# COWEN <br> A N D <br> Equity Research <br> March 2017 <br> eCommerce Disruption: Just Getting Started 

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## Long Runway Ahead

* Expect US eCommerce growth to accelerate again in 2017 and remain robust for the foreseeable future
* Estimate eCommerce will account for $\sim 9 \%$ of U.S. Retail Sales (x-Gas, \& Non-merchandise Receipts) in '17
* Going forward, we expect several massive underpenetrated markets, namely Food \& Beverage and Consumables (which we refer to collectively as Grocery), to drive the next leg of US eCommerce Growth
U.S. eCommerce Sales 2007-2022E (\$, BN)

U.S. eCommerce Penetration 2007-2022E (\% of Retail Sales)

* Idea that eCommerce is taking share and disrupting Brick \& Mortar Retailers is hardly new
* Absence of digestible data has made it difficult to quantify
* So, we set out to provide investors the framework for quantifying disruption overall and by US sales vertical


Source: Cowen and Company; US Census Bureau

## The Various Stages of eCommerce Disruption

* eCommerce as a percent of total sales, or simply eCommerce penetration, within any given vertical varies significantly depending on the stage of disruption
* Late Stages:
* eCommerce penetration rates above 40\%
* declining physical store counts
* Significantly lower in-store sales vs the industry's peak
* i.e. Media
* Middle Stages:
* eCommerce penetration rates ranging from 10-40\%
* declining to flat physical store count
* declining in-store sales
* i.e. Electronics (Middle to Late) / Apparel (Early to Middle)
* Early Stages:
* eCommerce penetrations below 10\%
* mixed in-store sales growth
* mixed store growth/declines
* i.e. Grocery

Stages of Disruption by Sales Vertical

| Sales Vertical | Stage of Disruption |
| :---: | :---: |
| Auto | Early |
| Clothing \& Accessories | Early / Middle |
| Electronics | Middle / Late |
| Consumables | Early |
| Food \& Beverage | Early |
| Furniture \& Home Furnishings | Early / Middle |
| Garden Equipment/Supplies/Build Materials | Early |
| Media | Late |
| Office Equipment and Supplies | Late |
| Sporting Goods | Early / Middle |
| Toys/Hobby Goods/Games | Late |

## The US Grocery Retail Market is in the Very Early Stages

* We view US Grocery (which includes Food \& Beverage + Consumables) as one of the sectors in the very early days of disrup tion, as eCommerce should account for only ~6\% of total Grocery sales in '17
* Expect US online grocery sales to grow more than $2 x$ the rate of growth for total US eCommerce in ' 17 , or $+34 \% \mathrm{y} / \mathrm{y}$ vs. +15 . 5\% y/y
U.S. Online Grocery Sales '07-‘22E (\$, BN)

U.S. eCommerce Grocery Penetration 2007-2022E



## US Grocery to Account for a Larger Piece of the eCommerce Pie

* Expect growth within Grocery to consistently outpace overall U.S. eCommerce growth '17-'22, resulting in an increased share of U.S. eCommerce sales
* Estimate Food \& Bev and Consumables (Grocery) combined share to rise from 15\% in ' 16 to $24 \%$ in '22
* As a compare, we estimate the two verticals represented $\sim 28 \%$ of total ' 16 U.S. Retail Sales

Share of U.S. eCommerce Sales '10 vs. ‘16E vs. ‘22E


## Evolving Consumer Habits will Drive Online Grocery Growth

* Overall, $\sim 12 \%$ of US grocery shoppers bought groceries online on avg. throughout '16, per our proprietary Survey
* $22 \%$ of respondents said they would likely buy groceries online in the future
* Combining current and likely future online grocery buyers touches $\sim 1 / 3$ of overall US HHs

US Online Grocery Shoppers - '16 Avg (\% of Grocery Shoppers)


Potential Online US Grocery Shoppers - '16 Avg (\% of Grocery Shoppers)


## UK Online Grocery Adoption a Positive Indicator for US Trends

* According to our UK Survey of $\sim 1250$ consumers, $\sim 34 \%$ of respondents indicated they bought groceries online in Jan. '17, nearly $3 x$ the rate in the US
* Also, another $34 \%$ said they would likely buy groceries online in the future vs. $22 \%$ in the US
* While US online grocery adoption may not reach UK levels, the UK appears to be a very good proxy for further US adoption


## UK Online Grocery Shoppers - Jan ‘17 (\% of Grocery Shoppers)

 50.0\%

Potential Online UK Grocery Shoppers - Jan '17 (\% of Grocery Shoppers)


## Online Poised for Growth As Millennials’ Grocery Spend Rises

* Older Millennials are much more likely to buy groceries online, which should serve as a long term tailwind as they age and enter peak spend years
* According to the BLS, average annual spend on Food \& Bev among consumers $35-44$ is $30 \%$ higher than the age group before it (25-34 / Millennials).
* If historical trends hold, annual Food \& Bev spend among older Millennials will continue to grow, with close to $50 \%$ of older Millennials likely buying online in the future

Average Spending on Food at Home by Age


# Amazon (\$853.08, Outperform) Using a Multi-Platform Approach to Capture Share Gains 

amazon

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| Kindle Owners Lending Library, and much more | come |  | and | wait ineer criex out |

## Amazon US Prime Households Surpassed 50MM in '16

* In December '16, $\sim 46 \%$ of respondents indicated they live in a Prime household, which we estimate corresponds to $\sim 50 \mathrm{MM}$ US Prime subscribers, up from 41 MM a year prior ( $+23 \% \mathrm{y} / \mathrm{y}$ ).
* For 4Q16, Prime purchasers represented $\sim 58 \%$ of total purchasers on average during the quarter, an all-time high and up fr om $\sim 48 \%$ in 4Q15.

