

# Advanced solutions for the manufacturing industry

Delivering optimum efficiency through industry-leading AIT solutions

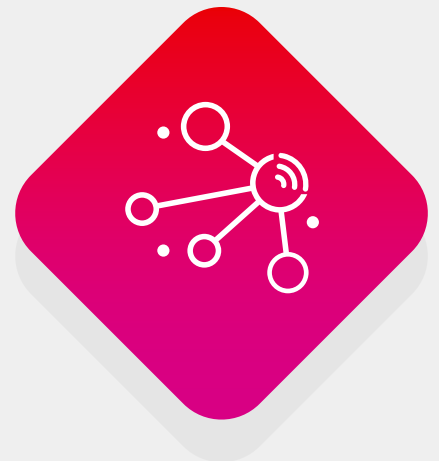


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# **Leveraging the Internet of Things, RFID and M2M-enabled business solutions to deliver near real-time logistics support for both process and discrete manufacturers.**

In an industry that depends on timely data and decision making, outdated and unreliable information systems can bring production to a grinding halt. GlobeRanger IoT and Asset Tracking Solutions help process and discrete manufacturers reach unprecedented levels of efficiency and performance by providing data and process visibility through IoT and RFID enabled solutions. Providing fast, accurate and reliable information, coupled with near real-time supply chain visibility drives this efficiency while informed decision making realises significant cost improvements.



## The enabled enterprise

GlobeRanger's industry-leading Internet of Things (IoT) solutions support all aspects of the manufacturing industry including materials receiving, inventory management, tool tracking, shipping and supply chain integration.

GlobeRanger's **iMotion™** platform helps optimise processes and eliminate redundant tasks, which can significantly reduce manual errors and labour costs, provide near real-time dashboards and alerts, and enhance visibility of asset utilisation.

Our turn-key solution approach includes a complete range of RFID tags, readers and supporting software that are engineered for manufacturing industry requirements. We also offer complete tagging and consulting services and can configure our software solutions to run independently or integrate with your legacy or ERP systems.

GlobeRanger's highly configurable iMotion™ platform lets you choose what data will be communicated back to your host systems for analysis and archiving. iMotion™ gathers, filters and processes data from this sophisticated network of devices and sensors located on assets throughout your organisation's value chain. Flexible data collection and processing at the edge allows organisations to filter input so they can manage by exception and receive near real-time notification when user-determined thresholds are neared or breached.

Your business rules determine what you want to monitor, what data you receive, when it should be reported and the automated responses and alerts the system should make. Having actionable information can make the difference between planned and unplanned downtime, and associated costs.

## Productivity optimisation

With GlobeRanger iMotion™, you can monitor queue times and improve visibility and productivity of manufacturing operations by gaining granular insight into the individual stages of production. With near real-time monitoring of workstations or work in progress, you can optimise personnel productivity and identify individual areas for improvement.

Environmental conditions such as temperature, humidity, shock and vibration can also be tracked to ensure the quality and sustainability of materials throughout the production process. Managers can even receive immediate alerts when specific activities extend outside of business rules or processing times.

## Improved asset management and supply chain visibility

Efficiency begins by knowing where essential assets such as people, tools, parts and supplies are at all times. This level of control enables next-generation solutions such as:

- » Scheduled planning via Just-in-Time (JIT) resourcing for both inventory and personnel
- » Near real-time measurement and monitoring of equipment utilisation
- » Visibility into inventory-on-hand so you can know exactly what you have and where it is.

## Asset utilisation and lifecycle management

Process efficiency can't occur unless the risk to production equipment downtime is mitigated. GlobeRanger iMotion™ lets you support lifecycle management by tying-in to digital monitors and sensors placed on assets and equipment. By managing environmental impacts such as temperature, humidity, shock and vibration, management dashboards can provide near real-time status and alerts regarding the current condition of assets throughout the various stages of the manufacturing process.

## Better regulatory compliance and reporting

If process efficiencies can increase productivity, regulatory compliance violations can stop it dead in its tracks. Compliance to governmental, industry or environmental regulations is therefore critical to production efficiency.

GlobeRanger iMotion™ can capture production information and provide automated or just-in-time compliance reports to fulfil regulatory and compliance-related reporting or audit requirements. With visibility into product and IoT control, GlobeRanger can enable historical data capture, dashboards and alerts for regulatory and compliance reporting.

### GlobeRanger advanced manufacturing solutions at-a-glance

**Advanced solutions for the aerospace and aviation industries that leverage AIT and M2M-enabled business solutions for airlines, MROs and OEMs, delivering significant cost and efficiency improvements:**

- Improved supply chain visibility to better support just-in-time and just-in-sequence MRP processes.
- Track and trace raw or finished goods inventory to improve location visibility.
- Environmental monitoring with real-time alerting to help improve Quality Assurance processes and customer satisfaction.
- Monitor and report on asset and equipment utilisation and lifecycle management.
- Better historical data for regulatory compliance, audit tracing and reporting.
- Improve profitability by reducing missing inventory and lowering inventory carrying costs.



**GlobeRanger simplifies and speeds up the development, deployment and management of Asset Tracking Solutions to connect organisations to the Internet of Things in weeks, even days.**



Our story from pioneer of Automated Identification Technologies in 1999 to market leader in IoT-enabled Asset Tracking, Management and Decision-making Solutions today has at its heart a simple but proven principle.

The digital evolution of our customers' organisations doesn't have to be complex, time-consuming, risky or costly – it simply starts with knowing where their assets are.

Using our proprietary iMotion™ platform and suite of applications, we choose best-of-breed devices, sensors and RFID tags and draw on our global experts to connect our customers' physical assets to their digital systems.

Then we help them turn their organisations into flexible, scalable and reliable connected ecosystems that deliver unexpected value.

In the short term, our focus is on early wins to meet their business case and ROI targets. In the longer term, our aim is to help them evolve in a carefully structured risk, cost- and time-managed way to

take their share of the fast-growing IoT market, estimated to be worth \$25 trillion by 2025.

Today that means delivering to our customers real-time visibility of their assets, more efficient end-to-end operations, optimisation of their processes, and proven accountability.

Tomorrow, that means enabling deeper organisational insight through asset data collection and analysis, opportunity mapping to transform the organisation, faster connectivity by integrating 5G, automated decisioning by integrating AI and unalterable ESG reporting by integrating blockchain.

After all, with the backing of Fujitsu, one of the world's largest technology groups, GlobeRanger has the financial strength, worldwide support and access to a \$1.6 billion a year R&D budget we need to invent the future of your connected organisation, every day.



## Welcome to your digital evolution.

**To find out where to start, and where your connected business can take you, visit [GlobeRanger.com](https://www.globeranger.com)**

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