

# Power BI

## Case Studies



# Power BI Visualization Solution For Ink Manufacturer

## Power BI Data Visualization And Analytics Tool

### Challenges

One of the largest global ink manufacturers needed a way to monitor machines on their floor using a custom image of their machine layout. It was critical for them to have visibility of how their machines were performing to decrease down time.

### Solution

Our team developed real-time dashboards, utilizing Microsoft's Power BI data visualization and analytics tool. In doing so this helped the client import and prepare custom visuals into a one-stop shop custom tool so that company employees are made aware of exactly how each machine is performing on the floor. This model data allows business users analysis of the results.



### Benefits

The solution provides users the ability to react immediately to machine failures as well real-time visibility into any potential issues that could occur. Thus, less time spent by IT pulling data for business users allowing the business the ability to take action immediately, decreasing down time and saving time and money.

# Power BI Solution For Life Insurance Company

Enhancing BI Data Quality & Security

## Challenges

A nationwide life insurance company came to us because they were not satisfied with the analytics they were getting from Cognos and in search of guidance as to which BI tool would best fit their unique requirements and security needs. Their existing process involved loading their data directly into IBM Netezza.

## Solutions

After reviewing their unique needs we designed, installed, and set up the client's BI environment using Microsoft's Power BI visualization tool and SQL Server. In addition to the install, we provided comprehensive hands-on training and consulting including documented step-by-step instructions on:

- ◆ Best practices for setting up Power BI security
- ◆ Pros, cons, & roadmap for using the data gateway
- ◆ Importing multiple data sources vs. direct data query to Power BI
- ◆ Power BI service automation & scheduling capabilities
- ◆ Developing role specific dashboards
- ◆ Standardizing reports with themes & templates



## Benefits

Our team has experts in the Business Intelligence field that can handle end-to-end BI solutions from data warehouse design and development, ETL (Extract, Transform, & Load), modeling, and data visualization. We delivered demos to the client a week after completing the initial engagement. As a result, our blended delivery model saved them significant amounts of time and money on their project.

# Data Management For Digital Communication Company

Monitor equipment in Real-Time, Virtually Anywhere with Custom Power BI

## Challenges

A digital communication company came to us wanting to know the real-time data and status of the various machines on their shop floor. Their goal was to enable team members near and far to monitor and manage their machines. Their existing process had data residing in multiple standalone applications, which lead to an inability to effectively track status issues. This inefficiency in communicating issues meant that machine malfunctions weren't being alerted until after the fact, ultimately leading to excessive downtime. This problem also stemmed from their ineffective and costly BI tool the provided no interactive visuals to monitor equipment.



## Solutions

Our development team configured an on-premise data gateway setup that allowed them to securely access real-time data on their machines from virtually anywhere. In addition, our team also centralized their model production data, allowing for actionable insights, well as developed a BI proof of concept using custom visuals through Power BI.



## Benefits

Through custom automation and the direct connection through the SQL Server, this solution provided them the ability to monitor real-time machine status and track issues, saving time and energy. The newly uncovered data points lead to early discovery of issues, thus reducing machine downtime and significantly improving production. Additionally, the implementation of a Power BI custom dashboard solution visually represented the exact machine location within the plant, drastically improving their coordination and shop floor efficiency.



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