Corporate Business Resiliency & Information Management Solution: Improving Situational Awareness and Incident Management • Delivering Decision Support

At-A-Glance

The Challenge
An increasingly complex geo-political landscape. Increased threat and risk levels. Greater public expectations surrounding health, safety, regulatory and environmental issues. These challenges make operations more complicated for corporations and site operators in the extractive industries. As a result, companies need real-time intelligence-led solutions to help them protect people, data and the environment; secure assets; ensure uninterrupted business operations; and minimize reputational risk.

The Solution
AGT’s Business Resiliency & Information Management Solution helps companies in the extractive industries to identify, analyze and mitigate threats and risks to safety, security and operations. Driven by our innovative cloud-based IoT analytics platform and deep domain expertise, our solution generates unique and actionable insights for decision-makers, integrating data from all relevant sources with our clients’ operational knowledge and existing processes to help them better anticipate events, make smarter decisions, improve daily operations and handle incidents more quickly and efficiently.

Our mission is to ensure business resiliency by identifying, monitoring, analyzing and visualizing relevant safety, security and operational risks. To this end we provide IoT-specific analytics and decision support that enable effective, safe operations, and superior handling of emergencies, incidents and crises.

Our Business Resiliency & Information Management Solution:
• Collects and stores for processing information from multiple IoT subsystems and sensors
• Fuses, filters and applies advanced IoT analytics to collected data in order to identify the most relevant information
• Visualizes relevant information using layers to increase situational awareness
• Provides a complete suite of incident management tools for tiered response procedures
• Delivers integrated applications for corporate safety, security and incident management
• Delivers specific safety, operations and security applications for oil, gas and mining production sites
• Is scalable, flexible and modular, and built in consultation with our customers
• Supports a wide variety of other integrated partner applications and analytics

Key Capabilities

IoT-specific Analytics & Modeling
Automatically identifies emergencies and abnormal events and patterns in real time using analytics, and as defined by domain experts and system users.

Information Management
Automates data collection and management; integration of databases, IoT sensors, systems and online information; data fusion, analysis and dissemination; and alerts.

Intelligence
Collects, correlates, analyzes and disseminates critical intelligence and alerts, providing operational teams and analysts with an integrated, intelligence-led situational picture.

Incident Management Suite
A comprehensive suite of incident management tools enables efficient collaboration and supports individual, site and operations activities.

Visualization / Situational Awareness
Delivers a real-time common information picture that integrates disparate information from multiple domains and is visualized in a multi-layered scheme over GIS, disseminated to all users.
Risk Management & Audit Trail
Helps users monitor alerts, risks and threats at the site and corporate levels.

Exercises & Simulations
Situation playback and simulations are available for audits and debriefings; exercises and reference scenarios enhance readiness.

Concept of Operations (CONOPS) Integration
Design, integration and organization-wide implementation of best practices and operational procedures from different domains.

Interconnectivity & Collaboration
Connects IoT data and devices from diverse (new and legacy) systems, enabling effective collaboration between departments, functions and geographically dispersed individuals.

Decision Support
Situation-specific first-responders procedures linked with standard operating procedures and CONOPS provide first-responders and decision-makers with instructions for dealing with routine operations, emergencies and crises.

Solution Architecture
Our cloud-based IoT platform, ReadyMIND, is a service-oriented architecture (SOA)-based software platform with multiple sector- and environment-specific applications. It is deployed in several diverse operating environments, all of which have extreme crisis management and business resiliency requirements.

Applications
Corporate Applications
AGT provides applications for operations, corporate safety and security and business resiliency.

- IOC incident management capabilities for tiered response
- Common operating picture and corporate dashboard
- Integrated multi-mode intelligence
- Integrated asset database (static and dynamic)
- Collaboration, messaging and notification
- Corporate-wide travel risk management (TRM)

Site Applications for Oil & Gas and Mining
AGT provides applications targeting operations, safety, security and business resiliency for upstream oil, gas and mining.

- On-site emergency and incident management
- Common operating picture and site dashboard
- Decision support and alerts for specific threats and risks
  - Remote monitoring and safety of mining and oil sands tailing ponds
  - Effective, safe and secure waste water hauling for shale oil and gas production
  - Gas leak detection and safety of people (on site)

Benefits
AGT’s Business Resiliency & Information Management Solution supports efficient and safe operations, and mitigates the impact of emergencies and incidents on people, assets and the environment.

- Effective site operations, resulting from the fusion of and application of analytics to disparate safety-, security- and operations-related IoT data
- Real-time organization-wide and site-specific common information picture
- Proactive corporate and site-specific risk identification, assessment and mitigation
- Improved prediction, readiness and management of events, emergencies and incidents
- Stronger collaboration between internal and external stakeholders
- Enhanced compliance with best-in-class emergency procedures
- Continuous learning and improvement through event debriefings

About Us
AGT International is a privately held multinational company headquartered in Zurich, Switzerland that specializes in the Internet of Things (IoT), including IoT analytics and applications, cloud solutions and professional services. AGT’s solutions enable optimization of manufacturing operations, city management, traffic flow, hospital administration, school connectivity and the safety of senior citizens at home.

AGT’s analytics and software platforms enable our customers to improve efficiencies, reduce costs, increase transparency and introduce new business models. They include IoTA, an open IoT analytics platform for IoT application developers; CityMIND, an IoT solution for cities; and ReadyMIND, which facilitates IoT management of vital infrastructure, addressing both manmade and natural incidents.

For more information, please visit www.agtinternational.com.