



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

Many workplace safety incidents are machinery related, whether from operating heavy machinery, human/machine interactions, or malfunctions. Injuries can range in severity from cuts, lacerations, and falls to more serious accidents. Machine parts and functions that can cause injury must be operated with appropriate protective equipment and safety procedures. Equipment failures stemming from ineffective maintenance and monitoring can cause unplanned downtime, reducing productivity and production capacity and affecting revenue. Improper handling of hazardous materials during the manufacturing process can lead to burns and exposure to toxic substances, and components damaged due to inefficient control of the work environment can impact quality, assemblies, and the final product.



GOARC's safety solution breaks down information silos, providing dynamic risk management and process safety based on enhanced connectivity for the manufacturing environment. 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 decisionmaking capabilities with Al-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 manufacturing environment.

In a dynamic manufacturing 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.

Track and monitor operations and work processes and gain critical insights with

Integrated data and advanced analytics

dynamic, centralized data transfer from the field

gain critical insights with dynamic, centralized data transfer from the field Centralized data visualization with AI and ML analytics for

Track and monitor operations and work processes and

- improved and rapid decision-making, facilitating proactive corrective and preventive actions Al-powered actionable insights for safety and informed
- Effective and timely identification of potential hazards and equipment malfunctions

risk assessment

- Onnected worker monitor sensor-equipped wearable devices for injury prevention, biometrics and performance-related data to identify fatigue, falls, etc.
- O 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 analyzes huge amounts of data
- Updated records and investigation reports, analysis

awareness and engagement

Integrate data, analytics, and workflows

- Real-time alerts and response, rapid emergency
- management Enhanced communication from the field, greater worker





Tracking & Scheduling of key safety features such as pressure, temperature, measurement percent value,

operational efficiency

Enhanced process safety and

- 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
- engaged and safe workforce Connected safety: data-driven personalized safety

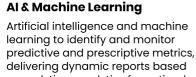
Close skill gaps, build competencies, promote informed,

Improve production performance and quality

insights and training, guidance

Connected Worker

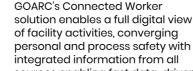
GOARC's Value Reach Operational Excellence with GOARC's technology



on real-time analytics for optimal risk and safety management.

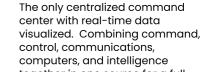
Permit to Work

Emergency Management



sources enabling fast data-driven decisions at the right time.

Unique Visualization and Dynamic Personalized Routines



computers, and intelligence together in one source for a full digital view of facility operations

Emergency Preparedness

Command center

Incident Management

Audits

LOTO

Our Solutions

Operator Rounds

Hazard Management





Flexible system with

dynamic routines

investigation and corrective action Analyze all work

processes across

the facility and set

and monitor KPI's

and workflows

Data support

Shift Management

Asset Management



communication

Detects anomalies

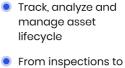
and notifies workers

and handling

with push notifications **Emergency** equipment audits,

training and

emergency drills



Asset Performance

Management

standardized and optimized process Analyzes device

properties to

maintenance with a

- predict failures and performance degradation



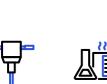
Al-enabled

analytics and case

management tools

Health & Safety

Proactive protection















Trusted and used daily by

Mining

teva



Oil & Gas



DEKRA

Chemicals







FirstEnergy



Manufacturing

About GOARC

Petrochemicals

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.