Prime US Household Penetration Dec '12 - Dec '16 (\% of HHs)


Source: Cowen proprietary Consumer Tracking Survey, $n=\sim 2500$, December 2016

## Prime Now Leading Categories: Grocery, Personal Care, Household

* Amazon Prime Now, Amazon's 1-2 hour delivery service of 25K+ goods available in ~29 US markets and $\sim 45$ markets globally, has ramped quickly since launching in NYC in late '14
* Per our survey, $10 \%$ of US AMZN Prime HHs (or $\sim 5 M M$ ) purchased goods on Prime Now each month on average in '16
* Groceries was the \#1 shopping category in '16 with $43 \%$ of Prime Now Purchasers buying each month (on avg.), followed by Personal Care Products (40\%), and Household Products (38\%).

Amazon Prime Now Usage - '16 Avg (\% of Prime HHs)
Amazon Prime Now Sales Categories - '16 Avg (\% of Prime Now Purchasers)


[^0]Amazon Fresh Stepped On the Gas in 2016


US Grocery Market Share Analysis

|  |  |  |  |  |  |  |  | $\begin{gathered} \text { CAGR } \\ \text { 17E-'22E } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |  |
| Walmart | \$187,758 | \$193,247 | \$198,488 | \$203,450 | \$208,536 | \$213,750 | \$219,094 | 2.5\% |
| Kroger | \$80,362 | \$82,890 | \$85,420 | \$87,824 | \$90,016 | \$92,261 | \$94,152 | 2.6\% |
| Amazon (GMV) | \$23,783 | \$29,937 | \$37,154 | \$44,964 | \$53,129 | \$61,879 | \$71,428 | 19.0\% |
| CostCo | \$49,186 | \$50,700 | \$52,145 | \$53,512 | \$54,792 | \$56,105 | \$57,321 | 2.5\% |
| Albertsons/Safeway | \$48,682 | \$50,211 | \$51,742 | \$53,197 | \$54,499 | \$55,832 | \$56,975 | 2.6\% |
| Ahold USA/Delhaize America | \$35,636 | \$36,559 | \$37,438 | \$38,300 | \$39,105 | \$39,927 | \$40,725 | 2.2\% |
| Sams Club | \$33,905 | \$34,922 | \$35,882 | \$36,779 | \$37,607 | \$38,453 | \$39,222 | 2.3\% |
| Publix | \$31,716 | \$32,712 | \$33,708 | \$34,654 | \$35,453 | \$36,270 | \$37,011 | 2.5\% |
| Walgreens | \$25,852 | \$26,369 | \$26,896 | \$27,434 | \$27,983 | \$28,543 | \$29,113 | 2.0\% |
| CVS | \$19,789 | \$20,184 | \$20,588 | \$21,000 | \$21,420 | \$21,848 | \$22,285 | 2.0\% |
| H-E-B Grocery | \$17,650 | \$18,197 | \$18,743 | \$19,258 | \$19,692 | \$20,135 | \$20,588 | 2.5\% |
| Sub-Total | \$554,319 | \$575,929 | \$598,205 | \$620,372 | \$642,231 | \$665,002 | \$687,915 | 3.6\% |
| Other Sellers | \$681,205 | \$699,838 | \$715,292 | \$733,162 | \$753,977 | \$773,672 | \$794,755 | 2.6\% |
| Total US Grocery Market | \$1,235,524 | \$1,275,767 | \$1,313,497 | \$1,353,534 | \$1,396,209 | \$1,438,674 | \$1,482,670 | 3.1\% |
|  |  |  |  |  |  |  |  |  |
| Market Share (\%) |  |  |  |  |  |  |  |  |
| Walmart | 15.2\% | 15.1\% | 15.1\% | 15.0\% | 14.9\% | 14.9\% | 14.8\% |  |
| Kroger | 6.5\% | 6.5\% | 6.5\% | 6.5\% | 6.4\% | 6.4\% | 6.4\% |  |
| Amazon (GMV) | 1.9\% | 2.3\% | 2.8\% | 3.3\% | 3.8\% | 4.3\% | 4.8\% |  |
| CostCo | 4.0\% | 4.0\% | 4.0\% | 4.0\% | 3.9\% | 3.9\% | 3.9\% |  |
| Albertsons/Safeway | 3.9\% | 3.9\% | 3.9\% | 3.9\% | 3.9\% | 3.9\% | 3.8\% |  |
| Ahold USA/Delhaize America | 2.9\% | 2.9\% | 2.9\% | 2.8\% | 2.8\% | 2.8\% | 2.7\% |  |
| Sams Club | 2.7\% | 2.7\% | 2.7\% | 2.7\% | 2.7\% | 2.7\% | 2.6\% |  |
| Publix | 2.6\% | 2.6\% | 2.6\% | 2.6\% | 2.5\% | 2.5\% | 2.5\% |  |
| Walgreens | 2.1\% | 2.1\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% |  |
| CVS | 1.6\% | 1.6\% | 1.6\% | 1.6\% | 1.5\% | 1.5\% | 1.5\% |  |
| H-E-B Grocery | 1.4\% | 1.4\% | 1.4\% | 1.4\% | 1.4\% | 1.4\% | 1.4\% |  |
| Sub-Total | 44.9\% | 45.1\% | 45.5\% | 45.8\% | 46.0\% | 46.2\% | 46.4\% |  |
| Other Sellers | 55.1\% | 54.9\% | 54.5\% | 54.2\% | 54.0\% | 53.8\% | 53.6\% |  |
| Total US Grocery Market | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |  |


[^0]:    Source: Cowen proprietary Consumer Internet Survey, $n=\sim 2500$, Jan '16 - Dec '16

