

Optimal Investment Strategy

Using Segmentation and Scoring Mechanism

On XYZ Hardware Wholesaler Transactions

In Association With



Prepared By

Pavan Gorantla

Himaja Barla

Mudit Agrawal

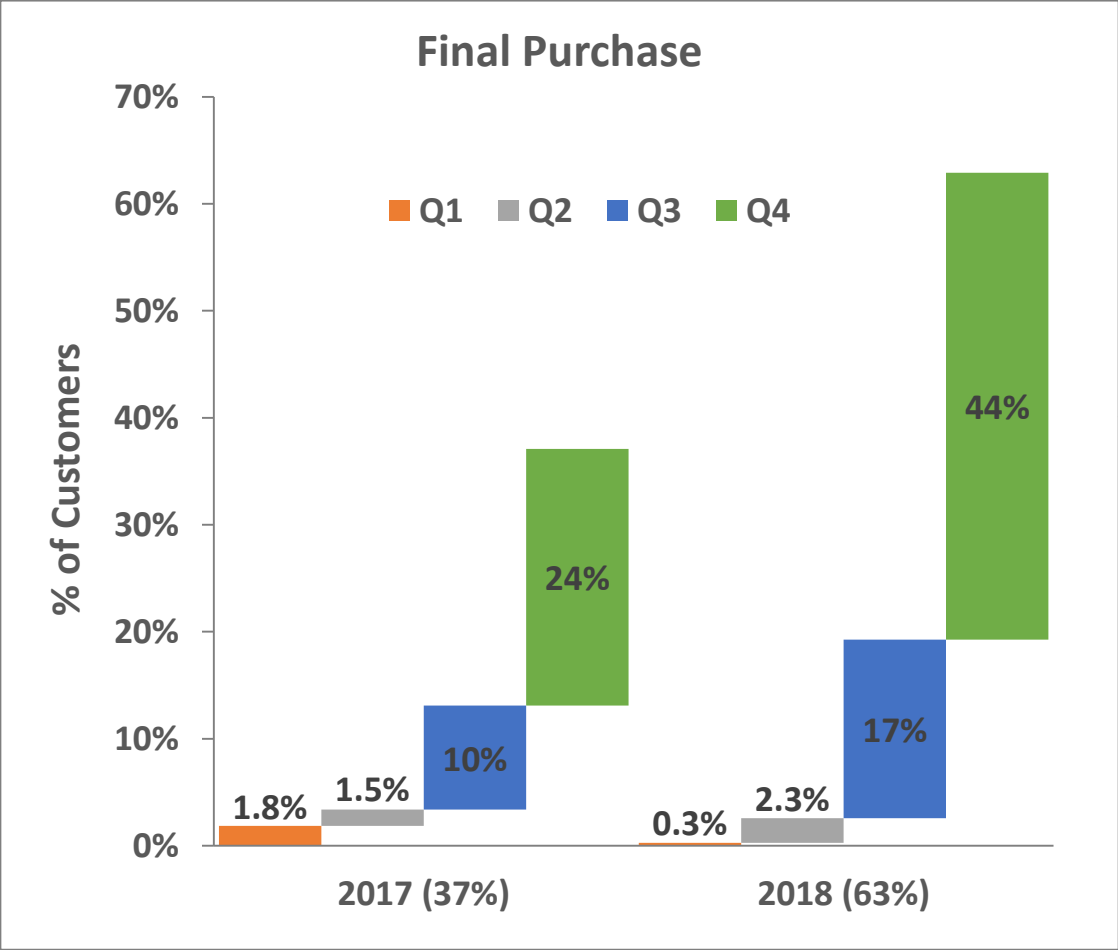
Anusha Karasala

Rohit Doddapaneni

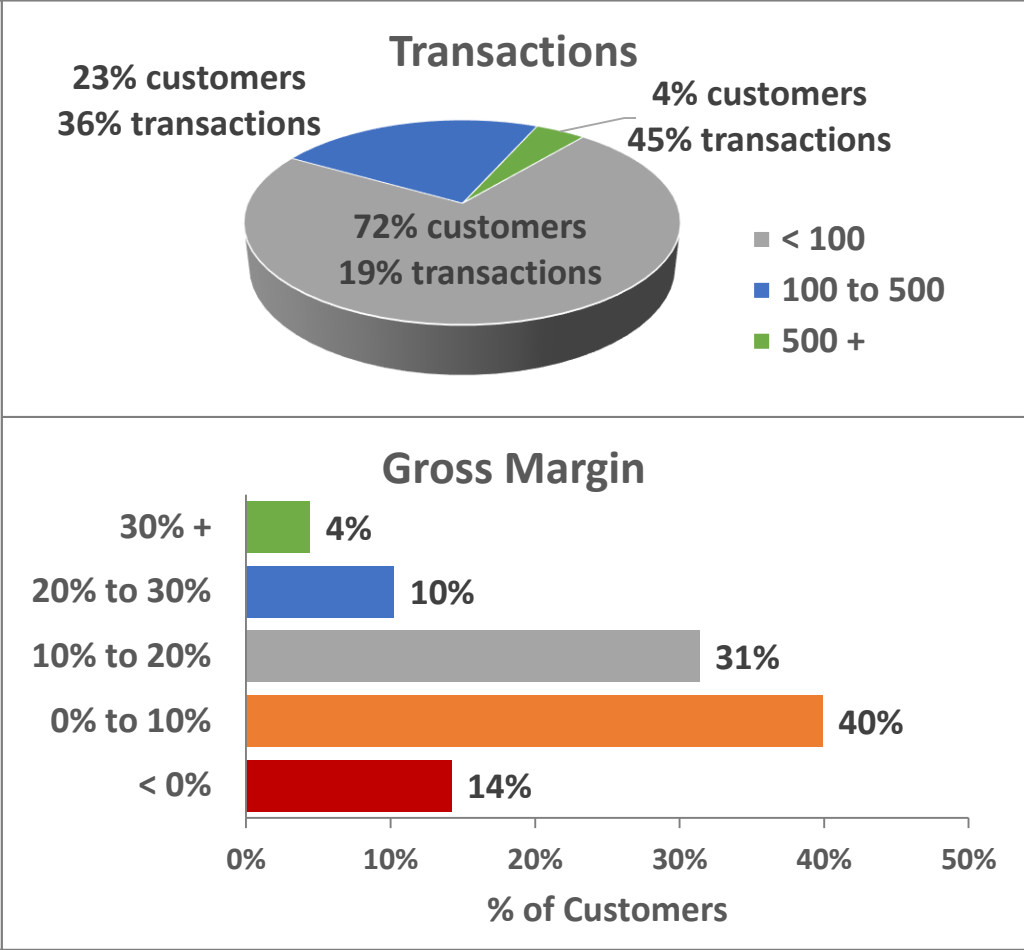
Jen-Hsin Huang

Yun-Han Liu

Customer Analysis

