GLOBERANGER
a Fujitsu company

GlobeRanger IoT Solutions

Visibility, optimization and transformation for manufacturing and construction organizations

The Internet of Things - IoT - provides us with data collected from billions of connected devices and opens the door to a much clearer understanding of how to optimize processes, services and products. However, physical processes are still often captured and monitored manually or with inefficient technologies, such as barcode. The lack of visibility this creates can lead to poor decision making, operational inefficiencies such as excess inventory, and an imperfect picture of how the business actually operates.

Particularly advanced in manufacturing, IoT is now being adopted by progressive organizations in construction to address deep-seated challenges in that sector.

FUJITSU GlobeRanger is a leading IoT solution that helps organizations – including in manufacturing and construction - overcome challenges and create opportunities.

+ In manufacturing, IoT joins together previously-isolated sensors, machines, factories and even entire supply chains into new hyper-connected networks.

+ Benefits range from better visibility of assets, to the ability to predict and avoid manufacturing stoppages and bottlenecks, through to disruptive new market opportunities from connecting the manufacturer direct to the consumer.

+ For composite materials manufacturer Meggitt, Fujitsu GlobeRanger is tracking high-value carbon fiber aircraft components in the manufacturing process, **reducing wastage of an extremely expensive material by 95 percent**, allowing better quality control of the end product and a **generating a 30 percent improvement in overall productivity**.

+ Not usually thought of as a part of manufacturing, the construction industry is currently re-inventing itself courtesy of hard-learnt lessons from the lean, efficient manufacturing sector.

Bringing value to your connected world

Fujitsu GlobeRanger for the construction industry

GlobeRanger IoT platform enables digitalization across the construction life-cycle. It provides on / off-site construction transparency to streamline management of off-site pre-fabrication, supply chain and on-site logistics, through to post-construction facilities management.

+ GlobeRanger automatically notifies the production status and inventory levels for modular components as they are manufactured, then again on the status of transport to the appropriate construction site.

+ Key individuals are alerted highlighting where each component should be placed, it then confirms if tools have been removed from site.

+ Project progress alerts are sent out highlighting components installed on schedule, which are behind schedule or installed incorrectly.

+ Post-construction, GlobeRanger integrates with facilities management software to enable through-life management of components, and the ability to locate components easily during facilities management and to digitally record maintenance activities.

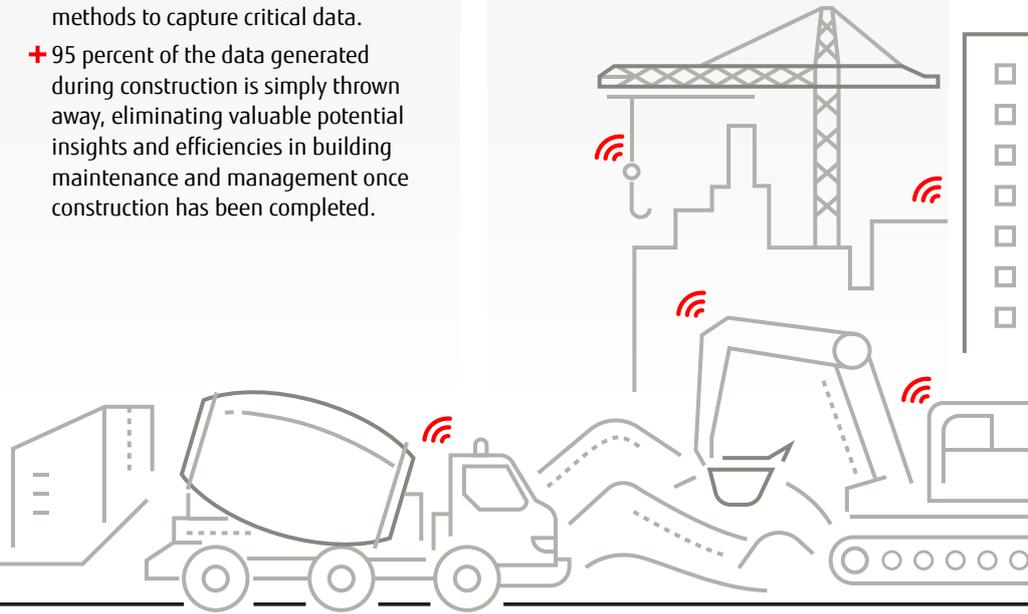## IoT addresses core challenges in construction

Construction organizations are under intense pressure to build more in all categories – homes, office, schools, factories – faster, at a socially affordable cost with the minimum possible carbon impact. However, traditional processes are getting in the way.

+ Twenty percent of buildings materials are currently regularly either over-ordered or wasted due to poor on-site logistics management.

+ 10 percent of a builder's time is spent waiting for materials.

+ Nearly 50 percent of construction businesses are still using manual entry methods to capture critical data.

+ 95 percent of the data generated during construction is simply thrown away, eliminating valuable potential insights and efficiencies in building maintenance and management once construction has been completed.

The transition to modular construction

To create the efficiencies necessary, the construction industry is now moving away from bespoke, on-site building to modular construction in factories.

+ Quality, environmental, safety and cost control can be more easily managed.

+ Construction companies that can successfully adopt this technique will:

  + Dramatically reduce construction costs
  + Increase speed of delivery
  + While enhancing safety, leaving the laggards in the dark ages.

Visibility
FUJITSU GlobeRanger IoT Solutions provide a much clearer understanding of how to optimize processes, services and products.

Optimization
Greater visibility creates the opportunity to improve decision-making, to boost operational efficiencies and generate a holistic picture of real-world business performance.

Transformation
With better visibility, the ability to predict and avoid bottlenecks, and disruptive new opportunities to connect direct to the consumer, FUJITSU GlobeRanger IoT Solutions can transform your operations.

FUJITSU GlobeRanger
Keeping track of your assets, so you can focus on what you do best
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