

GlobeRanger Powering Innovation in Energy Production

Lower costs while improving productivity and safety in energy production

Improving productivity and safety in energy production operations requires improving the flow of information. The more timely data the enterprise has about equipment, systems, processes and personnel, the more efficiently it can manage them.

GlobeRanger helps energy producers reach unprecedented levels of efficiency and safety by providing data and visibility from new sources. Now, real-time input from sensors, industrial controls, smart meters, tools, equipment, fixed assets and more can be brought together and put into context to automate management and take time, labour, cost and risk out of operations.

Here is how GlobeRanger is helping solve some of the most persistent and pressing problems in the energy industry.

Increase Uptime

Help prevent costly disruptions by monitoring systems and environments therefore potentially preventing incidents before they happen. Assets can self-report their location, status, performance metrics and other information to GR-AWARE (GlobeRanger Asset

Watching and Reporting Engine). GR-AWARE accepts input from environmental sensors, flow meters and other sensors, control systems, Internet of Things (IoT) enabled devices, active RFID tags, M2M interfaces and more.

- Increase Uptime
- Improve Inspection Efficiency
- Reduce Tool, Asset and Material Inventories
- Improve Personnel Management and Safety
- Build Intelligence In, Take Cost Out

GlobeRanger's highly configurable iMotion™ Edgeware™ Platform lets you choose what data will be communicated back to host systems for analysis and archiving.

Flexible data collection and processing at the



edge allows organisations to filter input so they can manage by exception and receive real-time notification when user-determined thresholds are reached. You set what you want to monitor, what data you want to receive, when it should be reported and the automated response and alerts the system should make.

Having actionable information is what makes the difference between planned and unplanned downtime, and corresponding costs. GlobeRanger gives you the ability to create powerful new business processes and to enhance the performance of your existing production control, maintenance management, ERP and other systems by providing new types of real-time data through certified interfaces.

Improve Inspection Efficiency

Reduce the time and effort needed to complete inspections and keep mistakes out of the process by using GlobeRanger solutions to collect, validate, store and share information. GlobeRanger's mobile and RFID-enabled solutions ensure that all assets and locations to be inspected will be quickly and accurately located, identified and recorded.

GlobeRanger-supported mobile platforms and devices can function whether or not there is network connectivity and prompt the inspector so that all required information is collected. The automated solution eliminates slow,



error-prone manual lookup and data entry operations – which takes time and cost out of the process. Enabling automated inspection records makes it easy to produce, store and share reports, meet compliance requirements for archiving and reporting, and export data for additional analysis.

Reduce Tool, Asset and Material Inventories

Safety, continuity and efficiency depend on knowing where essential assets, tools and supplies are at all times. GlobeRanger provides energy companies the components and experience needed to identify and track all types of items in a wide range of operating conditions.

RFID tags can be permanently and discretely embedded or attached to assets, tools and equipment to authorize self-service checkout and provide automated, real-time location tracking. GlobeRanger solutions can provide location status, help locate needed items, issue alerts, prevent FOD (foreign object debris) incidents and create utilisation reports, as well as link to your legacy systems.

Improve Personnel Management

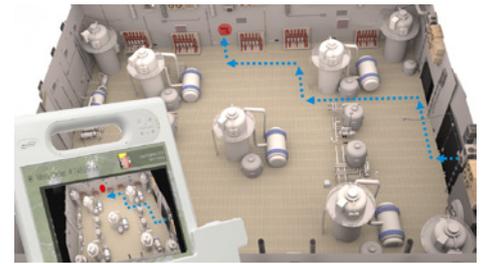
There can't be guesswork and delays when it comes to personnel safety. GlobeRanger's personnel tracking solutions can locate personnel and report their locations in case of emergency.

Other applications include access control, location monitoring, automated time and attendance and automatically recording tools, equipment and supplies that are allocated to employees.

Build Intelligence In, Take Cost Out

The ability to automatically identify, track and monitor people and materials provides the foundation to automate many processes. GlobeRanger is the pioneer in developing edge technology and solutions used in the energy, manufacturing, defence, supply chain, retail and other industries. That experience – along with our highly configurable and scalable software solutions and tools – enables solutions to be created and integrated very quickly, which minimizes deployment cost and reduces the time to full ROI.

To enable quicker deployment and time to value, GlobeRanger offers a suite of pre-built applications and development tools. GlobeRanger's **Visual Device Emulator** simulates real-world behaviour of tags, readers and sensor devices providing the ability to model actual deployment scenarios prior to equipment purchase. This eliminates the dependence on physical hardware for development, testing and integration of RFID systems.



GlobeRanger understands that energy companies need more efficient processes and better utilisation of assets. We can help remove these barriers to better profitability.

Ask yourself:

- What if you could improve your operations while at the same time improving safety?
- What if you spent more time preventing problems instead of fixing them?
- What are you waiting for?

Talk to GlobeRanger to see how you can make it happen.

Optimise facilities with better visibility of people, assets and inventory

Real-time M2M intelligence gives better visibility to potential problems



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GlobeRanger provides the most reliable, scalable, and flexible enterprise edge software infrastructure and solutions at the lowest total cost of ownership, enabling companies to harness data generated outside traditional IT environments to improve business processes. Specifications are subject to change.

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