# Morgan Stanley



MORGAN STANLEY RESEARCH North America

Morgan Stanley & Co. LLC

Vincent Sinisi vincent.sinisi@morganstanley.com +1 (1)212 761-1358

Brian Nowak brian.nowak@morganstanley.com +1 (1)212 761-3365

Simeon Gutman simeon.gutman@morganstanley.com +1 (1)212 761-3920

Michael Kessler michael.kessler@morganstanley.com +1 (1)212 761-3586

July 31, 2018

FOUNDATION

### **Food Retailers**

### 5<sup>th</sup> Annual AlphaWise Food Retail Survey



Photo source: Shutterstock

In May 2018, in conjunction with Morgan Stanley AlphaWise, we conducted the 5th wave of the online survey among n=2,951 US 18+ year old consumers who are responsible for grocery shopping for their household; including 61% of respondents who have purchased natural/organic products in the past 3 months. The sample is representative of the U.S. population in terms of age, gender and region. The margin of error on the total sample is +/- 1.8% at a 95% confidence level and higher between subgroups. Where applicable, findings are compared to the previous waves of the survey.

Morgan Stanley does and seeks to do business with companies covered in Morgan Stanley Research. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of Morgan Stanley Research. Investors should consider Morgan Stanley Research as only a single factor in making their investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

# Morgan Stanley

### **Table of Contents**

	3-4	
1. Key Survey Themes	5-4	Survey Methodology:
2. Online Grocery Trends	5-19	In May 2018, in conjunction with Morgan Stanley AlphaWise, we conducted the 5th wave of the online survey among n=2,951 US 18+ year old consumers who are responsible for grocery shopping for their household; including 61% of respondents who have purchased natural/organic products in the past 3 months. The sample is representative of the U.S. population in terms of age, gender and region. The margin of error on the total sample is +/- 1.8% at a 95% confidence level and higher between subgroups. Where applicable, findings are
3. AMZN and Online Grocery	20-25	
4. In-Store Grocery Trends	26-38	
5. Whole Foods Post-AMZN	39-45	compared to the previous waves of the survey. Note: demographic age group breakdowns are as follows: Gen Z (23 or younger), Millennials (24-38), Gen X (39-53), and
6. Natural / Organic Trends	46-54	Baby Boomers (54 or older) (as of 2018).

## Key Survey Takeaways

Online grocery gaining further traction	Online grocery ordering continues to gain traction, especially among younger consumers. ~20% of consumers purchase groceries online at least occasionally (63% of whom are Millennials / Gen Z) and ~30% have shopped online at least once in the past 3 months. Current online penetration largely exists through AMZN and directly through food retailer websites (often via Instacart partnerships).
Amazon leading online grocery push	AMZN dominates among online-only retailers with highest levels of awareness (66% awareness of at least one of AMZN's grocery-specific services) and purchases (25% L3M vs. 9% combined for other online-only services). AMZN also has a promising outlook (56% N6M purchase intention of online shoppers), driven by leading top-of-mind positioning with consumers.
Where does online grocery need to improve most?	Top barriers remain consumers' preference for seeing and choosing groceries, freshness, and high delivery fees. We expect online grocery to continue taking share, but at a measured pace, as brick-and-mortar consumer behavior in grocery shopping is highly ingrained in the US, in our view.
Hard Discount (led by Aldi) is traditional brick & mortar winner	Aldi experienced the greatest share gain of shoppers who switched retailers (19% vs. 15% LY), attracting younger consumers (including Millennials) looking to switch retailers for lower prices and convenience. Consumers continue to shop multiple retailers for groceries (3 on average), Walmart being the most frequented (1 in 4 shoppers).
Changes to Whole Foods perceptions post-AMZN	Whole Foods customers noticed better quality products and lower prices post-AMZN ownership, but price perception still remains higher than other specialty retailers and shopper penetration is essentially unchanged y/y (41% vs. 40% LY).

## Key Survey Takeaways (cont.)

Natural / organic secular shift shows signs of leveling off	The natural / organic segment showed signs of leveling off for the first time since 2015, with declines in penetration (natural: 56% vs. 62% LY, organic: 50% vs. 56% LY) and share of spend (natural or organic: 37% vs. 39% LY), indicating possible maturation. However, outlook remains strong for younger consumers, who tend to look for healthier grocery options. Kroger and Sprouts continue to perform well; better quality and prices noticed at Whole Foods, but price still lags and penetration unchanged y/y.
Walmart maintains its dominance	WMT, the grocery leader, holds a dominant 23% share, or 2.5x the #2 retailer. In addition to strength in B&M, WMT online adoption is gaining traction (17% of consumers have ordered groceries from Walmart.com vs. 15% LY). Interestingly, we see a high degree of overlap with WFM shoppers (67%), which could be a potential opportunity. However, the key to watch going forward is Aldi given its rapid growth, in our view.
Investment Implications	Online grocery services which can offer the most competitive prices / lowest delivery fees likely to take most share near-term. Gaining consumers' trust will be key for shifting (and capturing) total grocery wallet online. Offering the fastest delivery is unlikely to drive winners and losers, at least at first.
	In traditional Food Retail, we continue to believe there will be <u>share gainers (KR, SFM)</u> and <u>share donors (SFS)</u> . But Food Retail remains unlikely to be a winner-take-all category (only 12% of consumers do all their grocery shopping at one store).
	Kroger (KR, EW) remains best-positioned conventional food retailer with omnichannel capabilities (ClickList offering; partnerships with Instacart, Ocado, Nuro; acquisition of Home Chef) and size / scale advantages over smaller, undifferentiated competitors. Sprouts (SFM, EW) is viewed favorably in the specialty channel, while Smart & Final (SFS, UW) lags and continues to cede share.
	Remain cautious on Food Retail subsector overall as margin pressure unlikely to change and as food retailers aggressively invest in price to challenge Hard Discount / WMT / WFM threats and allocate capital towards eCom / delivery investments.

Morgan Stanley

# **Online Grocery Trends**

### 31% of consumers have ordered groceries online at least once in the past 3 months

Additionally, more consumers use online-only platforms (25%) than traditional retailer sites (22%) when ordering groceries online, indicating strong uptake of online services (primarily Amazon's various grocery services).



Consumers Purchased Groceries Online (P3M)

### ~20% of consumers grocery shop online occasionally / regularly, skewed towards Gen Z / Millennials

72% of regular and 59% of occasional online grocery shoppers are Millennials or Gen Z, indicating willingness to use online grocery shopping repeatedly among younger consumers is relatively high.

5% 10% 15% 20% 25% 0% 6% 8% I regularly grocery shop online 11% Total 4% Gen Z Millennials 3% Gen X Baby Boomers 15% 16% I occasionally grocery shop online 22% 15% 10%

Experience Towards Grocery Shopping Online

### Consumers continue to order groceries online primarily for convenience

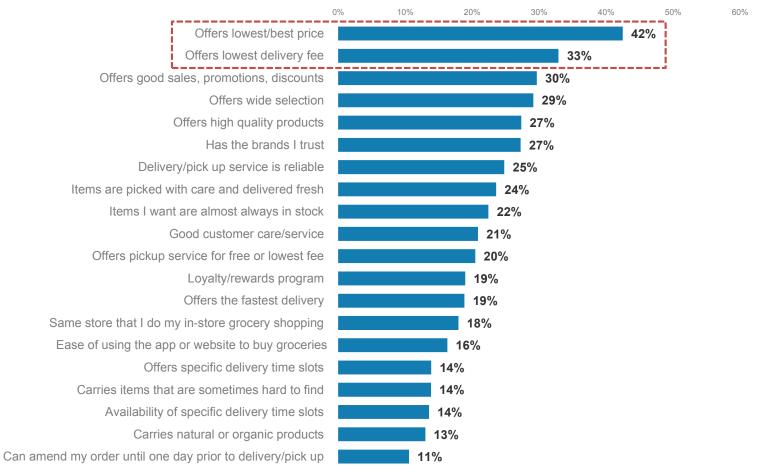
Additional drivers include interest in trying out online ordering and ability to compare prices (similar to prior years).

0% 10% 20% 30% 40% 50% 60% 70% 80% 56% Convenient to shop for groceries 63% 52% 51% Would like to try and see if that's 49% something I like to do 45% 48% I can easily compare prices online 45% 42% 41% Products are delivered fresh 33% 33% 39% Wide selection of products is 38% available 39% 39% Availability of natural and organic 2016 29% products 27% 2017 35% Products are cheaper online than in 29% 2018 a physical store 31% 27% Other people recommended I try it 21% 21%

Reasons for Ordering Groceries Online to be Shipped

### Most important factors in choosing an online grocery service: price tops the list

Consumers consider competitive prices (products and delivery fees), wide selection, and product quality to be the most important factors in choosing an online grocery store.

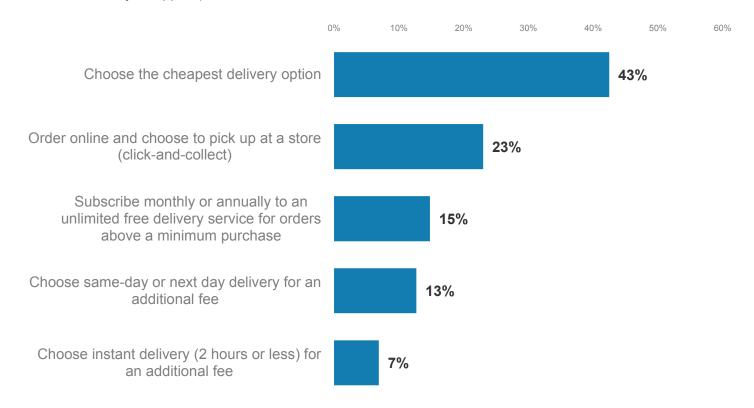


Important Factors For Online Grocery Shopping

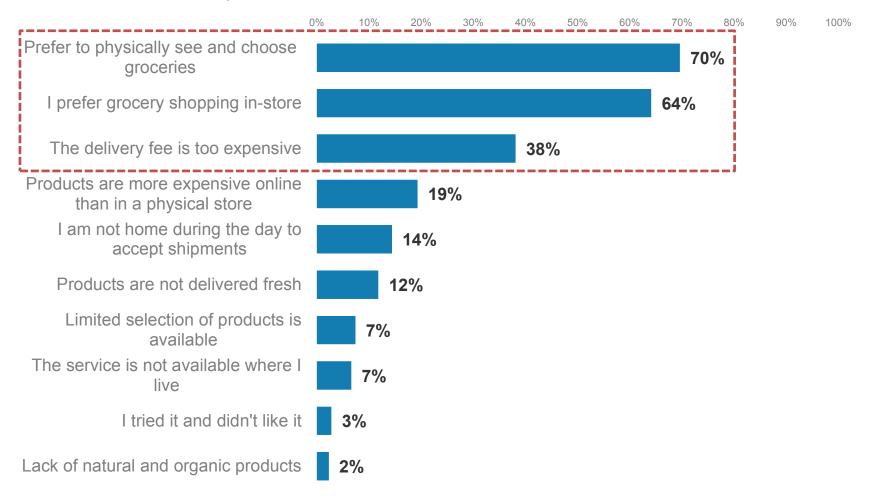
### Furthermore, 43% of online grocery shoppers will choose the cheapest delivery option when ordering

Therefore, we think the first 'winners' in online grocery are more likely to be those which can offer the cheapest / free delivery, not necessarily who can offer the fastest delivery.

