

Hackathon Charlotte

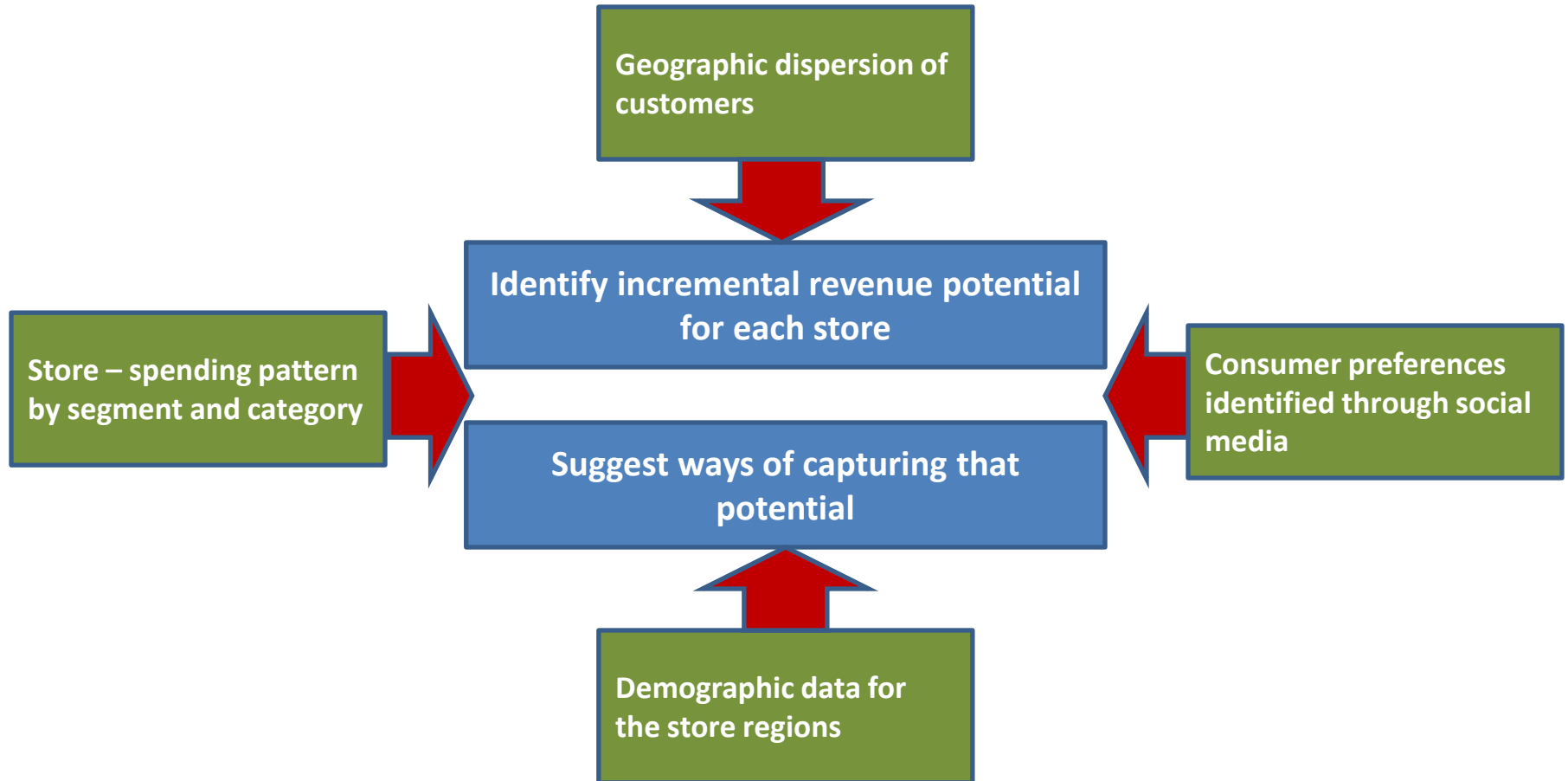
Team: Check Aisle 33

Ash

Rethesh

Tuhin

Problem we chose to solve



Assumptions we made

- Households in the same segment have the same spending potential
- Harris Teeter has the ability to develop customized merchandizing strategy by store
- Harris Teeter will be able to custom target segments using promotions and coupons
- The households who appear to reside a long distance away from the store they are shopping in have moved but have not updated their address
 - There could be households who purchased while visiting friends and relatives and we discerned them by looking at the frequency of purchase at the store (if they bought once or twice we consider them as visitors)

