



Petrochemicals



Pharma



Utilities



Manufacturing

Trusted and used daily by



About GOARC

GOARC's Industrial safety solution delivers a real-time view of a plant's operational reality with superior visualization and dynamic work activities and risk management. It connects people and aggregates disparate data from systems, sensors, and the human-derived activities – delivering meaningful, actionable insights across the organization.