

# WYZE Machine Learning to Accurately Forecast Demand

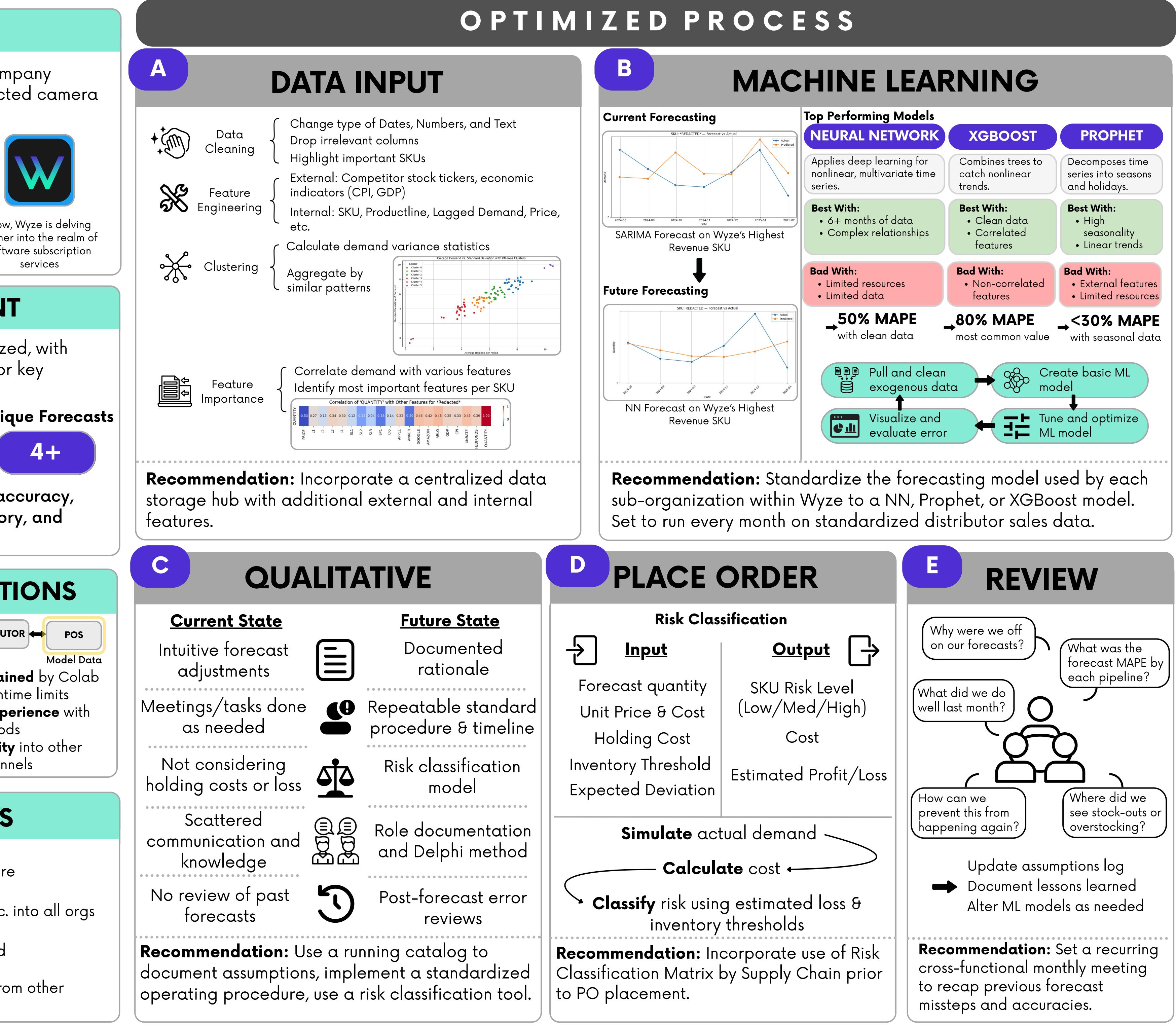
# LET'S GET WYZE

Wyze Labs is a smart home technology company founded on manufacturing internet connected camera devices.





Starting 2019, Wyze began



### **PROBLEM STATEMENT**

Forecasting is inaccurate and unstandardized, with Wyze frequently experiencing stock-outs for key revenue generating products.

