Enterprise 360 View

Titanium Pigments Pvt. Ltd (VVTi) is a chemical manufacturing unit and is the leading Indian manufacturer and exporter of Titanium dioxide under the brand of OpaTi and Ferrous sulphate heptahydrate as by product, with a installed capacity of 3000 TPA for TiO2 and 10000 TPA for Ferrous sulphate heptahydrate.

Project Name	**Sales & Production Analytics**
Client Name	**VVTi Pigments**
Duration & Team	Live since 2015 8 months and 8 people • 1 Lead Architect • 1 Lead Data Analyst • 1 Data Scientist • 3 Lead ETL Developers • 1 UI/UX specialist • 1 Quality Manager
Data Volume	One million rows for 6 years of data processed including history from SAP, OpenERP
Infrastructure	Hosted on Private Cloud with Linux Operating systems. • SAP R3 and OpenERP as core transaction systems • Analytics database for data warehouse • Pentaho Community Edition 5.4 for data ingestion and visualization service 40 users and 5 power users • Scheduled ETL jobs to run 3 times on a given day

Business Problem

- High dependency with SAP vendors, value addition through reporting or analytics requires more investment
- Data split in SAP and OpenERP and additional manual excel sheets
- Fetching information from SAP into data warehouse is not available in most of the data integration tools
- Lack of visibility as plants operating in different units manage and share data in different formats for reporting

Solution

- Pentaho Data Integration for data pull from SAP R3 using RFC
- Star schema based data warehouse model for analytics
- Prediction of product grades based on raw material information
- Reduction of expenses by suggesting different vendors based on various evaluation factors
- Mobile dashboards with collaboration features for ease of communication