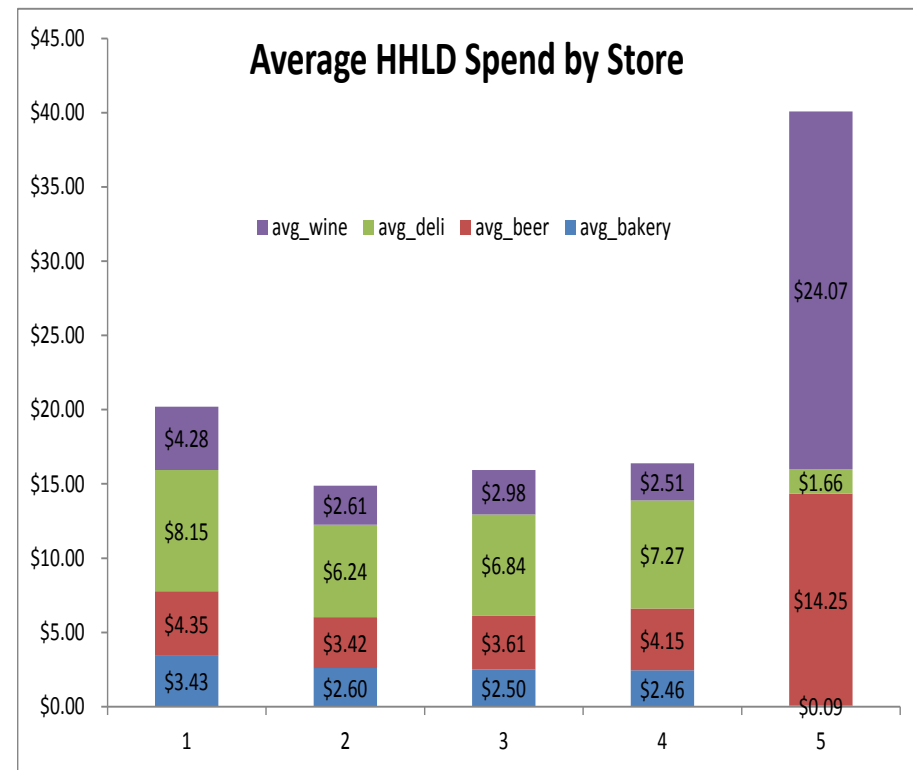
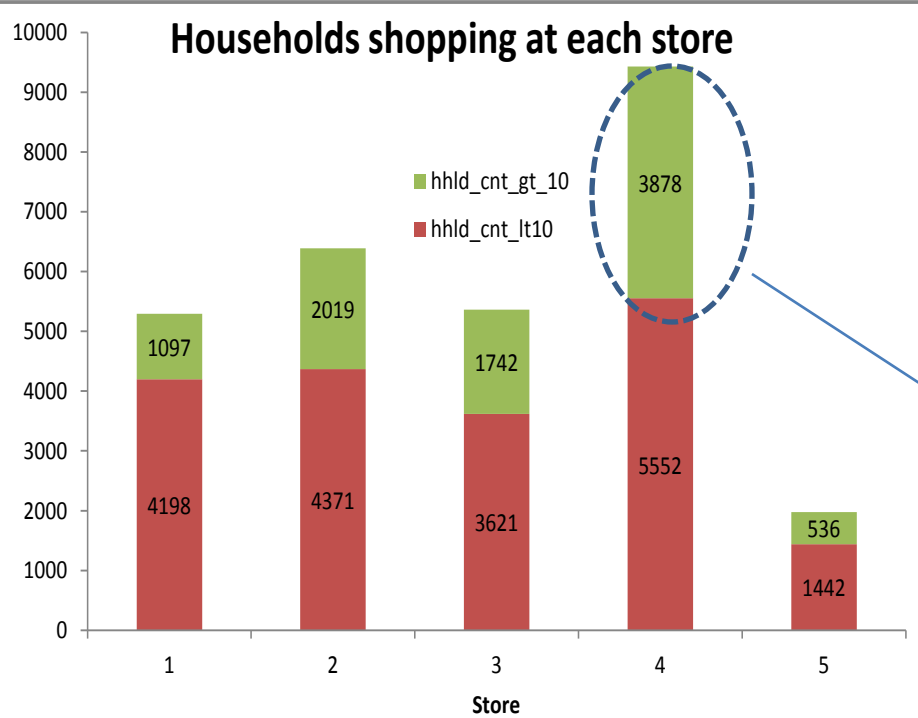
Potential estimation methodology

- We use the max spend for each segment for each category and consider that as the potential
- Then we look at each segment's spend at each store and if they are spending less than 70% of the max potential – we calculate the difference between the actual spend and max spend and consider that as the incremental spend that the store can capture
- For households who appear to be travelling more than 10 miles to shop:
 - They may be visiting friends or relatives and occasionally shopping
 - Or they have moved and not updated their address
 - We looked at the frequency of purchase and only considered those that have bought more than twice as potential regular buyers

