### Operations TV Dashboard for an LTL Logistics Company

#### **ABOUT THE CLIENT**

Client is an LTL (Less-than-Truckload) shipping services company based in the U.S. serving lanes across ~30 major cities in the country.



#### SITUATION

- Client lacked visibility into the company's terminal (service centers) operations performance due to lack of structured timely reporting and legacy data systems. This made it very difficult to identify poorly performing terminals and to incentivize better performing terminals.
- Merilytics partnered with the client to build a TV dashboard with a leaderboard of terminals based on key operations performance metrics



#### **VALUE ADDITION**

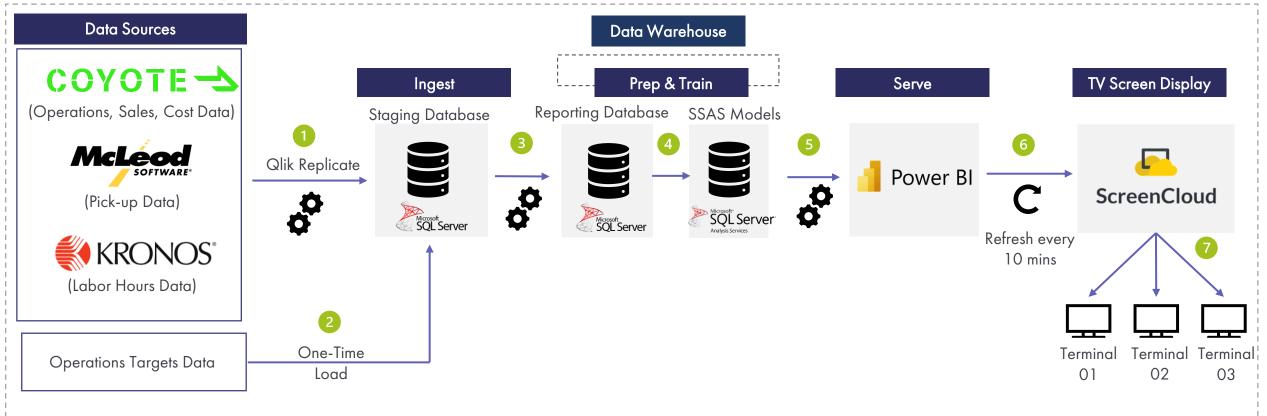
- Identified the key operations metrics (such as Dimming%, Reweigh%, Margin%, Utilization, Service%, Scanning Compliance%, Cost Per Mile (CPM), P&D (Pickup & Delivery) Cost/Shipment, etc.) and their data sources. Finalized goals for each of the metrics for all terminals based on historical performance.
- Connected all data sources into a robust data warehouse and built a tabular data model on SSAS with all the KPIs defined
- Built a dashboard on Power BI with a leaderboard for terminals (ranking is based on number of goals hit; and in case of tie, %goal attainment score is considered) to track their performance on a daily, weekly and monthly basis.
- Integrated this Power BI dashboard with ScreenCloud application and created different screens for each terminal (using a dynamic filter based on terminal name) that refresh every 10 minutes. Setup TV screens across offices of all terminals taking the live feed from ScreenCloud application.





- The TV Dashboard helped client reward the top 3 terminals every month with incentives and identify the terminals with poor performance to take necessary actions. Gamification through this league increased competition among the terminals leading to an overall performance improvement.
- Within 3 months after the launch of TV dashboard –
- Shipment Dimming (Measuring Dimensions) compliance increased by  $\sim 20\%$  (from  $\sim 73\%$  to  $\sim 93\%$ ); equivalent to  $\sim $100K/month$  savings from Dimming errors
- Reweigh compliance increased by ~3% (from ~95% to 98%); equivalent to
   \*\$30K/month savings from Weighing errors

## Methodology/ Approach



- 1 Replicated the data from various data sources (such as Operations, Sales, Cost, Pick-up, Labor data etc.) into a staging database in SQL server using 'Qlik Replicate'
- 2 Loaded the targets for key operations KPIs defined the business team for each terminal into the staging database. This was a one-time load as the targets are static
- 3 Built a robust data warehouse with a reporting database connecting data sources from the staging database and transformed raw data as per business requirements
- 4 Developed a ready-to-serve Tabular data model on SSAS for analytical and reporting purposes defining all key KPIs and their targets for all terminals
- 5 Developed Power BI dashboard above the data model to track operations performance of terminals against their goals along with a leaderboard based on terminal scores
- 6 Connected this Power BI dashboard to ScreenCloud and setup an automated refresh of the screens for every 10 minutes to reflect the latest data
- 7 Created different screens for all terminals using dynamic filters based on terminal name. Setup TV Monitors across all terminals with the live feed from ScreenCloud

