

Providing critical operational intelligence for process manufacturers

UNITING RELIABILITY AND MAINTENANCE DATA TO MAXIMIZE PRODUCTION RATES

BUSINESS CHALLENGE

Ultimately, every process manufacturer strives to increase overall production reliability – or maximize output given existing resources. Whether producing oil and gas, chemicals, food and beverages or pharmaceuticals, optimizing production leads directly to increasing revenue potential.

One of the key drivers of production output is equipment or asset reliability. Every time a piece of machinery deteriorates or breaks, there is not only lost revenue from the slowdown or halt of production, but there are also costs to be avoided: costs to repair assets and bring them back into production, and ancillary costs associated with environmental breaches, safety issues and public relations fallout.

Yet, predicting and preventing asset faults and failures remains a struggle for many plants and refineries. Although critical data exists within the company, it's typically isolated in disparate sources. Each factory or refinery within a company may have its own software solution for tracking asset maintenance, another for tracking reliability and still another for project planning. Managers' spreadsheets and operators' logs are other valuable sources of information that often go untapped. Some of the most vital information doesn't exist as data at all, but rather as knowledge, locked in the minds of the workers who manage assets on a day-to-day basis.

As a result, the bulk of time is spent searching for and collecting data rather than analyzing it. Patterns of failure are difficult to recognize, decisions are often delayed, and resolutions become untimely and ineffective. Worst of all, slowdown of production and downtime cost real dollars.



SOLUTION OVERVIEW

With 15 years of business intelligence expertise, Piocon recently joined forces with Rolta TUSC, creating an unrivaled technology consulting firm. Our OneView platform integrates data from all pertinent reliability and maintenance data sources and uses an intuitive drillable interface to drive timely decisions and increase operational reliability. Customized for your specific business needs, key layers of the OneView platform include:

- **Domain data model**—Based on industry best practices, we drive data model input and help define key performance indicators (KPIs) for your business.
- **Data connectors**—We link critical data sources to your data warehouse and provide data-input screens to capture workforce knowledge.
- **Business intelligence dashboard**—A comprehensive and role-based dashboard with at-a-glance summaries of your KPIs, drill-down capabilities, ad-hoc query analysis and more.

BENEFITS

- **Increase revenue potential**—By maximizing production rates through reduced downtime, you dramatically increase earnings potential.
- **Avoid costs**—Proven to reduce reliability downtime by an average of 50 percent, you avoid asset recovery expenses as well as ancillary environmental, safety and PR costs.
- **Improve decision-making ability and reduce risk**—With pervasive insight into operational data, management can better identify patterns, set best practices, and proactively initiate maintenance procedures.
- **Enable flexibility and extensibility**—The OneView platform can be extended to include all critical business processes for your plants or refineries, from supply chain to distribution.

CASE STUDY

For a leading oil and gas manufacturer, Rolta TUSC delivered its business intelligence platform, uniting 28 different data sources of reliability and maintenance data that existed throughout the refinery. Today, the system delivers vital reliability information on more than 100,000 pieces of equipment to hundreds of operations throughout the refinery.

Since the systems' go-live date, the customer has experienced no unplanned shutdowns due to reliability-related incidents, a time span more than six months the refinery's historical average and three times its previous record. In addition, the customer estimates that it has saved millions in costs in the first year alone.

ABOUT US

Rolta TUSC is an experienced and knowledgeable IT partner that provides assessment, implementation, and ongoing support services for mission-critical IT and business systems. In 2008, we underwent several acquisitions and a consolidation of our Oracle and Business consulting practices, forming a cohesive quilt of services for the challenging times ahead. With more than twenty years of experience creating and optimizing large-scale IT applications and infrastructure, Rolta TUSC has the proven expertise required to help clients achieve their business goals through technology. Rolta TUSC has been a recipient of seven Titan Awards over the last eight years.



FOR MORE INFORMATION

Toll-Free: 800.755.8872
 Web: www.tusc.com/bi
 Email: bi@tusc.com

SOLUTION DETAILS

Rolta TUSC enables your organization to achieve operational intelligence by integrating data around four key areas: machinery reliability, human reliability, process reliability and asset maintenance. We deliver a customized OneView platform for your business with three critical layers:

- **Domain Data Model/Data Warehouse**—With expert knowledge of process manufacturing best practices, our consultants know which critical reliability data should be tracked, including environmental factors, inspection results, maintenance work orders and history, reliability clock resets and more. We work with you to verify KPIs for your business, focusing on critical failures that have high operational impact or economic consequences and ensure that data is included in your data model/warehouse.
- **Data Connectors**—Rolta TUSC consultants build the ETL connectors required to integrate your critical data sources to your data warehouse. We have pre-built connectors for most industry-leading software tools, speeding time to value. For spreadsheets and workforce knowledge, we provide direct data input screens from the dashboard to more effectively capture reliability information in the future.
- **Business Intelligence Dashboard**—Our enterprise dashboard allows users to track reliability at the company, refinery, division or unit level. Tied to your Microsoft Active Directory, the dashboard is role-based and provides user-friendly tabs to quickly access your KPIs as well as user-input screens. At-a-glance charts include drill-down and drill-to-detail functionality. The dashboard includes 50 pre-built reports and can be customized as needed. The dashboard is also integrated with a trouble ticketing/commitment tracking function that allows you to ensure issues are being resolved appropriately.

Although initially designed for reliability and maintenance intelligence, the OneView platform is a comprehensive solution that can be extended to provide intelligence around other key areas of your operations – from supply chain and sustainability to safety intelligence.