What is the opportunity

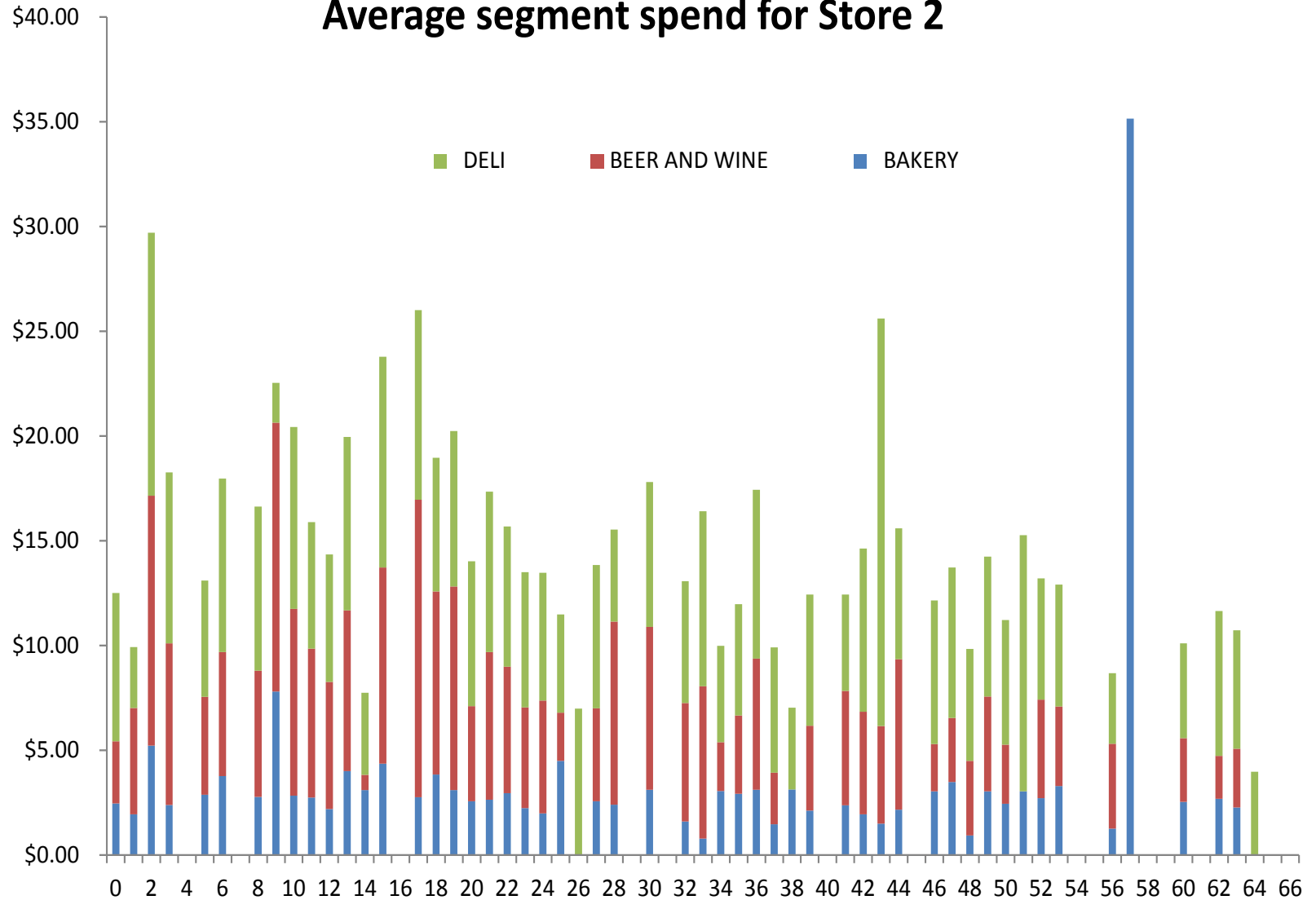
To showcase – we only look at households within 10 miles of where they shop

