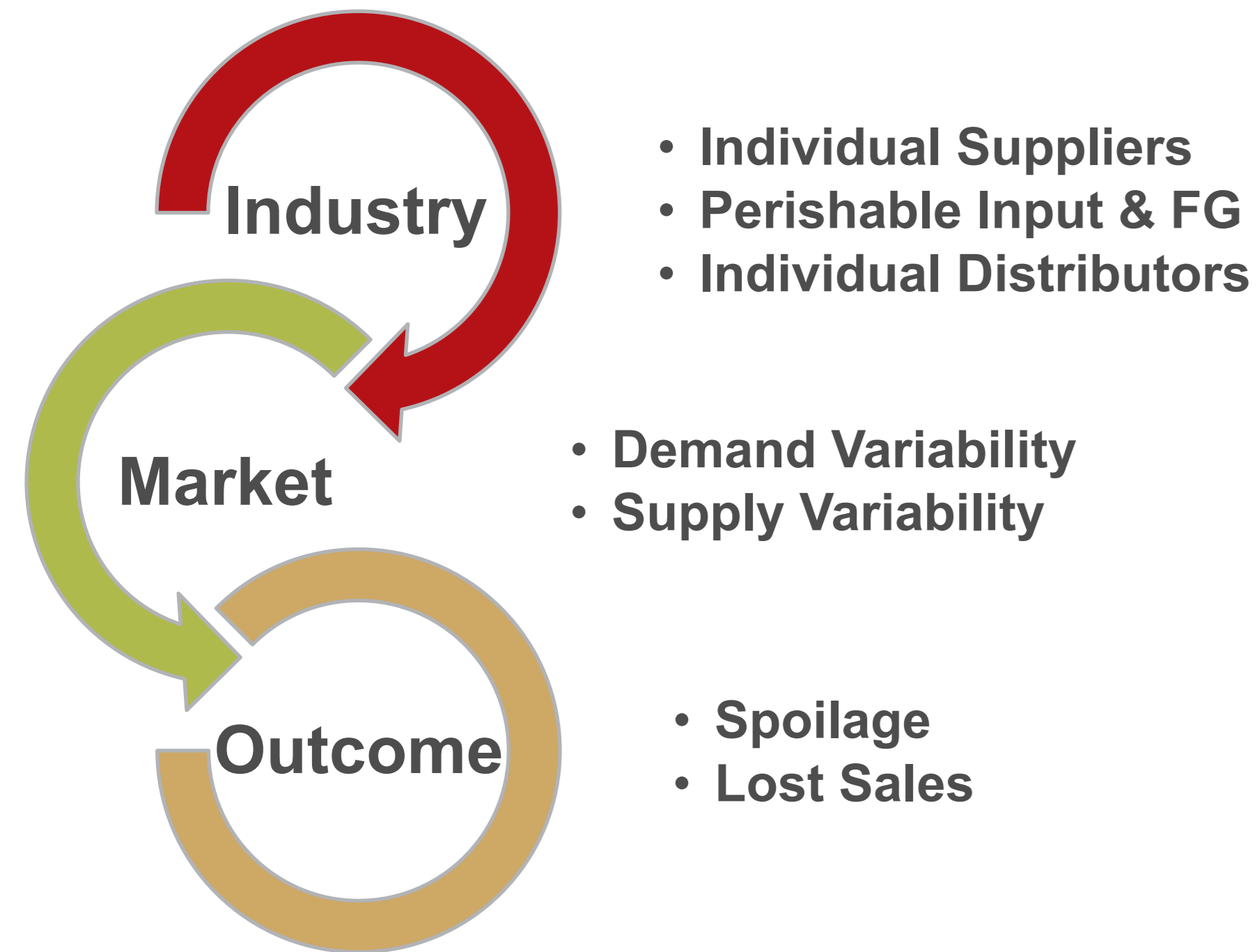


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# Managing Supply Chain for Perishables

## Motivation / Background



## Key Question / Hypothesis

What is the optimal inventory policy when dealing with perishables with uncertainty in both supply and demand?

How can we handle intermittent demand-supply mismatches due to special events to reduce wastage and/or lost sales?

