

Quality 360

Correlating Quality Touchpoints to Identify Emerging Issues

Industries

- + Manufacturing

Key Benefits

- + Increased safety and reliability of manufactured products
- + Improved customer satisfaction through product quality and customer experience
- + Fulfillment of federal targets and mandates for product safety (Automotive and Medical Device)
- + Enhanced analytical capability through predictive modeling

Solution Overview

Data discovery offers Manufacturers across a variety of industries a unique opportunity to improve and maximize the quality of their products by combining data sources across a variety of pre and post completion data sources. The ability to combine internal and external claims data, customer feedback, production data, safety data, and internal quality initiatives (such as teardowns, audits and global corrective actions) allows manufacturers to both forensically analyze existing issues as well as predict and identify future liabilities.

Leveraging these diverse datasets allows customers to improve quality and customer satisfaction as well as fulfill key safety obligations to the market. For technical teams driven and mandated to maintain and improve product quality, the ability to access and leverage all of these data sources is critical. Creating a scalable, smooth data infrastructure incorporating feedback from the manufacturing process through to the end consumer allows quality specialists and researchers to leave “no stone unturned” when assessing product quality and safety. As appliances and vehicles become more intelligent and “Internet of Things” data sources become more prevalent, the ability to handle large data in an agile way becomes crucial.

Users can use traditional metrics as well as advanced analytical modeling (such as Weibull analysis) to find and predict problems. Once issues are identified, the ability to track the problem through the manufacturing process allows for increased accountability for partners and suppliers of third-party components and parts.

Business Challenges

- + Wrangling diverse data sources from internal reports and measures to externally produced data
- + Combining unstructured and structured data sources to find root cause
- + Providing the ability to extrapolate from low-density or slow-maturing data patterns
- + Harnessing emerging data sources such as onboard measurements and indicators from “Internet-of-Things”

Potential Data Sources

- + Customer Feedback Data
- + Public Data (such as NHTSA for Automotive)
- + Finished Product Teardowns
- + Claims Data
- + Global Corrective Actions
- + Assembly Line Data

Oracle Big Data Discovery

Key Features

- + Smart, automatic data profiling
- + Built-in transformation capabilities
- + Modern visualizations
- + Fully integrated with the most robust Hadoop distributions on the market
- + Explore and profile all datasets in the Hadoop data lake

Key Benefits

- + Allow analysts to fail fast in their data analysis pursuits
- + Transform and enrich massive datasets quickly
- + Spend time & resources on analytics and insight instead of data prep
- + Include business analysts on the team to help drive collaborative discovery
- + Process data in place in Hadoop, substantially reducing data movement and management costs

Other Ranzal Services

Extend your environment with Edgewater Ranzal's additional services:

- + Advisory services help define the priority key metrics and supporting data to include in the solution
- + Custom training provides users with knowledge needed to use the tools
- + Add additional metrics and data to extend the solution
- + Managed Cloud helps to reduce IT costs and resources needed

About Big Data Discovery (BDD)

Oracle's answer to demystifying the modern data lake, Oracle Big Data Discovery (BDD) harnesses the distributed computing and storage power of Hadoop and adds an interactive layer through which users can easily explore all of their data. Oracle BDD wraps data analysis, transformation, and discovery tools together into a single user interface, and it comes with advanced features like smart, automatic data profiling, built-in transformation capabilities, modern visualizations, and solid integration with Hadoop.

Big Data Discovery provides business users the ability to understand insights in their data by providing visibility into these critical data sources by uniting these sources and providing the user the ability to understand correlations in the data. By providing further insight into this data, companies can make better informed decisions and improve their business processes and transform their business.

Edgewater Ranzal is especially equipped to help customers prove out potential use cases of BDD as well as architect and build out implementations of the product. We can work with you on all aspects of implementing BDD from proof of concepts, planning to full life-cycle implementations.

Oracle Big Data Discovery (BDD) helps organizations quickly explore all relevant data

- + Combine structured & unstructured data from disparate systems
- + Automatically organize information for transformation, search, discovery & analysis
- + Rapidly assemble and share easy to use analysis projects that anyone can use
- + Connect to all your data including unstructured and non-normalized data from your Hadoop infrastructure
- + Provides interactive analytics with in-memory enabled performance

Advantages of Big Data Discovery

- + Find insights in your data as never before by putting the power of analytics into the business users' hands
- + Find answers to questions that your business has not been able to answer
- + Quickly combine data without having to go through costly normalization building data warehouses
- + Complete Enterprise solution that is integrated with Hadoop to leverage your IT investment and provide a solution that can be managed centrally

About Edgewater Ranzal

Edgewater Ranzal is a full-service Oracle Platinum Consulting Partner with unrivaled expertise in delivering Oracle Hyperion Enterprise Performance Management, Business Intelligence and Big Data solutions. We consistently apply and update leading-practice methodologies to address changing business requirements and take advantage of evolving system capabilities. With resources and clients located throughout the United States, Canada, and Europe, we are one of the largest specialized Oracle Business Analytics partners. To learn more, visit ranzal.com, e-mail info@ranzal.com, or call +1.914.253.6600.