



UNIVERSITY OF
NOTRE DAME



Advisory Board Presentation

AIM XLIV | May 1, 2017

AIM XLIV

Analyst Introductions



Aruhan

Inner Mongolia, China
Versik Analytics, Infinera

Sylvia Banda

Carmel, Indiana
Activision Blizzard,
Royal Caribbean

Andy Burrow

North Lawrence, Ohio
Wabtec Corporation, Kroger

Samuel Chitrit

San Antonio, Texas
Alphabet, Facebook

Jason Davis

Kennewick, Washington
Exxon Mobil, M&T Bank

Graham Gardner

Rochester, New York
Intel, Exelon

Bhavuk Ghai

Patiala, India
Market Axxess, LAM Research

Sean Hanley

Chicago, Illinois
American Tower, IBM

Dylan Koehler

Lakeville, Connecticut
Hanesbrands, Mas Tec

Conor Larkin

Buffalo, New York
Align Technology,
Calavo Growers

Meng Li

Hebei, China
Nvidia, Analog Devices

Silei Li

Guangdong, China
Gilead Sciences,
Walgreens Boots Alliance

Garrett Logan

Boston, Massachusetts
Digital Realty Trust, Francesca's

Elizabeth Lynch

Grosse Pointe Farms, Michigan
Kinder Morgan, Target Corp.

Andrew Roehl

Greenville, South Carolina
VeriSign,
Thermo Fisher Scientific

Elizabeth Sadler

Boston, Massachusetts
Mosaic, Palo Alto Networks

Karissa Schuchardt

Sheboygan, Wisconsin
Herman Miller, CVS Health

Jessie Sun

Jiangsu, China
Equifax, Vulcan Materials

Fernando Turrent

Mexico City, Mexico
Under Armour, AECOM

Patrick Veltman

Richmond, Virginia
Total System Services,
Synchrony Financial

Nancy Xia

Fujian, China
Microsoft, Priceline

Ross Zimmerman

Utica, Michigan
Rockwell Collins,
Intercontinental Exchange



UNIVERSITY OF
NOTRE DAME

Agenda

Course Overview

Economic Outlook

Portfolio Performance

Selection Methodology

Security Analysis

AIM XLIV Review



UNIVERSITY OF NOTRE DAME

Course Overview

Fundamentals

Analyst Responsibilities

Investment Philosophy



Applied Investment Management
Winter 2017

Course Overview

Fundamentals



Course Objectives

- Hands-on immersion in portfolio management
- Bridges course work with practical experience
- Weekly presentations, final board presentation to the advisory panel composed of key industry executives
- Analysts selected on application basis considering:
 - Academic performance
 - Relevant work experience
 - Personal goals

Course Outline

- **1st Half:**
 - Inherit stock from the previous portfolio
 - Thorough analysis; reports findings to investment team
- **2nd Half:**
 - Select a stock to research and pitch
 - Class builds and executes a portfolio of existing and pitched stocks



Course Overview

Analyst Responsibilities



Individual Responsibility	Team Projects	Student Driven Classroom
<ul style="list-style-type: none">Execute a series of reports on individual stocks culminating in a valuation of that firmAnalysts maintain coverage of their stocks and sectors, updating the class on pertinent developmentsBeyond individual assignments, analysts must participate through questions and comments to hold each other accountable	<ul style="list-style-type: none">Monthly Economic and Portfolio Performance UpdatesIndustry and Sector Outlook ReportsAIM Alumni communication through Newsletter and Webpage	<ul style="list-style-type: none">Each day, an analyst acts as “CIO” and leads the course like a meeting –working down agenda itemsDiscussions flow from analyst questions, and contributions are moderated by peers not professorsDuring portfolio selection each analyst has an equal voice

Course Overview

Investment Philosophy & Policies



Investment Philosophy			Allocations		
Investment Constraints		Sector		Proposed Portfolio	S&P 500
• Outperform the S&P since inception		Technology		27%	22%
• Bottom-up approach, accompanied by top down consideration		Financials		12%	14%
• Well-researched trade decisions that contribute to the growth of the portfolio's value for the use of future classes		Healthcare		8%	14%
		Consumer Discretionary		15%	12%
		Industrials		12%	10%
		Consumer Staples		12%	9%
		Energy		4%	7%
		Utilities		4%	3%
		Real Estate		8%	3%
		Materials		0%	3%
		Telecomm		0%	2%



UNIVERSITY OF
NOTRE DAME

Economic Outlook

United States Economy

Current Political Environment

Market Reactions to Political Events

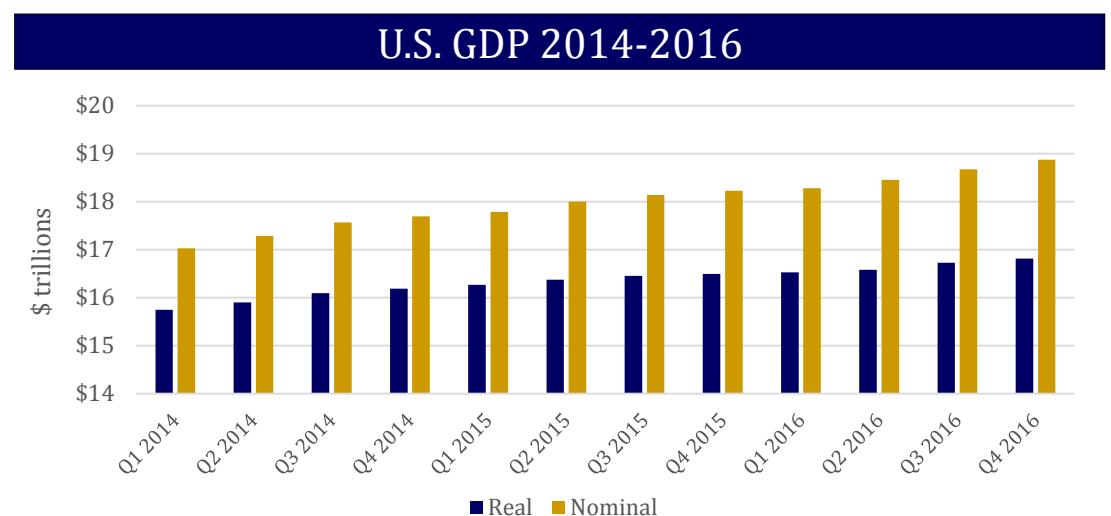
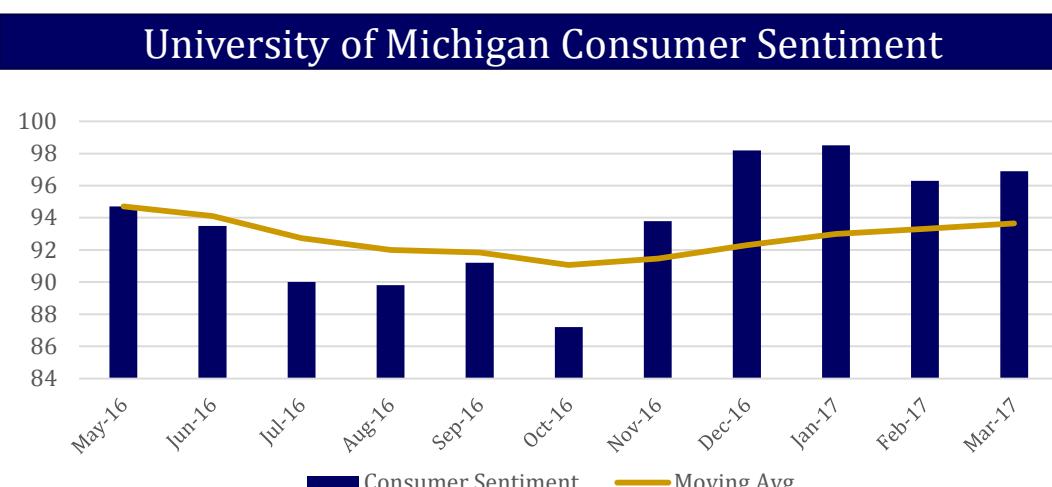
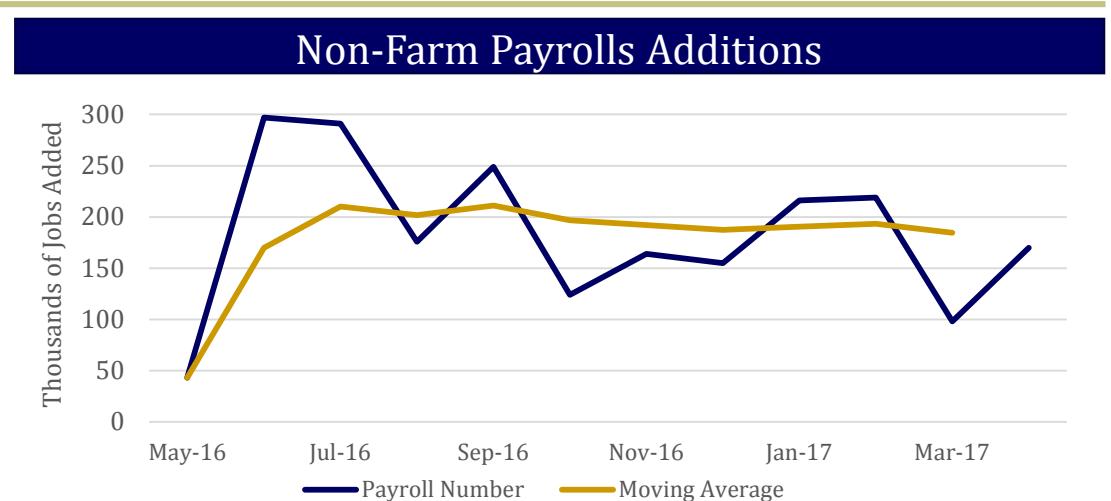
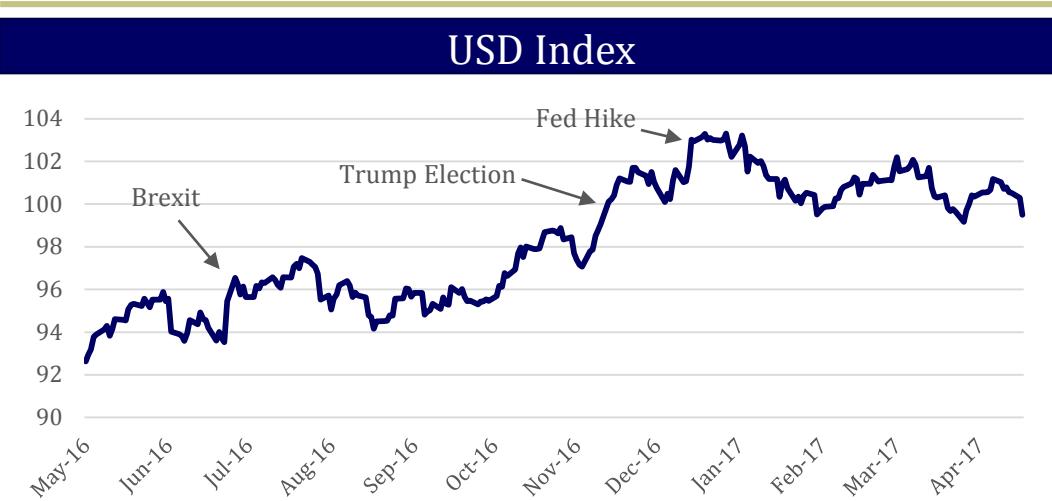
Global Economy

Investment Considerations

Economic Takeaways

United States Economy

Economic Overview



United States Economy

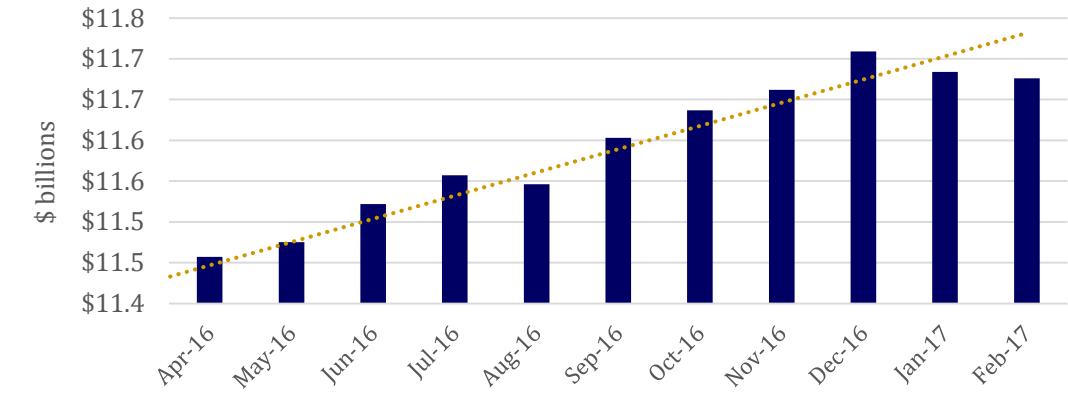
Federal Reserve Policy



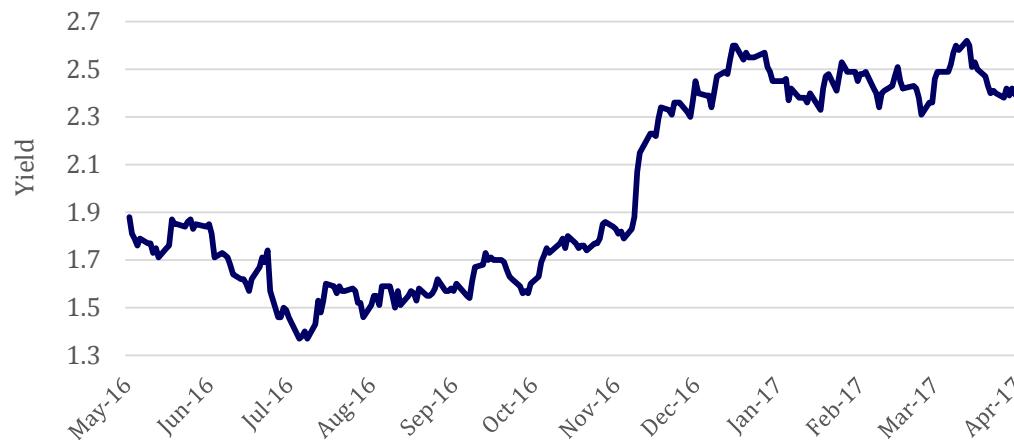
Federal Reserve Minutes

- Expected to raise rates 2-3 more times in 2017 (50-75bps)
- Target 2% inflation rate
- Real GDP growing at moderate pace
- Unemployment rate of 4.7% is positive indicator
- Real personal consumption and investment spending both increased in Q4-16

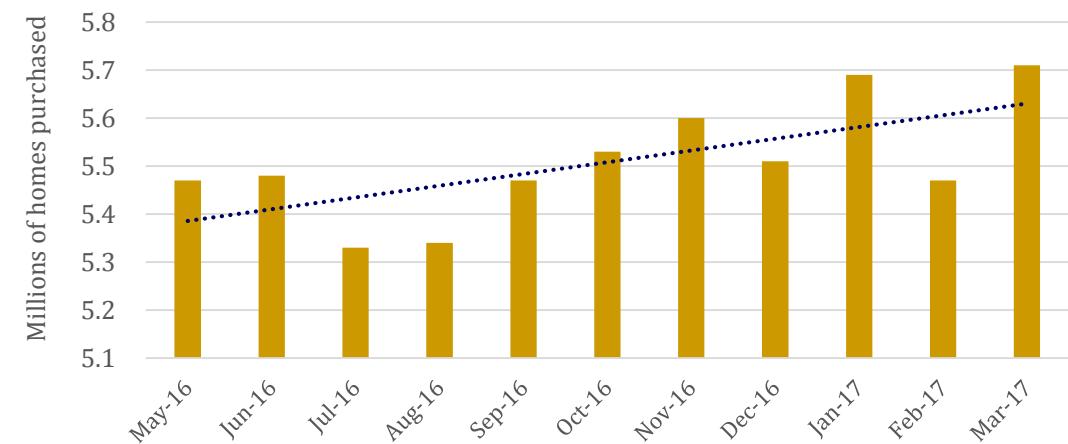
Personal Consumption



U.S. 10-Year Treasury Note



Existing Home Purchases

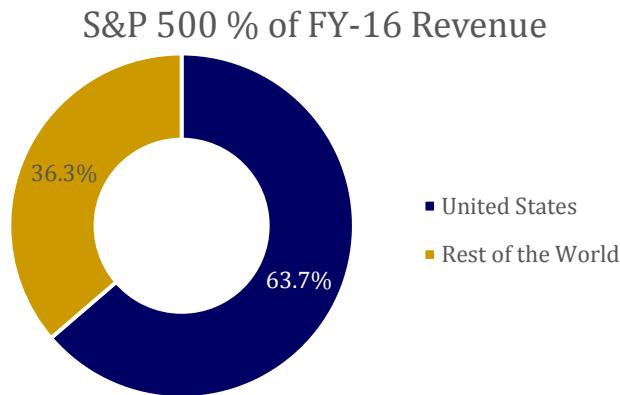




Current Political Climate

Unpredictable Trump Agenda

Trade



Taxes & Regulation

- Trump Tax Plan:
 - 35% to 15% corporate taxes
 - 7 to 3 Income Brackets with top at 35%
- CBO: Trump Tax Plan +\$10T to the Federal Deficit
- Dismantle CFPB in the Federal Courts
- Major cuts EPA

Infrastructure

- Election called for \$1.0T - \$1.5T stimulus package focused on infrastructure
- Tabled the issue until 2018
- Not included in Trump FY-17 Budget submitted to Congress

Healthcare

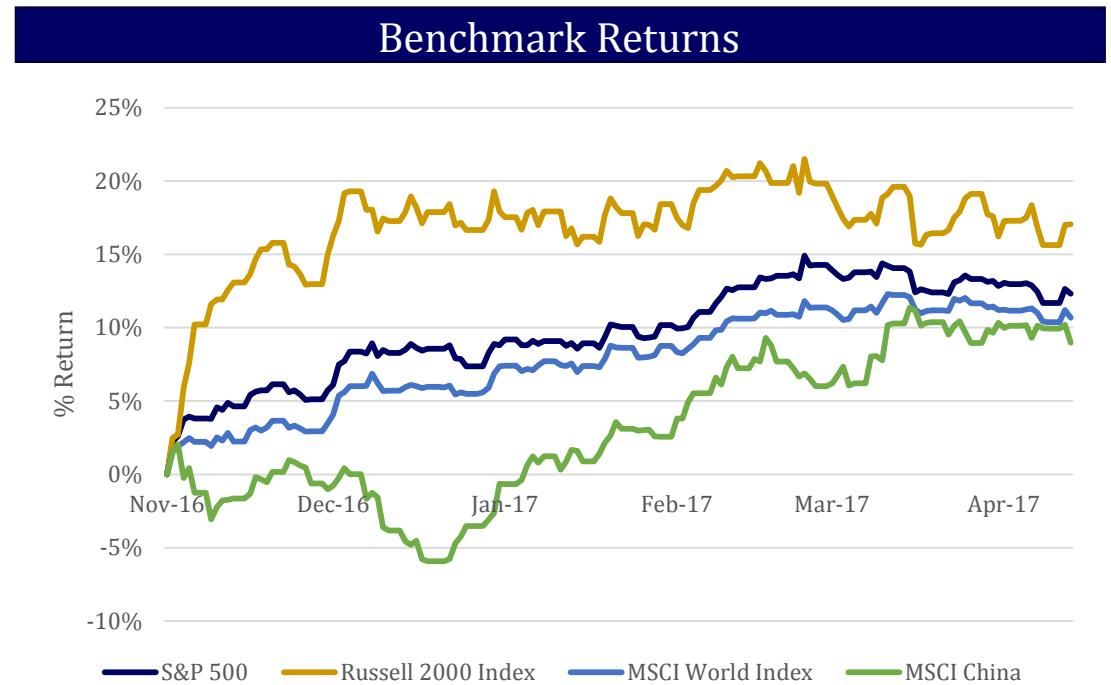
- Push for ACA repeal
- Negotiations directly with pharmaceutical companies
- Ability to buy insurance over state lines
- Ryan pulls AHCA after CBO estimated 24 million would lose coverage
- Strategy of letting Obamacare collapse on itself



Market Reactions

Significant Political Events Driving Industry Performance

Industry Sector	Industry Group	% S&P 500	Election to Mar. 1	Since Mar. 1
Consumer Discretionary	Automobiles and Components	0.6%	15.1%	-8.6%
	Consumer Durables and Apparel	1.3%	4.3%	-1.2%
	Consumer Services	1.7%	18.2%	3.0%
	Media	3.6%	18.1%	0.4%
	Retailing	5.5%	11.1%	0.7%
Consumer Staples	Food and Staples Retailing	2.4%	4.6%	-0.7%
	Food, Beverage and Tobacco	5.8%	6.0%	1.3%
	Household and Personal Products	1.9%	5.3%	-0.3%
Energy	Energy	6.0%	7.8%	-4.0%
Financials	Banks	5.8%	36.9%	-10.6%
	Diversified Financials	5.5%	24.8%	-7.3%
	Insurance	2.5%	16.7%	-4.2%
Healthcare	Healthcare Equipment and Services	5.0%	14.4%	-1.6%
	Pharmaceuticals, Biotechnology and Life Sciences	7.8%	11.5%	-3.8%
Industrials	Capital Goods	6.9%	17.4%	-2.3%
	Commercial and Professional Services	0.6%	12.6%	-1.2%
	Transportation	2.1%	19.6%	-5.6%
Information Technology	Semiconductors and Semiconductor Equipment	3.1%	15.2%	0.9%
	Software and Services	16.0%	11.5%	0.9%
	Technology Hardware and Equipment	5.2%	22.1%	-1.1%
Materials	Materials	2.7%	16.4%	-3.1%
Real Estate	Real Estate	2.9%	8.5%	2.6%
Telecomm	Telecomm	2.2%	10.7%	-2.4%
Utilities	Utilities	3.0%	6.9%	2.0%