Delivery Preference When Shopping Main Grocery Online (Among Regular/Occasional Online Grocery Shoppers)



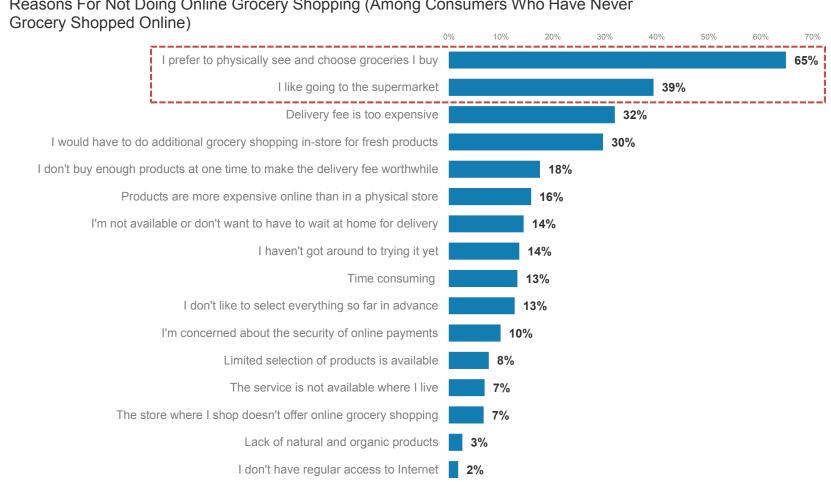
### Overarching barriers to online grocery shopping: picking out goods in-store and delivery fee



Reasons for NOT Ordering Groceries Online to be Shipped

### Key barrier for those who have never tried online grocery: physically seeing / choosing groceries

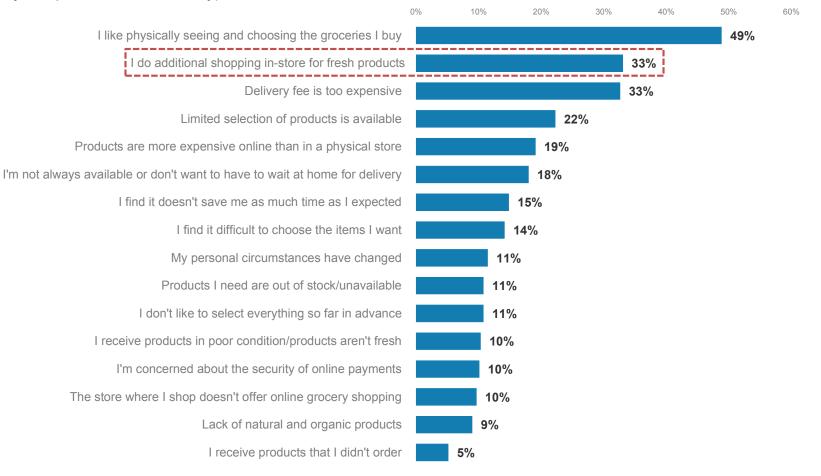
Results indicate a somewhat unique, ingrained desire amongst US consumers to shop for groceries in-store. We continue to believe it will take time for even improved online grocery services to dramatically change shopping behaviors.



Reasons For Not Doing Online Grocery Shopping (Among Consumers Who Have Never

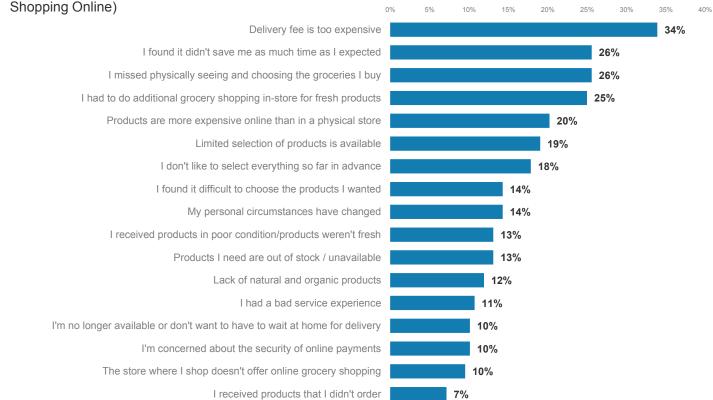
### Key barrier for those who only shop online occasionally: still shopping in-store for fresh products

Reasons For Not Doing Online Grocery Shopping Regularly (Among Consumers Who Grocery Shop Online Occasionally)



### Key barriers for those who stopped shopping online: price, saving time, preferring in-store shopping

Expensive delivery fees, not saving as much time as expected, wanting the experience of choosing groceries in-person, and still needing to do more grocery shopping in-store were key reasons why shoppers stopped online grocery shopping. Longer-term, we do not believe \$5-10 per order delivery fees are sustainable – we note AMZN has already rolled out free 2-hour grocery delivery through Prime Now in certain locations.



Reasons For Stopping Online Grocery Shopping (Among Consumers Who Stopped Grocery

### Categories most likely to be ordered online: skewed towards non-perishables

Consumers are more likely to order nonperishable food categories online to be shipped, while perishables like fruits / vegetables, dairy products (milk, cheese, ice cream), and fish / seafood are more likely to be ordered online for pick up. Pick-up-at-store is more evenly spread across perishable and non-perishable categories.

Medium-term, we continue to believe pick-up at-store will have greater overall uptake than delivery given convenience of online ordering without added delivery costs.

Categories Most Likely to be Ordered Online (Among Consumers Likely to Order Groceries Online in Next 6 Months)



#### Likelihood to order groceries online in next 6 months similar to past 2 years, but resistance increased

30%

20%

10%

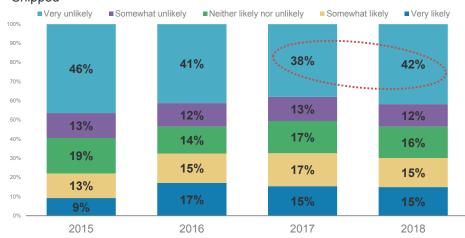
0%

19%

12%

2015

'Very unlikely'-to-'very likely' skew of 3:1 still down dramatically from 6:1 three years ago, while 'very likely' online grocery customers were unchanged y/y.



## Likelihood to Order Groceries Online in Next 6 Months to be Shipped

Picked Up Very unlikely Somewhat unlikely Neither likely nor unlikely Somewhat likely Very likely 100% 90% 36% 80% 41% 42% 48% 70% 60% 13% 13% 13% 50% 14% 17% 40% 16% 16%

19%

14%

2017

Likelihood to Order Groceries Online in Next 6 Months to be

15%

15%

2016

16%

14%

2018

### More consumers likely to increase online grocery shopping (11%) than decrease online shopping (4%)

Results imply grocery penetration should continue to increase over the next year. However, we note ~85% of consumers are still unlikely to change their online grocery shopping frequency / behavior in the next 6 months.



Online Grocery Shopping in Next 6 Months

### Willingness to pay for various online grocery options

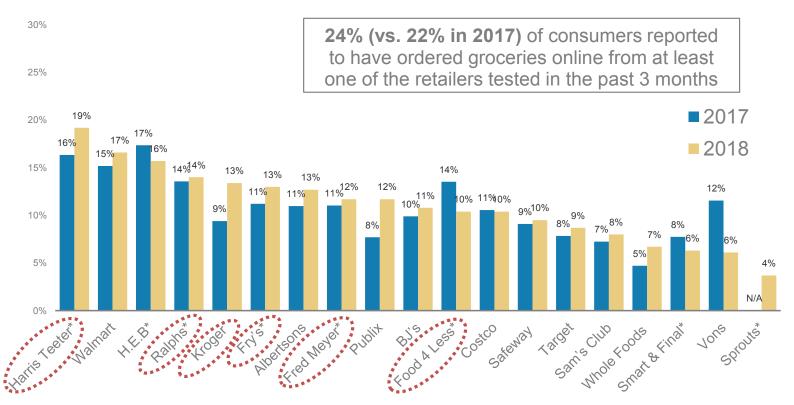
Willingness To Pay A Flat Fee For Delivery When Doing Grocery Shopping Online (in \$)



### Online grocery ordering directly from retailer websites rose y/y, led by Kroger banners (highlighted)

Kroger and Walmart lead amongst store-only websites. Smart & Final remained below average, as did Whole Foods despite +2% penetration y/y. Sprouts rose to 4% after partnering with Instacart at the beginning of 2018. Average across retailers was 11% (+1% y/y), which we continue to view as relatively low.

Ordered Groceries Online Directly on Retailer's Website in Past 3 Months (Among Consumers who Live in Vicinity of Retailer)



Morgan Stanley

# **AMZN and Online Grocery**

### AMZN rates a clear #1 among online-only grocers on awareness and purchase frequency...

AMZN's main site and its grocery-related services rate highest on awareness, including 66% awareness of at least one of AMZN's specific grocery services.

20%

30% 40%

27%

20%

20%

17%

12%

8%

31%

50%

44%

42%

42%

60% 70%

~25% of consumers have ordered groceries from one of AMZN's sites in the past 3 months, while incidence of ordering via non-AMZN websites is comparatively low (~9% combined).



#### Awareness of Online Only Grocery Retailers (2018)

Amazon.com

Peapod.com

Instacart.com

Boxed.com

Shipt.com

Freshdirect.com

Postmates.com

None of the above

Amazon.com/Fresh

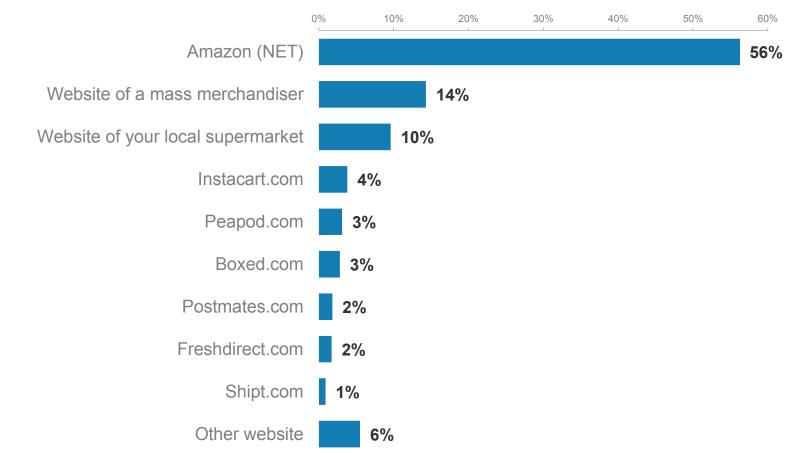
Amazon.com/PrimePantry

Amazon.com/Subscribe&Save

Amazon.com/PrimeNow

### ...And AMZN sites likely to continue benefiting from being top of mind for consumers ordering online

Most Likely to Order Groceries Next 6 Months (Among Consumers Likely to Order Online)

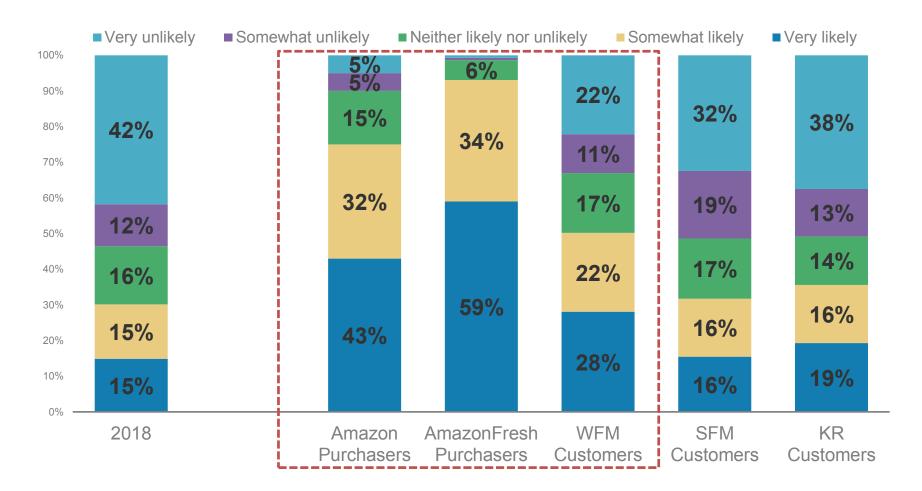


Source: AlphaWise, Morgan Stanley Research

**Note:** AMZN (NET) includes Amazon.com, Prime Pantry, AmazonFresh, Prime Now, and Subscribe & Save **Note:** Question was single punch (respondents asked to select only one option)

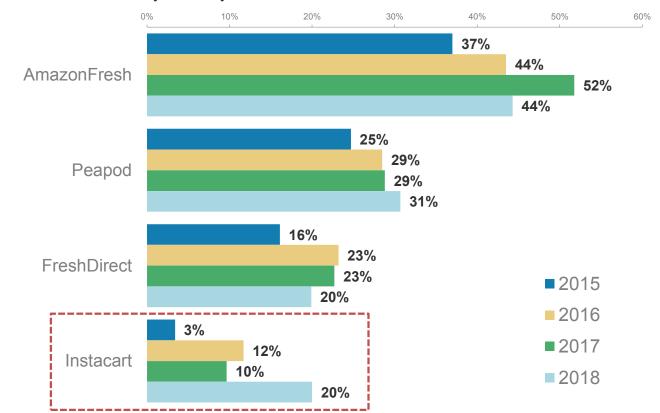
### Furthermore, likelihood of AMZN / WFM shoppers to order online higher than overall average / peers

Likelihood to Order Groceries Online in Next 6 Months to be Shipped



### Instacart awareness doubled, while AmazonFresh fell (possibly due to AMZN emphasizing Prime Now)

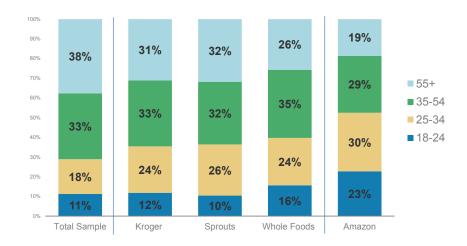
We note post-AMZN/WFM, Instacart expanded existing partnerships with Costco and CVS and began partnerships with Kroger, Albertsons, and Sam's Club; now partners with the top 8 grocers in the US. We also note WMT is the most shopped retailer on Instacart.