We have done the same analysis for households living greater than 10 miles away

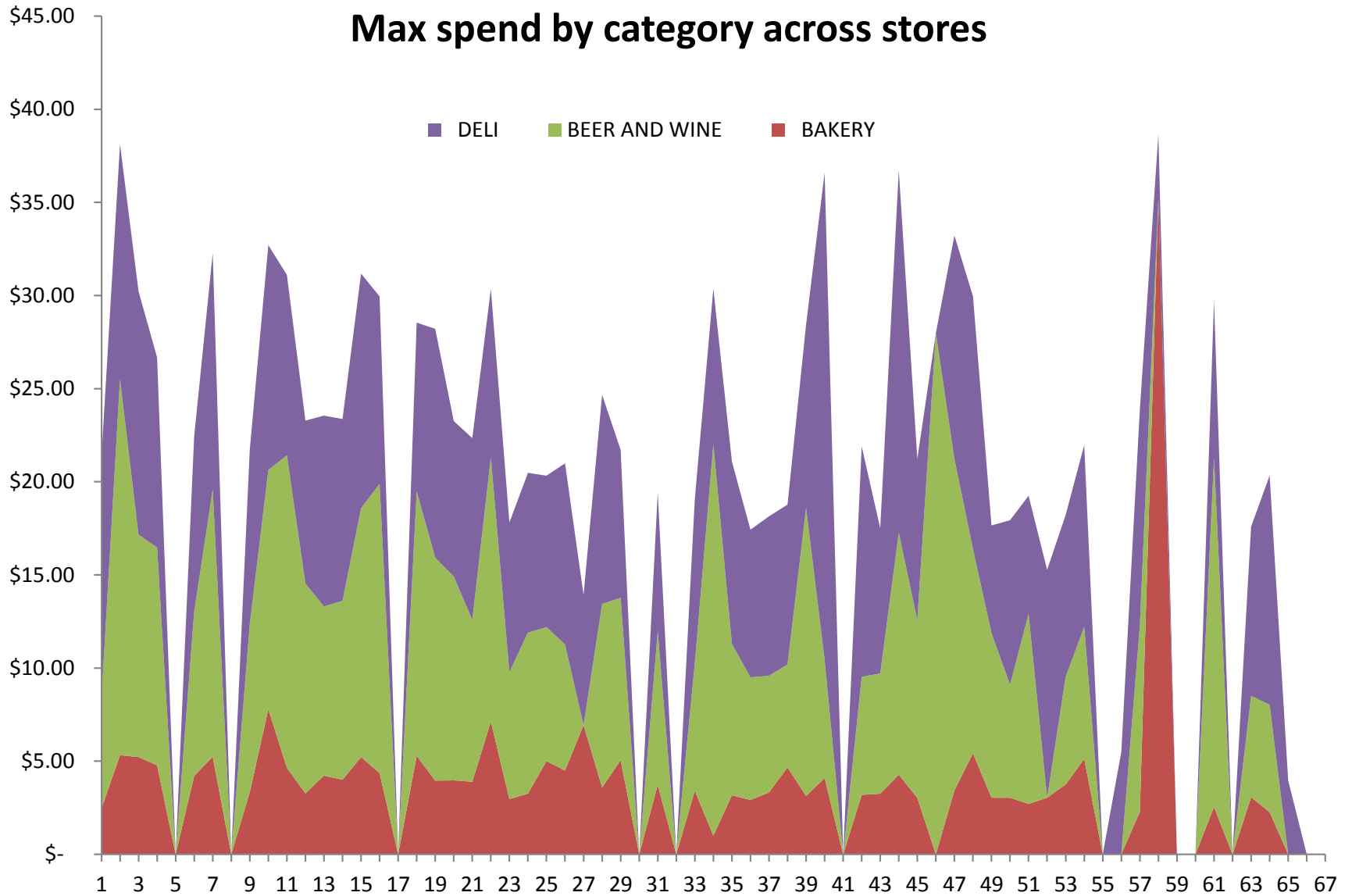


When these customers buy more than once or twice (and hence prove themselves to not be 'visitor buyers' – ask the cashier interacting with them to update their address