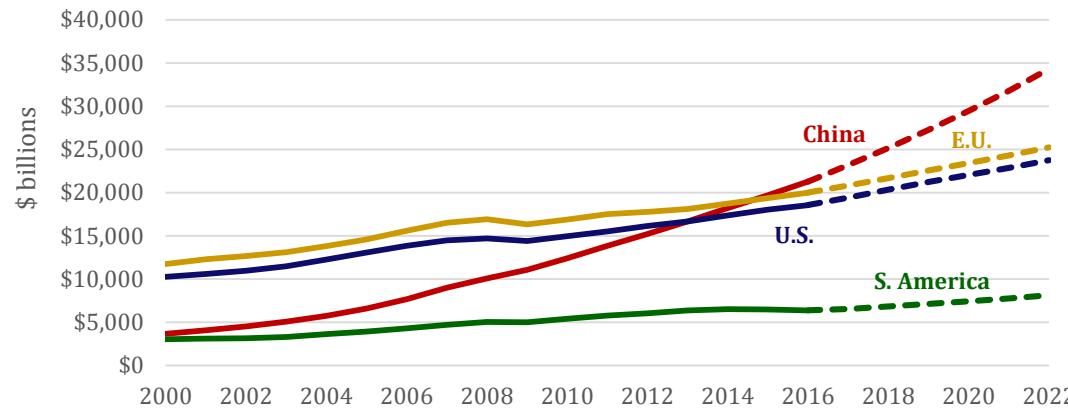
Index	Election to March 1	Since March 1
S&P 500	12.4%	-2.2%
Russell 2000	18.6%	-3.7%
MSCI World	10.1%	-1.0%
MSCI China	5.3%	2.0%

Global Economy

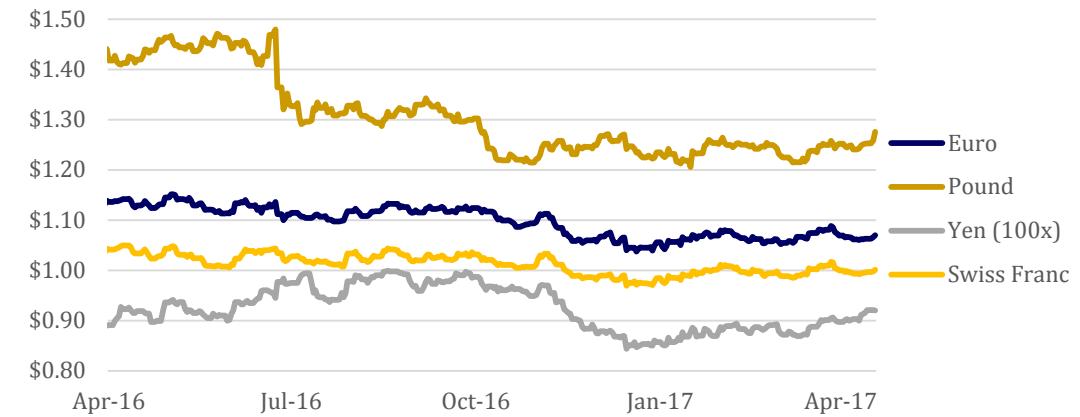
Consistent Growth Throughout



IMF Growth Projections



Global Currency Performance vs. USD



Future of the European Union

- Breakup?
 - Rise of the Alt Right
 - French Election R1: Macron: 24.0% | Le Pen: 21.3%
 - Brexit – Target 2019
 - Surprise Election: June 2017
 - Polling: Conservatives 48% | Labor: 22%
 - Economy stabilized since exit vote

Economic Overview

- Germany & France: consumer confidence & markets climb
- Japan: Slow but consistent (1-2%) economic growth
- China:
 - 6.9% Q1-17 GDP Growth – strong growth in retail
 - Est. \$1.1T in implied capital outflows (08/15 – 12/16)
- India: highs in GDP growth, consumer confidence

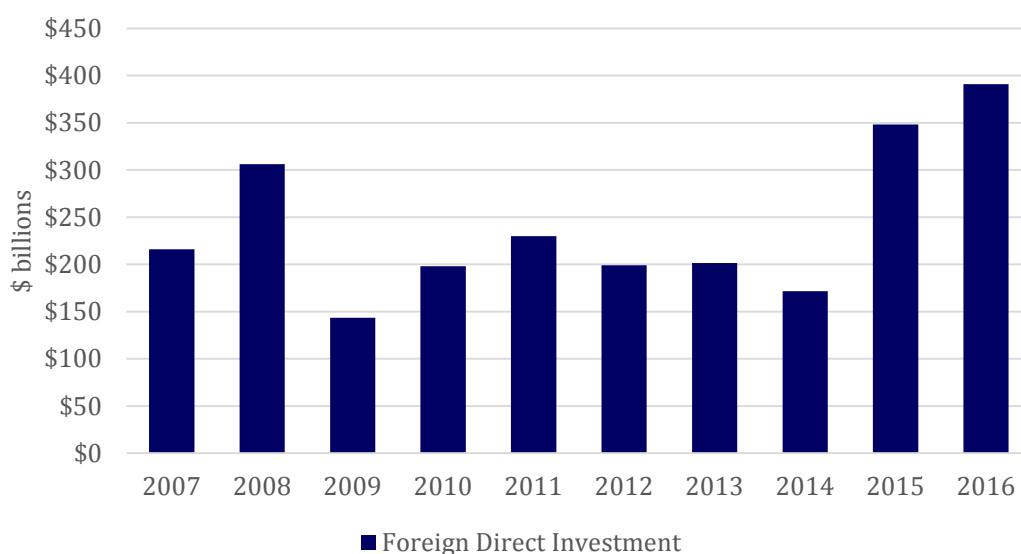


Investment Considerations

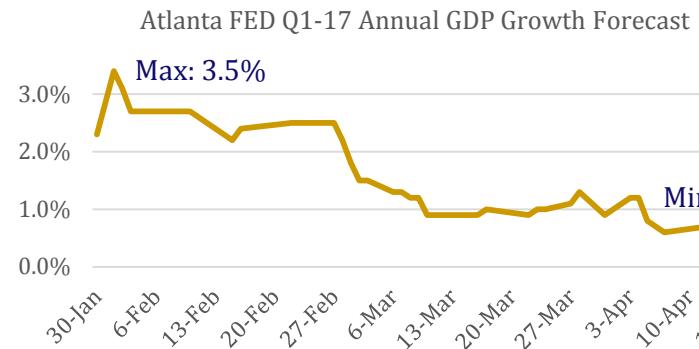
Bull & Bear Indications

Upside

- Increases in employment & disposable income will continue to drive investments & spending
- The Fed is pushing inflation at a conservative pace and continuously adjusting to the political landscape
- Foreign Direct Investment in the United States is at historical highs

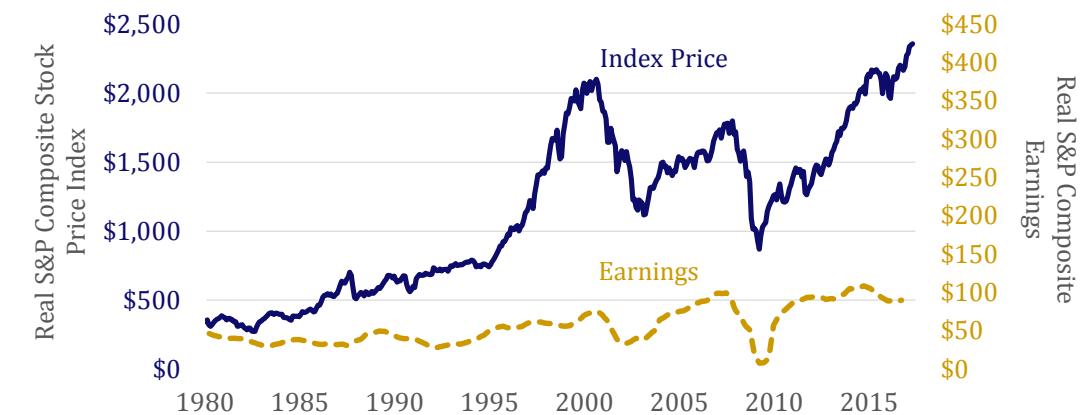


Downside



- Projections:
- S&L: -2.0%
 - PCE: -0.9%
 - Gov.: -0.6%

- *NYT (03/31): "Caution Signals Are Blinking for the Trump Bull Market" - Shiller*



Economic Takeaways

AIM Portfolio Strategies



Diversification

- *Increased our position in Financials & Consumer Discretionary to capture market upside; decreased in Technology, Industrials, and Energy*

Tariff Risk

- *Considered segmented geographic revenue in earnings analysis to account for threats of trade wars*

Trump Bounce

- *Accounted for market upside with projected future returns and the risks presented by potential political events*



UNIVERSITY OF
NOTRE DAME

Portfolio Performance

AIM Portfolio Returns

Risk-Adjusted Performance

Attribution Analysis

Top & Bottom Performers

Portfolio Additions & Deletions

Finalized Portfolio

Portfolio Performance

Key Themes



AIM Portfolio Returns

- *Long-term outperformance muted by near-term underperformance*

Risk-Adjusted Performance

- *Beta to S&P 500 dropped **below 1.0** during last 12 months; Sharpe Ratio below benchmark indices indicates disappointing results for riskiness of portfolio*

Attribution Analysis

- *Allocation effect + Selection effect = Net management effect*

Top and Bottom Performers

- *Consumer Goods at the bottom end of recent performance Technology and Real Estate at the top end of recent performance*

Portfolio Additions and Deletions

- *13 additions and 11 deletions*

Finalized Portfolio

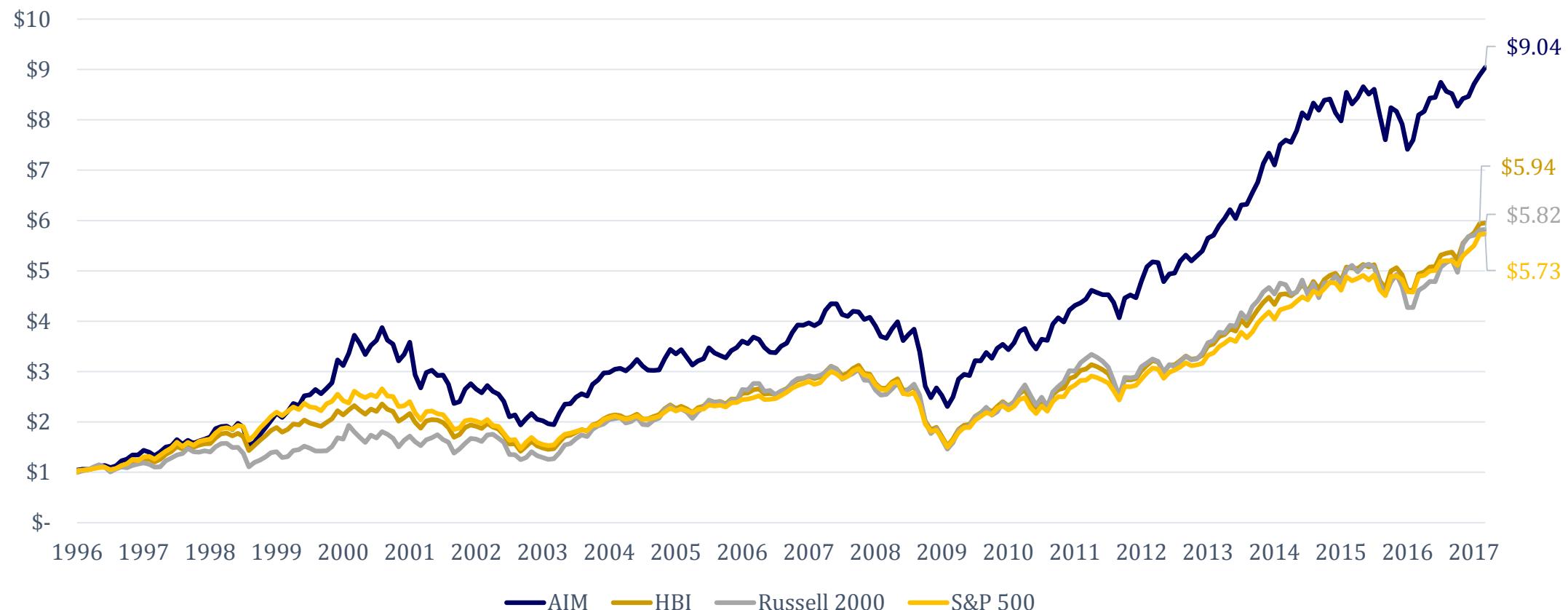
- *Allocation shift toward Consumer Staples, Consumer Discretionary, and Financials, away from IT and Industrials*

Portfolio Performance

Historical Returns Against Benchmarks



Cumulative Return of \$1 Investment Since Inception (as of March 31, 2017)

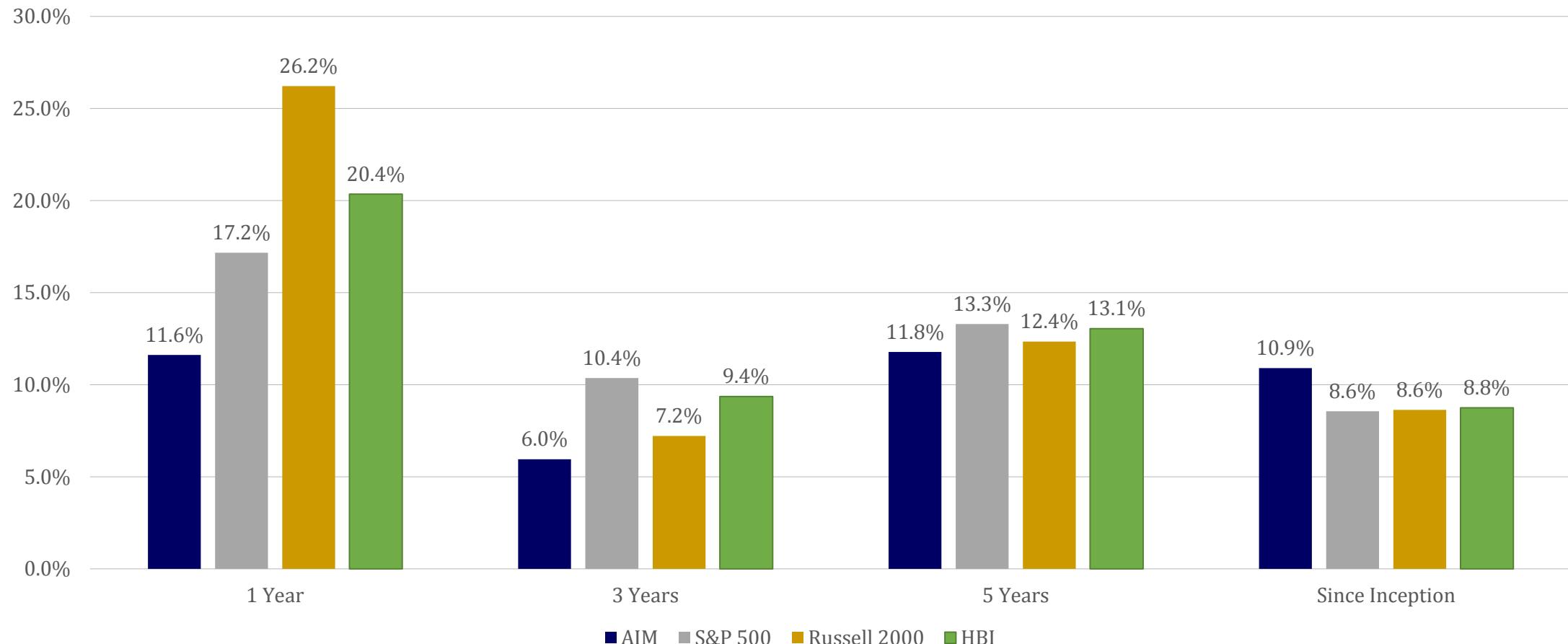


Portfolio Performance

Historical Returns Against Benchmarks



Returns Against Benchmark Indices (as of March 31, 2017)

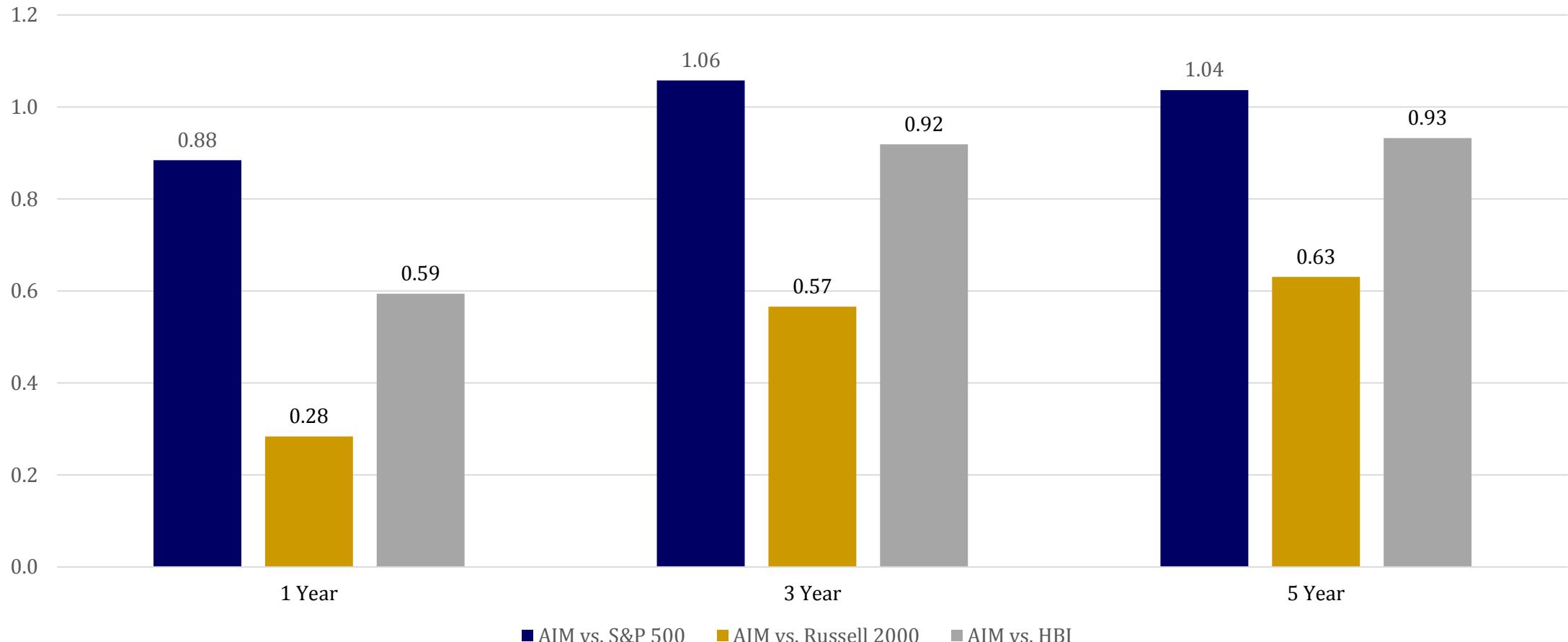


Portfolio Performance

Risk Profile



Beta to Benchmark Indices (as of March 31, 2017)

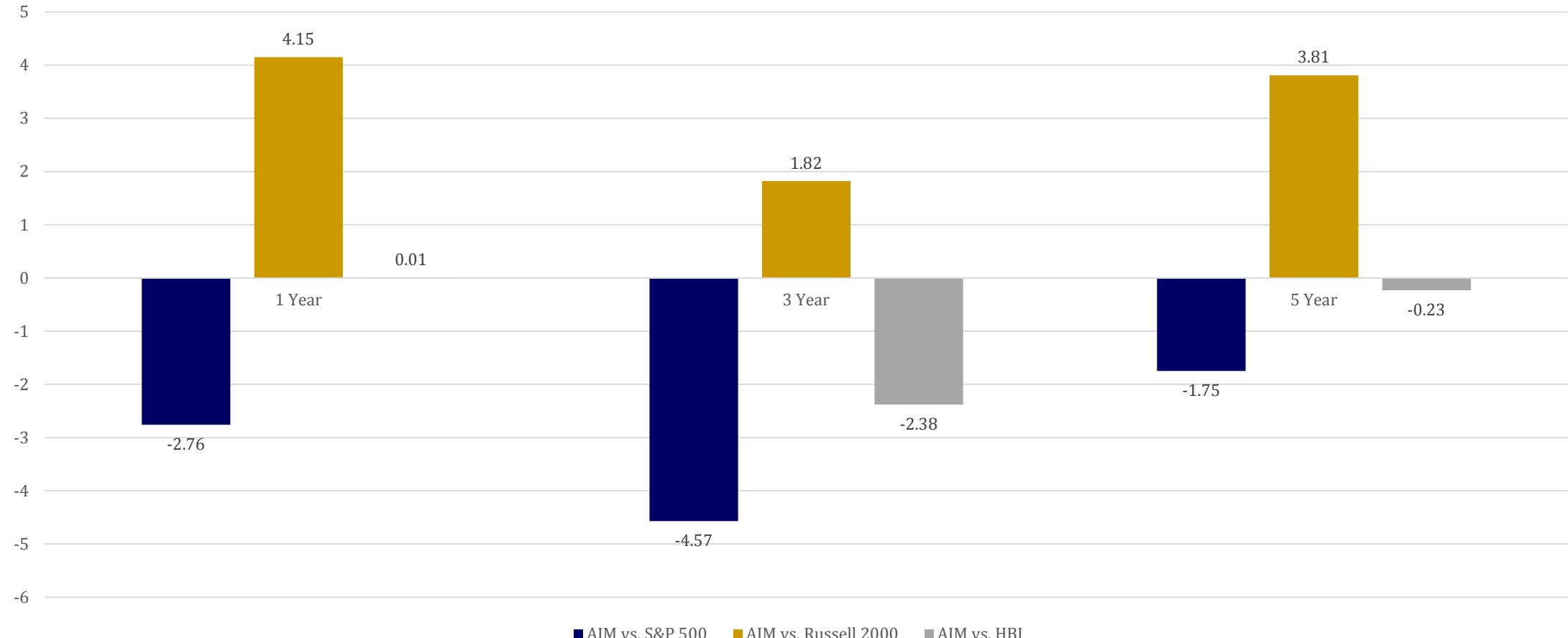




Portfolio Performance

Risk-Adjusted Performance

Jensen's Alpha (as of March 31, 2017)

