Maximizing Revenue through Customer Insights

Group C, Team Alpha E-Commerce Team Blackwell Industries

OUR OBJECTIVE

Compare client demographics across 4 regions of Blackwell Electronics to investigate and learn from customer purchase behavior.

Make recommendations geared towards **expanding our presence** in all regions and **maximizing revenue** generated from ecommerce sales.



BLACKWELL ELECTRONICS DATA

<u>Data From Blackwell Electronics</u>

- Customer age range 18-85
 - Millennials (18-40)
 - Generation X (41-60)
 - Baby Boomers (61-80)
 - Silent Generation (81+)
- Range of items per transaction(1-8)
- Amount spent(\$5-\$3000)
- Region(1,2,3,4)
- In-Store or Online Purchase

Revenue Highlights
Seeing growth in online presence

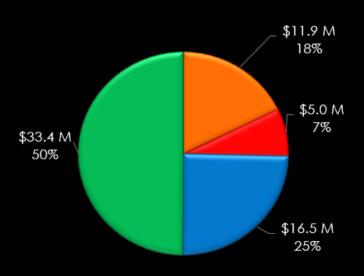
Total Sales online \$35.89M Total Sales in-store \$30.95M

Sales revenue



BLACKWELL'S REGIONAL SALES

Total Sales by Region



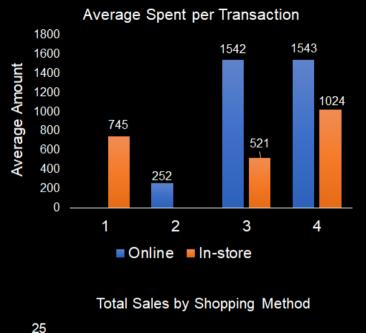
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Insights Gained

- Highest revenue generator is Region 4, 50% (\$33.4M) with an avg. sales/transaction \$1,284
- Region 2 provides the biggest opportunity to increase sales 7% (\$5M) with an avg. sales/transaction \$252

Recommendations

- Identify what marketing techniques are being used in Region 4 and apply them throughout
- Compare and contrast these company wide result to the online vs. in-store findings



20

10.8

In-store

5.7

13.3

(millions)

20

15

10

5

11.9

Online



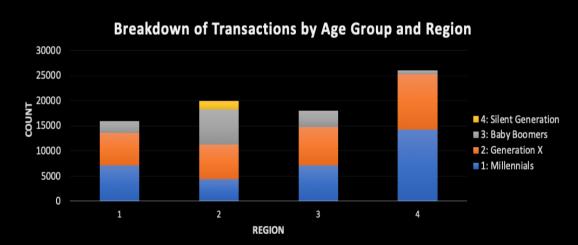
Insights Gained

- Top regions 4 & 3, respectively, spend
 1.5 to 3 times more online than in-store
- Region 1 buys in-store only
- Region 2 buys online only (least online)

Recommendations

- Consider online marketing in untapped regions
- Target customers strategically on factors that make a difference
- Explore age as key demographic

DIFFERENCES IN AGE OF CUSTOMERS BETWEEN REGIONS



Insights Gained

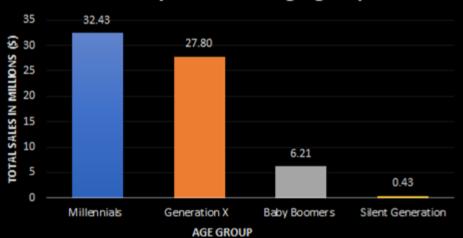
- Regions 4 attracts mostly younger customers with the most millennials and Gen X transactions
- Region 2 draws in an older demographic, being the only one with Silent Generation shoppers

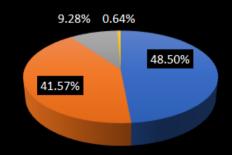
Recommendations

 Consider ramping up direct marketing activities to the untapped millennial market in region 2

SALES REVENUE BY AGE GROUP

Sales by different Age group





Insights Gained

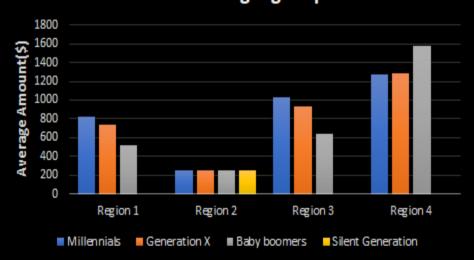
- Millennials (18-40) contribute almost 48.5% (\$32.43M) to the total revenue
- Generation X (41-60) contributes
 41.5% to the total revenue
- Baby boomers (61-80) and Silent generation(81+) contribute only 10% to total revenue

<u>Recommendations</u>

 Target Baby boomers to increase revenue (Design Changes to website/Special deals/focus on Customer service in store)