### Exhibit #1 - Terminal Leaderboard



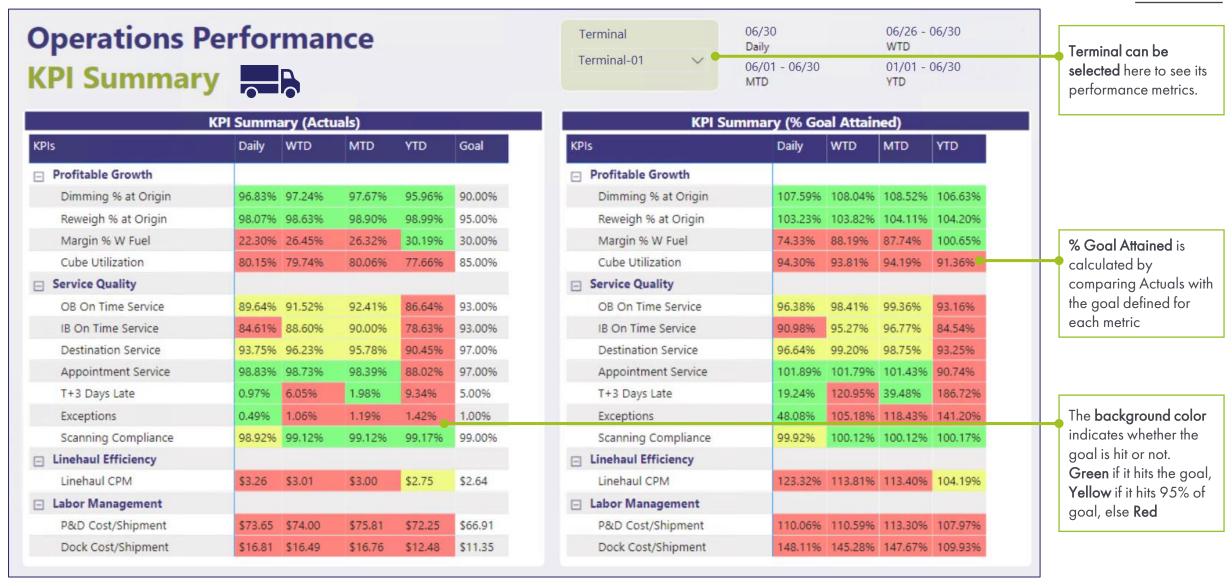
**ILLUSTRATIVE** 

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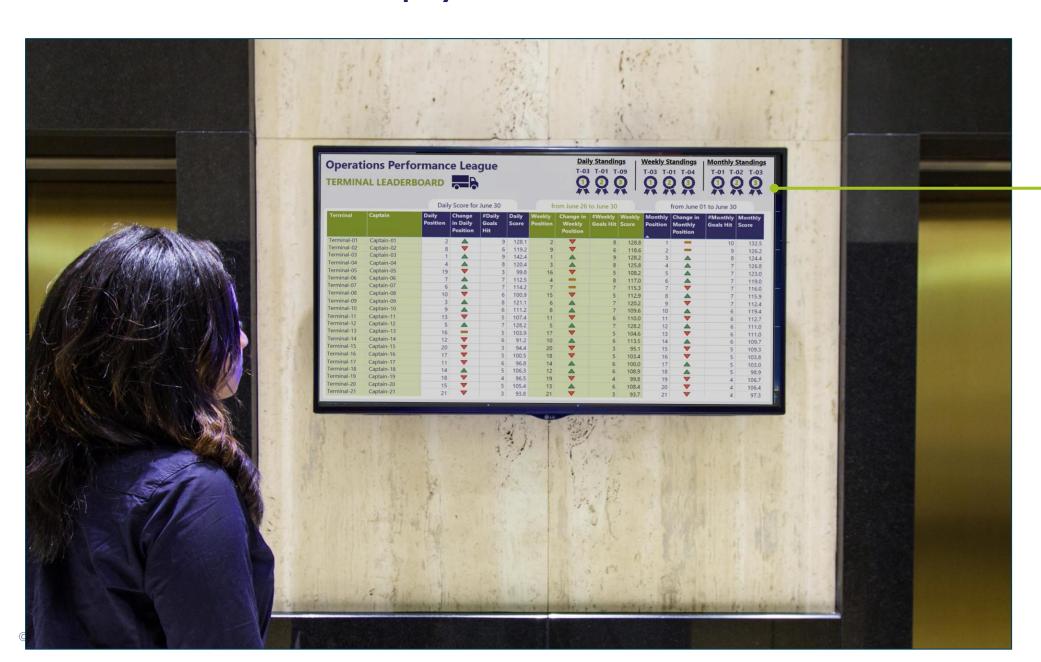
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## Exhibit #2 – KPI Summary

### **ILLUSTRATIVE**



# Exhibit #3 – Dashboard Displayed On Tv Screens In Terminal Offices



ILLUSTRATIVE

Power BI dashboard is
displayed on the TV screens
of terminal offices and
warehouses using
ScreenCloud application