

# On-Shelf Availability

## Business Impact numbers

**2-5%**

Incremental Annual Benefits

**40-60%**

Reduction in Stock-Outs

## Time to execution

**3**

Weeks to Pilot

**4-6**

Months Full Execution

## Problem Overview

CPG companies want to adapt preemptive stock keeping strategies to avoid lost opportunity due to stock outs

## High level approach/solution framework

Use diagnostic and predictive analytics to identify root-causes of stock-outs. Built an automated accelerator to generate alerts for merchandising team

- Identify stock-out situation and anomalous behavior using ML based models that analyze current inventory, phantom inventory and safety stock
- Smart Alerts – A system that generates alerts for the store manager and merchandising reps to maintain healthy stock and thus help increase revenue

## Azure architecture or Azure components used



ADF Pipelines



Azure MS-SQL Database



Microsoft Power BI



## Usage stats at a high level

**~1M**

forecasts run every quarter – SKU/store level