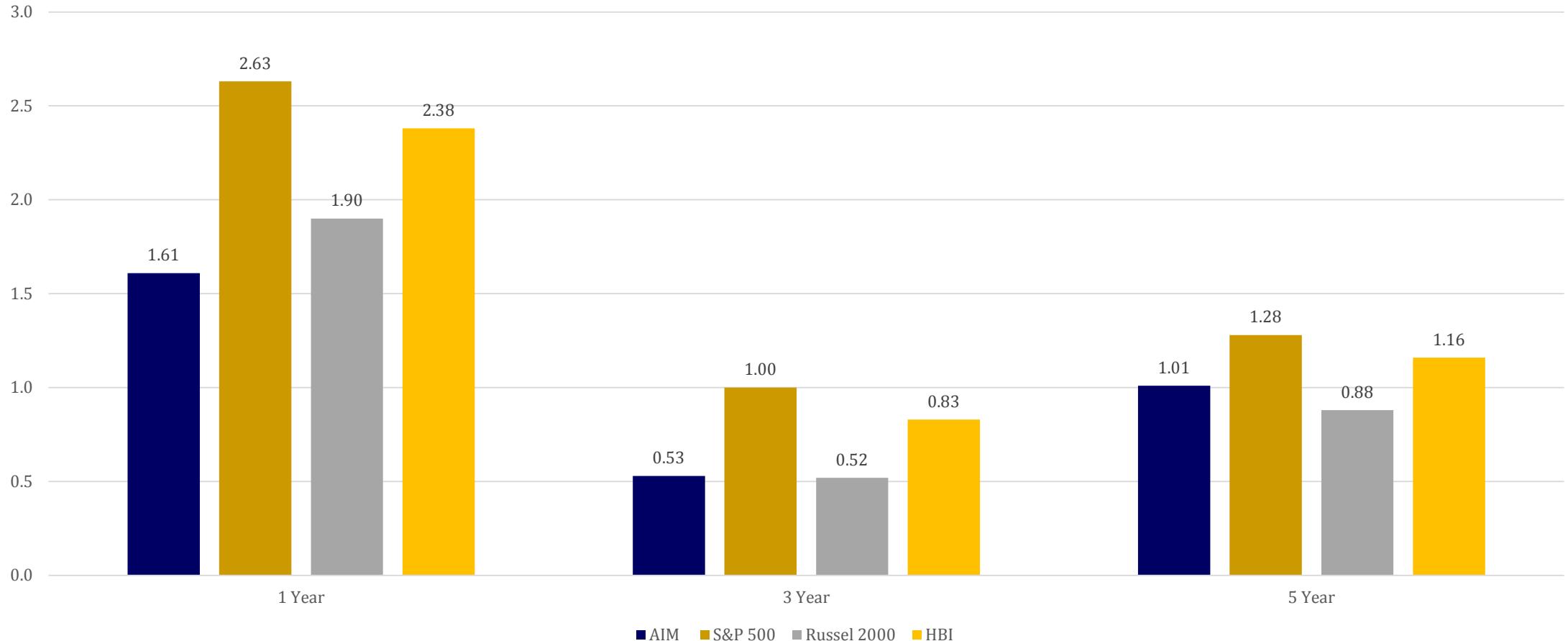




Portfolio Performance

Risk-Adjusted Performance

Sharpe Ratio (as of March 31, 2017)



Portfolio Performance

Key Themes



AIM Portfolio Returns

- *Long-term outperformance muted by near-term underperformance*

Risk-Adjusted Performance

- Beta to S&P 500 dropped **below 1.0** during last 12 months; Sharpe Ratio below benchmark indices indicates disappointing results for riskiness of portfolio

Attribution Analysis

- *Allocation effect + Selection effect = Net management effect*

Top and Bottom Performers

- **Consumer Goods** at the bottom end of recent performance **Technology and Real Estate** at the top end of recent performance

Portfolio Additions and Deletions

- **13 additions and 11 deletions**

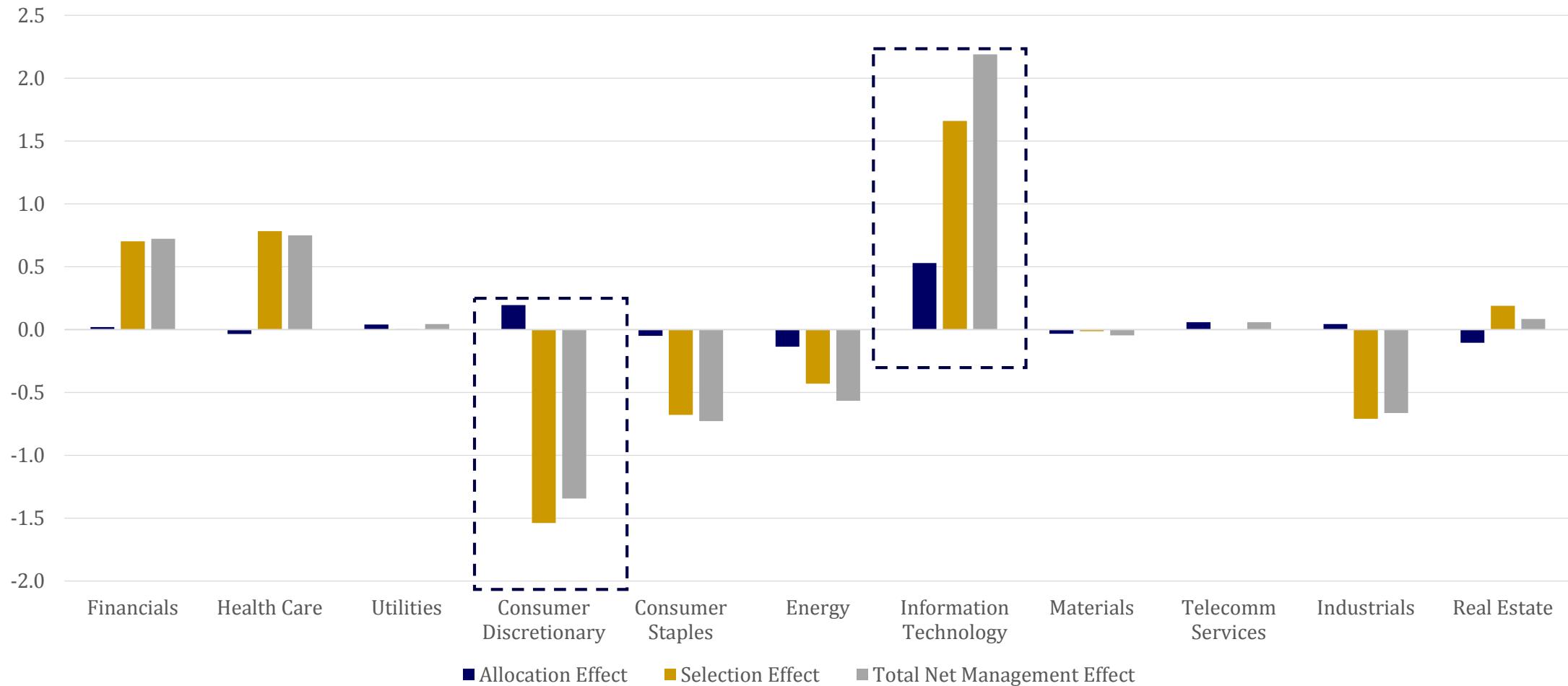
Finalized Portfolio

- Allocation shift toward **Consumer Staples, Consumer Discretionary, and Financials**, away from **IT and Industrials**



Portfolio Performance

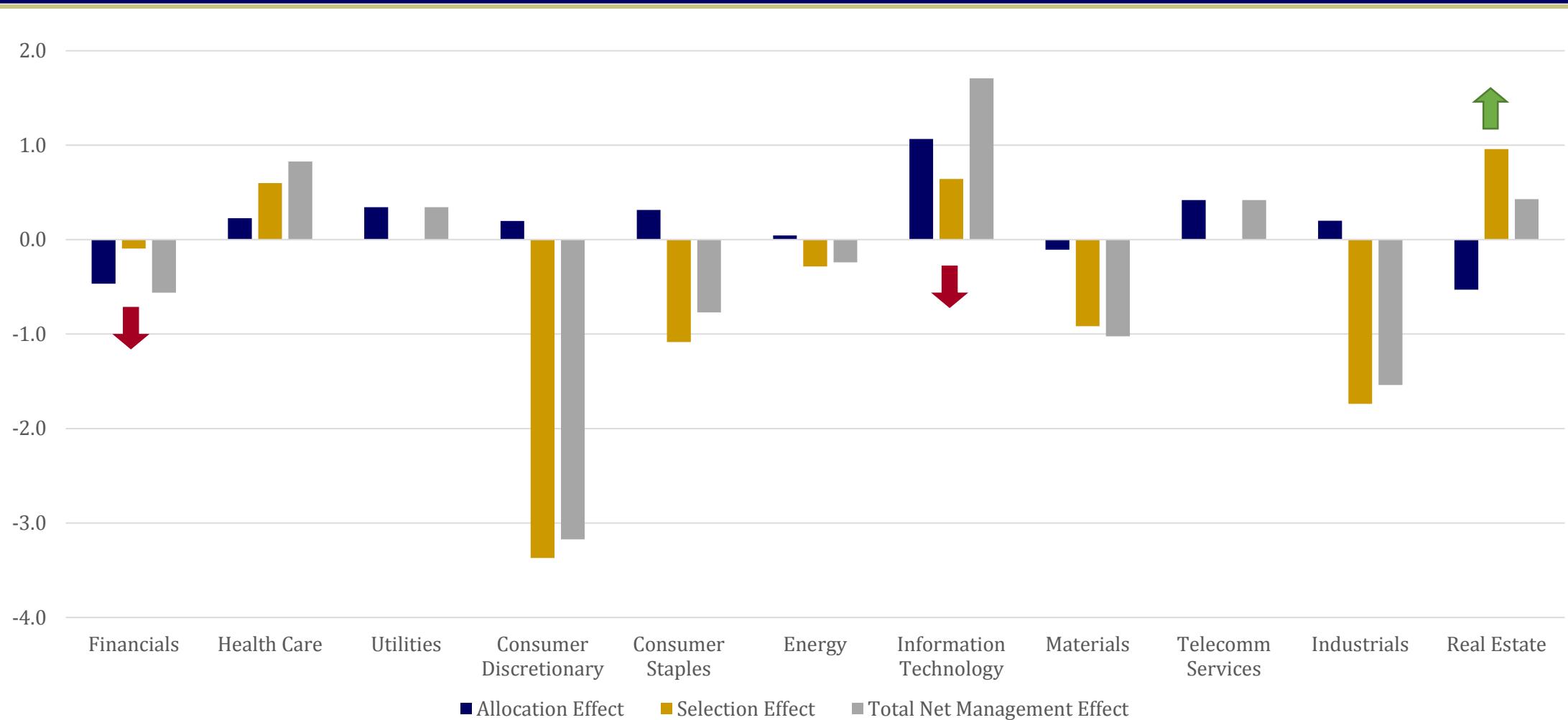
Attribution Analysis: 5-Year Annualized





Portfolio Performance

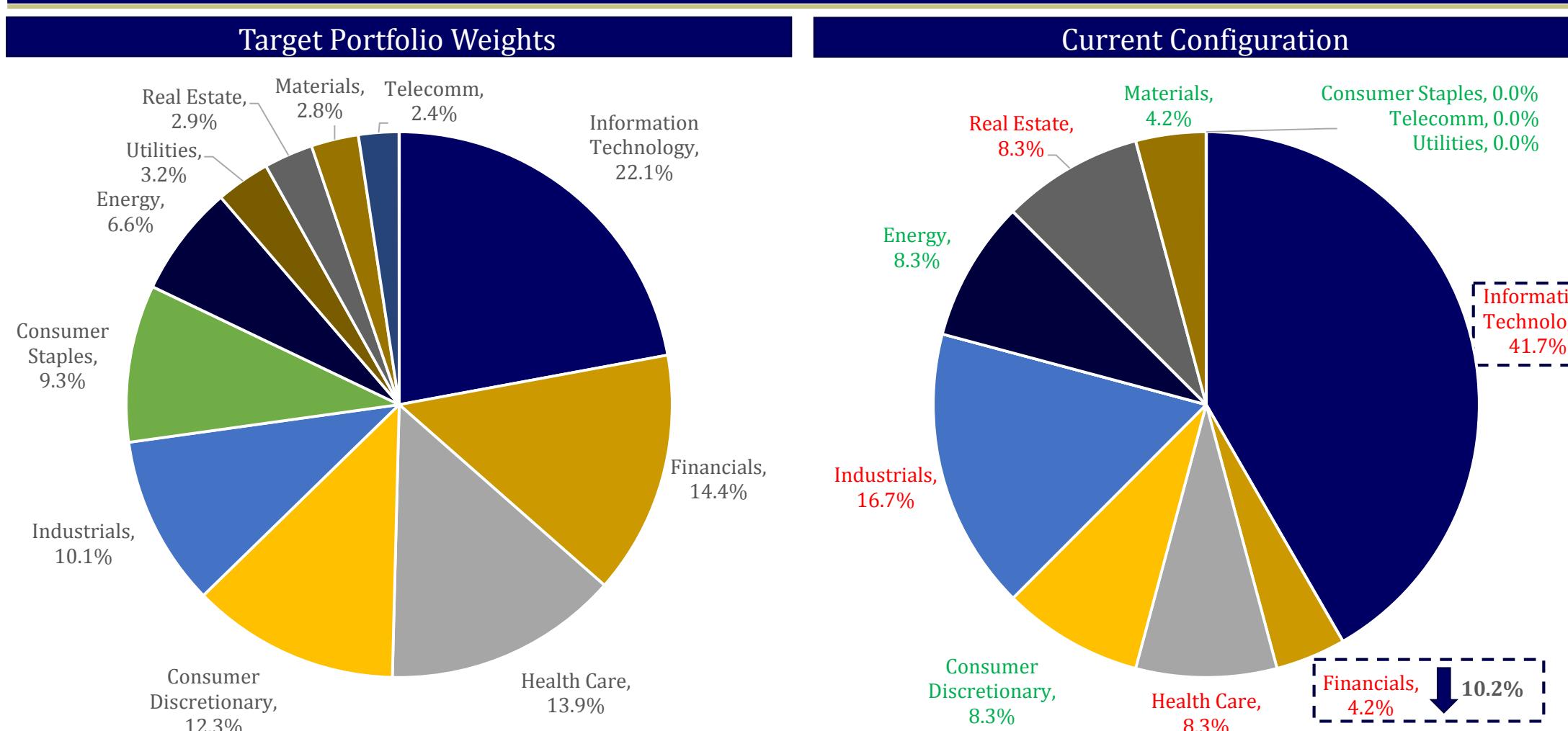
Attribution Analysis: 1-Year Annualized





Portfolio Performance

Target Weighting



Source: S&P Global, BNY Mellon Statements

Note: Green indicates current compliance and red indicates incompliant



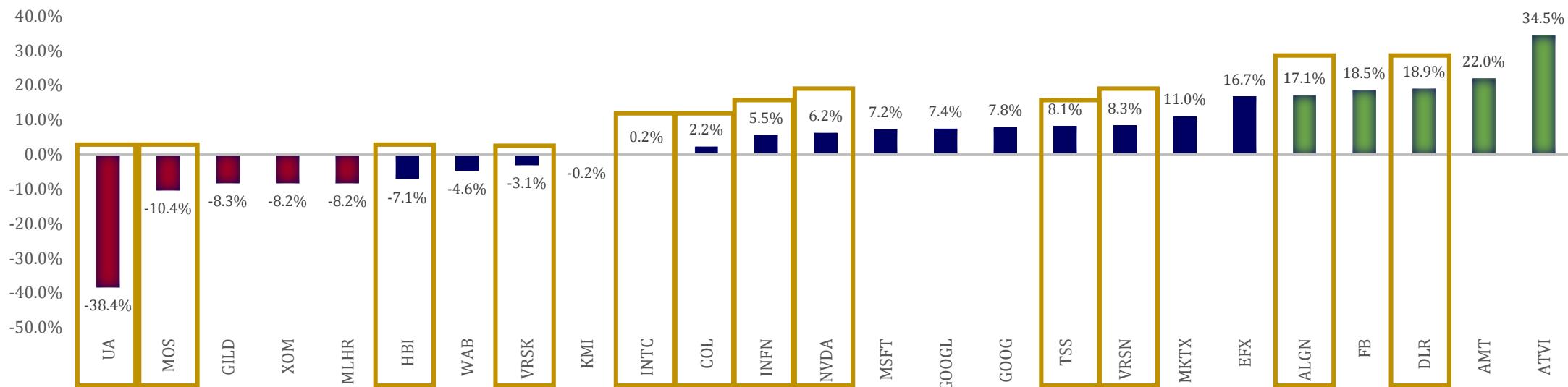
Portfolio Performance

Top and Bottom Performers: Holding Period Return

Top 5 Performers		
Company	Industry	Return
Activision Blizzard	Technology	34.51%
American Tower	Real Estate	21.95%
Digital Realty Trust	Real Estate	18.88%
Facebook	Technology	18.54%
Align Technology	Healthcare	17.14%

Bottom 5 Performers		
Company	Industry	Return
Under Armour	Consumer Goods	-38.38%
Mosaic	Basic Materials	-10.40%
Gilead Sciences	Healthcare	-8.28%
ExxonMobil	Energy	-8.23%
Herman Miller	Consumer Goods	-8.22%

PERFORMANCE SINCE DECEMBER 7, 2016



Stocks added by AIM XLIII on December 7, 2016

Portfolio Performance

Key Themes



AIM Portfolio Returns

- *Long-term outperformance muted by near-term underperformance*

Risk-Adjusted Performance

- Beta to S&P 500 dropped **below 1.0** during last 12 months; Sharpe Ratio below benchmark indices indicates disappointing results for riskiness of portfolio

Attribution Analysis

- *Allocation effect + Selection effect = Net management effect*

Top and Bottom Performers

- **Consumer Goods** at the bottom end of recent performance **Technology and Real Estate** at the top end of recent performance

Portfolio Additions and Deletions

- **13 additions and 11 deletions**

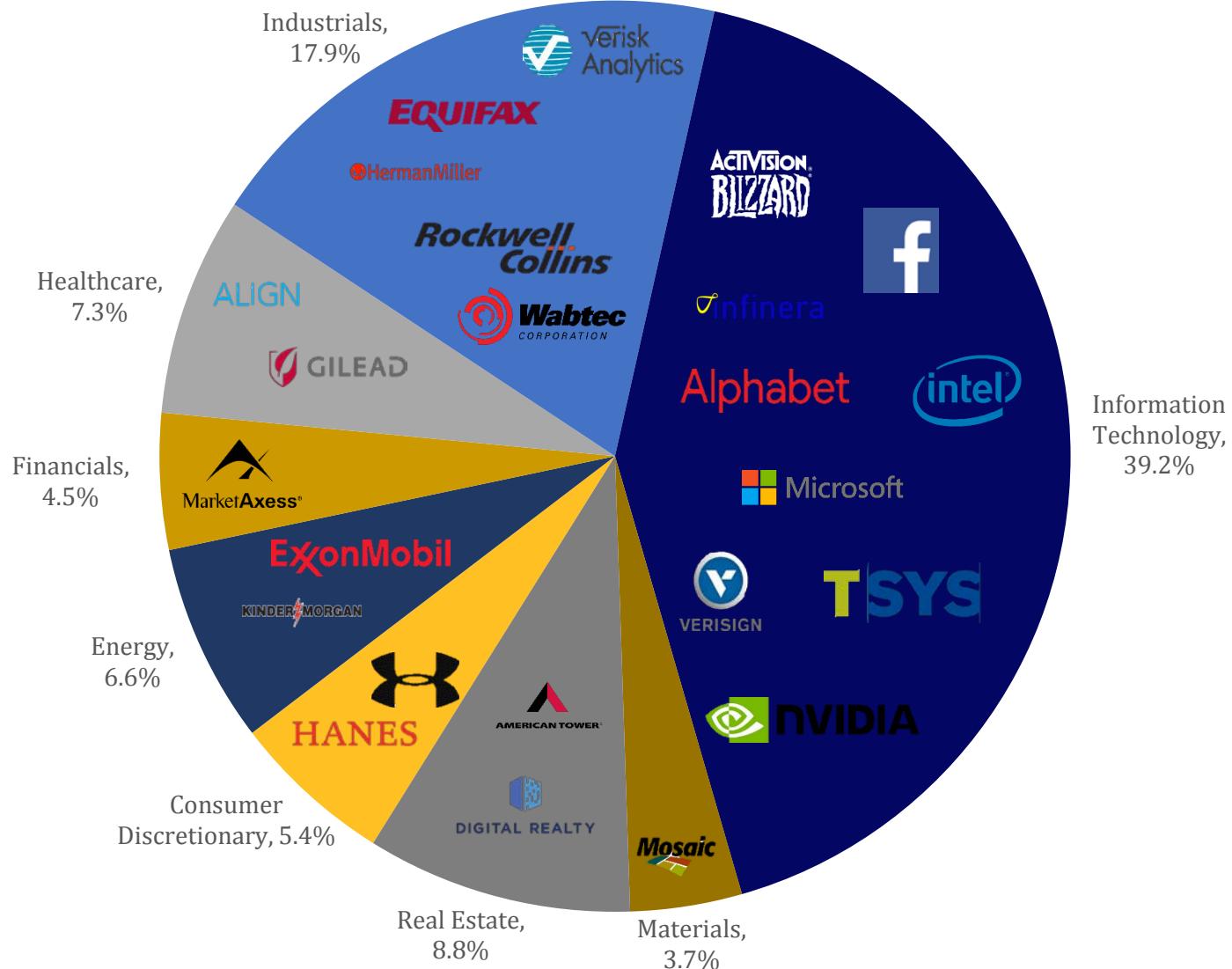
Finalized Portfolio

- Allocation shift toward **Consumer Staples, Consumer Discretionary, and Financials**, away from **IT and Industrials**