Awareness of Online Only Grocery Retailers

Age Mix of Past 3-Month Shoppers

### AMZN shoppers skew younger, but have only slightly higher incomes than the general population



#### Income Mix of Past 3-Month Shoppers

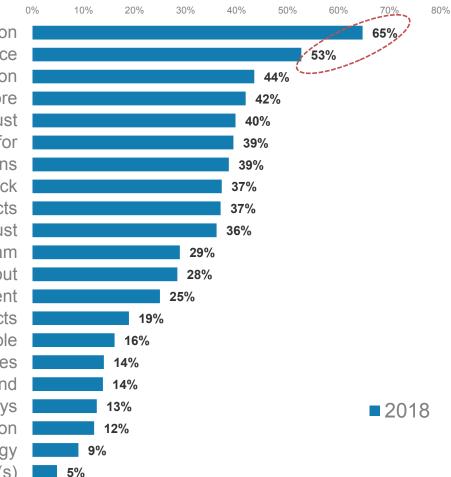


Morgan Stanley

# **In-Store Grocery Trends**

### Top 2 drivers of grocery shopping remain convenient location and low prices

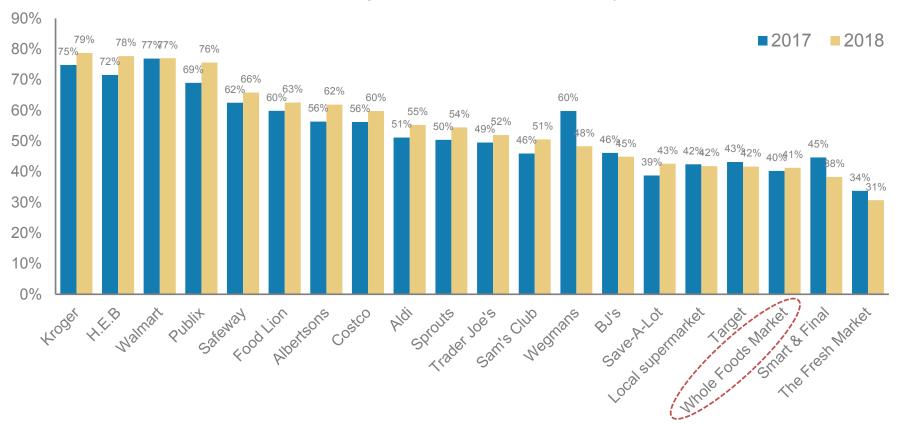
Drivers of Grocery Shopping 0% **Convenient** location Lowest/best price Wide selection Overall ease of shopping at that store It is a retailer I trust Easy to find the items I want to shop for Has good weekly specials/promotions Items I want are almost always in stock High quality products Has the brands I trust Loyalty/rewards program Quick checkout Good store environment Carries natural or organic products Helpful/knowledgeable sales people Crowd-free aisles Carries items that are hard to find Attractive food displays Has prepared/grab and go food section Innovative store technology In-store dining/restaurant(s)



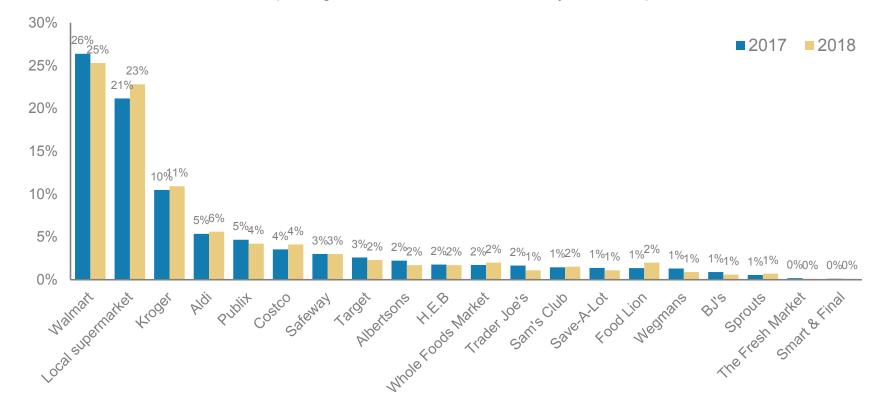
### Kroger, HEB, and Walmart have greatest share of shoppers (who live in vicinity of a store)

We note UW-rated Smart & Final (SFS) had the second-biggest drop y/y, from 45% in 2017 to 38% in 2018. We also view Walmart's high share as impressive considering it is typically not the local supermarket.

Purchased Groceries in Past 3 Months (Among Consumers Who Live in Vicinity of Retailer)



### Walmart maintains position as most-frequented retailer (25%), ahead of Kroger (11%) and Aldi (6%)

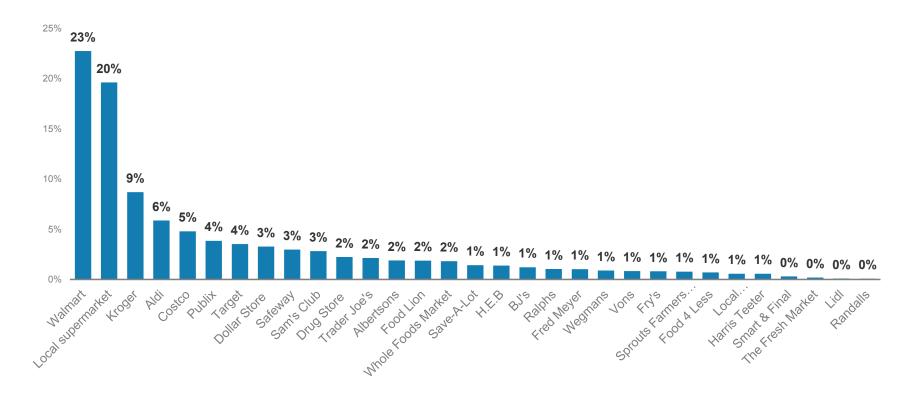


Most Often Purchased Groceries (Among Consumers Who Live in Vicinity of Retailer)

### Walmart has a dominant 23% share of grocery spend

Walmart's share is 2.5x the next national retailer (Kroger).

Total Grocery Spending by Stores in Past 3 Months

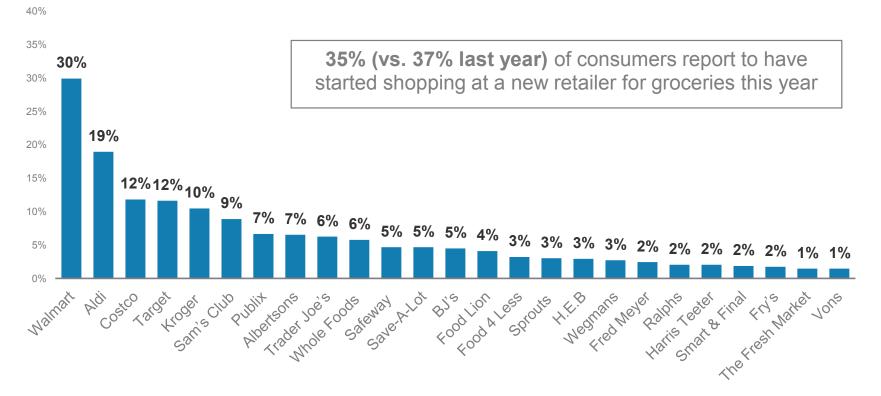


### Consumers continue to shop at 3 stores for groceries (on average), consistent with past few years

#### Number of Stores Shopped for Groceries in Past 3 Months Among **Primary Shoppers** On average consumers shop at 3 100% stores for groceries 6% 7% 8% 7% 90% 8% 7% 6+ - Shopped at six or more different stores 80% 15% 17% 17% 70% ■ 5 - Shopped at five different stores 60% 29% 31% 30% 4 - Shopped at four different stores 50% 40% ■ 3 - Shopped at three different stores 30% 28% 26% 26% 2 - Shopped at two different stores 20% 10% 1 - Shopped at one single store 14% 11% 12% 0% 2016 2017 2018

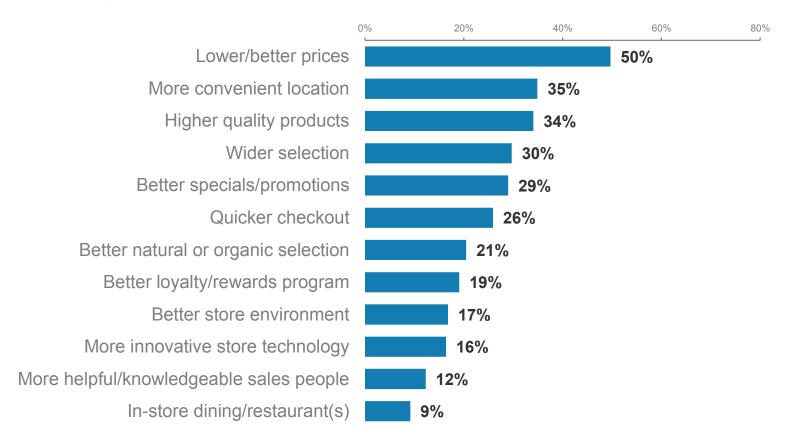
### 35% of consumers have started shopping at a new retailer for groceries this year...

New Retailers Shopped for Groceries in 2018 (Among Consumers Who Have Started Shopping at New Retailer)

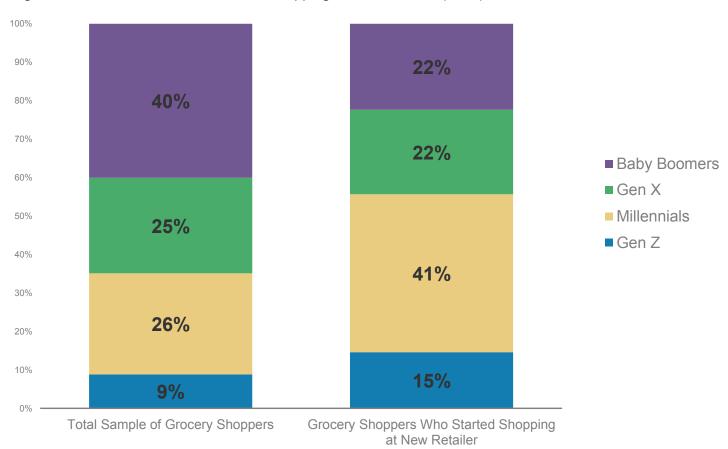


### ...Motivated primarily by price, as well as convenience and higher quality products

Reasons for Shopping at New Retailers for Groceries in 2018 (Among Consumers Who Started Shopping New Retailer)



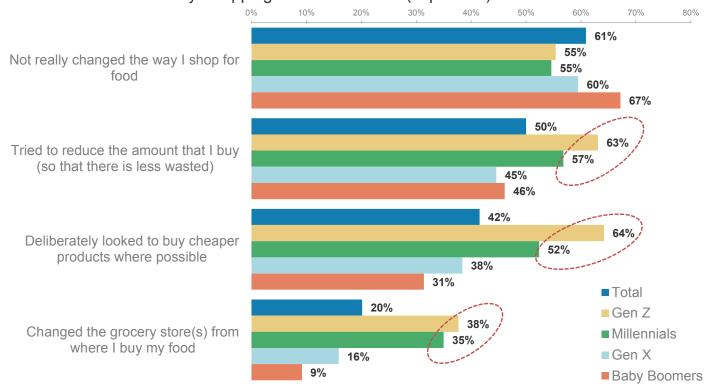
### Shoppers who switched retailers over-index to Millennials / Gen Z, under-index to Baby Boomers...