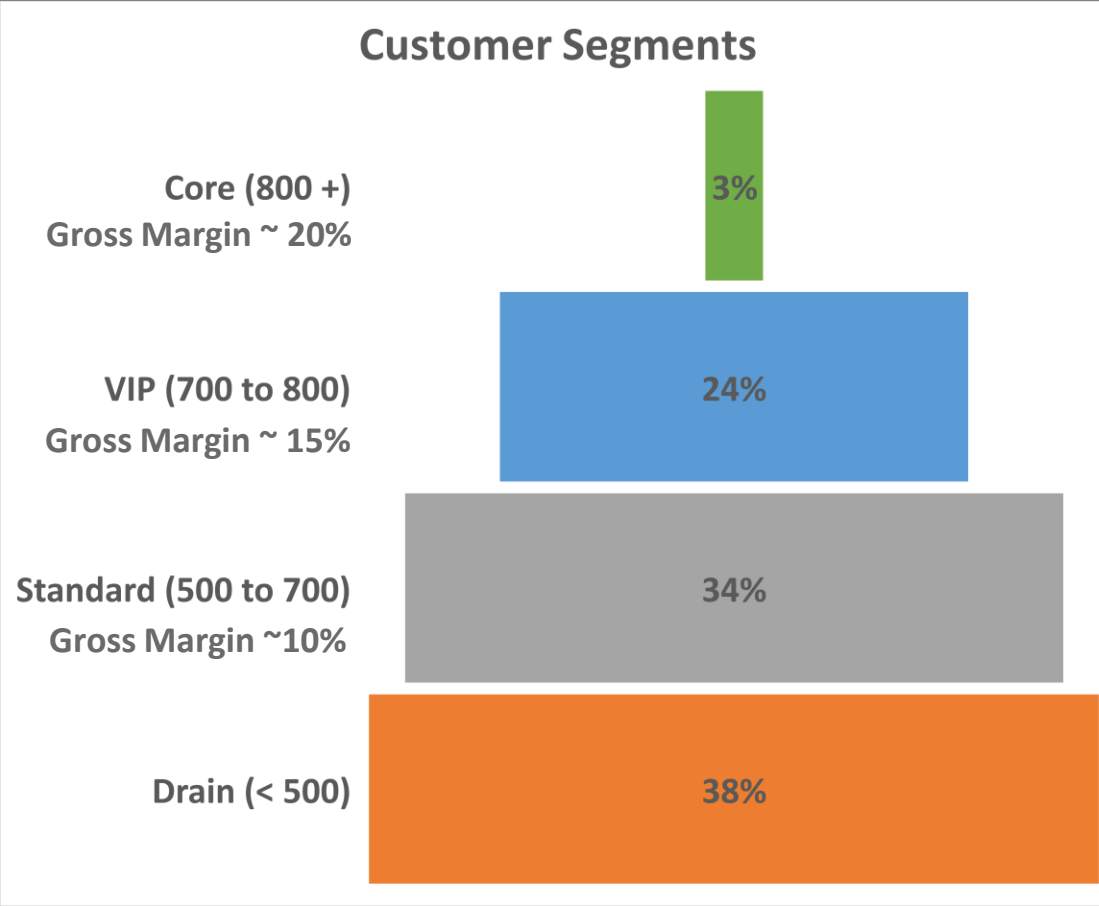


37% of customers did not return to buy after 2017



14% of customers contribute above 20% margin

Customer Segmentation

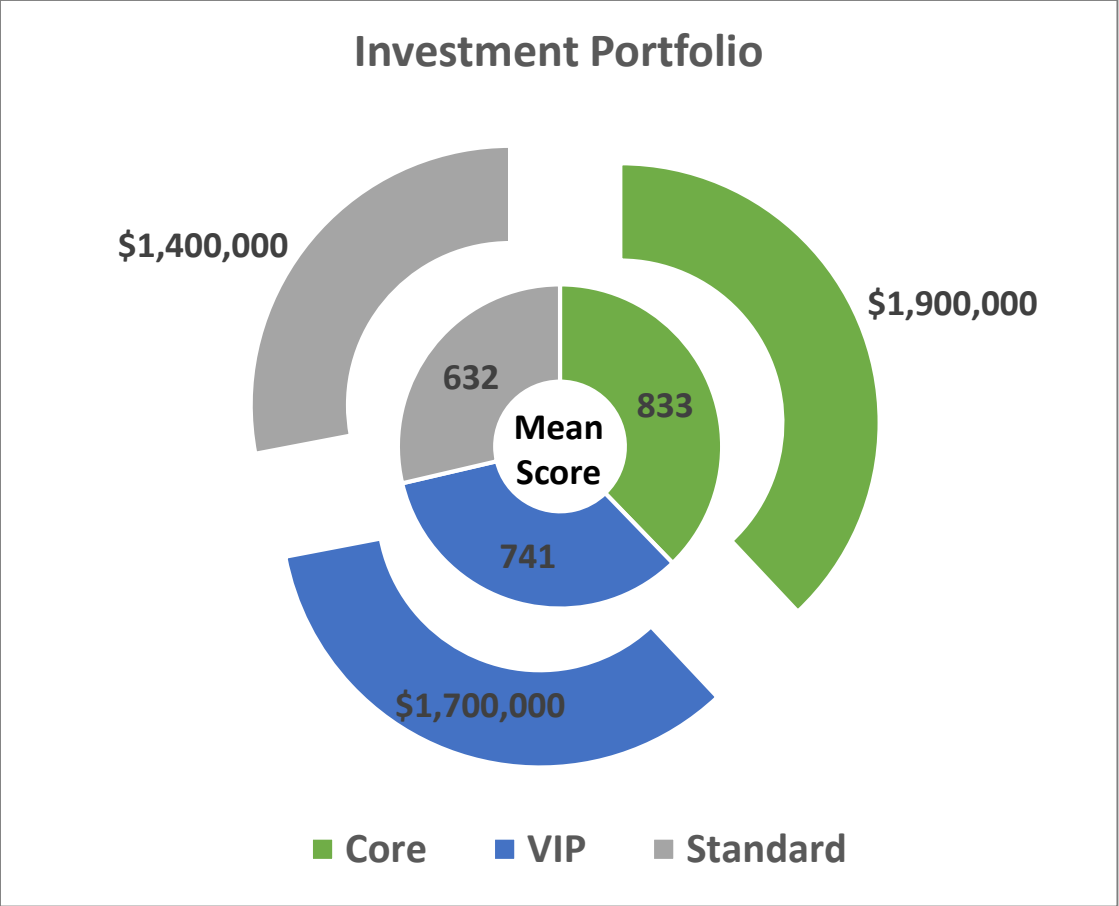


