

Power BI Analytics for Event Tracking & Inventory Visibility

Kansoft delivered a centralized analytics for G R Infra to streamline event tracking and improve inventory management through real-time dashboards and actionable insights.

Client Overview

G R Infra, a leading engineering, procurement, and construction (EPC) company, manages large-scale infrastructure projects involving complex operations, multiple stakeholders, and high volumes of data.

To improve operational efficiency and decision-making, the organization required a **data-driven analytics platform** to monitor events and optimize inventory processes.

Industry

Engineering, Procurement & Construction (EPC)

Technology Stack

- **Data Source:** MySQL
- **Analytics Platform:** Microsoft Power BI
- **Data Processing:** Structured data pipelines for event and inventory data

Key Challenges

Complex Event Tracking

- High volume of event data across multiple projects
- Difficulty in monitoring and analyzing events in real time

Inventory Management Inefficiencies

- Limited visibility into inventory movement and utilization
- Challenges in tracking stock levels across operations

Data Fragmentation

- Data stored across systems without a unified view
- Lack of consolidated reporting for stakeholders

Delayed Decision-Making

- Manual reporting processes slowed down insights generation
- Limited access to real-time operational metrics

Our Approach

Kansoft implemented a **data-driven analytics strategy** to unify data and enable real-time visibility:

- **Data Consolidation:** Aggregated event and inventory data into a structured format (*Data Platform & Engineering*)
- **Dashboard Development:** Designed intuitive Power BI dashboards (*Dashboard Design & Development*)
- **Business Intelligence Layer:** Enabled real-time insights for operational monitoring (*Business Intelligence*)
- **User-Centric Design:** Created role-based dashboards for different stakeholders
- **Scalable Architecture:** Built a foundation to support future data expansion

Solution Delivered

Centralised Analytics Platform

- Unified data view for event tracking and inventory management
- Single source of truth for operational insights

Power BI Dashboards

- Interactive dashboards for monitoring key metrics

- Real-time visualization of events and inventory data

Event Monitoring System

- Structured tracking of operational events across projects
- Improved visibility into ongoing activities

Inventory Insights Dashboard

- Real-time tracking of inventory levels and movements
- Better planning and resource allocation

Data-Driven Decision Support

- Actionable insights for project managers and leadership
- Improved response time to operational issues

Key Integrations

- MySQL data sources
- Internal operational and inventory systems
- Power BI reporting layer

Business Impact

- **Improved data visibility** across operations
- **Faster decision-making** with real-time dashboards
- **Enhanced event monitoring** across projects
- **Optimized inventory management** and resource utilization
- **Reduced dependency on manual reporting**

Measured Outcomes: Before vs After

Metric	Before	After
Data Visibility	Fragmented	Centralized dashboards
Event Tracking	Manual / delayed	Real-time monitoring

Inventory Insights	Limited	Data-driven visibility
Reporting Process	Manual	Automated dashboards
Decision-Making Speed	Slow	Faster, real-time

What Changed for the Business

Operational Visibility

Real-time dashboards provided complete visibility into events and inventory across projects.

Efficiency in Decision-Making

Leadership gained faster access to actionable insights, improving responsiveness to operational challenges.

Optimised Resource Management

Better inventory tracking enabled efficient utilization and reduced wastage.

Data-Driven Culture

The organization transitioned from manual reporting to a data-first approach for managing operations.

Why Kansoft

- **Strong BI & Analytics Expertise (Power BI)**
- **Experience in Infrastructure & EPC Projects**
- **End-to-End Data Engineering Capabilities**
- **User-Centric Dashboard Design**
- **Scalable Analytics Architecture**