Portfolio Performance

Allocation: Inherited Portfolio



Portfolio Performance

Additions and Deletions



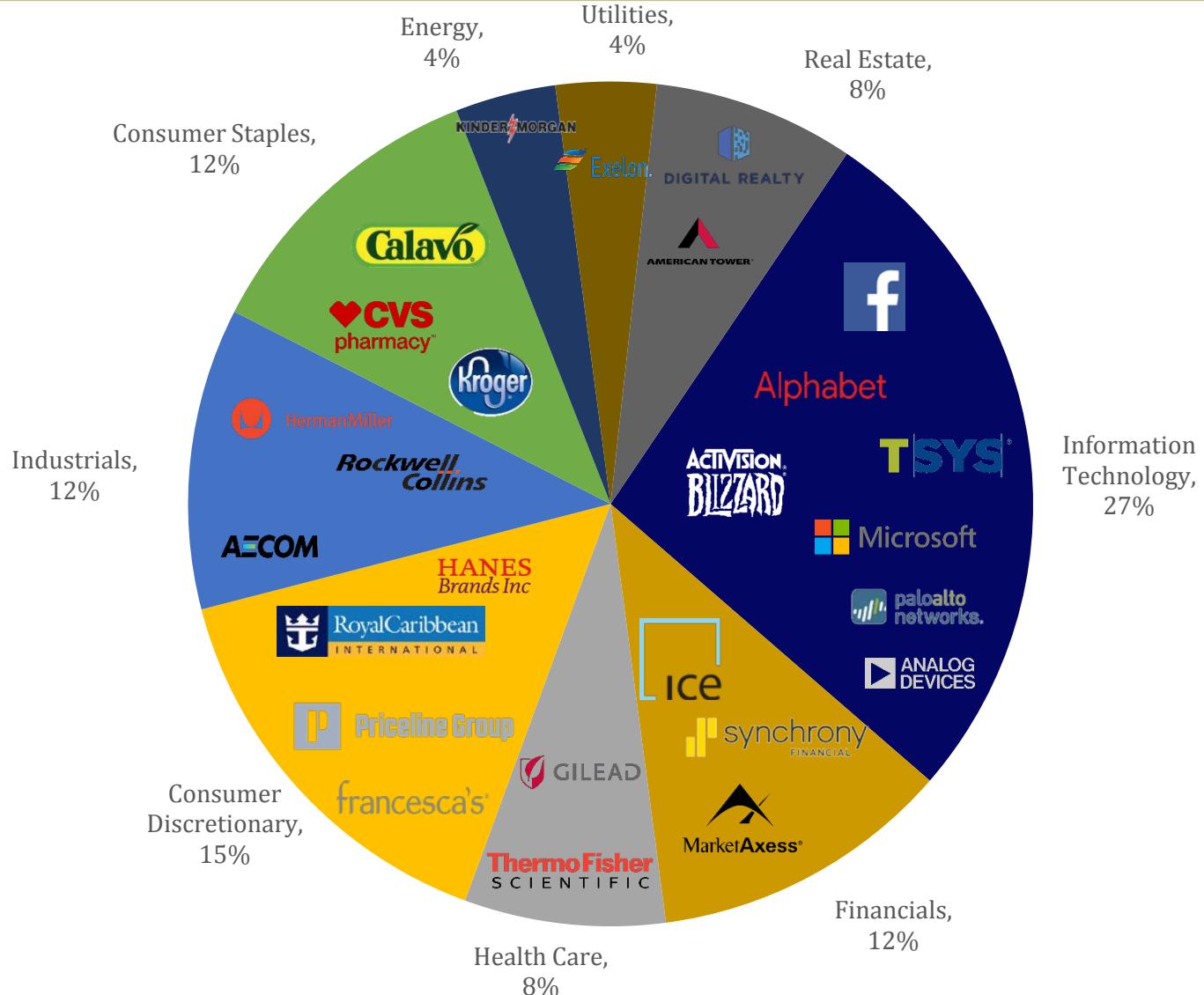
Portfolio Additions	
Company	Industry
Royal Caribbean	Consumer Discretionary
Priceline	Consumer Discretionary
Francesca's	Consumer Discretionary
CVS	Consumer Staples
Kroger	Consumer Staples
Calavo Growers	Consumer Staples
ICE	Financials
Synchrony Financial	Financials
Thermo Fisher Scientific	Healthcare
AECOM	Industrials
Analog Devices	Technology
Palo Alto Networks	Technology
Exelon	Utilities

Portfolio Deletions	
Company	Industry
Hanesbrands	Consumer Discretionary
Exxon Mobil	Energy
Align Technology	Healthcare
Verisk Analytics	Industrials
Equifax	Industrials
Westinghouse Airbrake	Industrials
Mosaic Company	Materials
Nvidia	Technology
Intel	Technology
Infinera	Technology
Verisign	Technology



Portfolio Performance

Allocation: AIM XLIV Portfolio

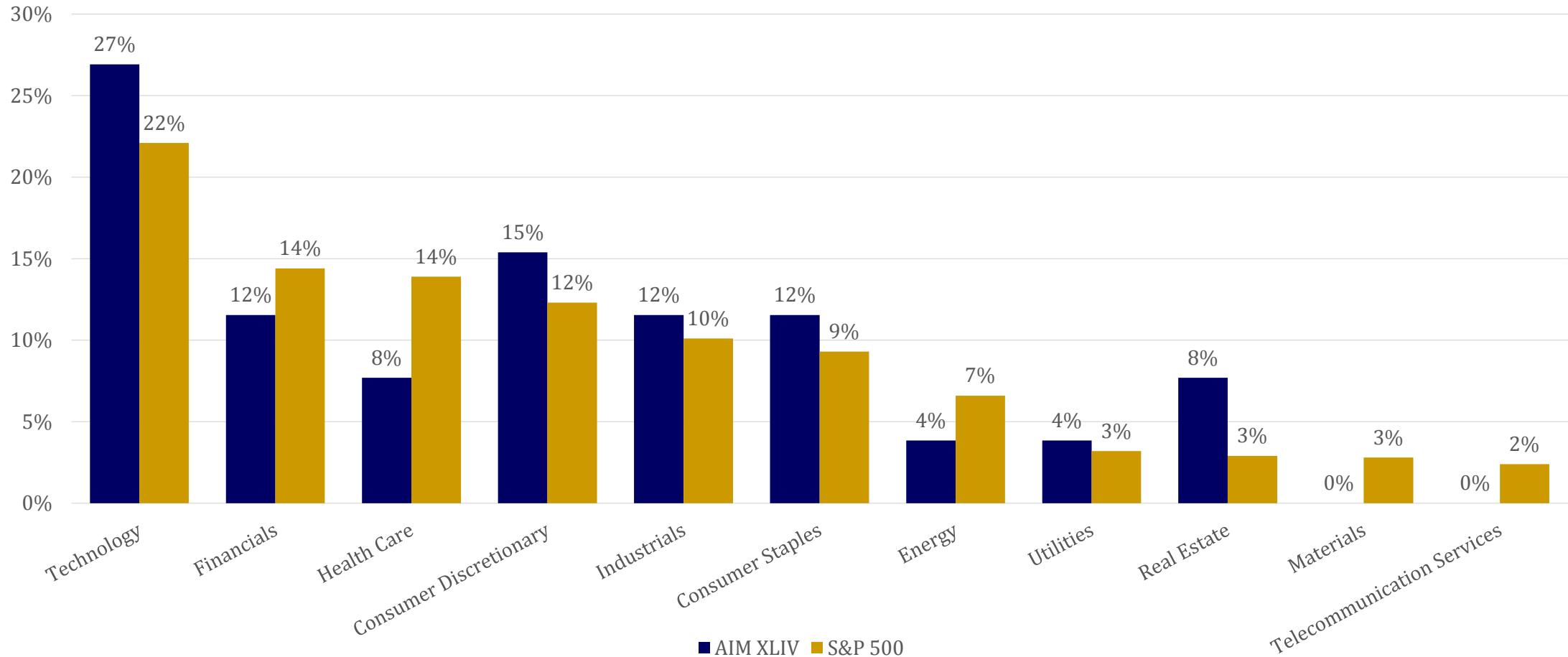


Portfolio Performance

Sector Allocation



AIM XLIV Final Portfolio vs. S&P 500 (As of April 18, 2017)



Portfolio Performance

Key Takeaways



AIM Portfolio Returns

- *Long-term outperformance muted by near-term underperformance*

Risk-Adjusted Performance

- Beta to S&P 500 dropped **below 1.0** during last 12 months; Sharpe Ratio below benchmark indices indicates disappointing results for riskiness of portfolio

Attribution Analysis

- Allocation effect + Selection effect = Net management effect

Top and Bottom Performers

- **Consumer Goods** at the bottom end of recent performance **Technology and Real Estate** at the top end of recent performance

Portfolio Additions and Deletions

- **13 additions and 11 deletions**

Finalized Portfolio

- Allocation shift toward **Consumer Staples, Consumer Discretionary, and Financials**, away from **IT and Industrials**



UNIVERSITY OF
NOTRE DAME

Security Analysis

Company & Industry Overview

Fundamental Analysis

Discovery

Earnings Analysis

Beta Analysis

Relative Valuation

Discounted Cash Flow Valuation

Alternative Valuation

Course Overview

Portfolio Selection Process



Methodology		Process									
<ul style="list-style-type: none">Investment committee-based processMultiple portfolios considered22 equal votes		<ul style="list-style-type: none">2-minute “quick pitch”Initial round voting – 80% thresholdActively updated:<ul style="list-style-type: none">Portfolio allocations vs. S&P 500Small/Mid/Large cap mixSecond round voting – filled last third of open slots									

Stock	Ticker	Analyst	Sector	Market Cap	Current Portfolio?	Rec	Target Price	Round 1 Yes	Round 1 No	%	Round 2 Yes	Round 2 No
Exxon Mobil	XOM	Jason Davis	Energy	Large	Yes	Sell	\$ 83.17	8	14	36%		22
Facebook	FB	Sam Chitrit	Technology	Large	Yes	Buy	\$ 166.87	21	1	95%		
Francesca's	FRAN	Garrett Logan	Consumer Discretionary	Small	No	Buy	\$ 21.34	14	8	64%	13	9
Gilead Sciences	GILD	Silei Li	Healthcare	Large	Yes	Buy	\$ 91.79	16	6	73%		
Hanesbrands	HBI	Dylan Koehler	Consumer Discretionary	Mid	Yes	Buy	\$ 29.90	14	8	64%	11	11
Herman Miller	MLHR	Karissa Schuchardt	Industrials	Small	Yes	Hold	\$ 34.60	11	11	50%	15	7
IBM	IBM	Sean Hanley	Technology	Large	No	Sell	\$ 179.71	0	22	0%		22
ICE	ICE	Ross Zimmerman	Financials	Large	No	Buy	\$ 76.92	19	3	86%		

Security Analysis

Equities & Focus of Analysis



Current Holdings

Company & Industry



Discovery



Earnings



Beta



Discounted Cash Flow



Earnings



Company & Industry



Discounted Cash Flow



Company & Industry



Relative Analysis



Discounted Cash Flow

Alphabet

Technical Analysis



Discounted Cash Flow



Company & Industry



DIGITAL REALTY

MarketAxess Holdings

NYSE: MKTX



Price (as of 4/18/17):	\$183.06
TTM Price-to-Earnings:	56.6x
Market Capitalization:	\$6.9 bn
Dividend Yield:	0.57%
TTM Earnings Per Share:	\$3.35

One-Year Price Chart



Focus

Company & Industry Overview

MarketAxess Holdings

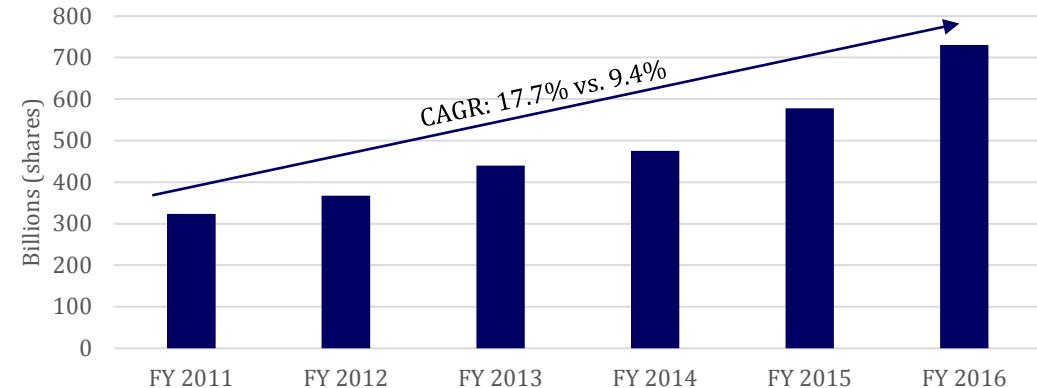
Company & Industry Overview



Industry Background

- Traditionally, big banks provided liquidity by holding bonds on their balance sheets. However, post the 2008 financial crisis the Basel III accord and the Volcker Rule have forced banks to clean up their balance sheets.^{1,2}
- Also, since 80 % of bond trading is carried out on phone investors are looking for alternative platforms in search of liquidity and better price discovery.²

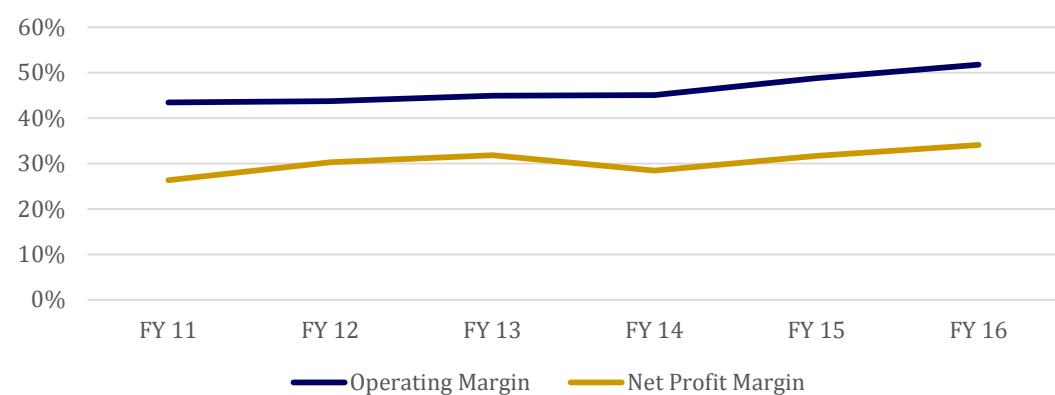
High Grade Trading Volume



Company Background

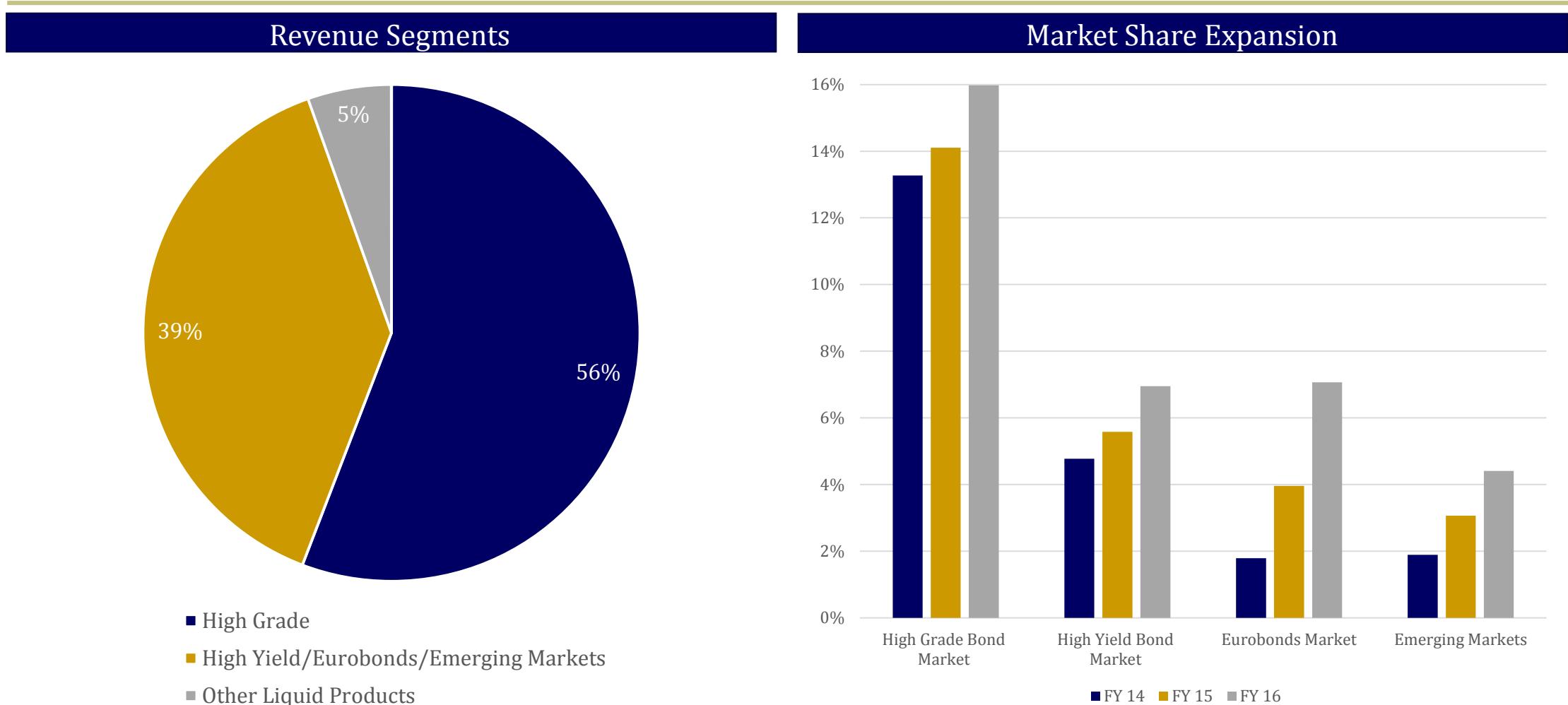
- The firm holds 80 percent market share in the electronic corporate bond trading in US, leading Bloomberg and Tradeweb.³
- The firm has implemented the RFQ platform which allows for online bond trading which reduces the average transaction cost by 3 basis points in yield, or \$1,800 per million traded.¹

Historical Margins



MarketAxess Holdings

Company & Industry Overview



MarketAxess Holdings

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Retain	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	100%	\$229.00	\$229.00
Forward P/E	0%	\$146.00	\$0.00
Forward EV/EBITDA	0%	\$91.00	\$0.00
LTM EV/Sales	0%	\$74.00	\$0.00
Intrinsic Value			\$229.00
Price (as of April 18, 2017)			\$183.06
Estimated Upside / (Downside)			25.1%

Investment Thesis

1. Company is well-positioned for growth with market share growing across each of its product offerings in FY15 and FY16
2. International revenue streams with the Eurobond and Emerging Markets trading volumes growing at 79% and 54%, respectively
3. Current low interest rate environment and the increased volatility in the debt markets, augurs well for corporate bond trading



Price (as of 4/18/17):	\$66.06
TTM Price-to-Earnings:	6.8x
Market Capitalization:	\$86.6 bn
Dividend Yield:	18.20%
TTM Earnings Per Share:	\$10.08

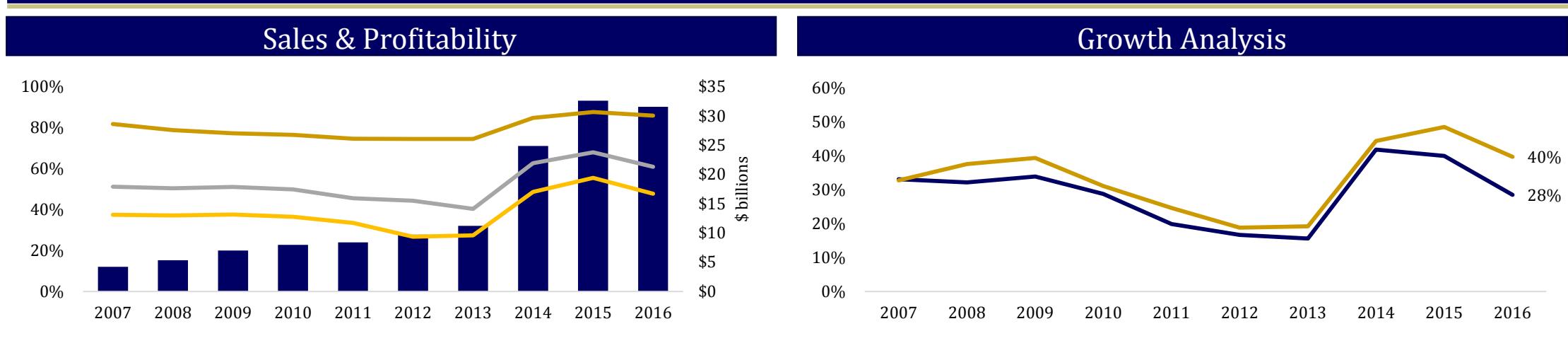


Focus

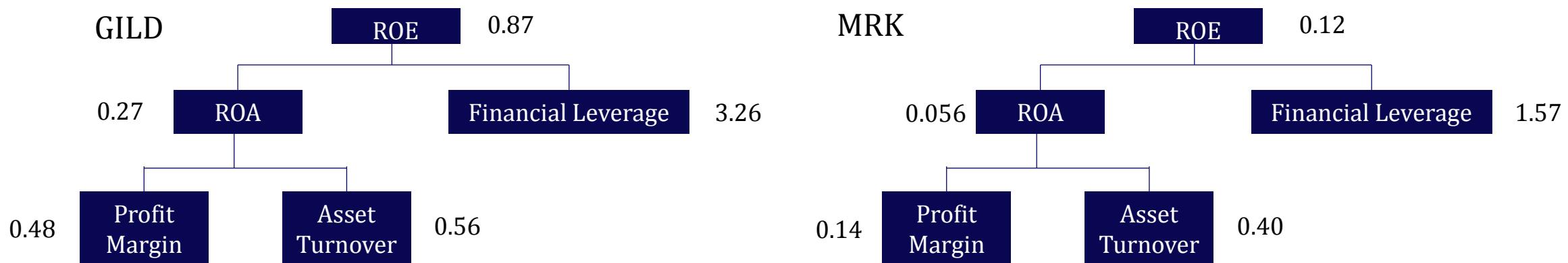
Fundamental Analysis

Gilead Sciences, Inc.

