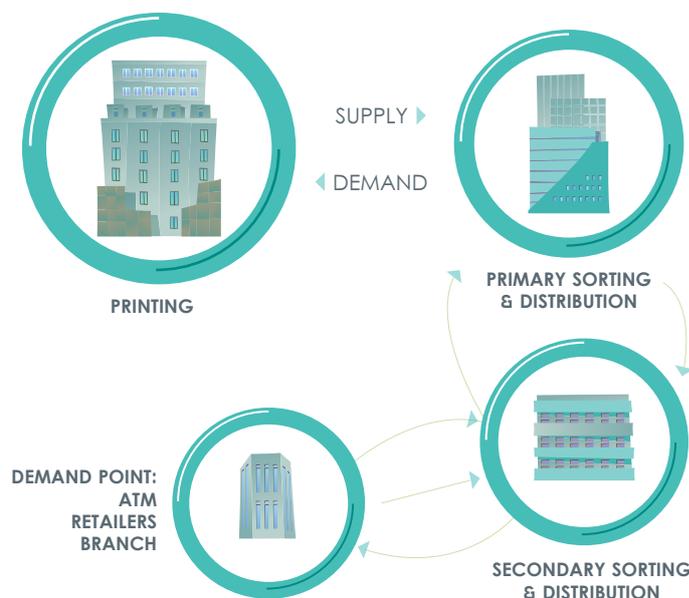# CASH MANAGEMENT PLATFORM

▶ SOLUTION OVERVIEW

Institutions within the cash supply chain face increasing complexities to ensure sustained product availability whilst managing associated cost.

The Cash Management Platform is a unique combination of demand and supply management tools designed to aid both central bank and other participants in the supply chain who aggregate cash. The goal of the platform is to optimise the decision making process within the cash supply chain. Each supply landscape is unique. The cash management platform is customisable to ensure optimisation is achieved by including all associated 'trade off' costs specific to clients' individual requirements.

SUPPLY ▶

◀ DEMAND

PRINTING

PRIMARY SORTING & DISTRIBUTION

DEMAND POINT: ATM RETAILERS BRANCH

**SECONDARY SORTING & DISTRIBUTION**

▶ THE CASH LANDSCAPE

▶ DEMAND MANAGEMENT

The Demand Management module both facilitates statistical forecasting and enables the Sales and Operations (S&OP) planning process in order to produce a true consensus forecast. This forecast covers inbound and outbound volumes for each denomination at each location.

The Demand Management module is unmatched in its functionality with the ability to;

• manage statistical forecasts by altering key algorithm triggers and switches;
• alternatively to allow the internal Forecasting Engine to calculate the best algorithm;
• include 'lead and lag' causal effect variables (e.g. Public holidays) to derive optimal forecast accuracy.

With the ability to identify critical forecasts through various analysis tools within the system, a demand planner is able to isolate and thoroughly investigate forecasts which have significant impact on the overall demand. The sandbox environment allows a demand planner to run multiple instances of the same forecast whilst altering both data and statistical variables in order to identify the best statistical forecast prior to collaboration with demand market intelligence, operations and customers.

STATISTICAL FORECAST

SANDBOX FORECAST

ANALYSIS FORECAST PERFORMANCE

CONSENSUS FORECAST
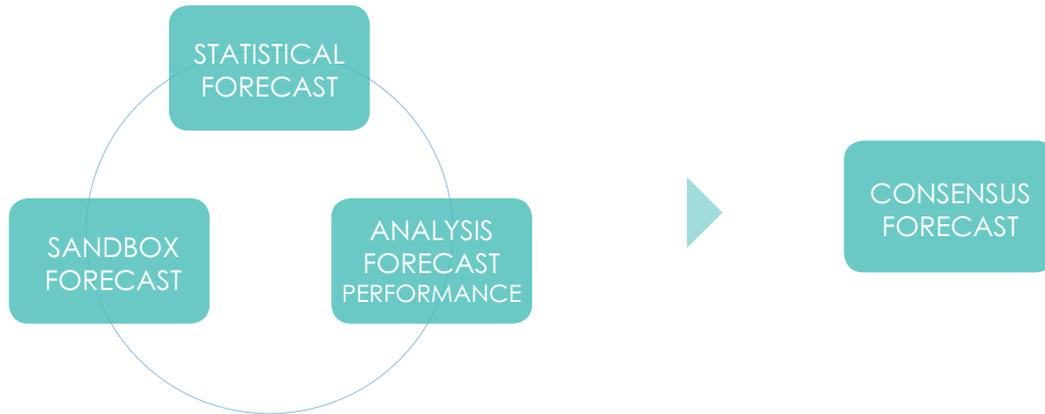
▶ FEATURES AND BENEFITS OVERVIEW

- User Access level control
- Demand channel management
- Statistical forecast management
- Manage historical data management
- Analytical graphs, including weight average accuracy graphs facilitating isolation of high value low accuracy SKU's.
- Sandbox Environment
- Collaborative consensus forecast