Annual Stockouts



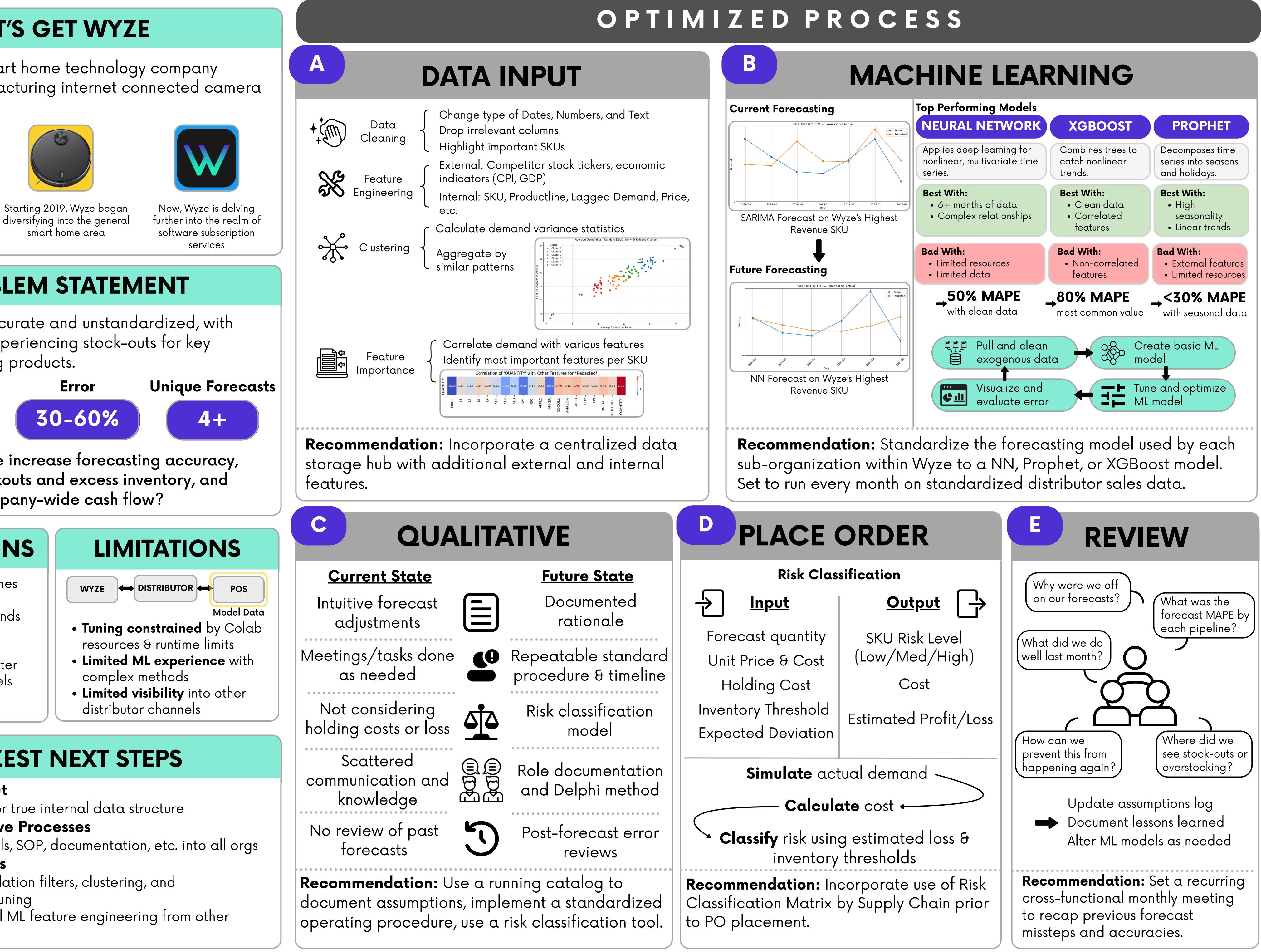
150,000+



How can Wyze increase forecasting accuracy, minimize stockouts and excess inventory, and maximize company-wide cash flow?

### **ASSUMPTIONS**

- Combined approaches decrease error
- Amazon demand trends are similar to other distributors
- ML tracks trends better than statistical models



- complex methods
- distributor channels

# WYZEST NEXT STEPS

- 1. Adjust Data Input
- Adjust ML inputs for true internal data structure
- 2. Adopt Qualitative Processes
- Incorporate models, SOP, documentation, etc. into all orgs
- **3. Optimize Models**
- Incorporate correlation filters, clustering, and hyperparameter tuning
- Explore additional ML feature engineering from other datasets

Thanks to our Project Sponsors: Yuepeng Li, Kevin Wang, Sam Sun, Luke Li, Patricia Cecilia Buchanan