Fundamental Analysis



DuPont Analysis



Gilead Sciences, Inc.

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Retain		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	85%	\$86.08	\$73.17	
Forward P/E	5%	\$121.28	\$6.06	
EV/EBITDA	5%	\$135.30	\$6.76	
EV/Revenue	5%	\$115.87	\$5.79	
Intrinsic Value			\$91.79	
Price (as of April 18, 2017)			\$66.06	
Estimated Upside / (Downside)			38.9%	

Investment Thesis

1. The competitive advantages of Gilead Sciences lie in strong R&D capability and healthy product pipeline.
2. The strong cash flow and healthy financial position supports continuous R&D activities and potential acquisitions.
3. Gilead Sciences is currently undervalued according to both methods.



HermanMiller

Price (as of 4/18/17):

\$31.25

TTM Price-to-Earnings:

15.1x

Market Capitalization:

\$1.96 bn

Dividend Yield:

2.17%

TTM Earnings Per Share:

\$2.17



Focus

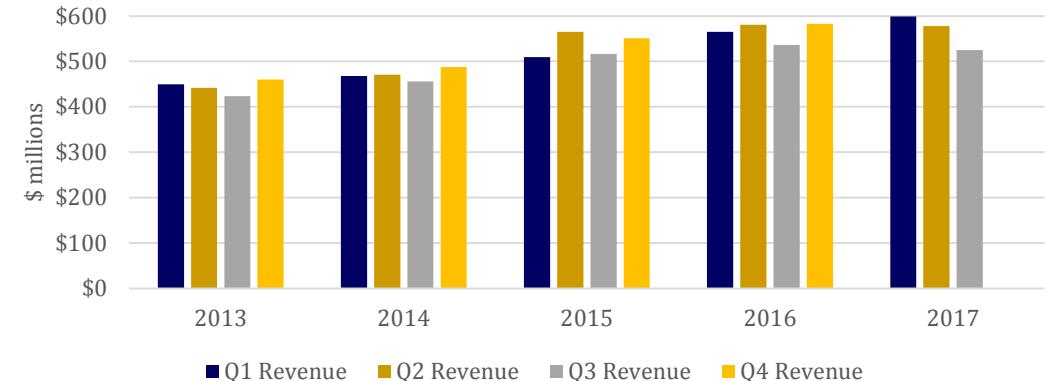
Earnings Analysis



Overview

- Developed EPS forecasts for next two quarters and next two fiscal years using projected financial statements
- Suggests strong seasonality of earnings
- Estimates track with management guidance and street consensus

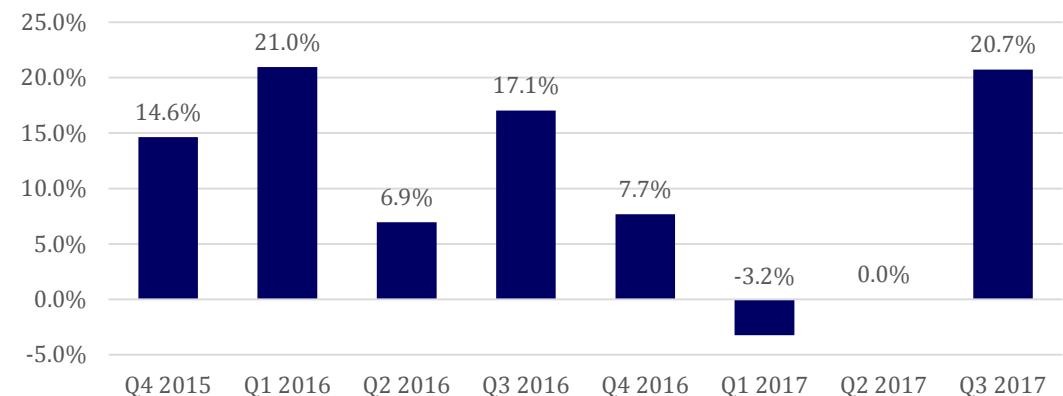
Seasonal Revenue



Pro Forma Assumptions

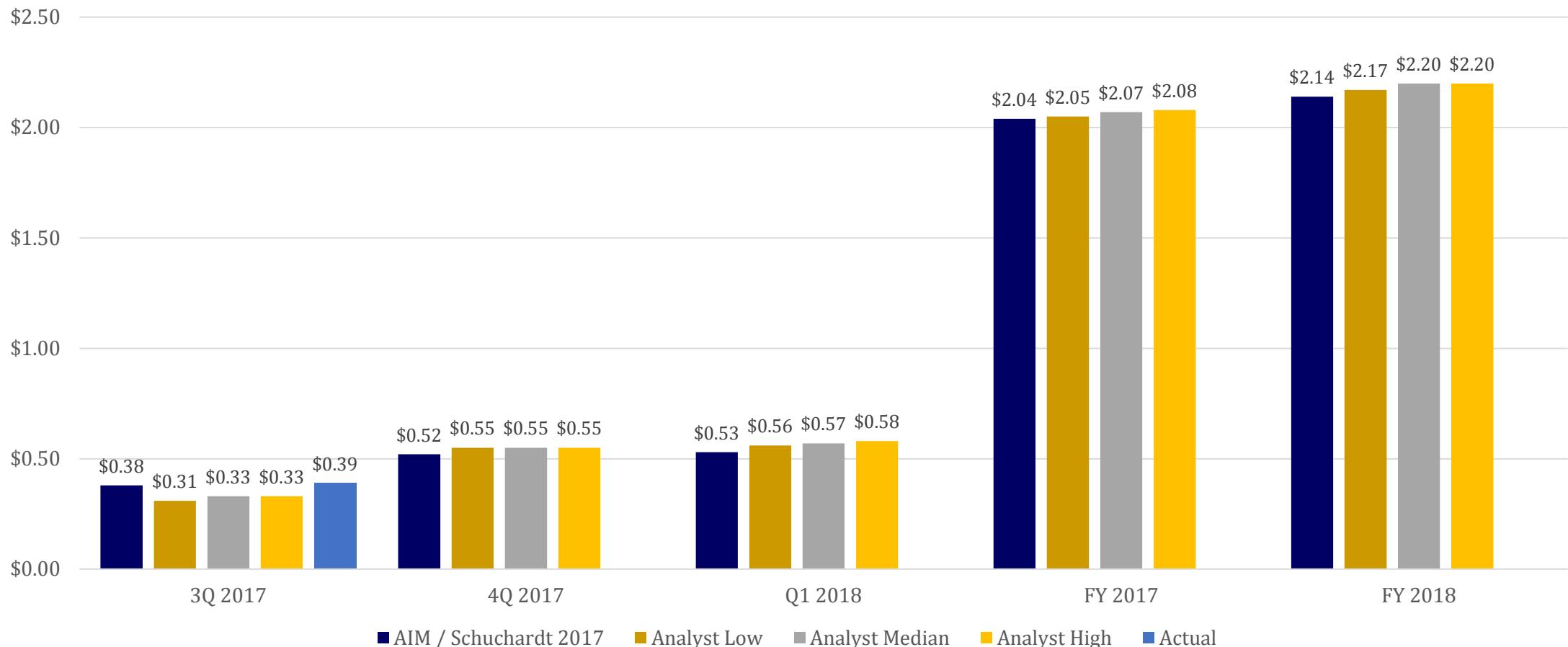
- Seasonal sales drive estimates
- Historical trends as a percentage of sales used for other income statement items
- Consistent turnover ratios based on 10-year annual data
- Balance Sheet values held constant as a percentage of sales

EPS Surprise



Herman Miller

Earnings Per Share Forecast





Recommendation: Neutral		Portfolio Decision: Retain		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	80%	\$34.63	\$27.70	
Forward P/E	6.67%	\$33.27	\$3.33	
Forward EV/EBITDA	6.67%	\$37.68	\$3.77	
Forward P/BV	6.67%	\$32.93	\$2.20	
Intrinsic Value			\$34.60	
Price (as of April 18, 2017)			\$31.25	
Estimated Upside / (Downside)			10.7%	

Investment Thesis

1. Progress on strategic agenda as a global, multi-channel modern lifestyle brand
2. Organic revenue growth supported by expanded retail studio footprint and diversified distribution
3. Continued operational excellence of low fixed costs and lean manufacturing

Activision Blizzard, Inc.

NASDAQ: ATVI



Price (as of 4/18/17):	\$49.17
Market Capitalization:	\$38.6 bn
Dividend Yield:	0.58%
TTM Earnings Per Share:	\$1.28

One-Year Price Chart



Focus

Beta

Activision Blizzard, Inc.

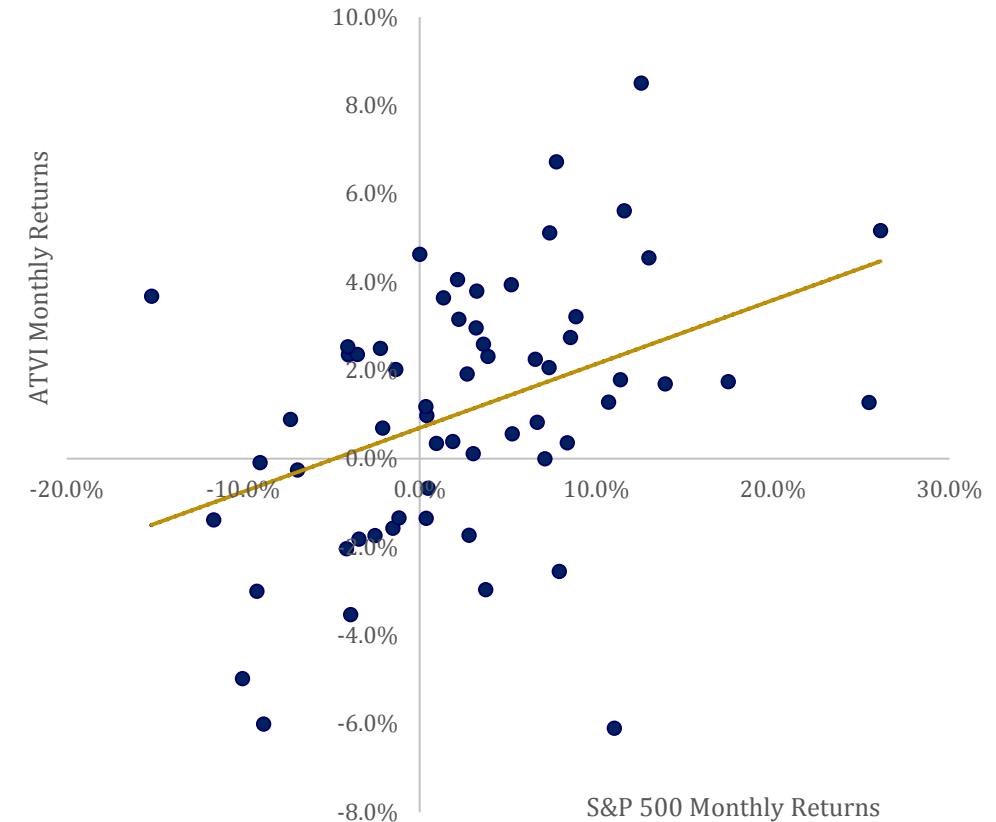
Beta Analysis



Beta Calculation (5-Year)

Regression	Daily	Weekly	Monthly
Calculated	1.04	1.08	1.10
Adjusted for Mean Reversion	1.02	1.05	1.07

Public Estimates	Beta
Bloomberg	1.04
Thomson Reuters	1.09
Google	1.03



Activision Blizzard, Inc.

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Retain		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	85%	\$54.90	\$46.67	
Forward P/E	5%	\$57.98	\$2.90	
EV/EBITDA	5%	\$39.04	\$1.95	
P/BV	5%	\$53.74	\$2.69	
Intrinsic Value			\$54.20	
Price (as of April 18, 2017)			\$49.17	
Estimated Upside / (Downside)			10.2%	

Investment Thesis

1. The firm has posted strong early results as a result of its KING acquisition
2. Significant growth rates in international markets (Asia Pacific) have proven promising
3. Company is well-positioned to capture the move to digital-gaming through streamlined content and acquisition activity



Price (as of 4/18/17):	\$116.32
TTM Price-to-Earnings:	49.9x
Market Capitalization:	\$9.5 bn
Dividend Yield:	n/a
TTM Earnings Per Share:	\$2.33

One-Year Price Chart



Focus

Discounted Cash Flow

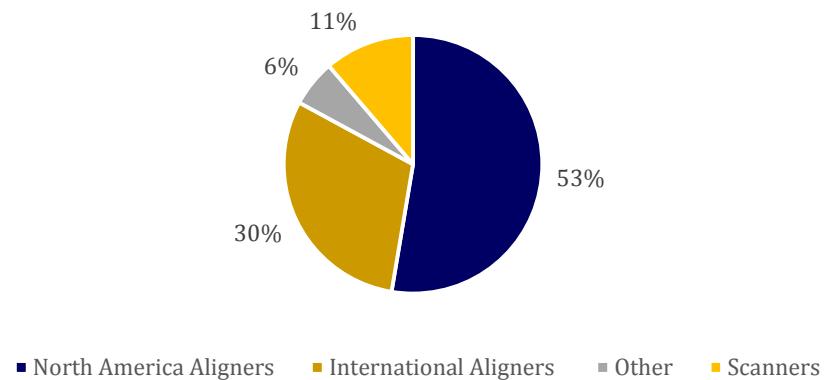
Align Technology

Discounted Cash Flow



Company Facts			Scenario Overview		
<ul style="list-style-type: none"> Competitive advantage mainly reliant on over 400 domestic and 300 foreign patents Key patents will begin to expire in 2017 <ul style="list-style-type: none"> 40 “key early” patents expire in October Management claims competitive advantage will be maintained via “tooth movement” algorithms Maintains significant operations in Mexico and Costa Rica 			<ul style="list-style-type: none"> <u>Best Case Scenario</u> – Management target for operating margin hit. Revenue growth remains high on ability to sustain competitive advantage. No border tax. <u>Base Case Scenario</u> - Margins improve, but miss management guidance or hit at low end of range. Growth is slowed as new players enter market. Border tax equivalent to 5%. <u>Worst Case Scenario</u> - New treatment facilities see no gains in margin improvement. Revenue growth slows as new players enter market. Border tax forces production into the US and ALGN is now taxed at 35%. 		
Share Price Scenario Analysis			FY 2016 Revenue Breakdown		
	Best	Base	Downside		
Share Price	\$143.27	\$101.11	\$69.26		
Probability	30%	60%	10%		
Weighted Average Share Price			\$110.57		
Current Share Price (4/18/17)			\$116.32		
% Implied Premium			(4.9%)		

Source: Company filings, Credit Suisse, William Blair, Piper Jaffray, Tindera “Out of Silicon Valley, A Billion-Dollar Orthodontics Business Built With Plastic And Patents”, AIM/ Larkin 2017



Align Technology

Discounted Cash Flow



Revenue Build							WACC	
	2017	2018	2019	2020	2021	2022	2023	
Revenue	1,252.7	1,434.3	1,620.7	1,807.1	1,987.8	2,156.8	2,307.8	
% Growth	16.0%	14.5%	13.0%	11.5%	10.0%	8.5%	7.0%	
Upside	18.5%	17.0%	15.5%	14.0%	12.5%	11.0%	9.5%	
Base	16.0%	14.5%	13.0%	11.5%	10.0%	8.5%	7.0%	
Downside	13.5%	12.0%	10.5%	9.0%	7.5%	6.0%	4.5%	

Sensitivity Analysis

Weighted Average Cost of Capital						
Terminal Growth Rates	8.9%	9.4%	9.9%	10.4%	10.9%	
	1.5%	\$103.49	\$98.70	\$94.87	\$90.70	\$87.34
	2.0%	\$108.86	\$103.38	\$99.05	\$94.37	\$90.61
	2.5%	\$115.07	\$108.75	\$103.80	\$98.50	\$94.28
	3.0%	\$122.33	\$114.96	\$109.24	\$103.19	\$98.41
	3.5%	\$130.94	\$122.23	\$115.55	\$108.56	\$103.10
	4.0%	\$141.30	\$130.83	\$122.93	\$114.77	\$108.47
	4.5%	\$154.03	\$141.20	\$131.69	\$122.03	\$114.68

Align Technology

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Sell		
Valuation Method	Weight	Valuation	Contribution	
Free Cash Flow to the Firm	80%	\$109.24	\$87.39	
EV/EBITDA	5%	\$82.94	\$4.15	
EV/EBIT	5%	\$100.21	\$5.01	
EV/Sales	5%	\$81.75	\$4.09	
P/E	5%	\$82.79	\$4.14	
Intrinsic Value			\$104.78	
Price (as of April 18, 2017)			\$116.32	
Estimated Upside / (Downside)			(9.9%)	

Investment Thesis

1. Align Technology is a stable company with a bright future, however it is currently overvalued
2. The company's main competitive advantage is in the form of patents, which are beginning to expire
3. Terminal growth rate assumptions are too high at current valuations

Wabtec Corporation

NYSE: WAB



Price (as of 4/18/17):

\$80.70

TTM Price-to-Earnings:

24.1x

Market Capitalization:

\$7.7 bn

Dividend Yield:

0.49%

TTM Earnings Per Share:

\$3.34

One-Year Price Chart



Focus

Earnings

Wabtec Corporation

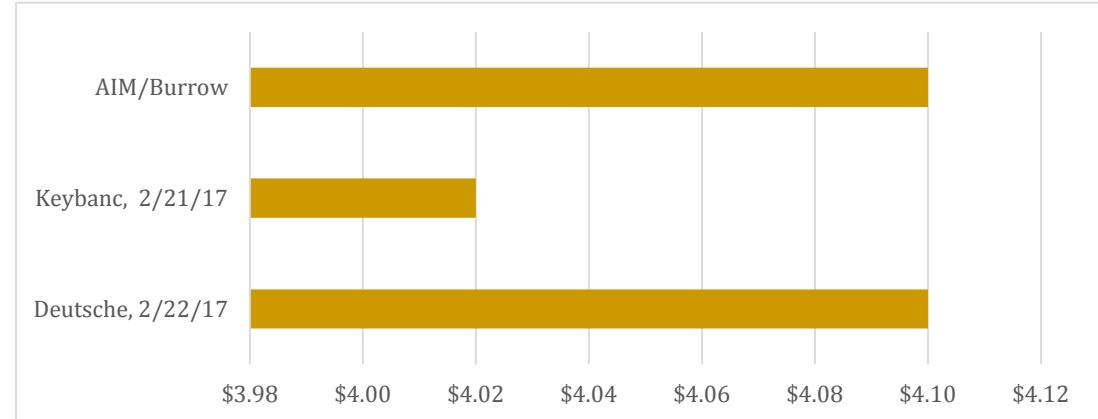
Earnings



Business Overview

- Provider of equipment, systems and value-added services for transit and freight rail
- Recent acquisition of Faiveley Transport, growing revenues by 33%

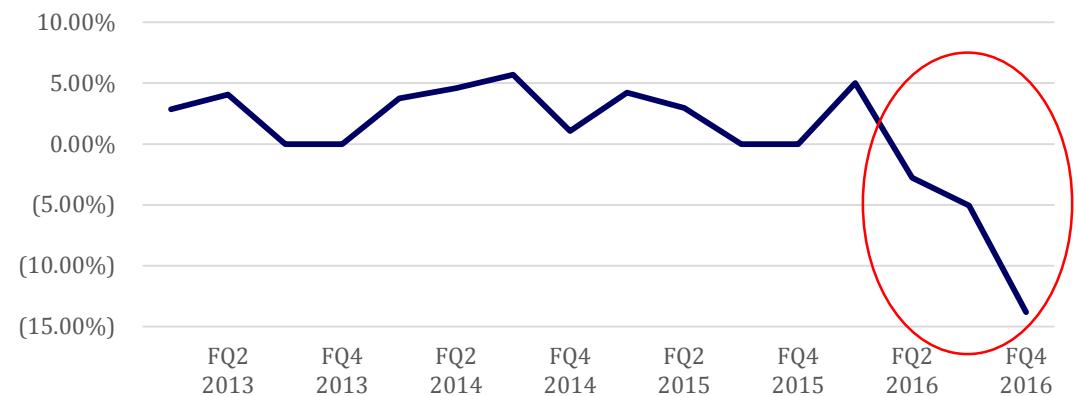
Projected FY17 EPS consistent with analysts