Age of Consumers Who Have Started Shopping at New Retailer (2018)

### ...And younger consumers are more prone to changing retailers and how they shop for groceries

Millennials and Gen Z tend to skew higher on reducing the amount of groceries they purchase, buying cheaper / promotional items, and changing retailers.



Attitude Towards Grocery Shopping in Past 3 Months (Top 2 Box)

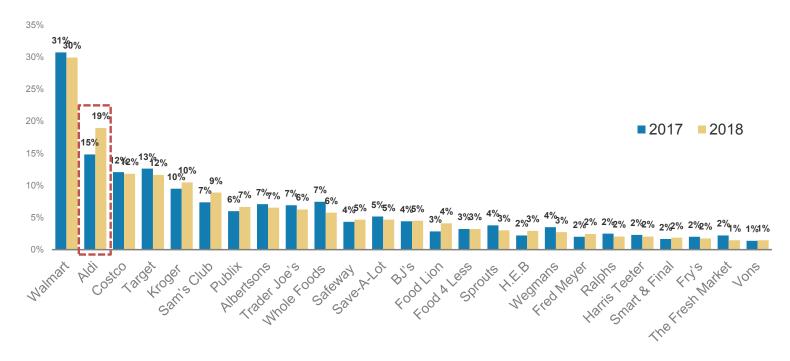
### Hard Discounter Aldi saw biggest share gain of shoppers who switched retailers

Drawn to lower prices, 19% of consumers shopping at new retailers started purchasing at Aldi, up 4% from 2017 and second only to Walmart at 30% (down 1% from 2017).

Longer-term, we expect emerging Hard Discount threats (ie Aldi, Lidl) to continue to gain share and pressure margins within Food Retail as dollars gravitate toward value segments. Hard Discount market share in the US is likely ~2-3% currently, but we see a pathway for share to double over the next decade.

We note Walmart remains the dominant share gainer, but the rate of gain is slowing.

New Retailers Shopped for Groceries (Among Consumers Who Have Started Shopping at New Retailer)



### 26% of WMT shoppers also shop at Aldi, a potential risk factor if Aldi continues to gain wallet share

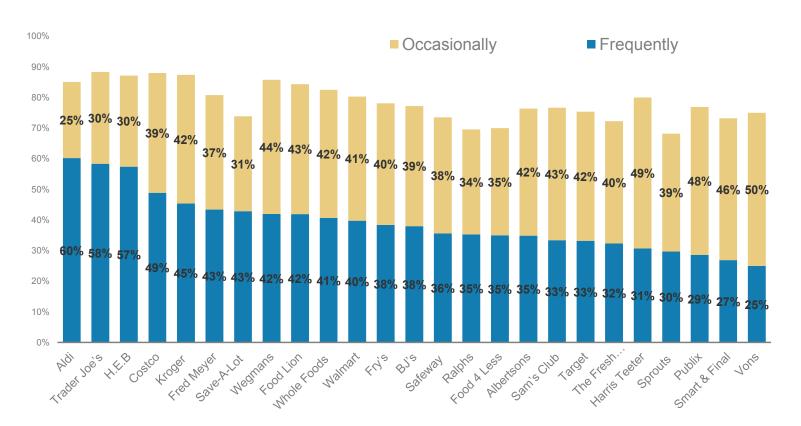
Additionally, we note only 11% of WMT shoppers are also WFM shoppers, which indicates that AMZN grocery gains are not likely coming from WMT.

30% % WMT P3M Shopper 26% 25% 25% 23% 19% 19% 20% 15% 13% 11% 11% 10% 9% 10% 8% 7% 6% 5% 4% 4% 5% 3% 3% 3% 2% 2% 2% 2% 2% 0% Tatlet Ktolet Costoo Cub Publit Loe's NFM energy Aldt sons of the pool of Bus Sprouts H.F.B Never Frist Feet Market Less Ralph's Final Jon's Sprouts Fred Never Frist Feet Narket Less Ralph's Final Jon's Fred Never Frist Feet Food Aless Ralph's Final Jon's Fred Never Frist Feet Food Aless Ralph's Final Jon's Fred Never Frist Feet Food Aless Ralph's Final Jon's Fred Never Frist Feet Food Aless Ralph's Final Jon's Fred Never Frist Food Aless Ralph's Final Jon's Fred Never Frist Food Aless Ralph's Final Jon's Fred Never Frist Feet Food Aless Ralph's Final Jon's Frist Ralph's Final Jon's Frist Ralph's Frist Food Aless Ralph's Frist Food Aless Ralph's Frist Aldi

Retailer Shopper Profile: Overlap of WMT Past 3 Month Shoppers

#### Private label spend is high across retailers

Walmart private label penetration is solid and ahead of competitors such as Target. Private label-heavy retailers Aldi and Trader Joe's have the highest penetration overall.



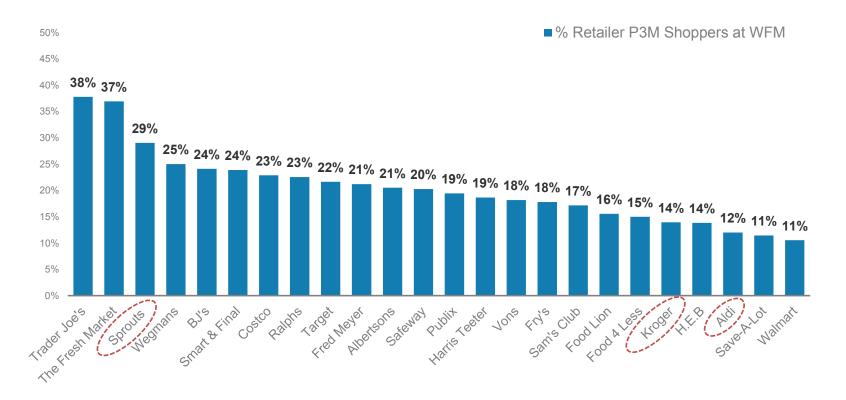
Purchase Retailer's Store Brand/Private Label Products (Among Retailer Customers)

Morgan Stanley

# Whole Foods Post-AMZN

### Whole Foods has greatest shopper overlap with Trader Joe's, The Fresh Market, and Sprouts

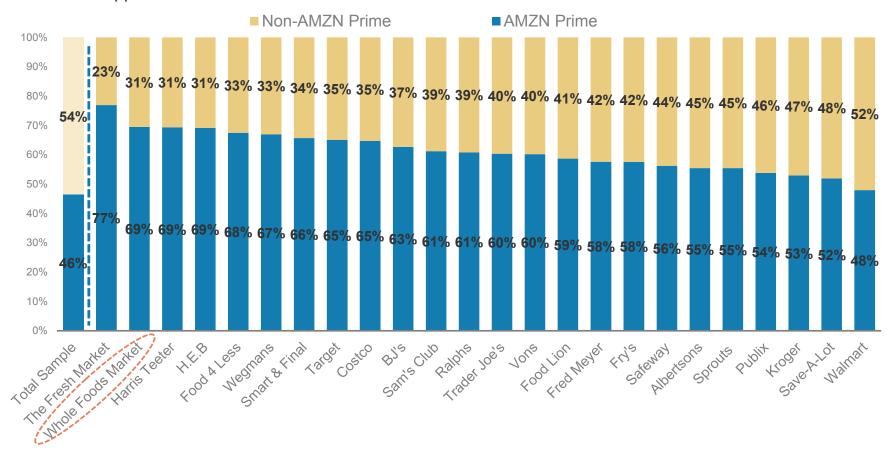
38% of Trader Joe's shoppers, 37% of The Fresh Market shoppers, and 29% of Sprouts shoppers also shop at Whole Foods. We note Kroger's namesake banner (14%) and Aldi (12%) have significantly less shopper overlap. Interestingly, the number of Whole Foods shoppers who also shop at Walmart increased from 59% LY to 67% this year. This could suggest Walmart is having increasing success in attracting higher-end customers.



Retailer Shopper Profile: Overlap of Retailer Past 3 Month Shoppers at WFM

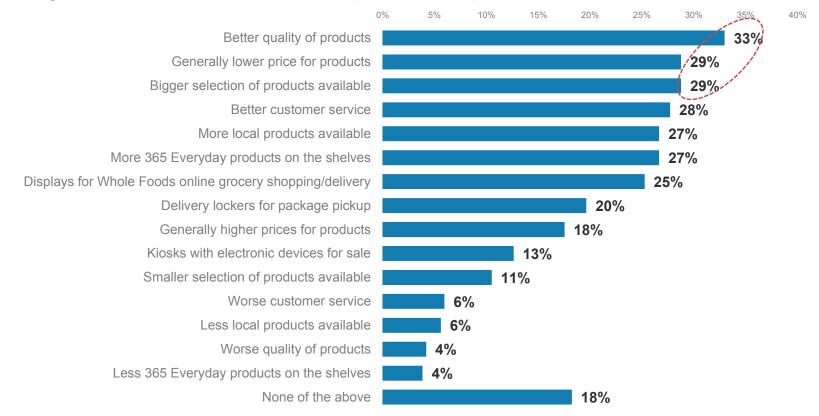
### 69% of Whole Foods shoppers are Prime members, +7% y/y; WMT has lowest Prime overlap

WMT has the lowest overlap with Prime members and grew only +2% y/y, below +5% y/y average for all retailers. A low overlap highlights WMT's potential moat relative to its low end competitors, which are more exposed to the AMZN threat.



Retailer Shopper Profile: AMZN Prime Members

# Top changes observed at Whole Foods: better quality of products, lower prices, and bigger selection

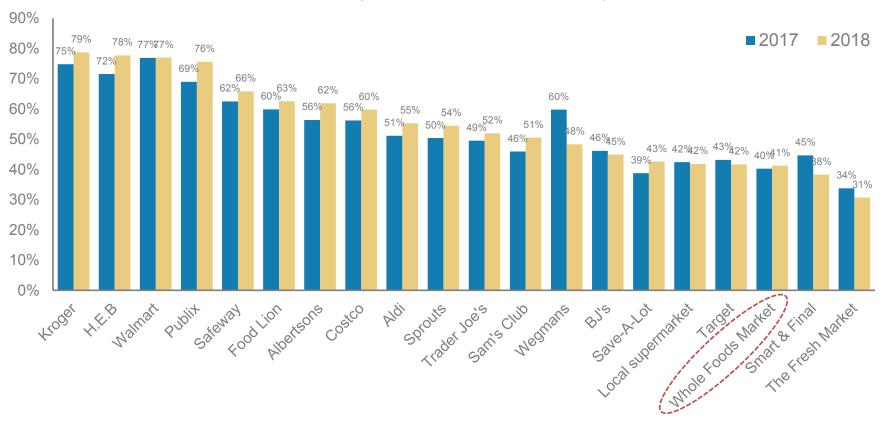


### Changes Observed at Whole Foods Market (Past 6 Months)

## High prices remains main barrier from shopping at Whole Foods (66%), but 3% less than last year

Barriers of Shopping at Whole Foods Market Among shoppers who live in vicinity but have not shopped at a location in the past 3 months 0% 10% 20% 40% 50% 60% 70% 80% 30% 70% Lower prices elsewhere 69% 66% **49%** More convenient to shop elsewhere 52% 50% 14% Don't carry products I buy 11% 18% 17% Better selection elsewhere 15% 16% 14% Doesn't provide one-stop shopping 13% 12% 10% No membership/rewards program 7% 9% ■ 2016 8% Long lines at checkout 8% 8% 2017 7% Better quality products elsewhere 6% 7% 2018 9% Better brands elsewhere 6% 6% 3% Items I want are out of stock 3% 3%