Core: Highly valuable, drives most business

VIP: Potential ones that can reach Core status

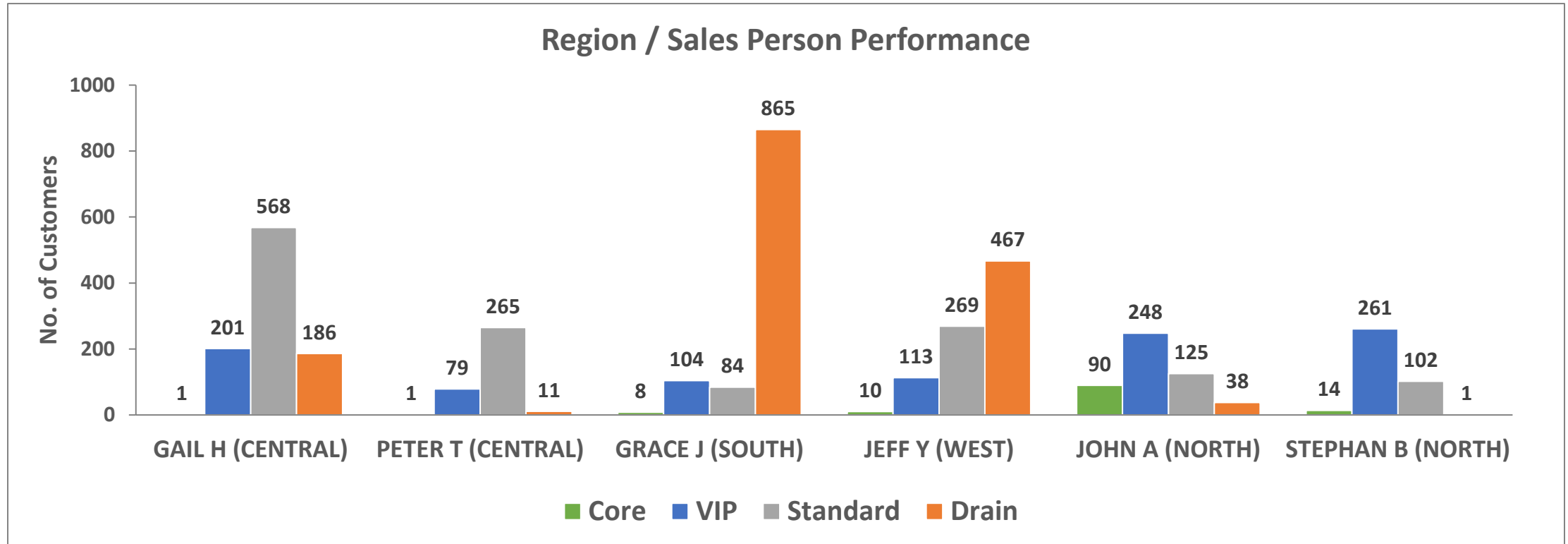
Standard: Occasional shoppers, mild business