Earnings Analysis Overview

- Projected earnings over the next four quarters using heuristic and pro forma analyses
- Heuristic approach not particularly relevant due to acquisition

Recent Earnings Surprise



Wabtec Corporation

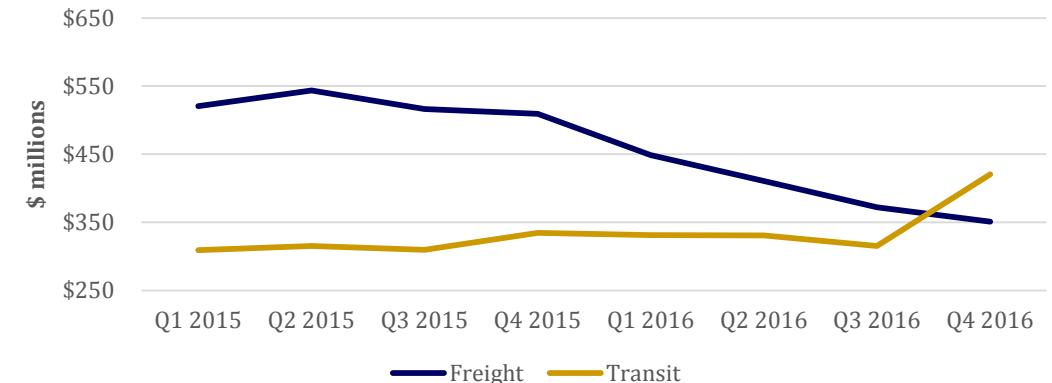
Earnings



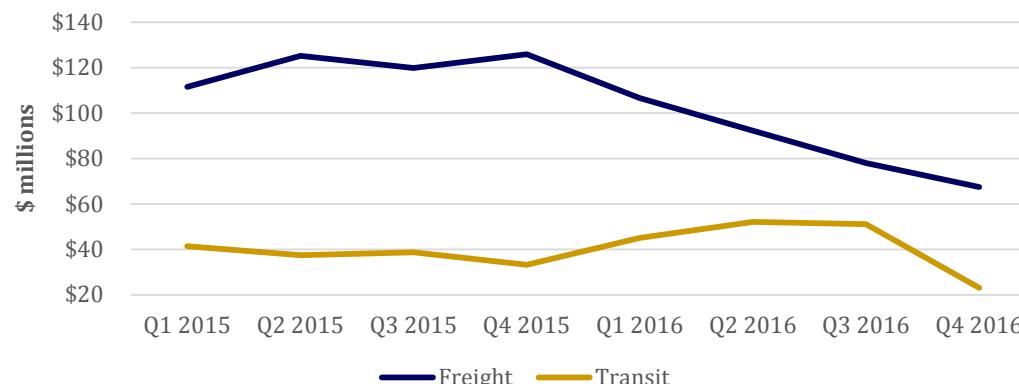
The Story is in the Segments

- Wabtec has seen weakness in its most profitable freight segment
- Slowdown in Positive Train Control Revenues and Overall Freight Market are driving this shift

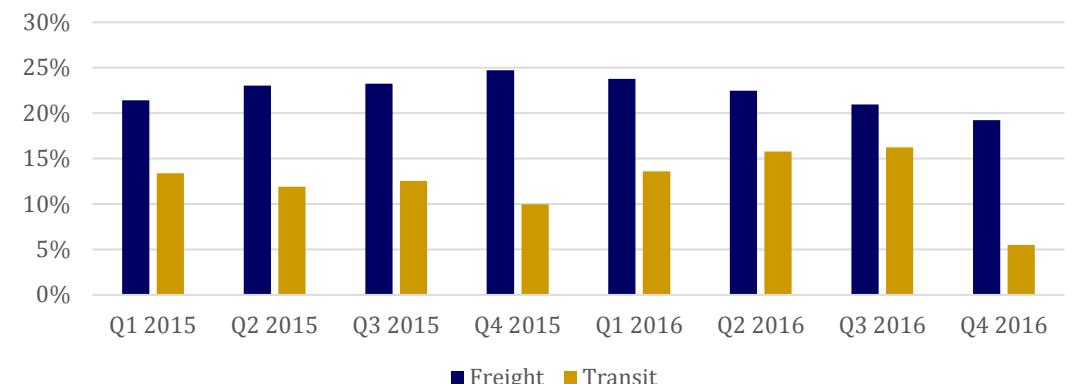
Revenue



Operating Profit



Operating Margin



Wabtec Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Sell	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	\$77.15	100%	\$77.83
Forward EV/EBITDA	\$82.38	0%	\$0.00
Forward P/E	\$82.62	0%	\$0.00
Forward EV/Revenue	\$51.42	0%	\$0.00
Intrinsic Value			\$77.83
Price (as of April 18, 2017)			\$80.70
Estimated Upside / (Downside)			(3.6%)

Investment Thesis

1. Projected continued weakness in high margin freight segment
2. Integration risk of Faiveley Transport Group acquisition
3. Highly susceptible to trade policy & FX (about 2/3 of est. 2017 sales will be from non-USA)

The Mosaic Company

NYSE: MOS



Price (as of 4/18/17):	\$27.04
TTM Price-to-Earnings:	31.9x
Market Capitalization:	\$9.5 bn
Dividend Yield:	2.19%
TTM Earnings Per Share:	\$0.85



Focus

Company & Industry Overview

The Mosaic Company

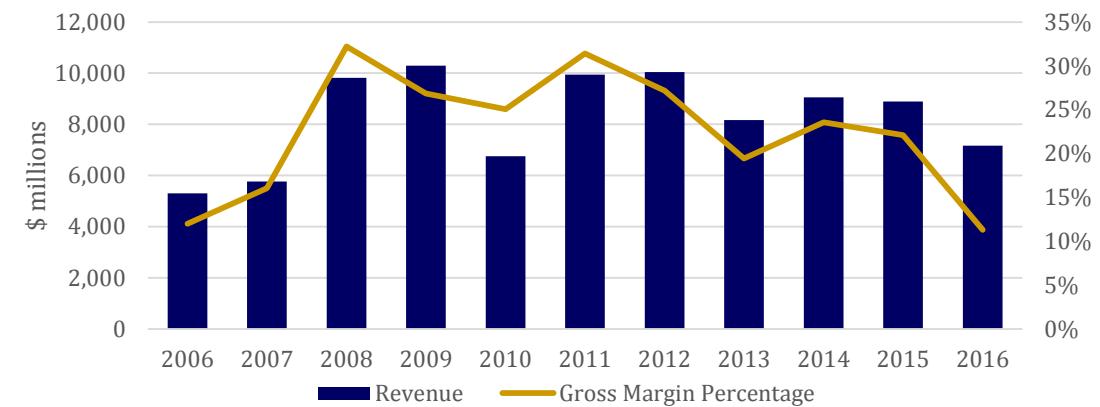
Company & Industry Overview



Highlights

- Global producer and marketer of concentrated phosphate and potash crop nutrients
- Founded in 2004 from IMC Global's fertilizer division and Cargill's crop nutrient division
- Headquartered in Plymouth, MN
- Employs 8,900 people

Financials



Industry

- Expected increase in global demand for crop nutrient products as population increases
- Fluctuating selling prices and input prices makes predictable revenue growth and margin protection difficult
 - Expected normalization of profit margins and selling prices through 2020

Competitors

Agrium

CF Industries®

syngenta

PotashCorp

The Mosaic Company

Valuation, Investment Thesis & Portfolio Decision



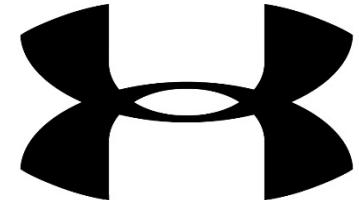
Recommendation: Neutral		Portfolio Decision: Sell		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow (Base)	80%	\$31.85	\$25.48	
Discounted Cash Flow (Upside)	10%	\$44.26	\$4.43	
Discounted Cash Flow (Downside)	8%	\$12.25	\$0.98	
EV/EBITDA	2%	\$36.26	\$0.73	
Intrinsic Value			\$31.61	
Price (as of April 18, 2017)			\$27.04	
Estimated Upside / (Downside)			16.9%	

Investment Thesis

1. MOS is subject to seasonal demand for its products within a volatile cyclical commodity industry
2. Revenue growth is tied to selling prices and operating margins are driven by input prices
3. The valuation is derived with substantial weight on the upside; MOS does not provide enough upside for the uncertainty

Under Armour

NYSE: UAA



UNDER ARMOUR.

Price (as of 4/18/17):

\$19.10

TTM Price-to-Earnings:

48.6x

Market Capitalization:

\$9.1 bn

Dividend Yield:

n/a

TTM Earnings Per Share:

\$0.44



Focus

Discounted Cash Flow

Under Armour

Discounted Cash Flow



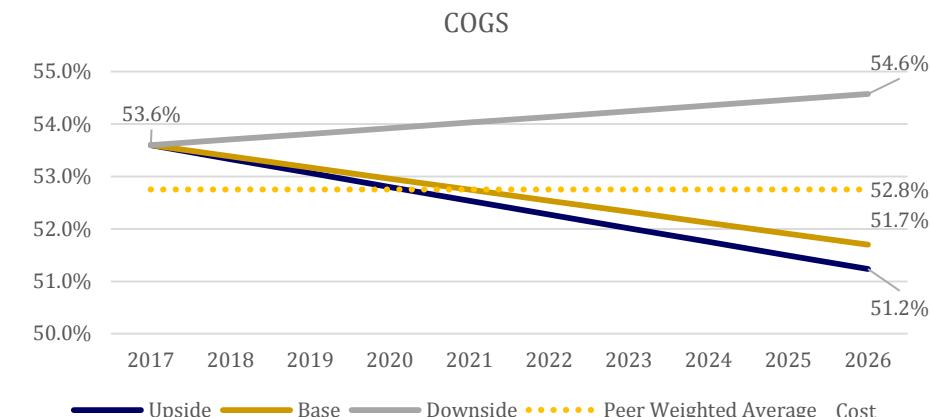
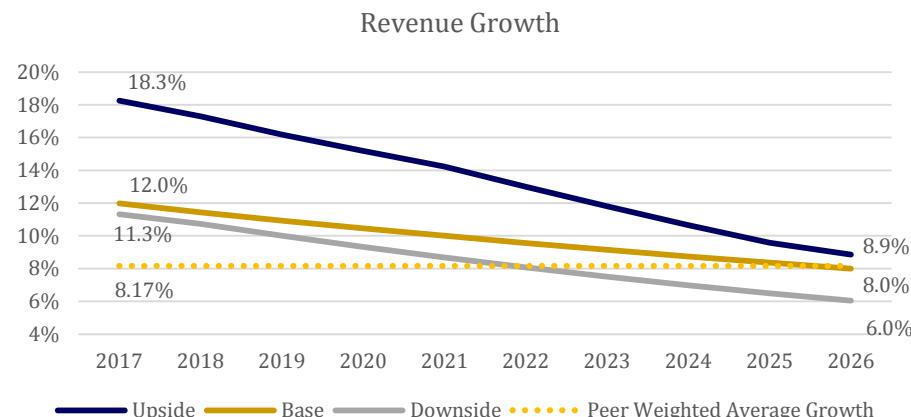
Restructuring

- Growth has decreased from +20% to +12% for 2017
- Long-run rate dropped significantly (Will not hit 7.5B revenue mark for 2018)
- Transitioning from high growth phase to steady growth rate
- Increasing pressure in COGS
- Heavy investments planned in Footwear and Connected Fitness
- Interest Expense expected to almost double in 2017

Beta

- Seven large movements in the stock price with a magnitude of around plus/minus 20%, if we take into account movements equal or large than 10%, there is a total of 43
- Standard 60-month Beta ignores these movements and does a poor job in explaining stock price gyrations (Raw Beta 0.15, R² less than 0.01)
- Daily 60-month Beta embraces the movements and explains performance (Raw Beta 1.26, R² 0.19)
- In order to damper movements, it was necessary to use an adjusted Beta of 1.17

Three Scenarios; Two Main Drivers

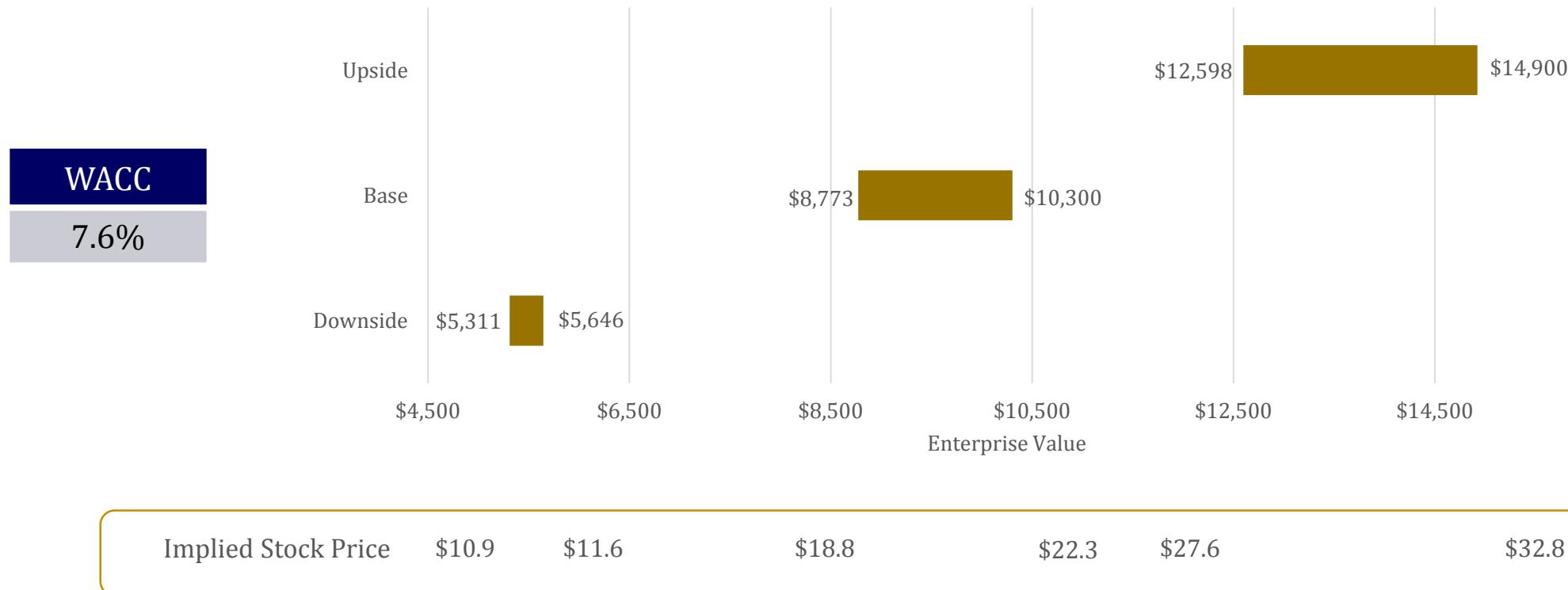


Under Armour

Discounted Cash Flow



Results



Under Armour

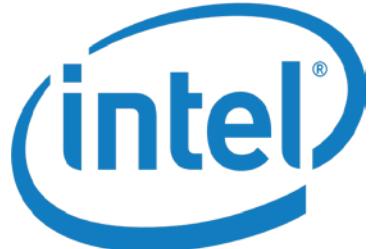
Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Retain		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	85%	\$23.68	\$20.13	
Forward P/E	5%	\$17.69	\$0.88	
Forward EV/EBITDA	5%	\$20.68	\$1.03	
LTM EV/Revenue	5%	\$20.78	\$1.04	
Intrinsic Value			\$23.09	
Price (as of April 18, 2017)			\$19.10	
Estimated Upside / (Downside)			20.9%	

Investment Thesis

1. Shifting from being a high growth company to a more stable and established enterprise, which is why there was a price correction
2. Around 83% of its sales come from North America, therefore it faces substantial challenges in the overseas markets
3. Established brand that is here to stay, but needs to refocus its business model in terms of innovation and distribution



Price (as of 4/18/17):	\$35.77
TTM Price-to-Earnings:	17.4x
Market Capitalization:	\$174.1 bn
Dividend Yield:	3.07%
TTM Earnings Per Share:	\$2.56



Focus

Company & Industry Overview

Intel Corporation

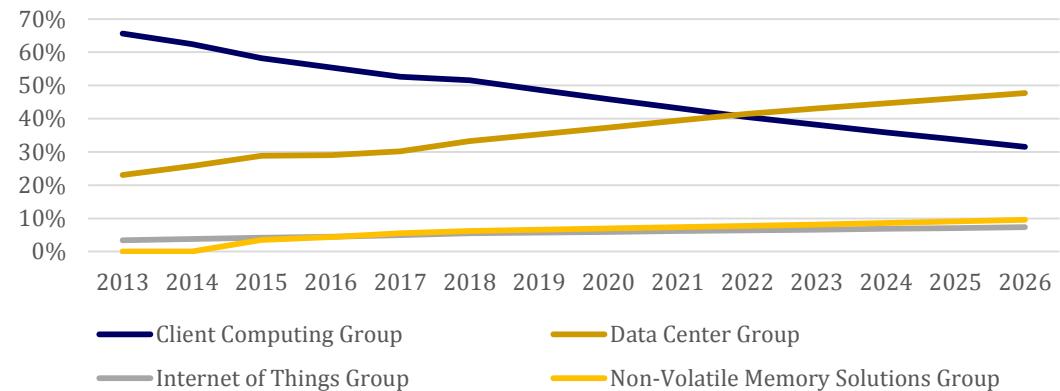
Company & Industry Overview



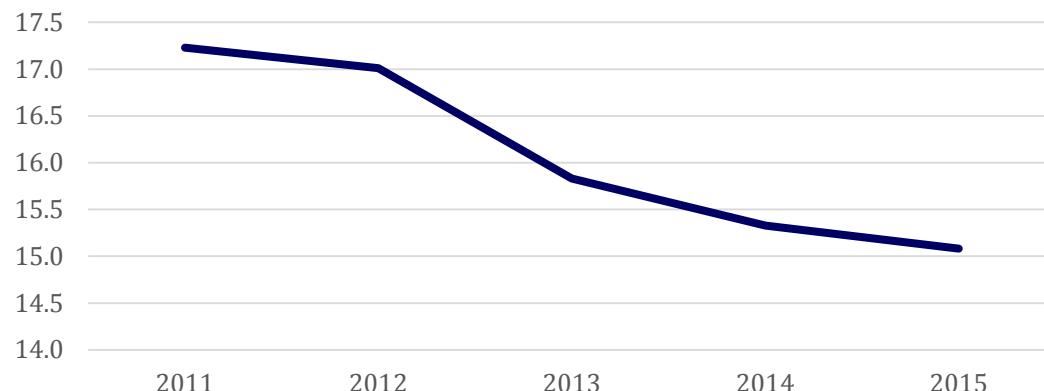
Diminishing Strategic Advantages

- Diminishing architectural, cost, and manufacturing advantages
- Increased competition in Data Center Group and Client Computing Group
 - AMD Ryzen, Apple, etc.
- Declining PC demand will suppress revenue for 3-5 years

Revenue Trends



Semiconductor Market Share (Revenue)



Acquisitions

- Altera acquisition was defensive, but servers still shifting DC workloads
 - Google has entered space with TPUs
- Mobileye acquisition aimed at autonomous vehicles signals future of company
 - Overpaid when compared to comparables
 - Significant competition in this space
 - How much and when revenues will be material is highly uncertain

Intel Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Sell		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	90%	\$36.41	\$32.77	
Forward P/E	5%	\$34.35	\$1.72	
Forward EV/EBITDA	5%	\$31.88	\$1.59	
Forward P/Sales	0%	\$37.90	\$0.00	
Intrinsic Value			\$36.08	
Price (as of April 18, 2017)			\$35.77	
Estimated Upside / (Downside)			0.9%	

Investment Thesis

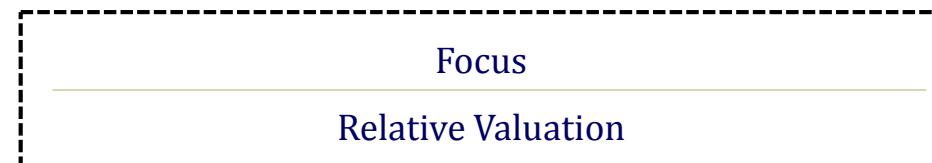
1. Mature company going through aggressive transformation
2. Reliance on high growth of the internet of things group and the future of autonomous vehicles
3. Declining PC revenues, reliance on riskier business units, and significant increased competition in all business units will suppress revenues

NVIDIA Corporation

NASDAQ: NVDA



Price (as of 4/18/17):	\$99.29
TTM Price-to-Earnings:	40.74x
Market Capitalization:	\$62.2 bn
Dividend Yield:	0.55%
TTM Earnings Per Share:	\$2.57