## Relevant Literature

Literature Review of Inventory Models for Perishables (Chaudhary, Kulshrestha, Routroy, 2018)  
 Inventory Management of Blood as Perishable Commodity (Dillon, Oliviera, Abbasi, 2017)  
 Review of Quantitative Models in Areas of Dairy Supply Chain (Sel and Bilgen, 2015)



## The Problem

Common causes of variation in demand/supply:

> Aggregation across multiple data points may smoothen this

Special causes of variation in demand/supply:

> Intermittent demand-supply gap needs an inventory strategy

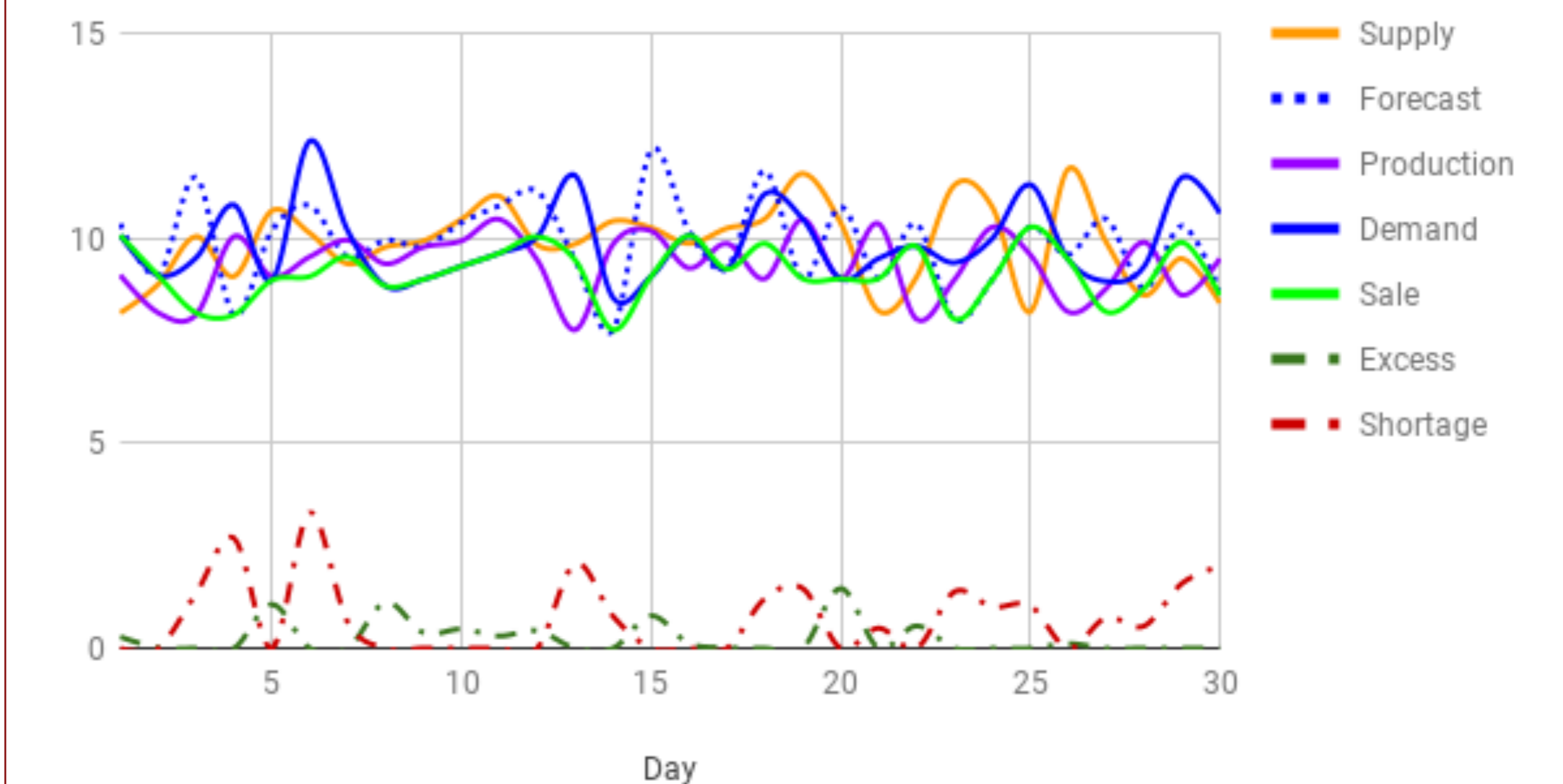
Perishable raw material & finished goods: buffering is counter-productive

## Methodology



## Initial Results

Demand Supply Pattern for Perishables



## Expected Contribution