Drain: No recent purchases, negative margins



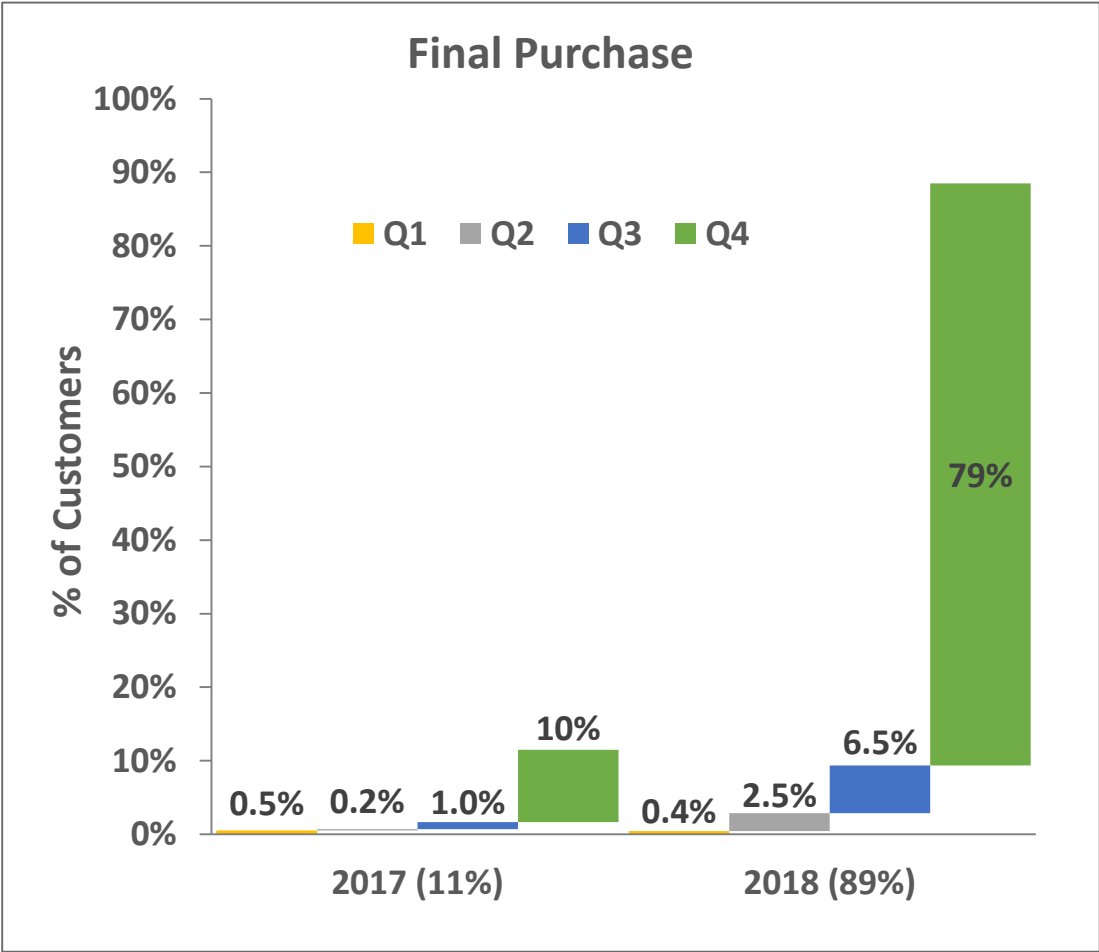
The \$5 million portfolio is divided based on Mean Score calculated using weighted Recency, Frequency, Margin