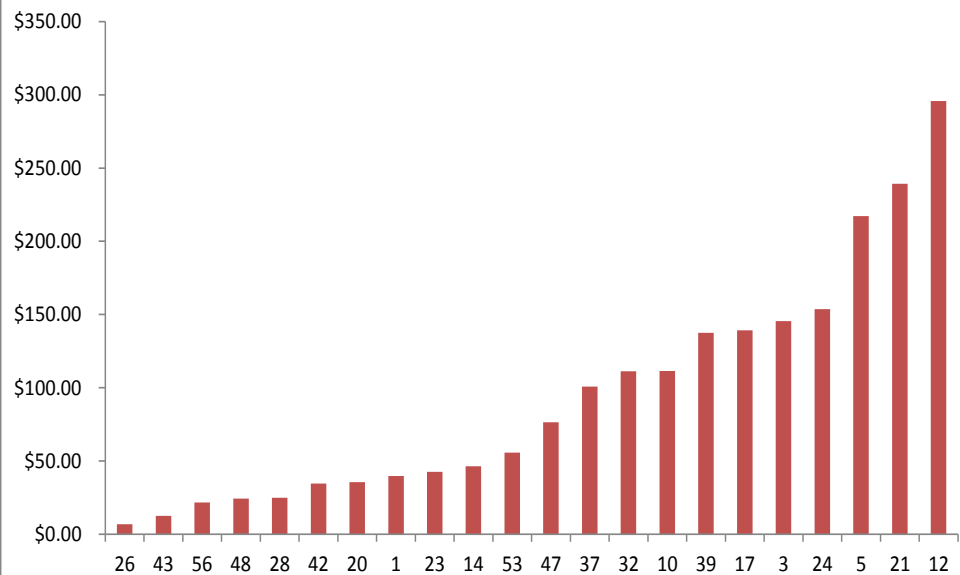
Average segment spend for Store 2



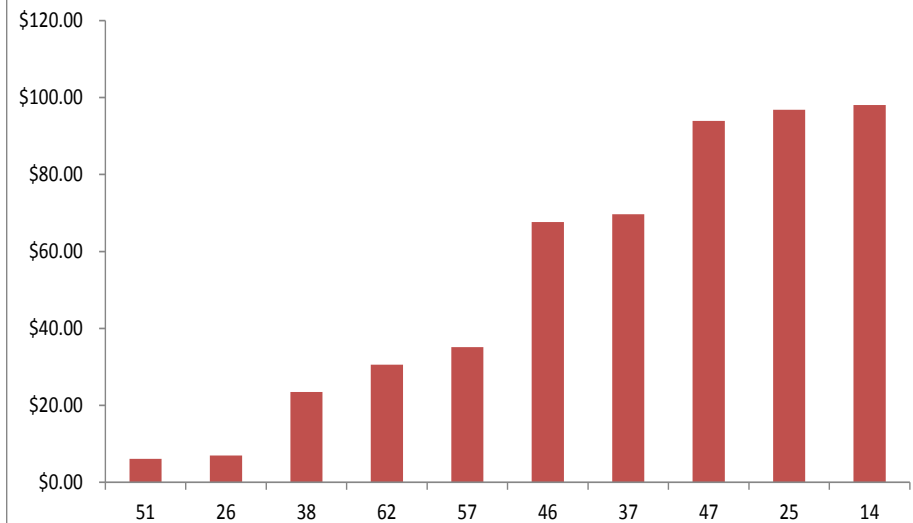
Max spend by category across stores



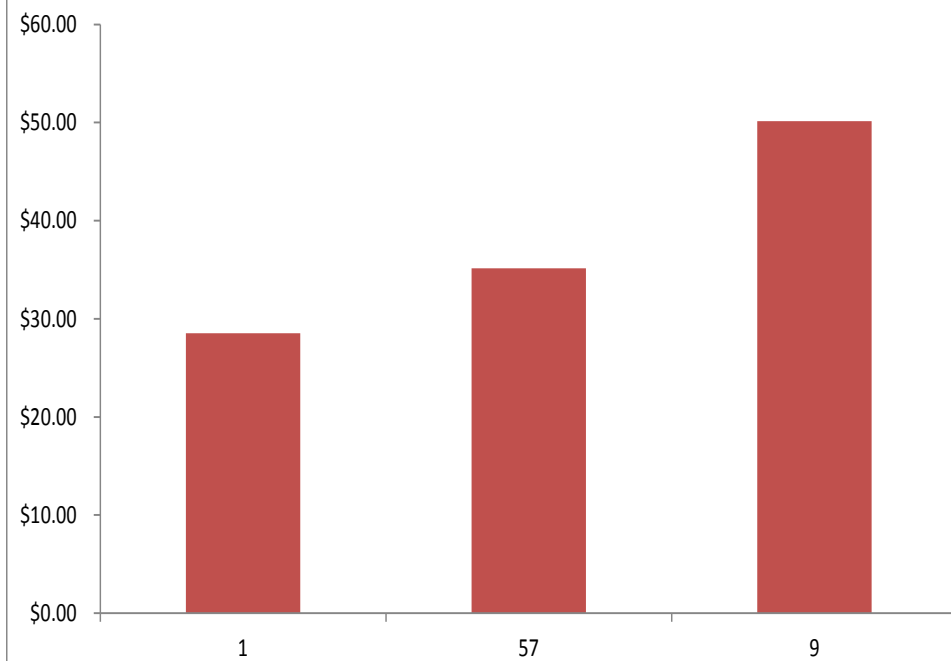
Store 2 potential for incremental Bakery Revenue