NVIDIA Corporation

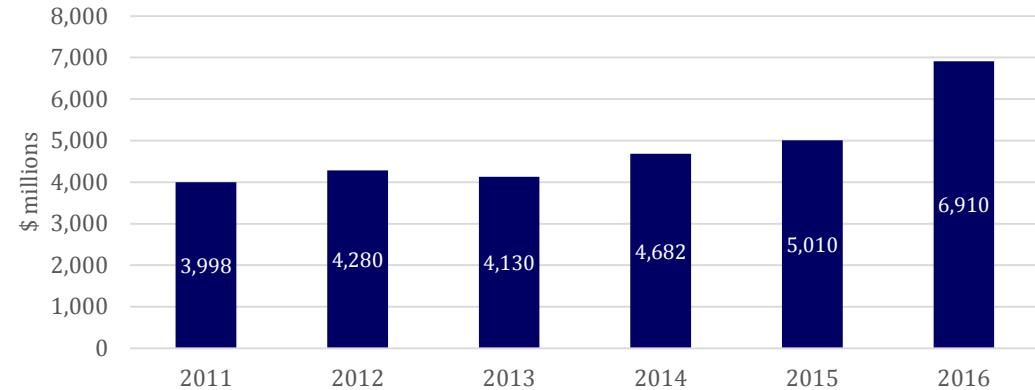
Company Overview



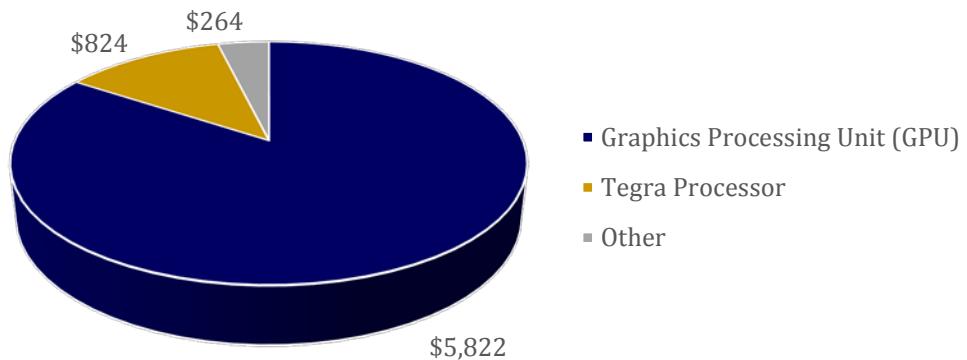
Company Overview

- Semiconductor fabless company founded in 1993
- Main product: graphics processing units (GPUs)
- Focus on 4 markets:
 - Gaming
 - Professional Visualization
 - Data Centers
 - Auto

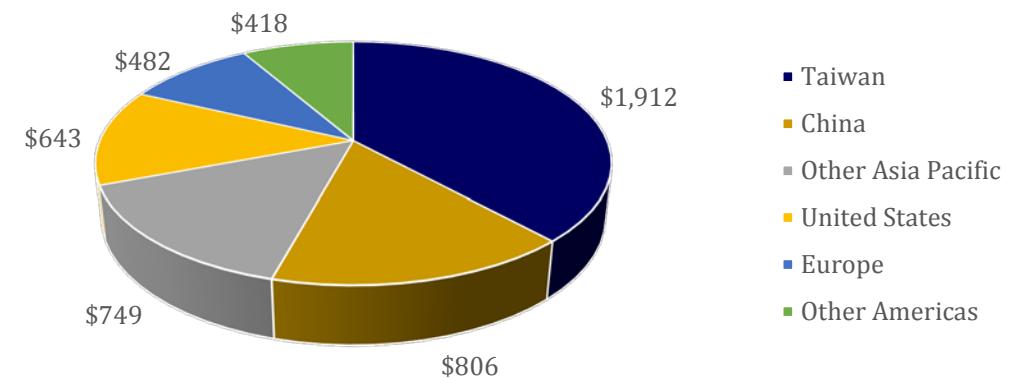
Revenue Growth



2016 Revenue by Segment (\$ millions)

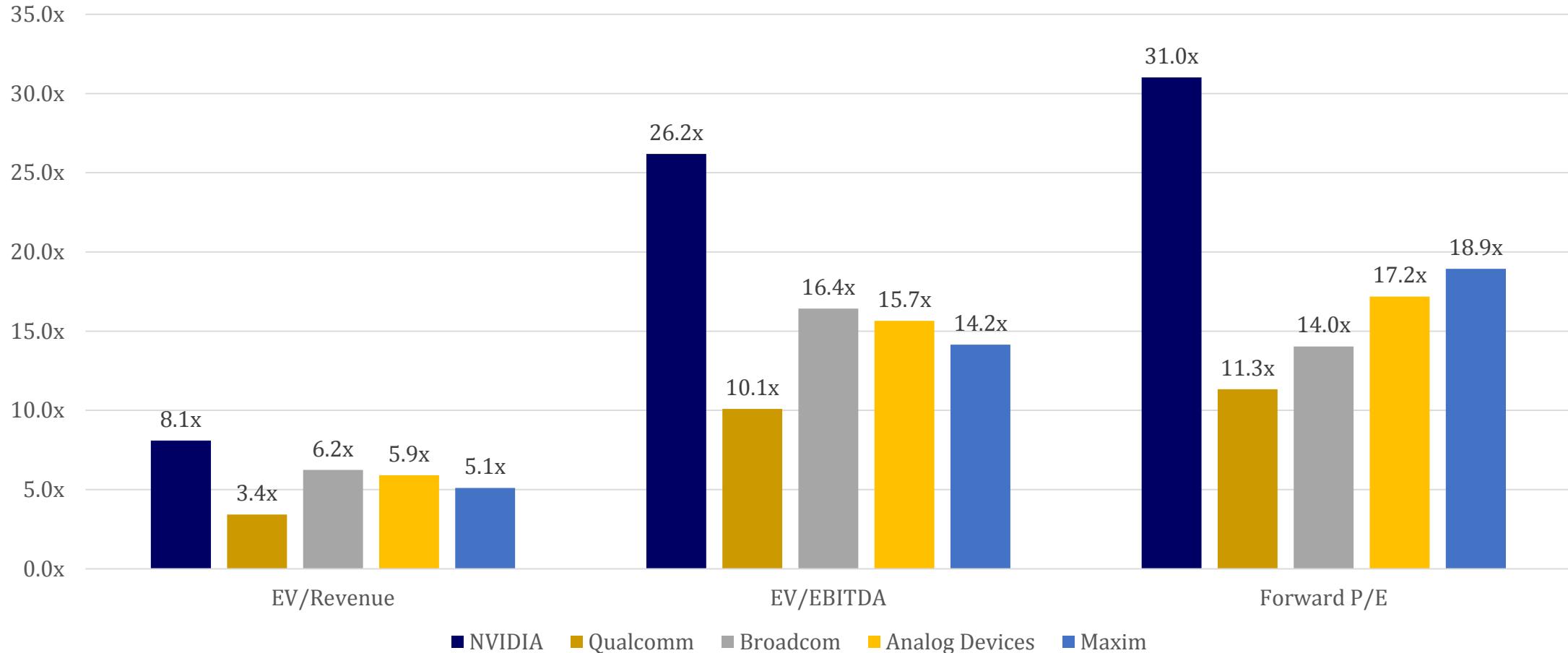


2016 Revenue by Region (\$ millions)



NVIDIA Corporation

Relative Valuation



NVIDIA Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Sell		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	85%	\$90.20	\$76.67	
EV/Revenue	5%	\$67.61	\$3.38	
EV/EBITDA	5%	\$64.34	\$3.22	
Forward P/E	5%	\$53.60	\$2.68	
Intrinsic Value			\$85.95	
Price (as of April 18, 2017)			\$99.29	
Estimated Upside / (Downside)			(13.4%)	

Investment Thesis

1. Trading at much higher multiples compared to peers; most of the upside potential has been consumed during 2016
2. Many other semiconductor companies equally well positioned in the future IOT market
3. Heavily rely on the gaming market; face competition in the high end gaming market as AMD release its new product in 2017

Alphabet

NASDAQ: GOOGL (Class A); GOOG (Class C)



Alphabet

Class A Price (4/18/17):	\$853.99
Class C Price (4/18/17):	\$836.82
TTM Price-to-Earnings:	30.9x
Market Capitalization:	\$602 bn
Dividend Yield:	n/a
TTM Earnings Per Share:	\$27.88

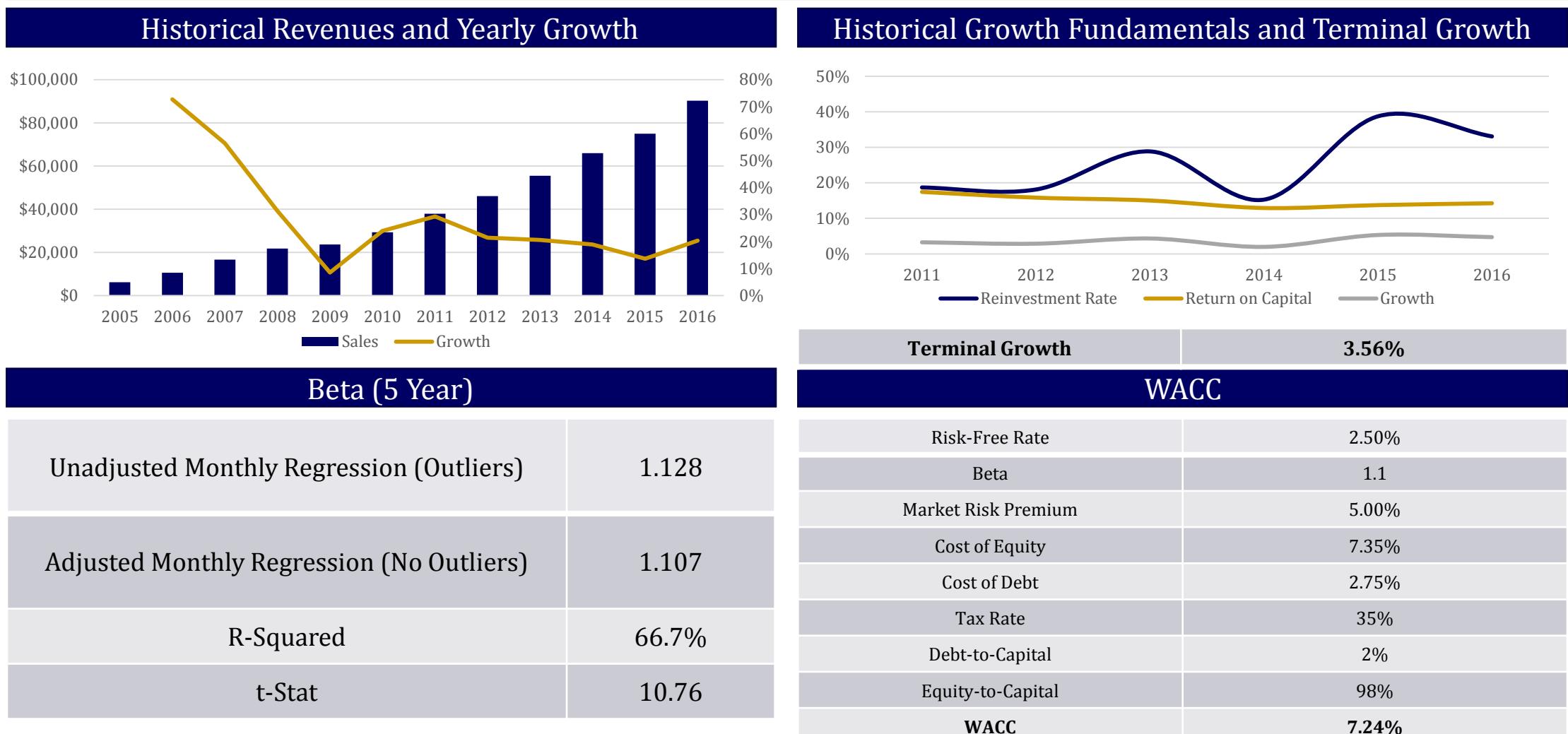


Focus

Discounted Cash Flow

Alphabet

Discounted Cash Flow Valuation



Alphabet

Discounted Cash Flow



Scenario Analysis (\$ millions)

	Downside	Base	Upside
PV of Cash Flows	\$79,004	\$98,482	\$120,504
PV of Terminal Value	\$449,233	\$613,206	\$839,059
Operating Value of Firm	\$528,236	\$711,688	\$959,563
<i>Probability</i>	20%	80%	0%
Weighted Operating Value of Firm	\$674,998		
<i>Plus: Non-Operating Assets</i>	\$92,608		
Firm Value	\$767,605		
<i>Less: MV of Debt</i>	\$4,095		
<i>Less: PV of Operating Leases</i>	\$6,910		
Equity Value	\$756,600		
<i>Fully-Diluted Shares Outstanding</i>	700.84		
Equity Value per Share (Class A)	\$1,103.74		
Equity Value per Share (Class C)	\$1,079.55		

Alphabet

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy			Portfolio Decision: Retain		
Valuation Method	Weight	Class A Valuation	Contribution	Class C Valuation	Contribution
Discounted Cash Flow	90%	\$1,103.74	\$993.36	\$1,079.55	\$971.60
Forward P/E	0%	\$964.45	\$0.00	\$945.06	\$0.00
Forward EV/EBITDA	5%	\$899.05	\$44.95	\$879.36	\$43.97
Forward P/Sales	5%	\$1,010.96	\$50.55	\$990.63	\$49.53
Intrinsic Value			\$1,088.86		\$1,065.10
Price (April 18, 2017)			\$853.99		\$836.82
Estimated Upside / (Downside)			27.5%		27.3%

Analyst Estimates (Class A): \$700 - \$1,100

Analyst Estimates (Class C): \$800 - \$1,050

Investment Thesis

1. Revenues have increased every year since 2006.
2. Revenue growth has been 20% or more in six of the past seven years.
3. Earnings per share have increased every year since 2006.



HANES Brands Inc



Price (as of 4/18/17):

\$21.26

Market Capitalization:

\$8.2 bn

52-Week High:

\$30.42

52-Week Low:

\$18.91

One-Year Price Chart



Focus

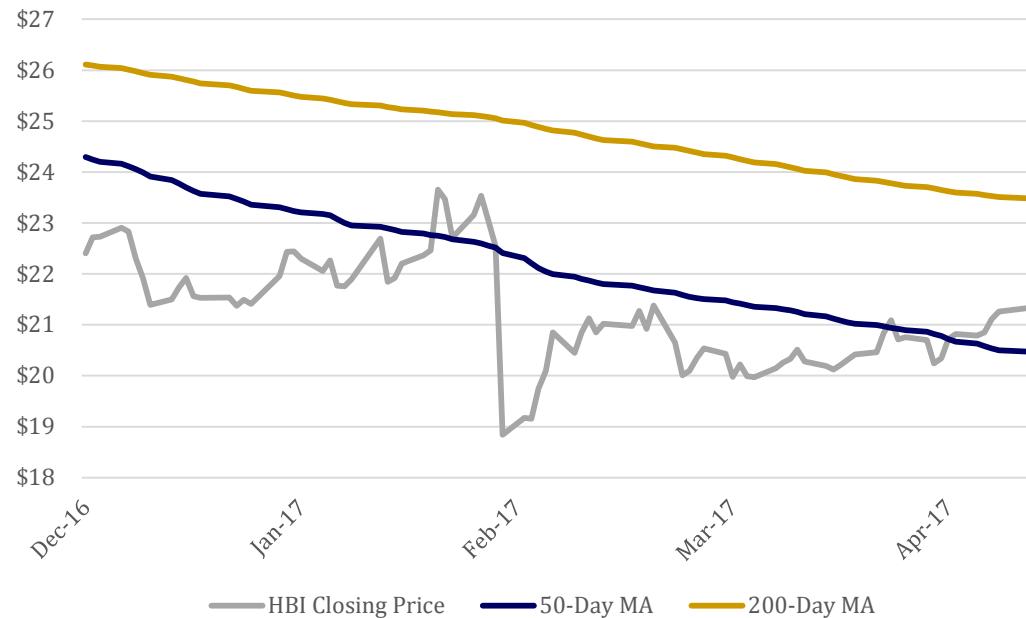
Technical Analysis

Hanesbrands, Inc.

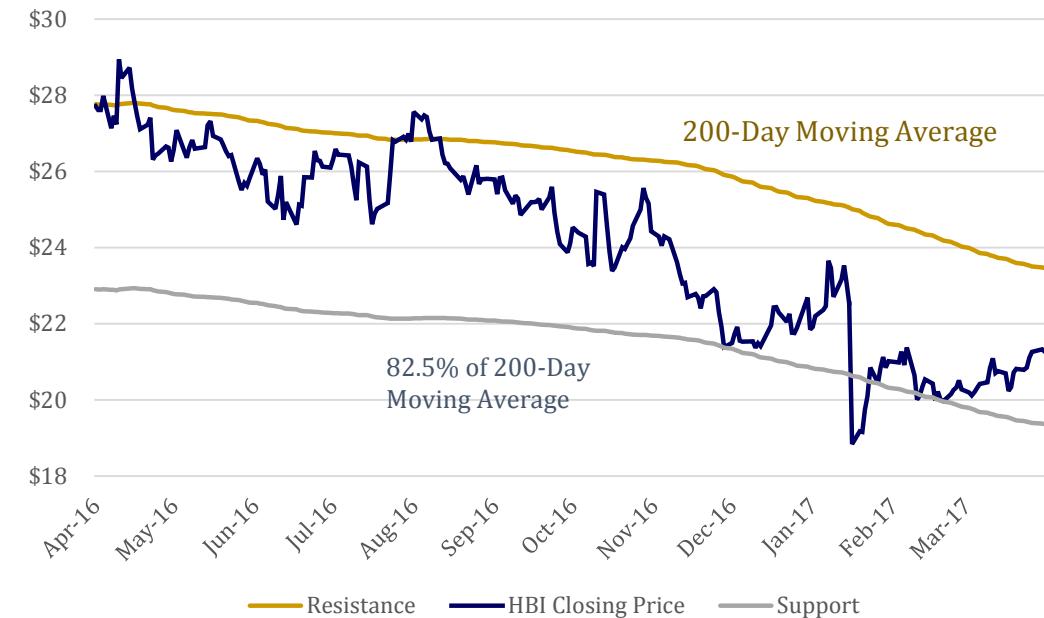
Moving Average Analysis



Price Trends Since Inclusion in Portfolio



LTM Resistance and Support



- 200-day moving average has trended downward since December 2015

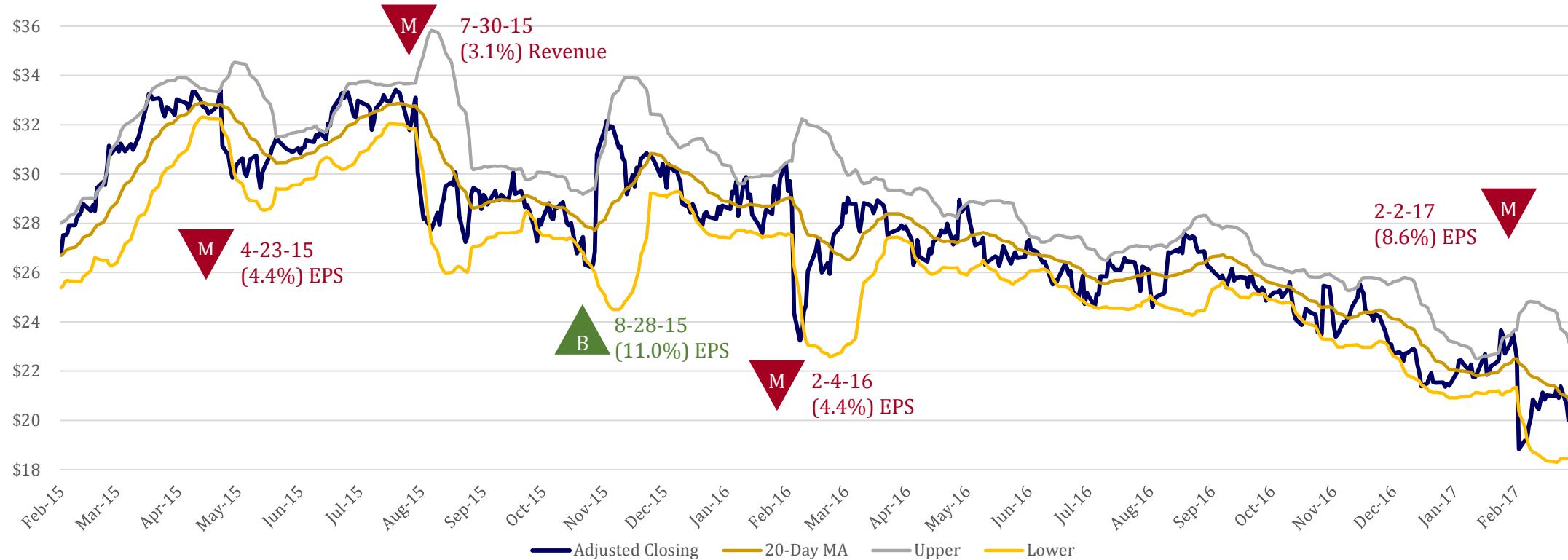
- Breaches of resistance & support levels reliably followed by reversion to trend
- Recent price drop suggests expanded upside opportunity

Hanesbrands, Inc.

Bollinger Bands Analysis



2-Year Bollinger Bands (20 Days, 2 Standard Deviations)



- HBI Price highly sensitive to earnings surprises
- Positive earnings announcement Tuesday May 2 could reduce realized loss for AIM Portfolio

Hanesbrands, Inc.