Employee Insights



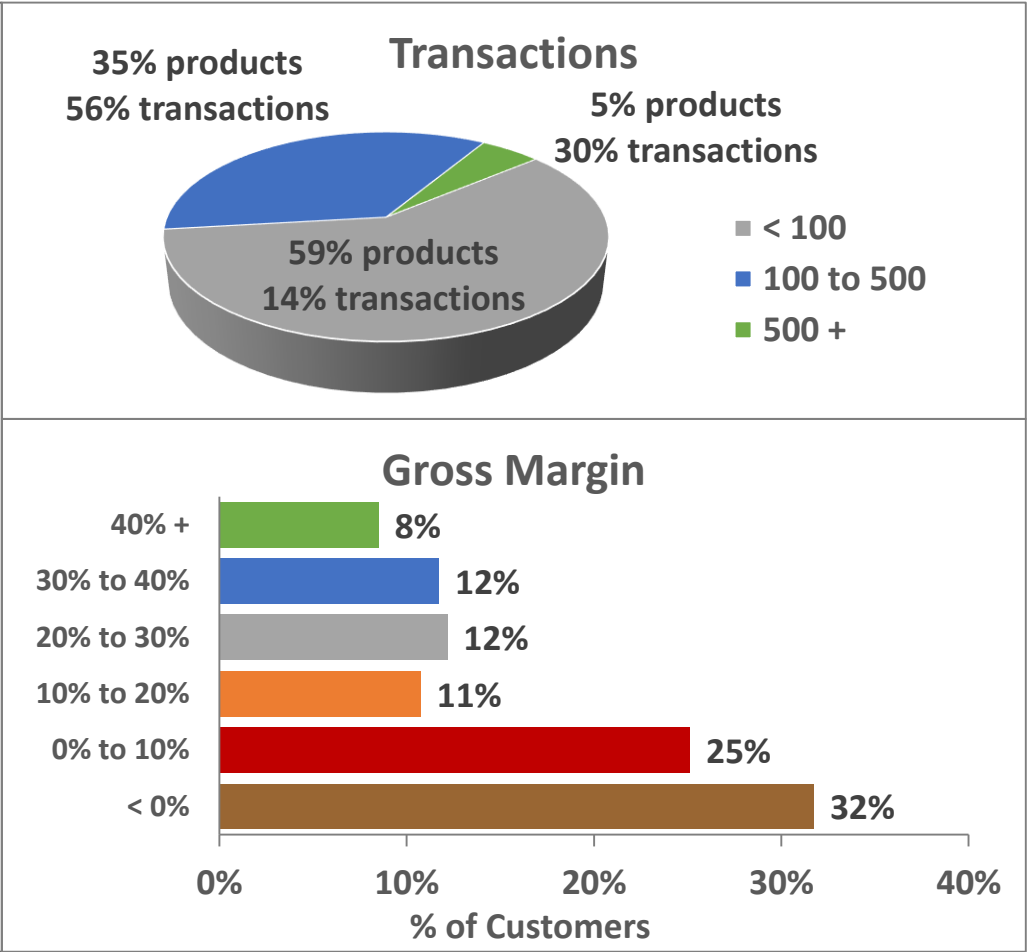
Majority of Grace's and Jeff's customers are in the Drain segment, these customers contributed in negative margins and did not purchase anything recently. Grace and Jeff need to find new customers in their regions.