AVERAGE AMOUNT PER TRANSACTION

Average amount per transaction by different age groups



Insights Gained

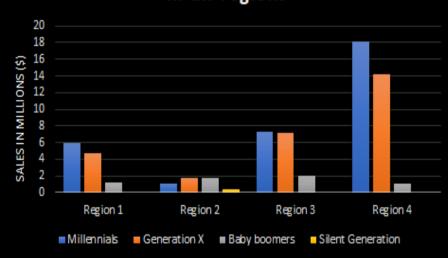
- Average amount per transaction spent by the same age group differs by region
- Customers spend more on an average per transaction in Region-4 followed by Region-3,1 and 2
- Baby boomers spend more on an average per transaction than millennials in Region-4

Recommendations

 Collect more data to understand why customers in Region-4 spend more and Region-2 spend less.

REGIONAL SALES BY AGE GROUPS

Sales revenue by different age group in all regions



Insights Gained

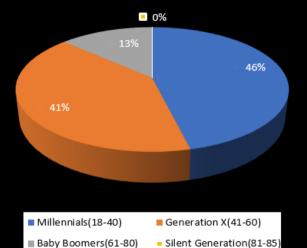
- Millennials(18-40) contribute the most to revenue in all the regions, except Region-2.
- In Region-4, though baby boomers (above 60) spent more on an average than millennials, their #transactions is less and hence their contribution to total revenue is lesser
- Millennials (18-40) in Region-4 alone contribute \$18M (27%) of total revenue

<u>Recommendations</u>

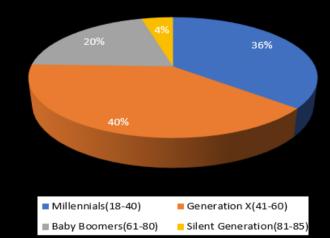
- Do more marketing in Region 1,2 and target millennials in particular.
- Target baby boomers in Region 4.

WHO ARE THE CUSTOMERS FOR ONLINE & IN-STORE SHOPPING?





Online customers in each age group



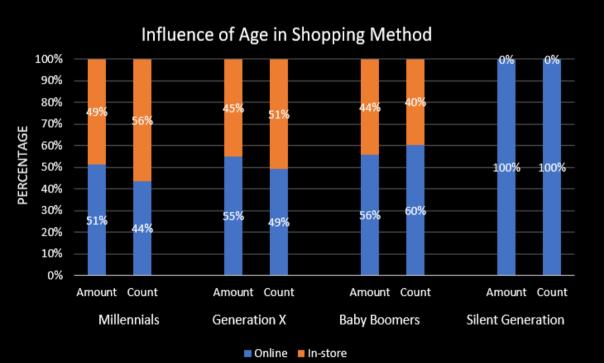
<u>Recommendations</u>

- Analyse why millennials tends to shop In-store
- Understand if the millennials have the potential to spend more, if we promote Online shopping to them

Insights Gained

- Age above 60(Baby Boomers & Silent Generation) prefers online shopping comparatively
- Millennials are the major contributors for In-store shopping
- Total Millennials shopping Online is less comparatively to the Generation X

INFLUENCE OF AGE IN SHOPPING METHOD?



Insights Gained

- Millennials spend more on online even though the total transactions is less via online
- Both Baby Boomers & Silent Generation shoppers tend to shop & spend more online than in-store

<u>Recommendations</u>

- Promote online shopping to Millennials
- Encourage Baby Boomers to continue the same trend

SUMMARY & KEY OPPORTUNITIES

- Region 4 is the most mature market
- Regions 1 & 2 present untapped areas of growth
- Our youngest customers are our most profitable

<u>Recommendations</u>

- Launch awareness campaign in Region 1 to drive current and net-new customers to our online offerings
- Conduct cost-benefit analysis of establishing a brick-and-mortar presence in Region 2
- Boost ad-presence targeting younger market across Regions 1-3 & Baby Boomers in Region 4 to attract more lucrative customers and maximize revenue potential



UNLOCKING DATA DRIVEN DECISIONS WITH DATA MINING

- What percent of customers are new customers? Will a typical online customers repeat business more or less than a typical in-store customer?
- What's the average income of people in the different regions? Do people in Region 4
 make more money than those in Region 2?
- What are future sales projections based on historical sales? Will we hit revenue goals?
- What products have the customers bought before and regularly purchase? This can help in bundle recommendations and alerting best deals.
- Data Mining can until the hidden pattern about the influence of age in the shopping, which in turn can answer the question what products can attract a particular age group.
- Data Mining techniques like Recommender Systems can help companies analyze which competitive items outperform others, and why; valuable in up-sell opportunities, bundling, and future inventory planning.



Data has a better idea

Thank You.