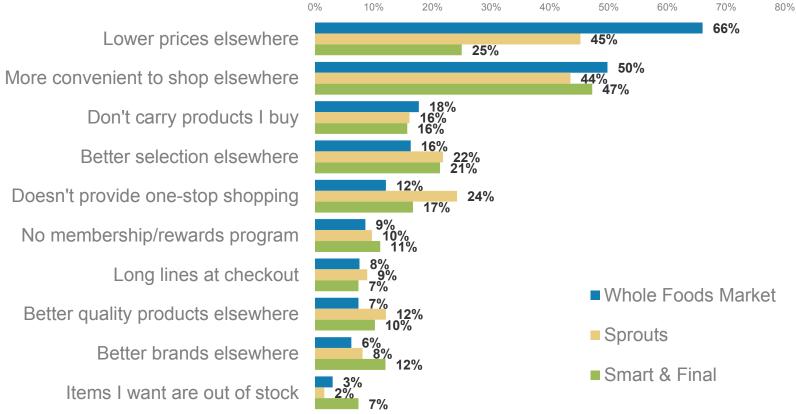
### Perceived changes to Whole Foods have yet to affect shopper penetration (41% vs. 40% last year)



#### Purchased Groceries in Past 3 Months (Among Consumers Who Live in Vicinity of Retailer)

### Consumers still view Whole Foods pricing as an incrementally larger barrier vs. other specialty retailers

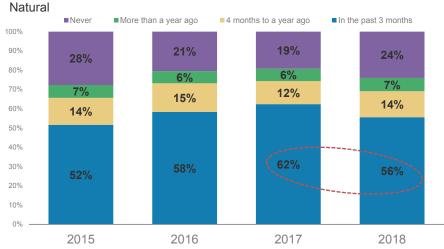
# Barriers of Shopping at Retailer Among shoppers who live in vicinity but have not shopped at a location in the past 3 months



Morgan Stanley

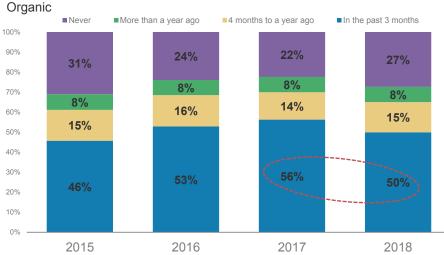
# **Natural / Organic Trends**

## P3M purchasing of natural / organic products decreased for the first time since 2015



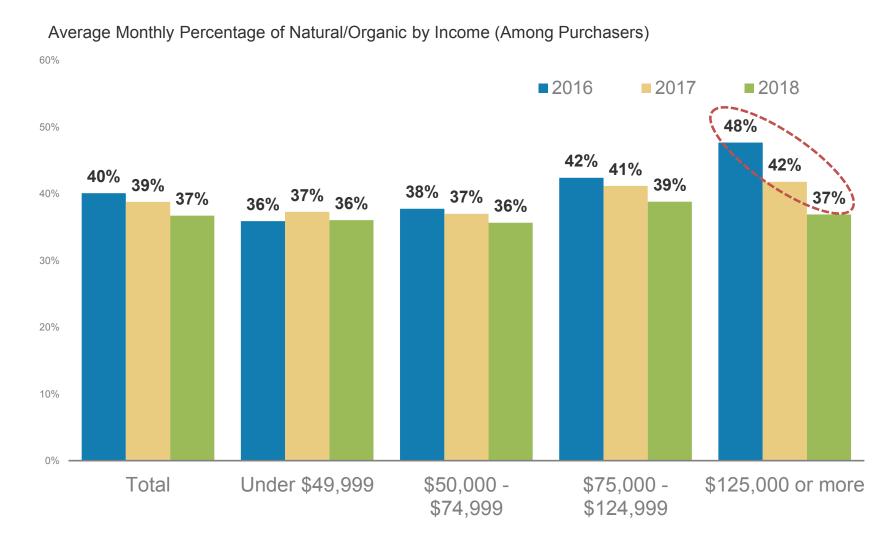
## Purchased Food/Beverage Products Labeled/Certified as

Purchased Food/Beverage Products Labeled/Certified as

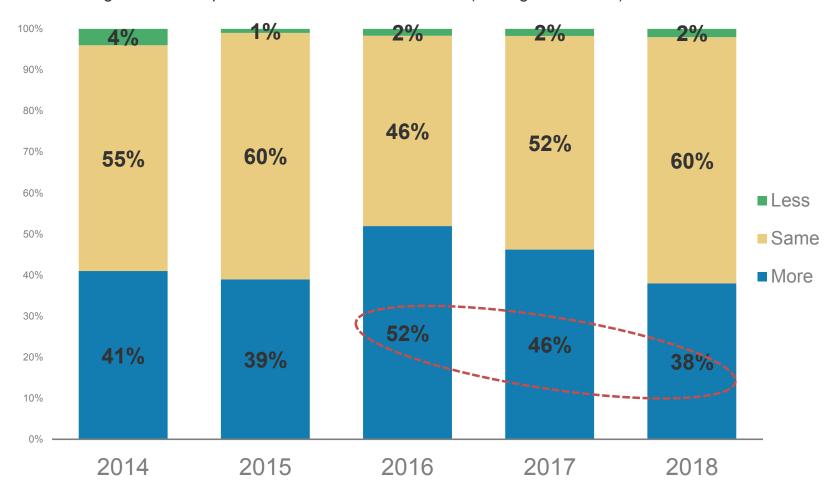


# Morgan Stanley

### Natural / organic share of groceries also decreased, driven by higher income households



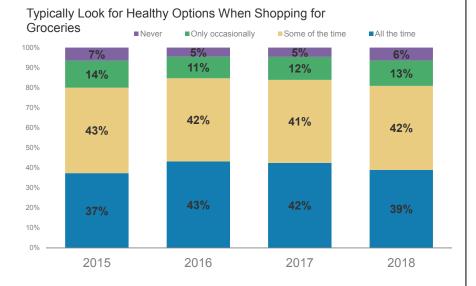
## Fewer nat / org purchasers plan on increasing their consumption, indicating possible maturation



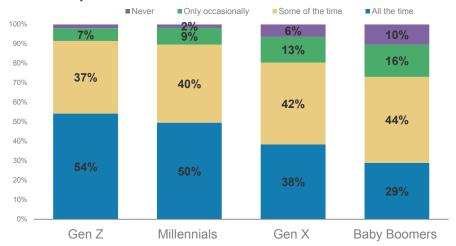
Natural/Organic Consumption Trends One Year From Now (Among Purchasers)

# Morgan Stanley

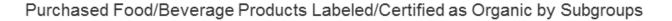
# Majority of consumers (especially Gen Z / Millennials) still continue to seek healthy grocery options...

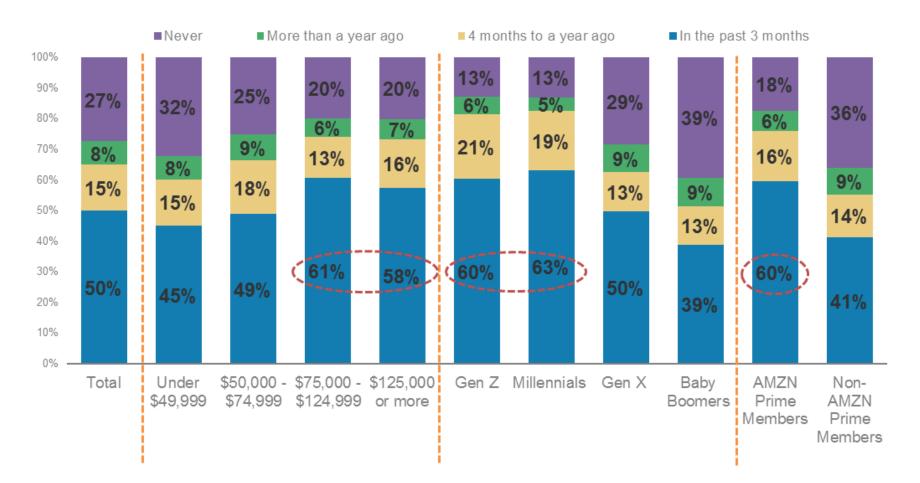


# Typically Look for Healthy Options When Shopping for Groceries by Generation



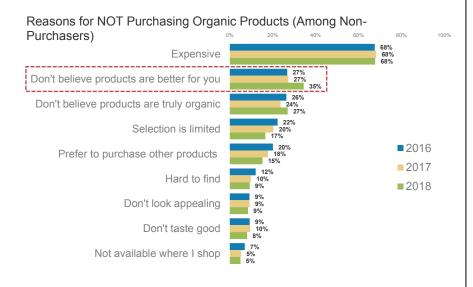
## ...And purchasing continues to skew towards younger and higher income consumers



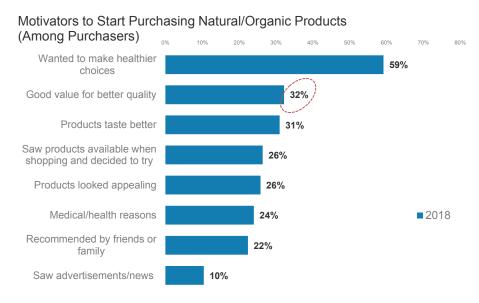


## Price still key barrier for consumers to try nat / org, but once switch is made price is less important

More non-purchasers cited not believing organic products are better for you as a reason for not purchasing organic products (35% vs. 27% LY). Cost still remains the primary barrier...

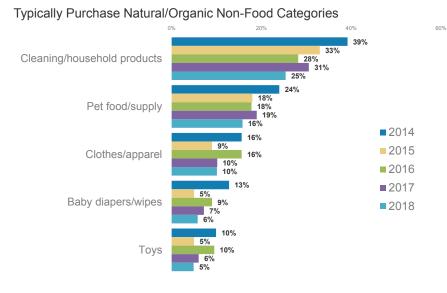


...However, good value for better quality becomes a key motivator once consumers start purchasing natural / organic products



### Organic purchases remain concentrated in 'fresh' categories, while non-food uptake remains low





### Nat / org attribute perceptions by retailer; 'checkmark' if retailer ranks in at least 75<sup>th</sup> percentile

Key takeaways:

- Kroger (KR) ranks highly in the most areas, followed by Publix, Trader Joe's, and The Fresh Market
- Sprouts (SFM) and Whole Foods slightly lost ground y/y, each losing one attribute in the 75<sup>th</sup> percentile
- SFM still ranks highly on price, quality, and selection
- Whole Foods ranks highly only on quality and selection, but price perception continues to lag
- Smart & Final (SFS) continues to lag with no attributes in the 75<sup>th</sup> percentile, same as last year
- Walmart (WMT) has no attributes in the 75<sup>th</sup> percentile and saw perception for metrics such as location decline y/y

2018 Retailer			Specialty				Warehouse /	Mass Merch		Superr	narkets	Hard Dis	scount
Perceptions for Natural/Organic	Whole Foods Market	The Fresh Market	Sprouts Farmers Market	Smart & Final	Trader Joe's	BJ's	Costco	Target	Walmart	Kroger	Publix	Save-A-Lot	Aldi
Location										√	√		
Lowest price		✓	✓		$\checkmark$					$\checkmark$			$\checkmark$
High quality	✓	$\checkmark$	$\checkmark$		$\checkmark$								
Retailer I trust		$\checkmark$			$\checkmark$					$\checkmark$	✓		
Wide selection	✓	✓	✓		$\checkmark$								
Brands I trust	$\checkmark$				$\checkmark$		$\checkmark$			$\checkmark$	✓		
Weekly specials			$\checkmark$							$\checkmark$	✓		
Items are in stock		$\checkmark$								$\checkmark$	✓		
Overall ease					$\checkmark$					$\checkmark$	✓		
Easy to find items			$\checkmark$		$\checkmark$					$\checkmark$	$\checkmark$		
Loyalty/rewards										✓			
Store environment	✓	$\checkmark$						$\checkmark$		✓	✓		

✓ indicates above 75th percentile perceptions rating among retailers listed

# More On AlphaWise

AlphaWise Reports & Interactives

AlphaWise conducts proprietary evidence-based investment research. For further information, please contact alphawise@morganstanley.com.



