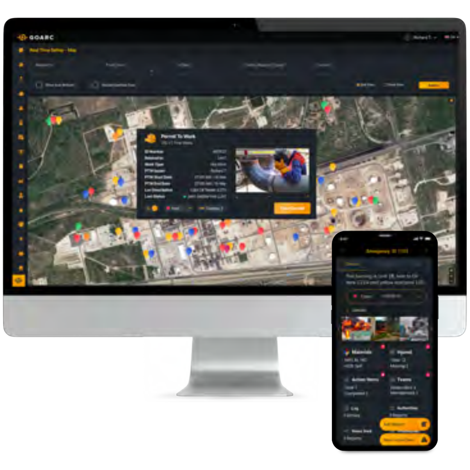
GOARC

Mining Industry

Leveraging smart technology to improve risk management and protect worker health and safety in the mining industry

Having controls in place with effective connectivity and communication is critical in mining operations. The need for proactive and preventative measures and reliable remote monitoring capabilities underscores the importance of having a cohesive picture of all aspects of operations for optimal situational awareness. Resilient risk management and safety relies on handling vast amounts of data from vehicles, equipment, workers, inspections, and remote drilling locations. Centralized control and accessible information are vital to identify potentially hazardous interactions and combined risk factors and enable mine operators to practice proactive and preventive maintenance, optimize machine uptime, and protect workers.



Dynamic Risk Management

Having controls in place with effective connectivity and communication is critical in mining operations. The need for proactive and preventative measures and reliable remote monitoring capabilities underscores the importance of having a cohesive picture of all aspects of operations for optimal situational awareness. Resilient risk management and safety relies on handling vast amounts of data from vehicles, equipment, workers, inspections, and remote drilling locations. Centralized control and accessible information are vital to identify potentially hazardous interactions and combined risk factors and enable mine operators to practice proactive and preventive maintenance, optimize machine uptime, and protect workers.

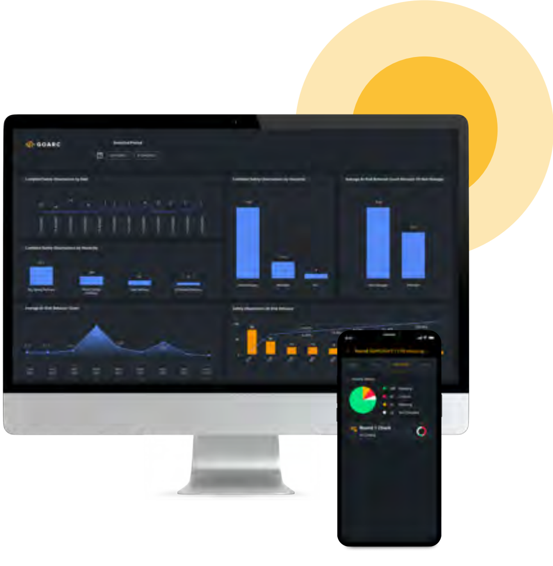
Dynamic Risk Management

Safety cases are no longer static documents but rather integrated into an operational safety environment that allows for real-time barrier analysis and cumulative risk assessment. GOARC's Permit to Work software seamlessly integrates the cumulative risk assessment with the permit to optimally decrease the risk level. Data is available 24/7 and is constantly refreshed, enabling smart and rapid data-based decisions. Data and details made available by the GOARC Permit to Work module include photographs and videos of the field, timestamp, location stamp, diagrams, charts, clips, storage and retrieval information, and more.

Data integration and advanced analytics

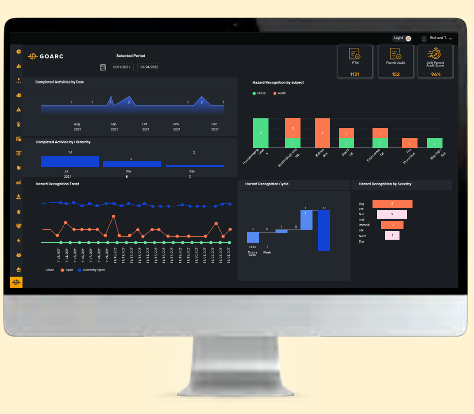
View and monitor operations and gain critical insights with data on the real-time status of workers underground and tasks in the field to maximize personal and process safety.

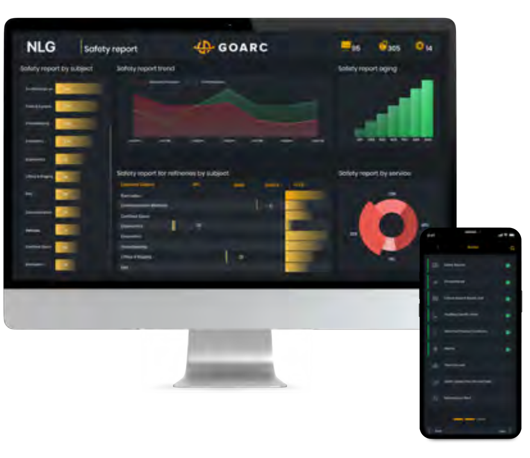
- Centralized data visualization with advanced AI and ML analytics for improved data-driven decision-making, predictive analytics for risk identification and assessment
- Seamless flow and integration of data across mining operations, including internal and external data sources, IoT sensors, connected workers with PPE and mobile devices, employee report analysis
- Bi-directional communication between connected workers, supervisors, and control center enables real-time notifications and response time and hazard alerts to prevent dangerous collisions and accidents
- Reliable, actionable insights for informed risk assessment
- Access valuable data in the field to improve safety performance; records and investigation reports: explosions, falls of ground, environmental concerns



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





Connected worker, processes, and assets

Consolidates critical data from all sources to support worker safety and facilitate critical event preparation, prevention, and management in a connected environment.

- Permit-to-work activities to control potential escalation
- GPS location pinpoints reported risk events
- Configured map indicates safe-haven locations and emergency egress routes
- Wearable detectors and transmitters monitor air quality, track remote worker location and progress of emergency team
- Active learning from reports
- Access to critical information in the field, standardized and accessible personal and process safety procedures
- Skills training for the younger workforce, retaining information and experience
- Gamification

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

teva ICL DEKRA Delek Keppel FirstEnergy CARMOCHROME

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.

☎ +972 2 5679078 - US +1 (216) 553 9005 www.go-arc.com