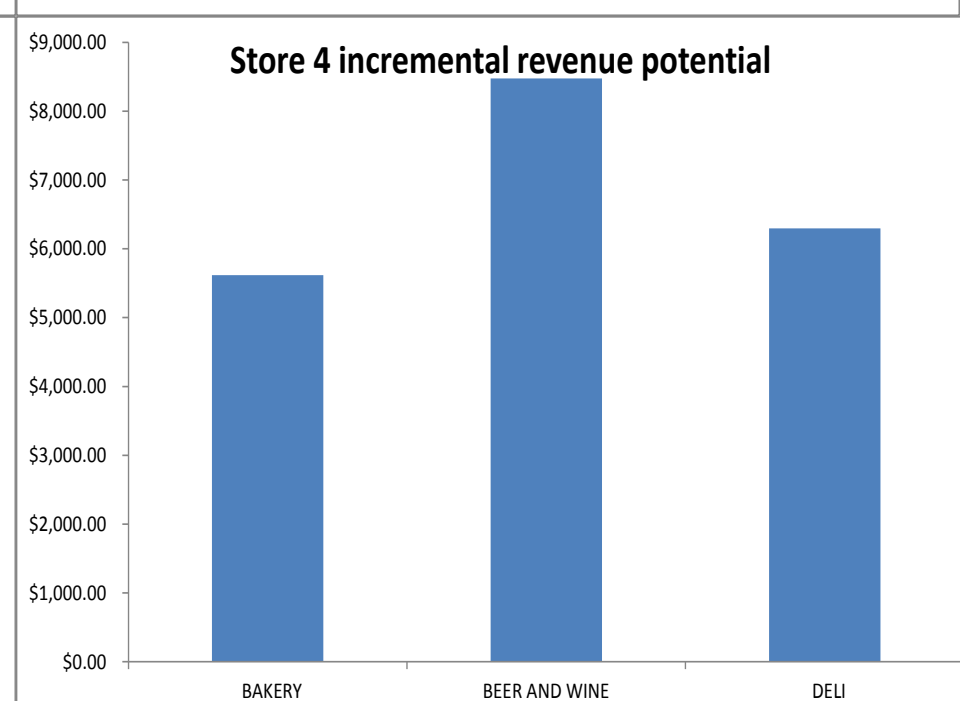
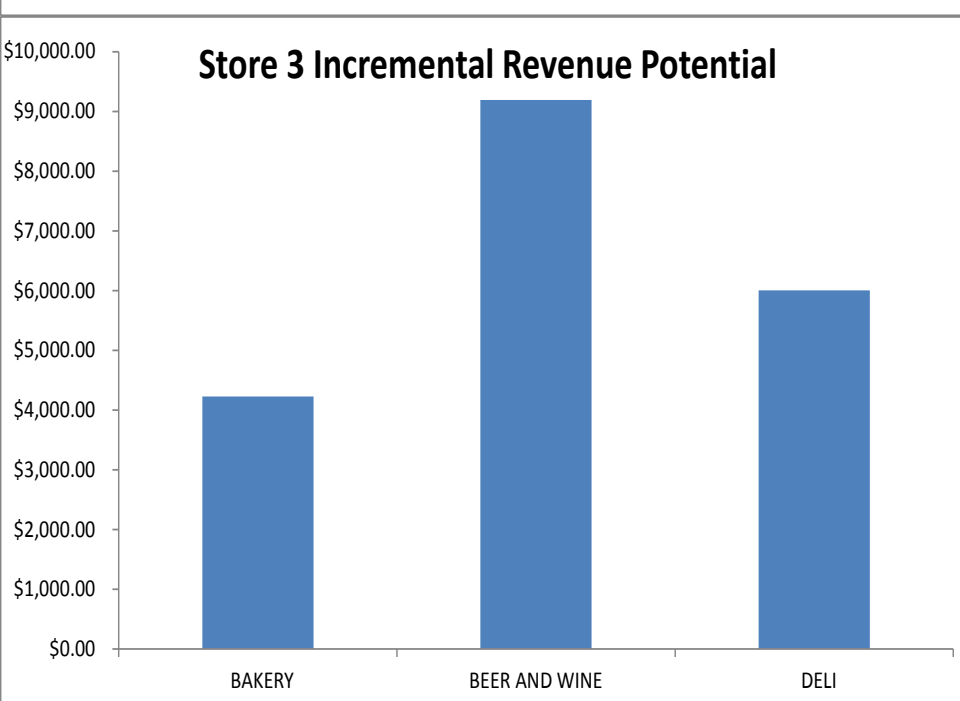
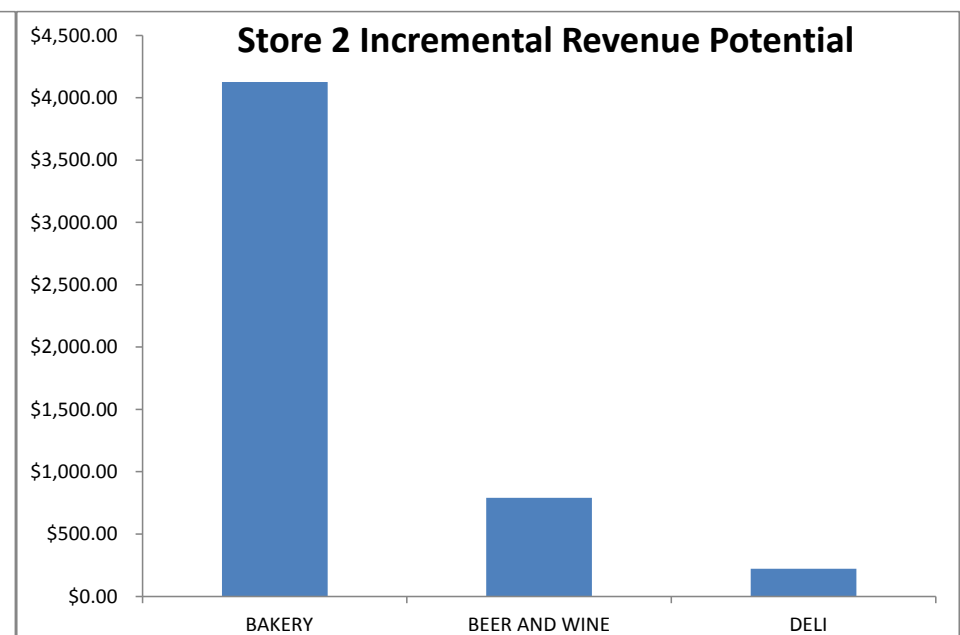
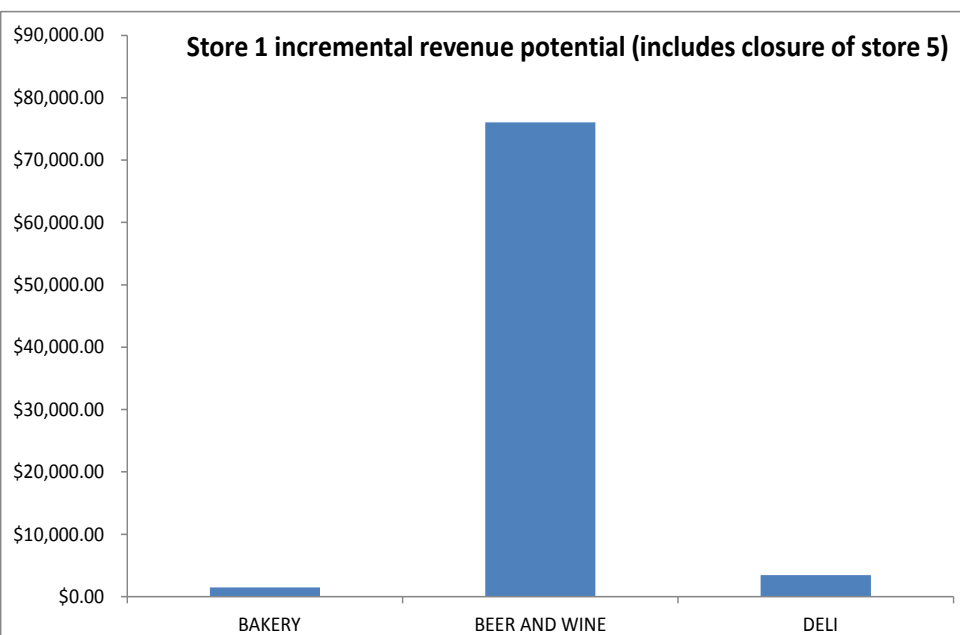