Recent Morgan Stanley Research Based on AlphaWise Evidence

Retall	John Glass	June 28, 2018
	We recently downgraded SBUX to EW, based in part on the results of our Alj explore the results of our survey in greater detail.	phaWise survey of over 2,000 US
Software	Adam Wood	June 27, 2018
	Our AlphaWise survey of SAP re-sellers suggests a deceleration of spending akes cost as the biggest barrier to adoption. Risk from SaaS players in CRM	
	Simeon Gutman; Kimberly C Greenberger;	
Retall	Brian Nowak	June 26, 2018
	, WMT, AMZN, HD, and BBBY Takeaways: WMT and AMZN most frequently ass effective; pricing weaker than W/AMZN. Home furnishings spend backd ivs. consensus of 0%.	
Software	Keith Weiss; Sanjit K Singh	June 20, 2018
	Climb if Billings Growth Slows?: Expectations for 15% billings growth look: fter results from our AlphaWise reseller survey, lower durations and a smal shares tough to own at ~30x CY19 FCF.	
Software	Kelth Welss; Stan Zlotsky	June 14, 2018
	umbers Work?: Customer survey results trended positively for Fusion Appl longer-term drags on the database business remain, we think stronger nee	
India Industrial 🔚	Girish Achhipalla	June 13, 2018
	ile public capex momentum continues, our work suggests that a recovery i ex and, given the low visibility, are not pricing in a recovery in private capex	

Source: AlphaWise

# Valuation Methodology and Risks

**TGT:** Our price target is derived using a historic and relative EBITDA & P/E multiple approach. Our \$64 price target represents ~12x our 2019 EPS of ~\$5.40 or a 7x EBITDA multiple. A 12x P/E multiple is approximately two turns below the two-year average given a subdued earnings outlook. Risks to achieving our Price Target include: 1. Traffic reverses into negative territory; 2. Sales mix shifts to e-commerce channel pressures gross margin; 3. A sustained pickup in comps leads to further multiple expansion.

WMT: Our price target is derived using a historical and relative EBITDA & P/E multiple approach. Our \$93 price target represents ~10x our F'20e EBITDA of \$31.7 billion and ~20x our F'20e EPS of \$4.60. Risks to achieving our Price Target include: 1. Lower end consumer strengthens to drive 2%+ comps. 2. Flow-through, on 2% comps, improves despite increased investments. 3. Omni-channel investment curve may be deeper than expected.

**KR**: Price target of \$28 is equal to Base Case value, reflecting a DCF valuation with a 7% cost of capital, 1.0% terminal growth rate, and 2.3% terminal EBIT margins. Price target implies 12x 2019e EPS, 2x below KR's 5-year average of 14x (range 10-20x), warranted given industry pressures that likely drive EPS growth below historical averages. Downside risks include high level of competition for conventional supermarkets, potential difficulties managing through inflationary / deflationary periods, potential for increasing competition (including from eCommerce operators) to pressure margins. Upside risks include continued share gains from other conventional operators, increased scale as KR benefits from industry consolidation, a return to inflation improves operating performance.

**SFM:** Price target of \$24 equal to Base Case value. Our target is based on our long-term DCF valuation, with a WACC of 9.4% and terminal growth rate of 2.0%. Our DCF includes 900 nationwide locations long-term and 3.7% terminal EBIT margins. PT implies 19x 2019e EPS. Downside risks include potential difficulties finding new locations for productive expansion, impact from swings in inflation / deflation, margin pressures from industry competition (including discounters and eCommerce). Upside risks include widespread middle class nat/org adoption, geographic expansion faster than anticipated, favorable produce pricing environment, potential strategic value.

**SFS:** Price target of \$4.50 implies 11x 2019e EPS. PT derived using a long-term DCF valuation with a beta of 1.2, a 7.5% cost of capital, and a 2.0% terminal growth rate. Implied multiple on the lower end of SFS' post IPO range (9-27x) given industry pressures driving near-flat forecast earnings growth. Downside risks include difficulties executing on unit growth plans, including facing cannibalization, increased competition (including discounters and online) pressuring margins, effects of inflation / deflation and macro environment, particularly in California. Upside risks include faster than expected new market expansion, increased consumer shift to value offerings, and uptake in new product categories, and better than expected margins in new stores.

**AMZN:** Our \$1,850 PT is derived using a sum-of-the-parts methodology where we value the N. America and International retail businesses based on long-term CSOI margins (as % of GMV) and the AWS business is based on 7.5x EV/Rev. Our valuation is supported by a 10-year DCF. Risks to our price target include: Weakness in core market retail sales could hurt growth, slower than expected Prime membership growth or Prime gross profit contribution, which could be caused by a: 1) weaker macro environment, 2) increased competition from other eCommerce or offline retail platforms, or 3) failure of Prime investments (shipping speed, selection, streaming content, etc.) to drive subscriber growth/higher spend per subscriber, inability to grow Prime US subscriber base outside of households that earn \$75k+ in annual income, larger than expected investments in brick & mortar retail locations (Amazon Go stores, book stores, grocery pickup points, etc), in digital content (movies, TV shows, originals, etc), and/or in new markets, price wars with laaS competitors may lead Amazon to cut AWS prices further while incremental AWS investment offsets cuts elsewhere.

# **Disclosure Section**

The information and opinions in Morgan Stanley Research were prepared by Morgan Stanley & Co. LLC, and/or Morgan Stanley C.T.V.M. S.A., and/or Morgan Stanley Mexico, Casa de Bolsa, S.A. de C.V., and/or Morgan Stanley Canada Limited. As used in this disclosure section, "Morgan Stanley" includes Morgan Stanley & Co. LLC, Morgan Stanley C.T.V.M. S.A., Morgan Stanley Mexico, Casa de Bolsa, S.A. de C.V., Morgan Stanley Canada Limited and their affiliates as necessary.

For important disclosures, stock price charts and equity rating histories regarding companies that are the subject of this report, please see the Morgan Stanley Research Disclosure Website at www.morganstanley.com/researchdisclosures, or contact your investment representative or Morgan Stanley Research at 1585 Broadway, (Attention: Research Management), New York, NY, 10036 USA.

For valuation methodology and risks associated with any recommendation, rating or price target referenced in this research report, please contact the Client Support Team as follows: US/Canada +1 800 303-2495; Hong Kong +852 2848-5999; Latin America +1 718 754-5444 (U.S.); London +44 (0)20-7425-8169; Singapore +65 6834-6860; Sydney +61 (0)2-9770-1505; Tokyo +81 (0)3-6836-9000. Alternatively you may contact your investment representative or Morgan Stanley Research at 1585 Broadway, (Attention: Research Management), New York, NY 10036 USA.

#### **Analyst Certification**

The following analysts hereby certify that their views about the companies and their securities discussed in this report are accurately expressed and that they have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report: Vincent J Sinisi.

Unless otherwise stated, the individuals listed on the cover page of this report are research analysts.

#### **Global Research Conflict Management Policy**

Morgan Stanley Research has been published in accordance with our conflict management policy, which is available at www.morganstanley.com/institutional/research/conflictpolicies.

#### Important US Regulatory Disclosures on Subject Companies

As of June 29, 2018, Morgan Stanley beneficially owned 1% or more of a class of common equity securities of the following companies covered in Morgan Stanley Research: Activision Blizzard Inc, Alphabet Inc., Amazon.com Inc, Big Lots Inc, Booking Holdings Inc, Costco Wholesale Corp, Criteo SA, Despegar.com Corp, Dick's Sporting Goods, Etsy Inc, Facebook Inc, GNC Holdings Inc, Groupon, Inc., GrubHub Inc., Home Depot Inc, Kroger Co., Lowe's Companies Inc, Party City Holdco Inc, Snap Inc., Supervalu Inc, Take-Two Interactive Software, Target Corp, Tractor Supply Co, Twitter Inc, Yelp Inc, Zillow Group Inc, Zynga Inc.

Within the last 12 months, Morgan Stanley managed or co-managed a public offering (or 144A offering) of securities of At Home Group Inc, BJ'S Wholesale Club, Booking Holdings Inc, Despegar.com Corp, Etsy Inc, Home Depot Inc, Party City Holdco Inc, Twitter Inc, US Foods Holding Corp., Valvoline Inc., Wal-Mart Stores Inc.

Within the last 12 months, Morgan Stanley has received compensation for investment banking services from Alphabet Inc., At Home Group Inc, BJ'S Wholesale Club, Booking Holdings Inc, Despegar.com Corp, Electronic Arts Inc, Etsy Inc, Home Depot Inc, Twitter Inc, Valvoline Inc., Wal-Mart Stores Inc.

In the next 3 months, Morgan Stanley expects to receive or intends to seek compensation for investment banking services from Activision Blizzard Inc, Advance Auto Parts Inc, Alphabet Inc., Amazon.com Inc, AutoZone Inc., Bed Bath & Beyond Inc., Best Buy Co Inc, BJ'S Wholesale Club, Blue Apron Holdings Inc, Booking Holdings Inc, Costco Wholesale Corp, Criteo SA, Despegar.com Corp, Dick's Sporting Goods, Dollar General Corporation, Dollar Tree Inc, eBay Inc, Electronic Arts Inc, Etsy Inc, Expedia Inc., Facebook Inc, GNC Holdings Inc, Groupon, Inc., GrubHub Inc., Home Depot Inc, Kroger Co., Lowe's Companies Inc, O'Reilly Automotive Inc, Party City Holdco Inc, Performance Food Group Co, Snap Inc., Sprouts Farmers Market Inc, Sysco Corp, Take-Two Interactive Software, Target Corp, The Michaels Companies, Inc., Tractor Supply Co, TRIVAGO NV, TrueCar Inc, Twitter Inc, Ulta Beauty Inc, US Foods Holding Corp., Valvoline Inc., Wal-Mart Stores Inc, Yelp Inc, Zillow Group Inc, Zynga Inc.

Within the last 12 months, Morgan Stanley has received compensation for products and services other than investment banking services from Advance Auto Parts Inc, Alphabet Inc., Amazon.com Inc, Booking Holdings Inc, Dollar General Corporation, eBay Inc, Electronic Arts Inc, Expedia Inc., Facebook Inc, GNC Holdings Inc, Home Depot Inc, Kroger Co., Lowe's Companies Inc, O'Reilly Automotive Inc, Party City Holdco Inc, Supervalu Inc, Sysco Corp, The Michaels Companies, Inc., US Foods Holding Corp., Valvoline Inc., Wal-Mart Stores Inc.

Within the last 12 months, Morgan Stanley has provided or is providing investment banking services to, or has an investment banking client relationship with, the following company: Activision Blizzard Inc, Advance Auto Parts Inc, Alphabet Inc., Amazon.com Inc, At Home Group Inc, AutoZone Inc., Bed Bath & Beyond Inc., Best Buy Co Inc, BJ'S Wholesale Club, Blue Apron Holdings Inc, Booking Holdings Inc, Costco Wholesale Corp, Criteo SA, Despegar.com Corp, Dick's Sporting Goods, Dollar General Corporation, Dollar Tree Inc, eBay Inc, Electronic Arts Inc, Etsy Inc, Expedia Inc., Facebook Inc, GNC Holdings Inc, Groupon, Inc., GrubHub Inc., Home Depot Inc, Kroger Co., Lowe's Companies Inc, O'Reilly Automotive Inc, Party City Holdco Inc, Performance Food Group Co, Snap Inc., Sprouts Farmers Market Inc, Sysco Corp, Take-Two Interactive Software, Target Corp, The Michaels Companies, Inc., Tractor Supply Co, TRIVAGO NV, TrueCar Inc, Twitter Inc, Ulta Beauty Inc, US Foods Holding Corp., Valvoline Inc., Wal-Mart Stores Inc, Yelp Inc, Zillow Group Inc, Zynga Inc.

# **Disclosure Section**

Within the last 12 months, Morgan Stanley has either provided or is providing non-investment banking, securities-related services to and/or in the past has entered into an agreement to provide services or has a client relationship with the following company: Activision Blizzard Inc, Advance Auto Parts Inc, Alphabet Inc., Amazon.com Inc, Booking Holdings Inc, Dollar General Corporation, eBay Inc, Electronic Arts Inc, Etsy Inc, Expedia Inc., Facebook Inc, GNC Holdings Inc, Groupon, Inc., Home Depot Inc, Kroger Co., Lowe's Companies Inc, O'Reilly Automotive Inc, Party City Holdco Inc, Supervalu Inc, Sysco Corp, The Michaels Companies, Inc., Twitter Inc, US Foods Holding Corp., Valvoline Inc., Wal-Mart Stores Inc, Zynga Inc.