Product Analysis



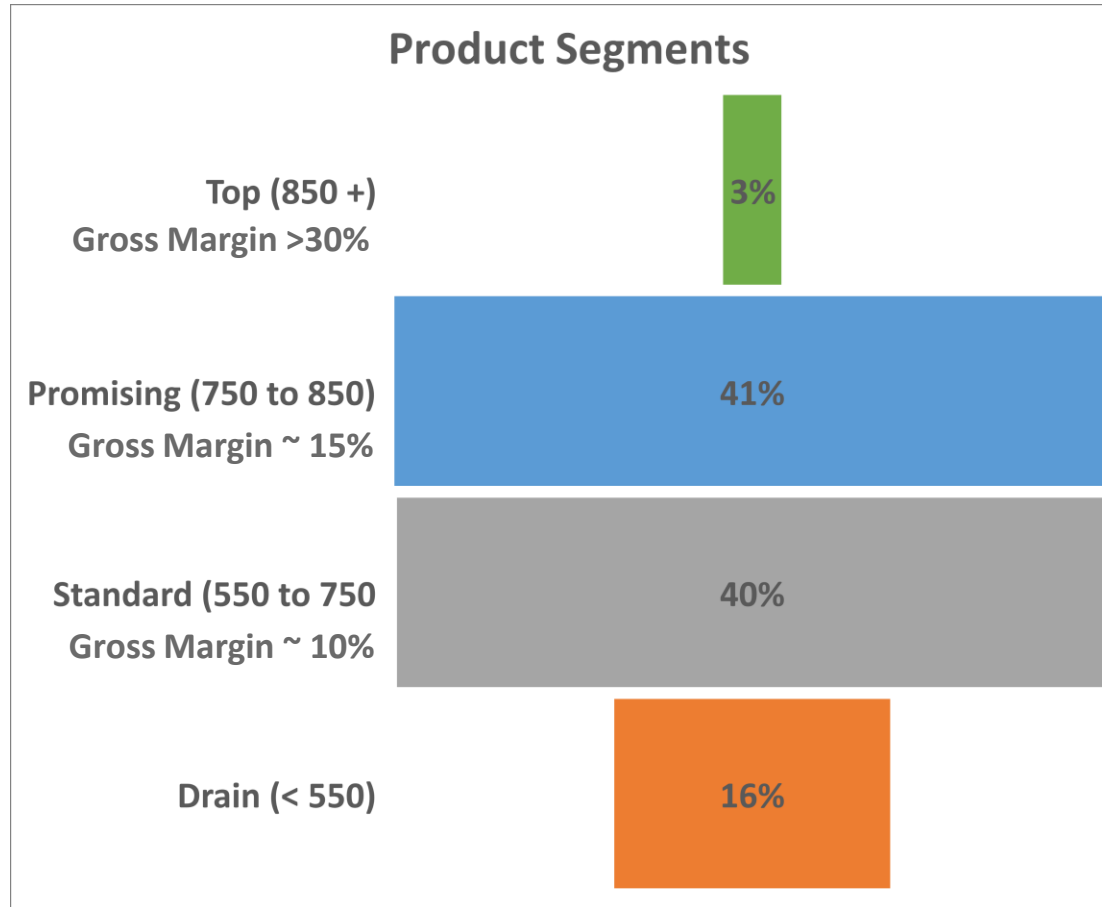
80% of inventory is in demand at the end of 2018