Store 2 potential for incremental Beer and Wine Revenue



Store 2 potential for incremental Deli Revenue





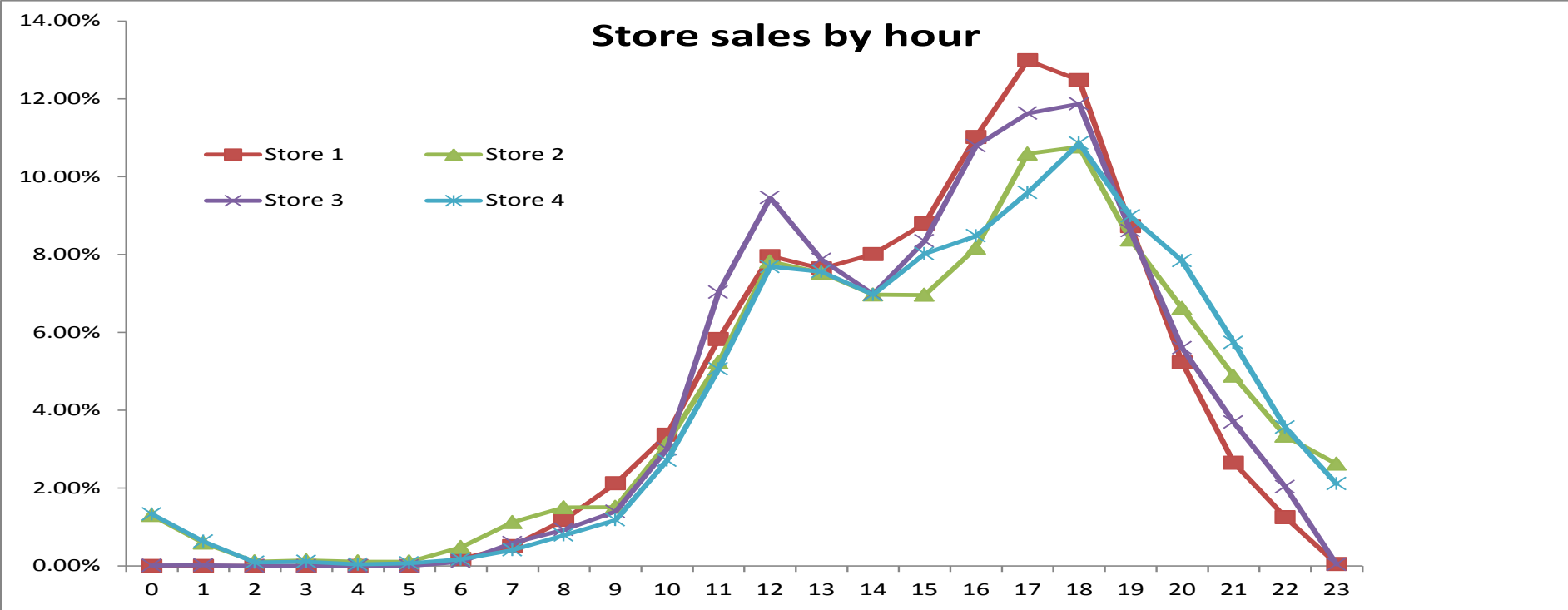
How do we get to the opportunity

We took a few examples of how Harris Teeter can integrate public and social data to target relevant stores, segments and households using

- 1) Promotional offers
- 2) POS Coupons
- 3) Custom Merchandising

	Store 2,3	Store 1,5	Store 4
Median Income (\$)	50,538	61,899 B	41,340
Cost Of Living Index	146	164	116
Median Mortgage To Income Ratio (%)	21	21.7	22.9
Owner Occupied Homes (%)	47	71	51
Median Rooms In Home	5.1	5.9	4.8
College Degree (%)	45	46	24
Professional (%)	42	49	27
Population	17,753	42,701 A	25,948
Average Household Size	2.5	2.6	2.7
Median Age	27.1	31.1	28.7
Male To Female Ratio (%)	107.9	96.8 C	108.8
Married (%)	44	63	46
Divorced (%)	6.8	8.1	8.9
White (%)	59.9	62.1	32
Black (%)	26	27.4	45.5
Asian (%)	7	4	3
Hispanic Ethnicity (%)	4	4 D	17