An employee, director or consultant of Morgan Stanley is a director of eBay Inc, Kroger Co., Wal-Mart Stores Inc. This person is not a research analyst or a member of a research analyst's household.

Morgan Stanley & Co. LLC makes a market in the securities of Activision Blizzard Inc, Advance Auto Parts Inc, Alphabet Inc., Amazon.com Inc, AutoZone Inc., Bed Bath & Beyond Inc., Best Buy Co Inc, Big Lots Inc, Costco Wholesale Corp, Criteo SA, Dick's Sporting Goods, Dollar General Corporation, Dollar Tree Inc, eBay Inc, Electronic Arts Inc, Etsy Inc, Expedia Inc., Facebook Inc, Five Below Inc, GNC Holdings Inc, Groupon, Inc., GrubHub Inc., Home Depot Inc, Kroger Co., Lowe's Companies Inc, Lumber Liquidators Holdings Inc, O'Reilly Automotive Inc, Ollie's Bargain Outlet Holdings Inc, Party City Holdco Inc, Performance Food Group Co, Pier 1 Imports, Inc., Sally Beauty Holdings Inc, Swart & Final Stores, Inc., Sprouts Farmers Market Inc, Supervalu Inc, Sysco Corp, Take-Two Interactive Software, Target Corp, The Michaels Companies, Inc., Tractor Supply Co, TrueCar Inc, Twitter Inc, Ulta Beauty Inc, United Natural Foods Inc., US Foods Holding Corp., Vitamin Shoppe Inc, Wal-Mart Stores Inc, Wayfair Inc, Williams-Sonoma Inc, Yelp Inc, Zillow Group Inc, Zynga Inc.

Morgan Stanley & Co. International plc ("Morgan Stanley") is acting as financial advisor to J Sainsbury plc ("Sainsbury") in relation to a proposed combination with Asda Group Limited, a wholly-owned subsidiary of Walmart Inc., as announced on 30 April 2018. Sainsbury has agreed to pay fees to Morgan Stanley for its financial services. Please refer to the notes at the end of the report.

Morgan Stanley is acting as financial advisor to Banco De Credito E Inversiones ("BCI") in relation to their proposed acquisition of Walmart Chile's Consumer Finance Assets, as announced on December 19, 2017. BCI has agreed to pay fees to Morgan Stanley for its financial services which is contingent on the consummation of the transaction. Please refer to the notes at the end of the report.

The equity research analysts or strategists principally responsible for the preparation of Morgan Stanley Research have received compensation based upon various factors, including quality of research, investor client feedback, stock picking, competitive factors, firm revenues and overall investment banking revenues. Equity Research analysts' or strategists' compensation is not linked to investment banking or capital markets transactions performed by Morgan Stanley or the profitability or revenues of particular trading desks.

Morgan Stanley and its affiliates do business that relates to companies/instruments covered in Morgan Stanley Research, including market making, providing liquidity, fund management, commercial banking, extension of credit, investment services and investment banking. Morgan Stanley sells to and buys from customers the securities/instruments of companies covered in Morgan Stanley Research on a principal basis. Morgan Stanley may have a position in the debt of the Company or instruments discussed in this report. Morgan Stanley trades or may trade as principal in the debt securities (or in related derivatives) that are the subject of the debt research report.

Certain disclosures listed above are also for compliance with applicable regulations in non-US jurisdictions.

#### **STOCK RATINGS**

Morgan Stanley uses a relative rating system using terms such as Overweight, Equal-weight, Not-Rated or Underweight (see definitions below). Morgan Stanley does not assign ratings of Buy, Hold or Sell to the stocks we cover. Overweight, Equal-weight, Not-Rated and Underweight are not the equivalent of buy, hold and sell. Investors should carefully read the definitions of all ratings used in Morgan Stanley Research. In addition, since Morgan Stanley Research contains more complete information concerning the analyst's views, investors should carefully read Morgan Stanley Research, in its entirety, and not infer the contents from the rating alone. In any case, ratings (or research) should not be used or relied upon as investment advice. An investor's decision to buy or sell a stock should depend on individual circumstances (such as the investor's existing holdings) and other considerations.

#### **Global Stock Ratings Distribution**

(as of June 30, 2018)

The Stock Ratings described below apply to Morgan Stanley's Fundamental Equity Research and do not apply to Debt Research produced by the Firm.

For disclosure purposes only (in accordance with NASD and NYSE requirements), we include the category headings of Buy, Hold, and Sell alongside our ratings of Overweight, Equal-weight, Not-Rated and Underweight. Morgan Stanley does not assign ratings of Buy, Hold or Sell to the stocks we cover. Overweight, Equal-weight, Not-Rated and Underweight are not the equivalent of buy, hold, and sell but represent recommended relative weightings (see definitions below). To satisfy regulatory requirements, we correspond Overweight, our most positive stock rating, with a buy recommendation; we correspond Equal-weight and Not-Rated to hold and Underweight to sell recommendations, respectively.

	COVERAGE U	NIVERSE	INVESTMEN	IT BANKING CL	OTHER MATERIAL INVESTMENT SERVICES CLIENTS (MISC)		
STOCK RATING	COUNT	% OF	COUNT	% OF	% OF	COUNT	% OF
CATEGORY		TOTAL		TOTAL IBC	RATING		TOTAL
					CATEGORY		OTHER
							MISC
Overweight/Buy	1170	38%	292	39%	25%	550	39%
Equal-weight/Hold	1343	43%	363	49%	27%	645	46%
Not-Rated/Hold	50	2%	5	1%	10%	7	0%
Underweight/Sell	544	18%	81	11%	15%	211	15%
TOTAL	3,107		741			1413	

Data include common stock and ADRs currently assigned ratings. Investment Banking Clients are companies from whom Morgan Stanley received investment banking compensation in the last 12 months. Due to rounding off of decimals, the percentages provided in the "% of total" column may not add up to exactly 100 percent.

#### **Analyst Stock Ratings**

Overweight (O). The stock's total return is expected to exceed the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Equal-weight (E). The stock's total return is expected to be in line with the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Not-Rated (NR). Currently the analyst does not have adequate conviction about the stock's total return relative to the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Underweight (U). The stock's total return is expected to be below the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Unless otherwise specified, the time frame for price targets included in Morgan Stanley Research is 12 to 18 months.

#### **Analyst Industry Views**

Attractive (A): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be attractive vs. the relevant broad market benchmark, as indicated below.

In-Line (I): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be in line with the relevant broad market benchmark, as indicated below.

Cautious (C): The analyst views the performance of his or her industry coverage universe over the next 12-18 months with caution vs. the relevant broad market benchmark, as indicated below.

Benchmarks for each region are as follows: North America - S&P 500; Latin America - relevant MSCI country index or MSCI Latin America Index; Europe - MSCI Europe; Japan - TOPIX; Asia - relevant MSCI country index or MSCI sub-regional index or MSCI AC Asia Pacific ex Japan Index.

#### Important Disclosures for Morgan Stanley Smith Barney LLC Customers

Important disclosures regarding the relationship between the companies that are the subject of Morgan Stanley Research and Morgan Stanley Smith Barney LLC or Morgan Stanley or any of their affiliates, are available on the Morgan Stanley Wealth Management disclosure website at www.morganstanley.com/online/researchdisclosures. For Morgan Stanley specific disclosures, you may refer to www.morganstanley.com/researchdisclosures.

Each Morgan Stanley Equity Research report is reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval is conducted by the same person who reviews the Equity Research report on behalf of Morgan Stanley. This could create a conflict of interest.

#### **Other Important Disclosures**

Morgan Stanley & Co. International PLC and its affiliates have a significant financial interest in the debt securities of Kroger Co., Supervalu Inc.

Morgan Stanley is not acting as a municipal advisor and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. Morgan Stanley produces an equity research product called a "Tactical Idea." Views contained in a "Tactical Idea" on a particular stock may be contrary to the recommendations or views expressed in research on the same stock. This may be the result of differing time horizons, methodologies, market events, or other factors. For all research available on a particular stock, please contact your sales representative or go to Matrix at http://www.morganstanley.com/matrix. Morgan Stanley Research is provided to our clients through our proprietary research portal on Matrix and also distributed electronically by Morgan Stanley to clients. Certain, but not all, Morgan Stanley Research products are also made available to clients through third-party vendors or redistributed to clients through alternate electronic means as a convenience. For access to all available Morgan Stanley Research, please contact your sales representative or go to Matrix at http://www.morganstanley.com/terms.html). By accessing and/or using Morgan Stanley Research, you are indicating that you have read and agree to be bound by our Terms of Use (http://www.morganstanley.com/terms.html). In addition you consent to Morgan Stanley processing your personal data and using cookies in accordance with our Privacy Policy and our Global Cookies Policy (http://www.morganstanley.com/privacy\_pledge.html), including for the purposes of setting your preferences and to collect readership data so that we can deliver better and more personalized service and products to you. To find out more information about how Morgan Stanley processes personal data, how we use cookies and how to reject cookies see our Privacy Policy and our Global Cookies Policy (http://www.morganstanley.com/privacy\_pledge.html), including for the purpose

Morgan Stanley Research does not provide individually tailored investment advice. Morgan Stanley Research has been prepared without regard to the circumstances and objectives of those who receive it. Morgan Stanley recommends that investors independently evaluate particular investments and strategies, and encourages investors to seek the advice of a financial adviser. The appropriateness of an investment or strategy will depend on an investor's circumstances and objectives. The securities, instruments, or strategies discussed in Morgan Stanley Research may not be suitable for all investors, and certain investors may not be eligible to purchase or participate in some or all of them. Morgan Stanley Research is not an offer to buy or sell or the solicitation of an offer to buy or sell any security/instrument or to participate in any particular trading strategy. The value of and income from your investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, market indexes, operational or financial conditions of companies or other factors. There may be time limitations on the exercise of options or other rights in securities/instruments transactions. Past performance is not necessarily a guide to future performance. Estimates of future performance are based on assumptions that may not be realized. If provided, and unless otherwise stated, the closing price on the cover page is that of the primary exchange for the subject company's securities/instruments. The fixed income research analysts, strategists or economists principally responsible for the preparation of Morgan Stanley Research have received compensation based upon various factors, including quality, accuracy and value of research, firm profitability or revenues (which include fixed income trading and capital markets profitability or revenues), client feedback and competitive factors. Fixed Income Research analysts', strategists' or economists' compensation is not linked to investment banking or capital markets transactions performed by Morgan Stanley or the profitability or revenues of particular trading desks. The "Important US Regulatory Disclosures on Subject Companies" section in Morgan Stanley Research lists all companies mentioned where Morgan Stanley owns 1% or more of a class of common equity securities of the companies. For all other companies mentioned in Morgan Stanley Research, Morgan Stanley may have an investment of less than 1% in securities/instruments or derivatives of securities/instruments of companies and may trade them in ways different from those discussed in Morgan Stanley Research. Employees of Morgan Stanley not involved in the preparation of Morgan Stanley Research may have investments in securities/instruments or derivatives of securities/instruments of companies mentioned and may trade them in ways different from those discussed in Morgan Stanley Research. Derivatives may be issued by Morgan Stanley or associated persons. With the exception of information regarding Morgan Stanley, Morgan Stanley Research is based on public information. Morgan Stanley makes every effort to use reliable, comprehensive information, but we make no representation that it is accurate or complete. We have no obligation to tell you when opinions or information in Morgan Stanley Research change apart from when we intend to discontinue equity research coverage of a subject company. Facts and views presented in Morgan Stanley Research have not been reviewed by, and may not reflect information known to, professionals in other Morgan Stanley business areas, including investment banking personnel.

Morgan Stanley Research personnel may participate in company events such as site visits and are generally prohibited from accepting payment by the company of associated expenses unless pre-approved by authorized members of Research management.

Morgan Stanley may make investment decisions that are inconsistent with the recommendations or views in this report.