5% products are involved in 30% transactions

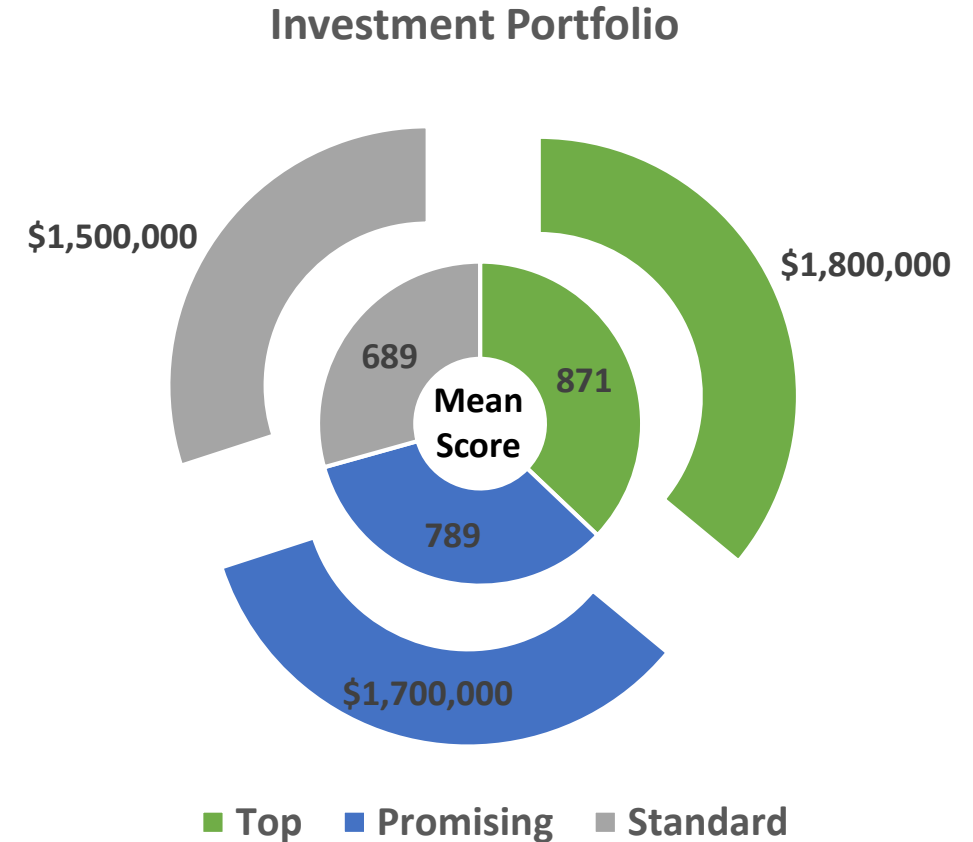


20% of products fetch above 30% margin

Product Segmentation

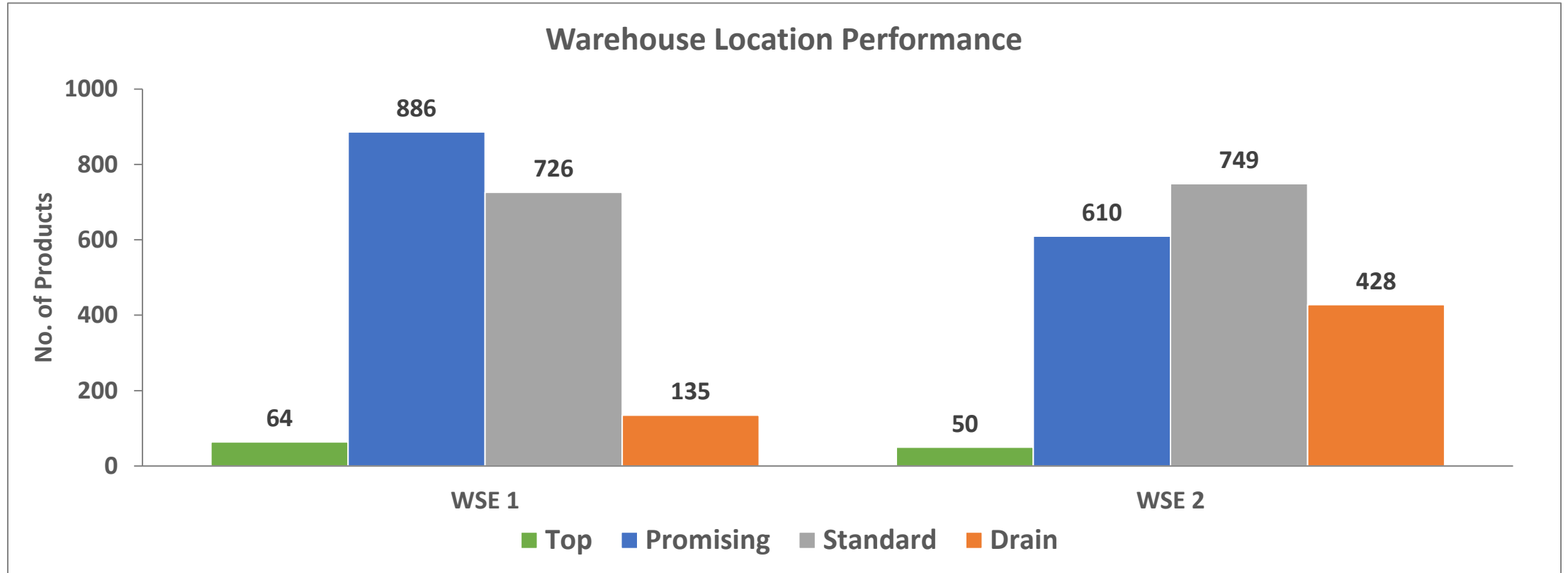


Top: Fast moving, high in demand, high margins
Promising: Decent margins, better to stock up
Standard: Seasonal demand, average margins
Drain: Less in demand, low and negative margins



The \$5 million portfolio is divided based on Mean Score calculated using weighted Recency, Frequency, Margin

Warehouse Insights



Significant portion of Warehouse 2 inventory is stocked with slow moving and low margin products, better to dispose them, invest in Top and Promising products and stock Warehouse 2 in a similar way as Warehouse 1.

A pile of various metal bolts and nuts, including hex nuts and bolts with different head shapes, scattered on a white background. The text "Any Questions?" is overlaid on the right side of the image.

Any Questions?

References

Shih, Y., Liu, C. A method for customer lifetime value ranking — Combining the analytic hierarchy process and clustering analysis. *Journal of Database Marketing & Customer Strategy Management* **11**, 159–172 (2003). <https://doi.org/10.1057/palgrave.dbm.3240216>