

**MIT** Supply Chain

MANAGEMENT

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Johnson Johnson VISION

### **Motivation / Background**

- "We must constantly strive to reduce our cost in order to maintain reasonable prices. Customers' orders must be serviced promptly and accurately." – Lines 3 and 4 of the J&J Credo
- J&J Vision is the contact lens global leader by market share but faces competition from other large companies and disruptive entrants.
- Driven to continuously improve forecast accuracy and capitalize on lower inventory costs and higher service levels.
- **Demand sensing is an approach to leverage data to continuously adjust** forecasts based on shifts in key signals within the system.



### **Key Question**

# **Can J&J Vision improve its forecast accuracy by** using demand sensing?

### **Relevant Literature**

- Chase, Charles W. Demand-Driven Forecasting: a Structured Approach to Forecasting. John Wiley & Sons, 2013.
- Wang, Lihui, and Koh, S.C. Lenny. *Enterprise Networks and Logistics* for Agile Manufacturing. Springer, 2014.
- Dr. Lapide, Larry. "Know Your Forecastability." Journal of Business Forecasting, Fall 2015.

# Foresight is 20/20 Improving Forecast Accuracy Through Demand Sensing



testing

- variation and help to build a demand sensing model.

## Methodology





# **Expected Contribution**

- **Explore** J&J Vision's current forecasting process and data and evaluate alternative methods.
- o **Identify** key variables that drive and influence demand.
- Assess the potential impact in forecast accuracy of a demand sensing model.



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