

BI infrastructure and reporting

(Apparel Retail brand)

- Consolidated data from multiple data sources such as ERP system, Google Analytics, POS system etc. to create a single source of truth platform for reporting and analytics
- Built data cubes and executive dashboards to disseminate the information to key stakeholder

BI infrastructure design & implementation for a luxury retail brand

Situation

- The company exports its products to 15 countries and has over 50 retail stores globally. It did not have clear visibility in the performance of its business with limited and error-prone reporting.
- Partnered with the client to design and build their data cubes and executive level dashboards which are updated automatically daily

Accordion Value Add

- Worked directly with the ERP (Infor M3 ERP) databases and POS system (Y2 POS) to identify and use the required data for the data cubes
- Built a data warehouse to transform the raw data from the ERP to meaningful business information based on business logic
- Built data cubes for tracking Sales, Procurement cost, Freight, Inventory, Production and Supply Chain performance
- Designed and built 20 distinct dashboards on Power BI to track performance by department and provide critical information to the C-Suite
- Developed streamlined automated process for daily update of the Datamart, Data cubes and Power BI dashboards

Impact

- Our dashboards provide reliable and accurate reporting for the company, replacing their error-prone reporting infrastructure
- The timely information enables the retail team to monitor performance and take preventative actions where needed
- Single and updated source of truth enables the executive team to track critical KPIs related to procurement, manufacturing and sales

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Business intelligence architecture

Data sources





ETL



Data validation, cleansing, transformation and loading in Microsoft SQL server



Set up daily data refresh processes to extract the latest data from Infor M3 ERP Data warehouse



Build a data warehouse to transform the raw data from the ERP to meaningful business information



Build multi-dimensional data cubes on SSAS to allow users to locate and analyze data effectively. **BI** reporting



Design and deploy executive dashboards on power BI

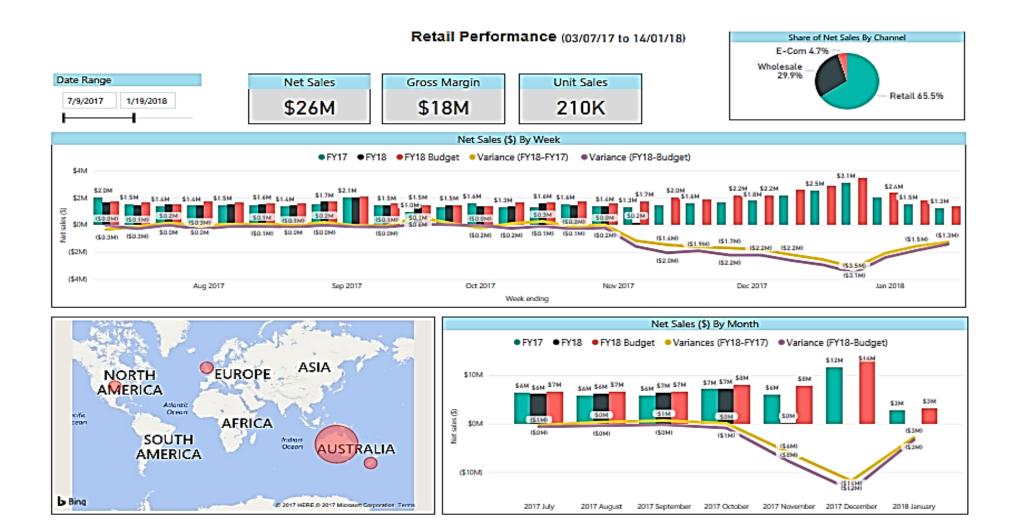
Streamlined data structures and developed enterprise DW and customized reports

Parameters Before Cloud planning **ERP** database Budget data in spreadsheets systems **Database** structures **POS Systems** Marketing data sources (b)demandware Google Analytics **Bronto** Google Most reports generated manually on Excel Time consuming process affecting team's efficiency Reports Incomplete or inaccurate data due to multiple data sources

After **Enterprise data** warehouse **Data marts Budget/Forecast** Sales Inventory Labor Sales cube **Production Forecast** Inventory Cost cube Cube cube cube Automated reports for individual functional teams like Marketing, Strategy planning, Executive dashboards etc published on Power BI No manual intervention Reconciled and consistent reports as it captures data from all sources

5

Retail performance dashboards - Example



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Sales performance dashboards - Example