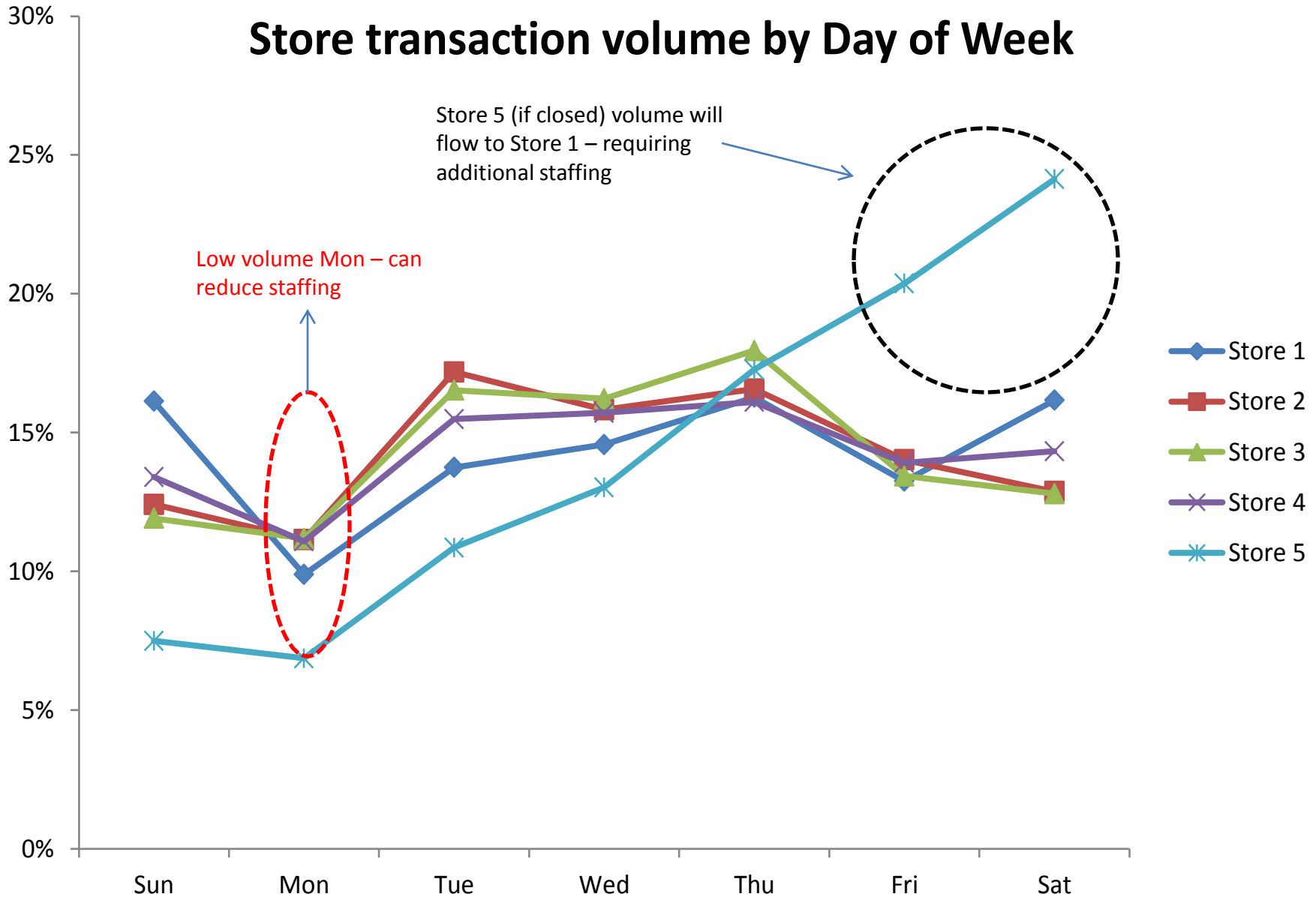
- A After closing store 5, open another store at a logical distance
- B Target relevant segments stimulating higher volume purchase (buy 2, get 1 free) and/or coupons on higher margin/priced items
- C Stock more beer in stores 2,3,4 and wine in store 1. Also can target gender based products
- D Opportunity to stock more Hispanic foods in store 4, Asian food in store 2,3 and corresponding promotional coupons



Store transaction volume by Day of Week

Store 5 (if closed) volume will flow to Store 1 – requiring additional staffing

Low volume Mon – can reduce staffing



From Facebook API

Social Media Indicators (Aggregated results using Facebook Graph API)			
Source	Category	Likes	Post/ Topic
Facebook Graph API	Organic Foods	33	TELL US: What are your MUST BUY organic products and why?
Facebook Graph API	Daily Specials	39	Today feels like a good day for snacks! TODAY ONLY e-VIC members can purchase 13.7 oz. Cheez-Its
Facebook Graph API	Deli	268	Beef for dinner? Yes please! USDA Choice Harris Teeter Reserve Angus Beef Boneless Top
Most liked Post			
Facebook Graph API	Daily Specials	871	Hey SuperMoms! Cantaloupes and Blueberries are BOGO this week. Which do you prefer feeding your kids? Like for cantaloupes,



HT can identify likes and comments on posts like these (by geography) and use the preferences to target similar pushes in store (like focus on Organic promos in the geography where most Organic likes are coming from)

Architecture