WHOLESALE INBOUND ABC BANK – FORECAST R200 DENOMINATION

Legend: History — Old Forecast — Override — Forecast — Actuals
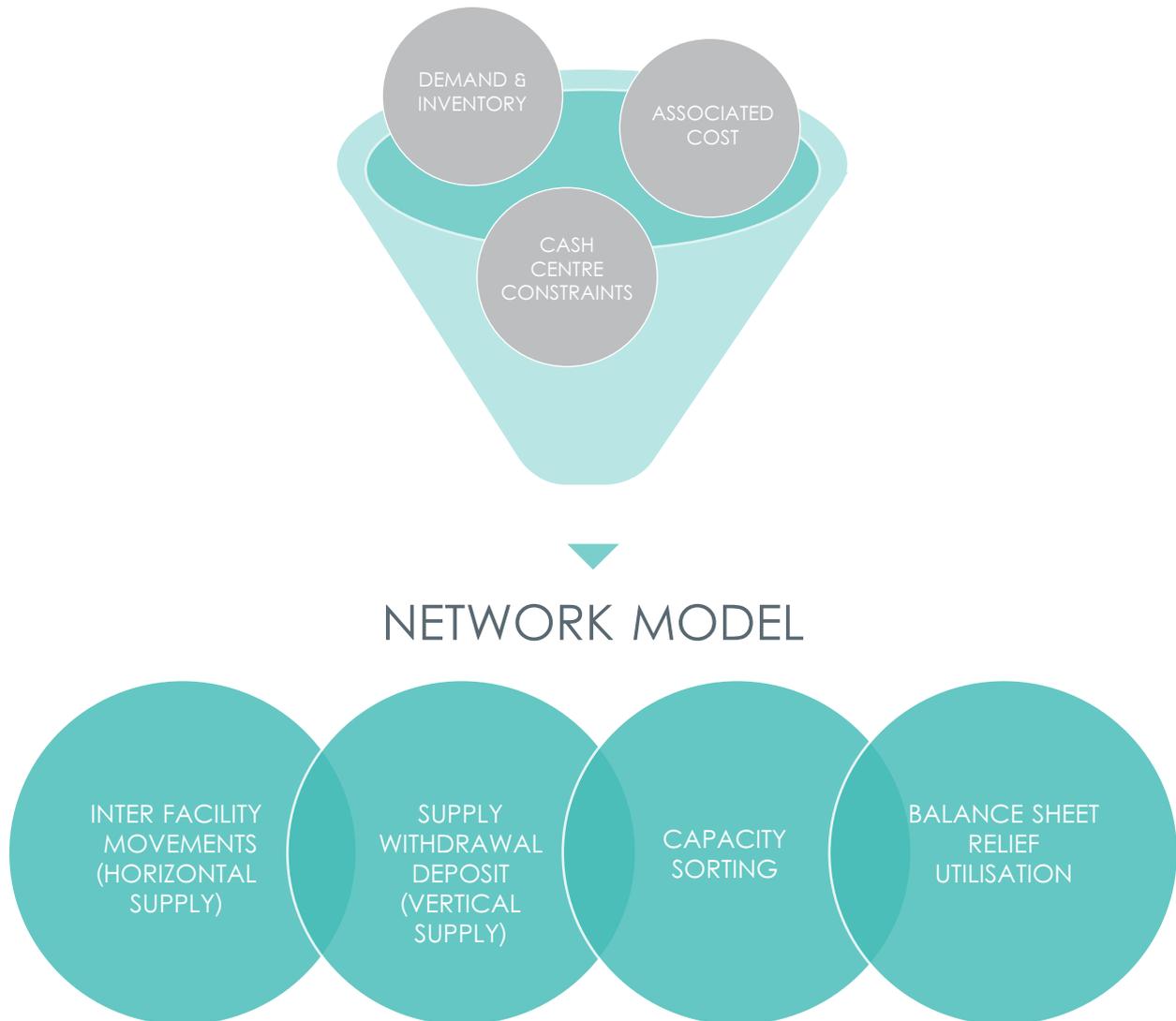
Highcharts.com
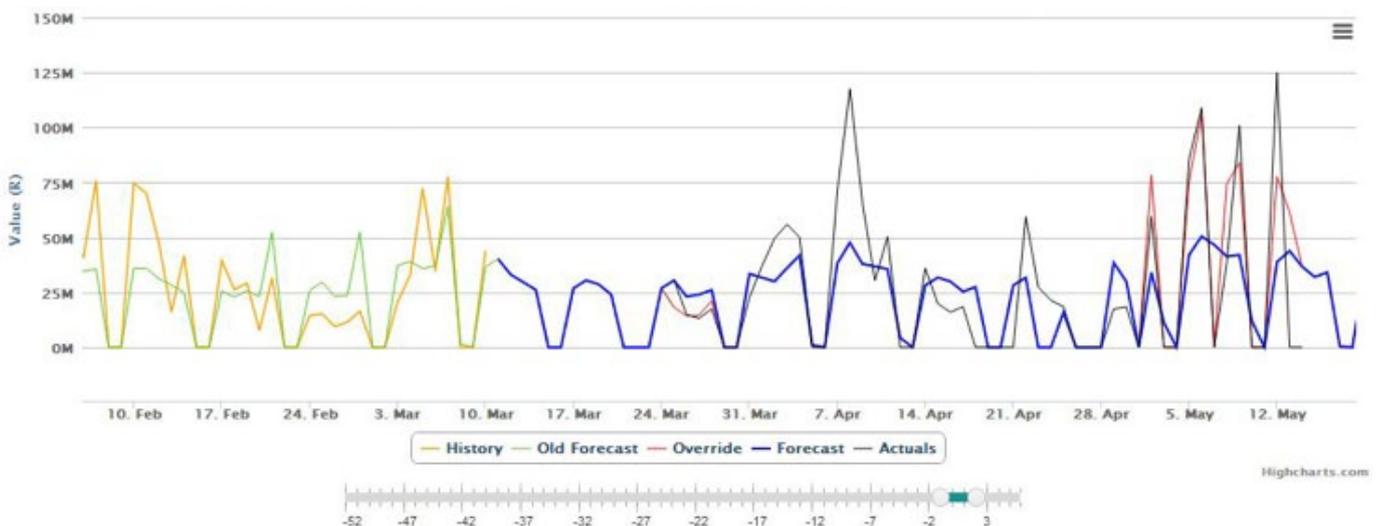
Percentage Accuracy: **72%**