To our readers based in Taiwan or trading in Taiwan securities/instruments: Information on securities/instruments that trade in Taiwan is distributed by Morgan Stanley Taiwan Limited ("MSTL"). Such information is for your reference only. The reader should independently evaluate the investment risks and is solely responsible for their investment decisions. Morgan Stanley Research may not be distributed to the public media or quoted or used by the public media without the express written consent of Morgan Stanley. Any non-customer reader within the scope of Article 7-1 of the Taiwan Stock Exchange Recommendation Regulations accessing and/or receiving Morgan Stanley Research is not permitted to provide Morgan Stanley Research to any third party (including but not limited to related parties, affiliated companies and any other third parties) or engage in any activities regarding Morgan Stanley Research which may create or give the appearance of creating a conflict of interest. Information on securities/instruments that do not trade in Taiwan is for informational purposes only and is not to be construed as a recommendation or a solicitation to trade in such securities/instruments. MSTL may not execute transactions for clients in these securities/instruments.

Morgan Stanley is not incorporated under PRC law and the research in relation to this report is conducted outside the PRC. Morgan Stanley Research does not constitute an offer to sell or the solicitation of an offer to buy any securities in the PRC. PRC investors shall have the relevant qualifications to invest in such securities and shall be responsible for obtaining all relevant approvals, licenses, verifications and/or registrations from the relevant governmental authorities themselves. Neither this report nor any part of it is intended as, or shall constitute, provision of any consultancy or advisory service of securities investment as defined under PRC law. Such information is provided for your reference only.

Morgan Stanley Research is disseminated in Brazil by Morgan Stanley C.T.V.M. S.A.; in Mexico by Morgan Stanley México, Casa de Bolsa, S.A. de C.V which is regulated by Comision Nacional Bancaria y de Valores. Paseo de los Tamarindos 90, Torre 1, Col. Bosques de las Lomas Floor 29, 05120 Mexico City; in Japan by Morgan Stanley MUFG Securities Co., Ltd. and, for Commodities related research reports only, Morgan Stanley Capital Group Japan Co., Ltd; in Hong Kong by Morgan Stanley Asia Limited (which accepts responsibility for its contents) and by Morgan Stanley Asia International Limited, Hong Kong Branch; in Singapore by Morgan Stanley Asia (Singapore) Pte. (Registration number 199206298Z) and/or Morgan Stanley Asia (Singapore) Securities Pte Ltd (Registration number 200008434H), regulated by the Monetary Authority of Singapore (which accepts legal responsibility for its contents and should be contacted with respect to any matters arising from, or in connection with, Morgan Stanley Research) and by Morgan Stanley Asia International Limited, Singapore Branch (Registration number T11FC0207F); in Australia to "wholesale clients" within the meaning of the Australian Corporations Act by Morgan Stanley Australia Limited A.B.N. 67 003 734 576, holder of Australian financial services license No. 233742, which accepts responsibility for its contents; in Australia to "wholesale clients" and "retail clients" within the meaning of the Australian Corporations Act by Morgan Stanley Wealth Management Australia Ptv Ltd (A.B.N. 19 009 145 555, holder of Australian financial services license No. 240813, which accepts responsibility for its contents; in Korea by Morgan Stanley & Co International plc, Seoul Branch; in India by Morgan Stanley India Company Private Limited; in Indonesia by PT. Morgan Stanley Sekuritas Indonesia; in Canada by Morgan Stanley Canada Limited, which has approved of and takes responsibility for its contents in Canada; in Germany by Morgan Stanley Bank AG. Frankfurt am Main and Morgan Stanley Private Wealth Management Limited, Niederlassung Deutschland, regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin); in Spain by Morgan Stanley, S.V., S.A., a Morgan Stanley group company, which is supervised by the Spanish Securities Markets Commission (CNMV) and states that Morgan Stanley Research has been written and distributed in accordance with the rules of conduct applicable to financial research as established under Spanish regulations; in the US by Morgan Stanley & Co. LLC, which accepts responsibility for its contents. Morgan Stanley & Co. International plc, authorized by the Prudential Regulatory Authority and regulated by the Financial Conduct Authority and the Prudential Regulatory Authority, disseminates in the UK research that it has prepared, and approves solely for the purposes of section 21 of the Financial Services and Markets Act 2000, research which has been prepared by any of its affiliates. RMB Morgan Stanley Proprietary Limited is a member of the JSE Limited and regulated by the Financial Services Board in South Africa. RMB Morgan Stanley Proprietary Limited is a joint venture owned equally by Morgan Stanley International Holdings Inc. and RMB Investment Advisory (Proprietary) Limited, which is wholly owned by FirstRand Limited. The information in Morgan Stanley Research is being disseminated by Morgan Stanley Saudi Arabia, regulated by the Capital Market Authority in the Kingdom of Saudi Arabia, and is directed at Sophisticated investors only.

The information in Morgan Stanley Research is being communicated by Morgan Stanley & Co. International plc (DIFC Branch), regulated by the Dubai Financial Services Authority (the DFSA), and is directed at Professional Clients only, as defined by the DFSA. The financial products or financial services to which this research relates will only be made available to a customer who we are satisfied meets the regulatory criteria to be a Professional Client. The information in Morgan Stanley Research is being communicated by Morgan Stanley & Co. International plc (QFC Branch), regulated by the Qatar Financial Centre Regulatory Authority (the QFCRA), and is directed at business customers and market counterparties only and is not intended for Retail Customers as defined by the QFCRA. As required by the Capital Markets Board of Turkey, investment information, comments and recommendations stated here, are not within the scope of investment advisory service is provided exclusively to persons based on their risk and income preferences by the authorized firms. Comments and recommendations stated here are general in nature. These opinions may not fit to your financial status, risk and return preferences. For this reason, to make an investment decision by relying solely to this information stated here may not bring about outcomes that fit your expectations.

The trademarks and service marks contained in Morgan Stanley Research are the property of their respective owners. Third-party data providers make no warranties or representations relating to the accuracy, completeness, or timeliness of the data they provide and shall not have liability for any damages relating to such data. The Global Industry Classification Standard (GICS) was developed by and is the exclusive property of MSCI and S&P. Morgan Stanley Research, or any portion thereof may not be reprinted, sold or redistributed without the written consent of Morgan Stanley.

#### INDUSTRY COVERAGE: Hardline/Broadline Retail

COMPANY (TICKER)	RATING (AS OF)	PRICE (07/30/2018)
Simeon Gutman, CFA		
Advance Auto Parts Inc (AAP.N)	O (06/23/2014)	\$140.68
At Home Group Inc (HOME.N)	O(06/26/2018)	\$35.76
AutoZone Inc. (AZO.N)	E (07/06/2017)	\$698.46
Bed Bath & Beyond Inc. (BBBY.O)	U (06/23/2014)	\$19.40
Best Buy Co Inc (BBY.N)	E (01/19/2016)	\$74.44
BJ'S Wholesale Club (BJ.N)	E (07/23/2018)	\$24.75
Costco Wholesale Corp (COST.O)	E (10/06/2017)	\$219.11
Dick's Sporting Goods (DKS.N)	E (05/20/2016)	\$33.47
GNC Holdings Inc (GNC.N)	E (05/30/2018)	\$3.02
Home Depot Inc (HD.N)	O(02/23/2017)	\$197.28
Lowe's Companies Inc (LOW.N)	O(01/21/2015)	\$99.28
Lumber Liquidators Holdings Inc (LL.N)	E (03/02/2015)	\$24.37
National Vision Holdings Inc. (EYE.O)	O(11/20/2017)	\$40.14
O'Reilly Automotive Inc (ORLY.O)	E (07/06/2017)	\$304.59
Party City Holdco Inc (PRTY.N)	E (01/19/2016)	\$15.65
Pier 1 Imports, Inc. (PIR.N)	U (04/01/2015)	\$2.17
Sally Beauty Holdings Inc (SBH.N)	U (11/08/2017)	\$16.34
Target Corp (TGT.N)	U (06/23/2014)	\$81.21
The Mchaels Companies, Inc. (MK.O)	O(01/17/2017)	\$20.39
Tractor Supply Co (TSCO.O)	E (06/23/2014)	\$77.41
Ulta Beauty Inc (ULTAO)	O(01/17/2018)	\$243.54
Valvoline Inc. (VW.N)	E (10/18/2016)	\$22.37
Vitamin Shoppe Inc (VSLN)	E (05/11/2017)	\$8.00
Wal-Mart Stores Inc (WMT.N)	E (01/21/2015)	\$88.88
Wayfair Inc (W.N)	E (04/25/2018)	\$109.67
Williams-Sonoma Inc (WSMN)	E (08/28/2014)	\$58.80

#### INDUSTRY COVERAGE: Internet

COMPANY (TICKER)	RATING (AS OF)	PRICE (07/30/2018)
Brian Nowak, CFA		
Brian Nowak, CFA Activision Bitzard Inc (ATVI.O) Aiphabet Inc. (GOOGLO) Amazon.com Inc (AMZN.O) Blue Apron Holdings Inc (BKNG.O) Oriteo SA (CRTO.O) Despegar.com Corp (DESP.N) eBay Inc (EBAY.O) Bedronic Arts Inc (EA.O) Esylinc (ETSY.O) Expedia Inc. (EXPE.O) Facebook Inc (FB.O) Groupon, Inc. (GRPI.O) Groupon, Inc. (GRUB.N) Snap Inc. (SNAP.N) Take-Two Interactive Software (TTWO.O) TRIVAGO NV (TRVG.O) TrueCar Inc (TRUE.O)	O (09/23/2016) O (08/11/2015) O (04/24/2017) E (07/24/2017) O (06/30/2016) E (01/26/2016) E (01/26/2016) E (01/2/2018) U (01/12/2018) O (04/18/2018) O (04/27/2016) E (03/05/2018) E (04/18/2018) U (11/09/2017) O (02/01/2018) E (09/28/2017) E (01/12/2018) E (04/17/2018)	\$72.75 \$1,230.04 \$1,779.22 \$2.46 \$2,029.90 \$33.55 \$21.64 \$33.67 \$126.21 \$40.23 \$134.81 \$171.06 \$4.81 \$124.28 \$12.27 \$113.11 \$4.09 \$10.87 \$31.38

Stock Ratings are subject to change. Please see latest research for each company. \* Historical prices are not split adjusted.

Stock Ratings are subject to change. Please see latest research for each company.

\* Historical prices are not split adjusted.

# Morgan Stanley

The Americas	Europe	Japan	Asia/Pacific
1585 Broadway	20 Bank Street, Canary Wharf	1-9-7 Otemachi, Chiyoda-ku	1 Austin Road West
New York, NY 10036-8293	London E14 4AD	Tokyo 100-8109	Kowloon
United States	United Kingdom	Japan	Hong Kong
+1 212 761 4000	+44 (0)20 7425 8000	+81 (0) 3 6836 5000	+852 2848 5200

#### INDUSTRY COVERAGE: Food Retailers

COMPANY (TICKER)	RATING (AS OF)	PRICE* (07/30/2018
Vincent J Sinisi		
Big Lots Inc (BIG.N)	O(09/25/2017)	\$43.44
Dollar General Corporation (DG.N)	O(02/16/2016)	\$98.14
Dollar Tree Inc (DLTR.O)	E (02/16/2016)	\$90.0
Five Below Inc (FIVE.O)	E (06/24/2014)	\$96.9
Kroger Co. (KR.N)	E (06/19/2017)	\$29.7
Ollie's Bargain Outlet Holdings Inc (OLLI.O)	E (09/25/2017)	\$69.7
Performance Food Group Co (PFGC.N)	E (10/27/2015)	\$36.1
Smart & Final Stores, Inc. (SFS.N)	U (08/16/2016)	\$5.9
Sprouts Farmers Market Inc (SFMO)	E (06/15/2017)	\$21.2
Supervalu Inc (SVU.N)	E (07/29/2015)	\$32.1
Sysco Corp (SYY.N)	E (01/16/2018)	\$66.6
United Natural Foods Inc. (UNFI.O)	U (04/11/2016)	\$31.9
US Foods Holding Corp. (USFD.N)	O(05/15/2018)	\$33.5

Stock Ratings are subject to change. Please see latest research for each company. \* Historical prices are not split adjusted.