*The interactive forecasting graphs help demand planners visually review the performance of historical forecast against the actuals. The planner can also preview future forecasts and display the consensus forecast adjustments

▶ SUPPLY MANAGEMENT

The Supply Management module utilises various inputs including current actual data such as Inventory levels and demand combined with periodically managed data such as balance sheet relief facilities, insurance limits and cash centre sorting capacity. It then uses this data in a sophisticated optimisation engine to generate recommended shift / daily / weekly operational plans to meet the desired organisational targets – optimising all associated costs and driving cost reduction whilst simultaneously eliminating service failure.

DEMAND & INVENTORY

ASSOCIATED COST

CASH CENTRE CONSTRAINTS

NETWORK MODEL

INTER FACILITY MOVEMENTS (HORIZONTAL SUPPLY)

SUPPLY WITHDRAWAL DEPOSIT (VERTICAL SUPPLY)

CAPACITY SORTING

BALANCE SHEET RELIEF UTILISATION

▶ FEATURES AND BENEFITS OVERVIEW

- Custom network model to ensure optimal plan for client specific unique landscape
- Facilitates data capture including data report to ensure all required data is available
  - o Manual capture screen
  - o Electronic data integration
- View and manage recommended supply actions
- Preview the impact of recommended plans on inventory and potential savings
- Assorted Reporting functionality and a comprehensive dashboard allows for real time tracking of capacity utilisation and balance sheet relief mechanism utilisation

Inventory Waterfall graphs allow supply planners to visually analyse the impact of future supply transfers on the stock levels taking into account the residule of the inbound and outbound forecasts.

▶ DASHBOARDS

The tracking and reporting of various balance sheet relief utilites (e.g Notes held to order and Custodial inventory System) allows planners to maximise utilisation against the trade–off of cost of funds.
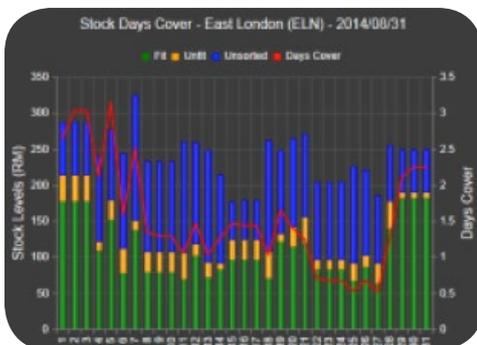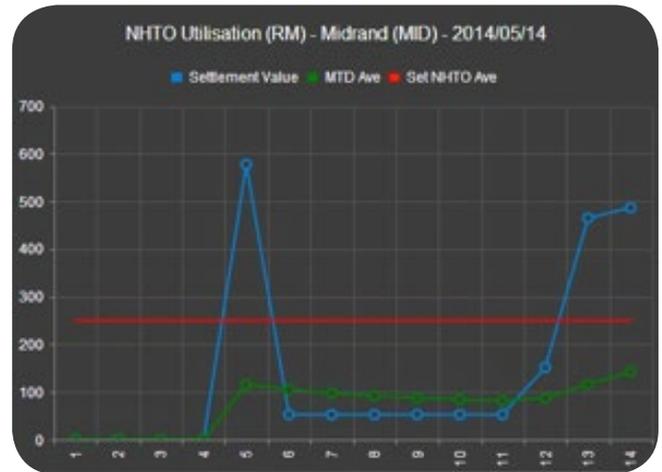
Analysing sorting capacity in relation to unsorted inventory allows for the identification of capacity issues which drives additional stock holdings and an overall increase in the cash in circulation.