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Sell	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	80.0%	\$30.37	\$24.30
Forward P/E	7.5%	\$29.34	\$2.20
LTM P/E	5.0%	\$30.28	\$1.51
LTM EV/EBITDA	7.5%	\$17.73	\$1.33
Technical Analysis	0.0%	N/A	N/A
Estimated Intrinsic Value			\$29.34
Price (as of April 18, 2017)			\$21.26
Estimated Upside / (Downside)			38.0%

Investment Thesis

1. Increasingly global presence provides supply chain leadership
2. Strong fundamentals signaled by steady improvements in gross and operating margins
3. Proven ability to effectively integrate acquisitions



Price (as of 4/18/17):

\$9.59

Market Capitalization:

\$1.58 bn

Dividend Yield:

n/a

TTM Earnings Per Share:

(\$0.17)

One-Year Price Chart



Focus

Discounted Cash Flow

Infinera Corporation

Company & Industry Overview

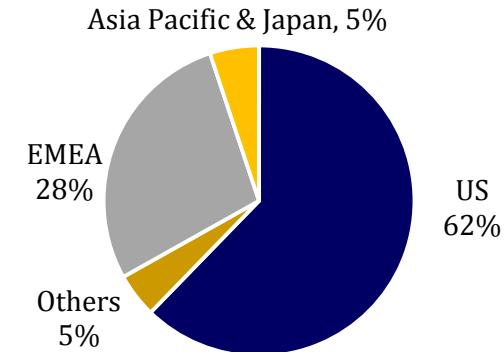


Company Overview

Infinera is an optical transport network equipment and software provider serving three markets:

- Long-haul and subsea networks
- Metro networks
- Data center interconnect networks

Revenue By Geography



Industry Overview

Industry growth drivers:

- Mobile devices: 11.6 bn devices by 2020
- Video: 80% of global internet usage
- Cloud: \$141 bn public cloud services in 2019
- IoT: >24 bn networked devices by 2020

Competitive Landscape

Systems Vendors



Infinera Corporation

Discounted Cash Flow



Revenue	Key Assumptions																				
<p>A bar chart titled "Revenue" showing annual revenue from 2011 to 2016. The y-axis represents revenue in millions of dollars, ranging from \$0 to \$1,000. The x-axis shows the years 2011 through 2016. Each bar is labeled with its corresponding value: 2011 (405), 2012 (438), 2013 (544), 2014 (668), 2015 (887), and 2016 (870).</p> <table border="1"> <thead> <tr> <th>Year</th><th>Revenue (\$ millions)</th></tr> </thead> <tbody> <tr><td>2011</td><td>405</td></tr> <tr><td>2012</td><td>438</td></tr> <tr><td>2013</td><td>544</td></tr> <tr><td>2014</td><td>668</td></tr> <tr><td>2015</td><td>887</td></tr> <tr><td>2016</td><td>870</td></tr> </tbody> </table>	Year	Revenue (\$ millions)	2011	405	2012	438	2013	544	2014	668	2015	887	2016	870	<ul style="list-style-type: none"> Revenue assumptions are based on management guidance Key inputs as % of sales Most drivers based on historical trends 						
Year	Revenue (\$ millions)																				
2011	405																				
2012	438																				
2013	544																				
2014	668																				
2015	887																				
2016	870																				
Beta	WACC																				
<table border="1"> <tbody> <tr><td>5-yr weekly regression beta</td><td>2.19</td></tr> <tr><td>Smoothed beta</td><td>1.8</td></tr> <tr><td>R-squared</td><td>0.248</td></tr> <tr><td>Beta</td><td>1.8</td></tr> </tbody> </table>	5-yr weekly regression beta	2.19	Smoothed beta	1.8	R-squared	0.248	Beta	1.8	<table border="1"> <tbody> <tr><td>Risk Free Rate</td><td>2.40%</td></tr> <tr><td>Market Risk Premium</td><td>4.50%</td></tr> <tr><td>Cost of Equity</td><td>10.50%</td></tr> <tr><td>Cost of Debt</td><td>3.67%</td></tr> <tr><td>Tax Rate</td><td>37.20%</td></tr> <tr><td>WACC</td><td>9.21%</td></tr> </tbody> </table>	Risk Free Rate	2.40%	Market Risk Premium	4.50%	Cost of Equity	10.50%	Cost of Debt	3.67%	Tax Rate	37.20%	WACC	9.21%
5-yr weekly regression beta	2.19																				
Smoothed beta	1.8																				
R-squared	0.248																				
Beta	1.8																				
Risk Free Rate	2.40%																				
Market Risk Premium	4.50%																				
Cost of Equity	10.50%																				
Cost of Debt	3.67%																				
Tax Rate	37.20%																				
WACC	9.21%																				

Infinera Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Sell	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	90%	\$10.50	\$9.45
EV/Revenue	10%	\$13.63	\$1.36
EV/EBITDA	0%	\$4.46	\$0.00
P/E	0%	(\$0.10)	\$0.00
Intrinsic Value			\$10.81
Price (as of April 18, 2017)			\$9.59
Estimated Upside / (Downside)			12.8%

Investment Thesis

1. Strong technological advantage with its Photonic Integrated Circuit (PIC) technology
2. One of the most vertically integrated company in the industry
3. Huge growth potential in two new market segments: metro market and datacenter interconnect market



DIGITAL REALTY

Price (as of 4/18/17):

\$112.00

TTM Price/FFO:

19.8x

Market Capitalization:

\$17.7 bn

Dividend Yield:

3.3%

TTM FFO per Share:

\$5.67

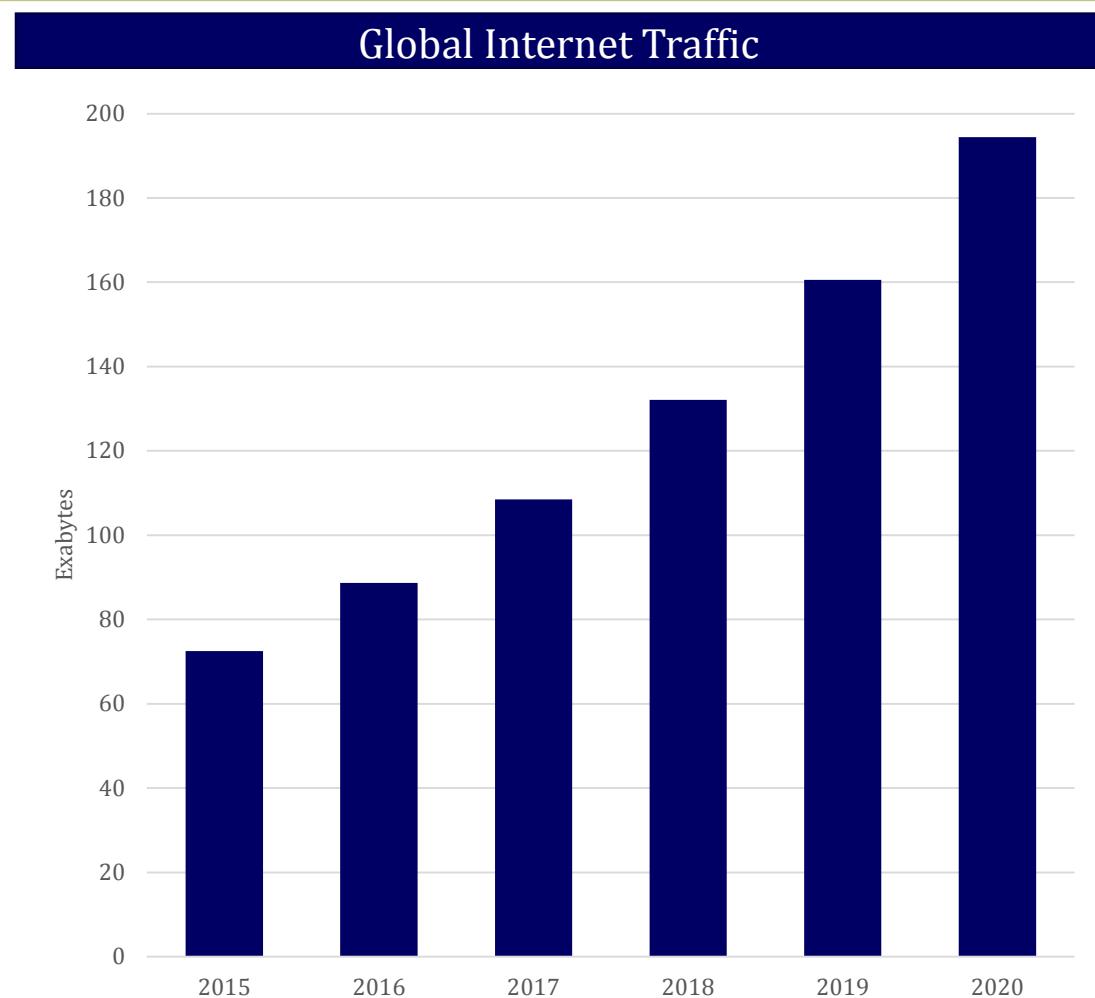
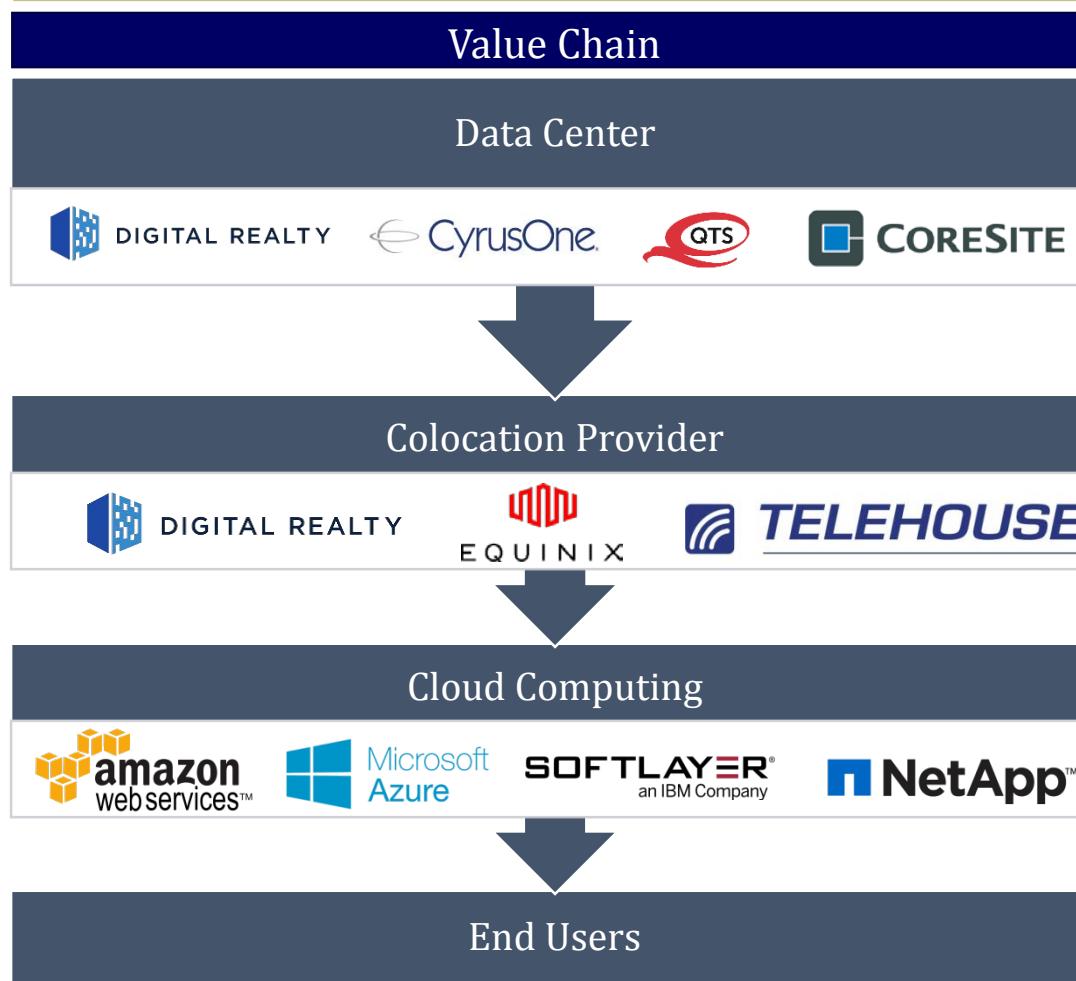


Focus

Company & Industry Overview

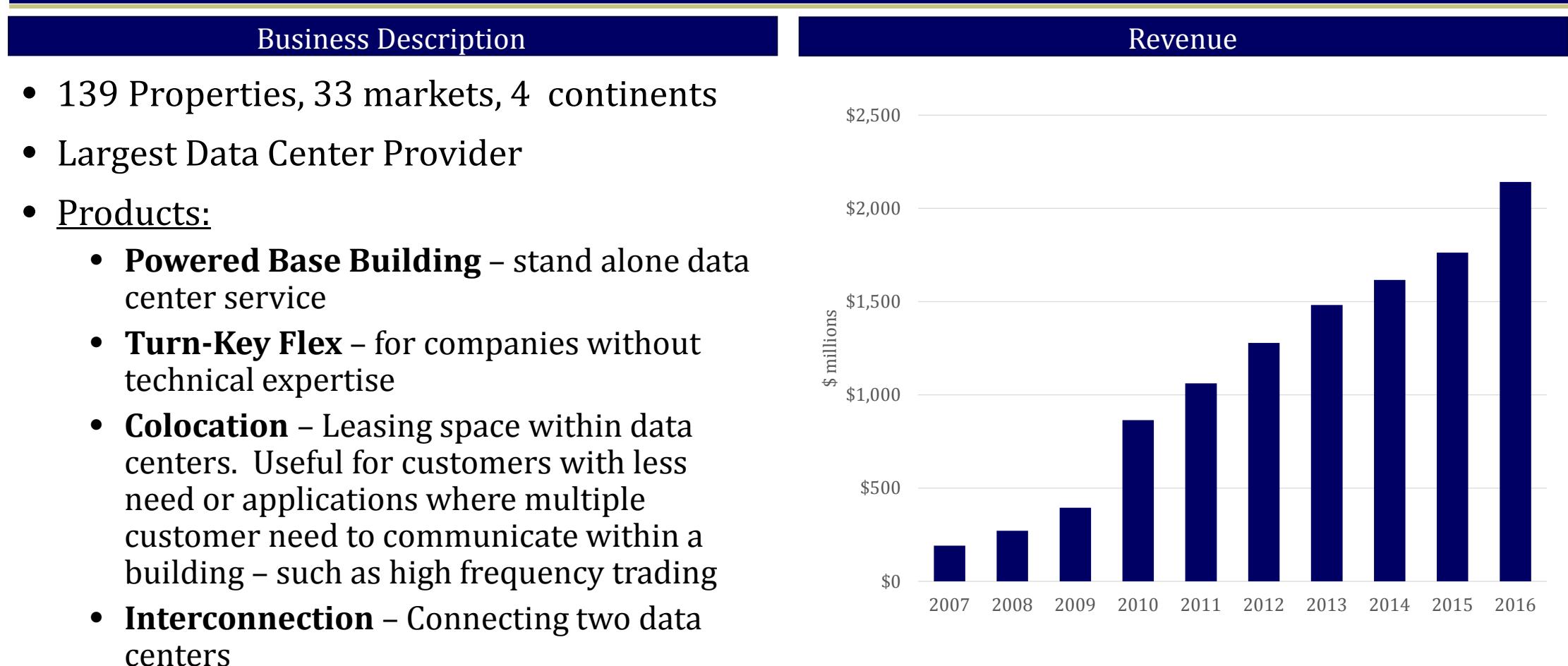
Digital Realty Trust, Inc.

Industry Dynamics



Digital Realty Trust, Inc.

Overview



Digital Realty Trust, Inc.

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Retain		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	80%	\$140.83	\$112.60	
P/FFO	5%	\$118.89	\$5.94	
EV/EBITDA	5%	\$111.59	\$5.58	
P/BV	10%	\$113.32	\$11.33	
Intrinsic Value			\$135.52	
Price (as of April 18, 2017)			\$112.00	
Estimated Upside / (Downside)			21.0%	

Investment Thesis

1. Digital Realty's position at the beginning of the value chain with options for forward integration (interconnection, colocation) can provide opportunities to increase revenue with minimal
2. Data Center clusters create network effects, thereby creating barriers to entry
3. Short run constraints in data center construction mean that data center operators have ability to profit from increases in internet traffic

Security Analysis

Equities & Focus of Analysis



New Portfolio Candidates

Company & Industry

Discovery

Alternative Valuation

Fundamentals



Discovery



Alternative Valuation





Price (as of 4/18/17):	\$77.75
TTM Price-to-Earnings:	16.3x
Market Capitalization:	\$82.8 bn
Dividend Yield:	2.54%
TTM Earnings Per Share:	\$4.91

One-Year Price Chart



Focus

Company & Industry Overview

CVS Health Corporation

Company & Industry Overview



Company Overview

- Integrated pharmacy health care services company offering both retail pharmacies and pharmacy benefits management (PBM)
- Operates 9,700 retail locations
- Largest pharmacy health care clinic provider in the US
- Serves over 2,000 health plans with 90M PBM plan members

Competitors

Walgreens

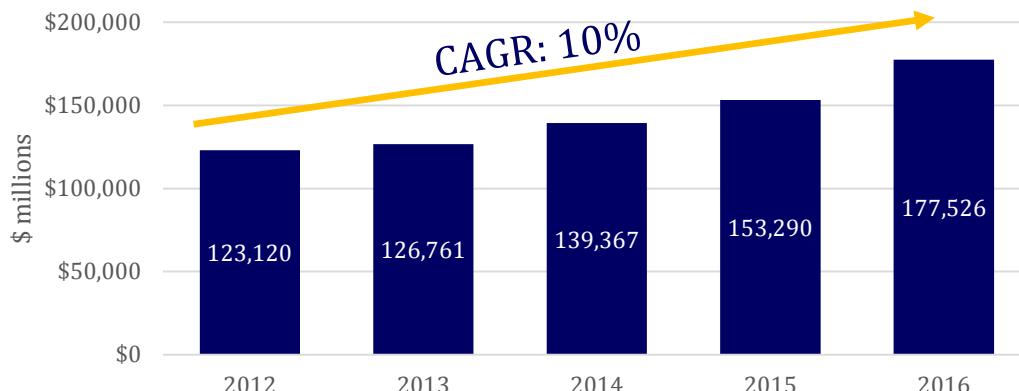
 **EXPRESS SCRIPTS®**

Walmart 


**RITE
AID**

 **UnitedHealthcare®**

Historical Revenue



Role in the Healthcare Landscape

- PBMs are viewed as the solution, not the problem to rising drug prices for patients
- CVS negotiates drug benefits for health insurance plans in exchange for including drugs among those they cover with low co-payments to reach more members

CVS Health Corporation

Company & Industry Overview



Reporting Segments

PBM Segment

CVS Caremark
Pharmacy Benefits
Management (PBM)

**Specialty
Pharmacy**

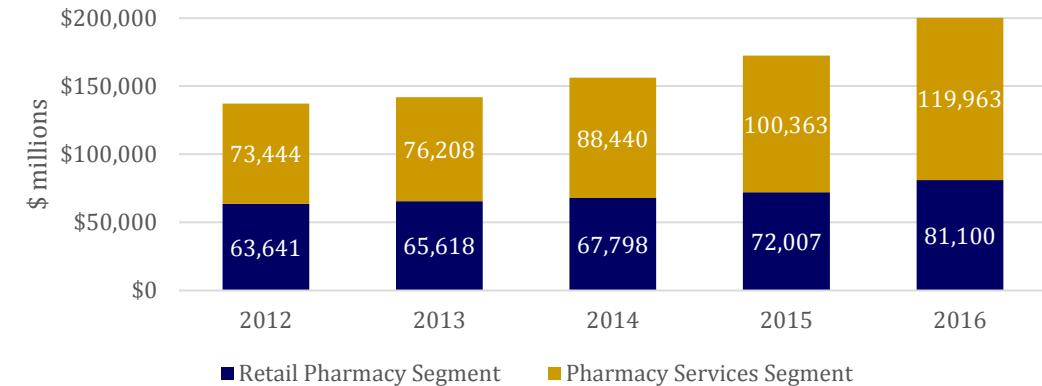
Retail / LTC Segment

CVS Pharmacy
Retail Pharmacy

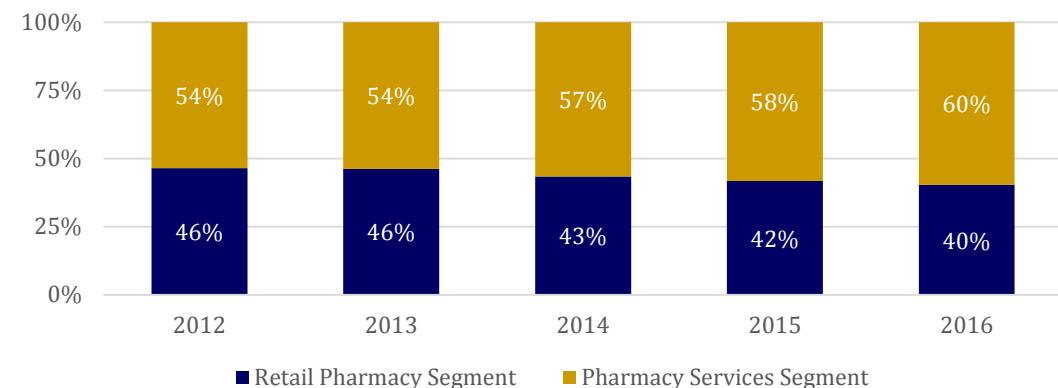
Minute Clinic
Retail Medical
clinics

**LTC
Pharmacy**

Revenue by Reporting Segments



Sales by Operating Segment



CVS Health Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Buy	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	80%	\$99.08	\$79.26
Forward EV/Sales	6.67%	\$105.69	\$7.05
Forward EV/EBITDA	6.67%	\$75.62	\$5.04
Forward P/E	6.67%	\$83.28	\$5.55
Intrinsic Value			\$96.90
Price (as of April 18, 2017)			\$77.75
Estimated Upside / (Downside)			24.6%

Investment Thesis

1. Competitive advantage as an integrated provider of benefits management, pharmacy, and care solutions
2. Bringing new PBM products to market, particularly in partnership with other PBMs and health plans
3. Increasing efficiency from acquisition synergies
4. Demonstrated cash generation capabilities



MasTec

Price (as of 4/18/17):

\$42.35

LTM Price / Adjusted Earnings

22.2x

Market Capitalization

\$3.5 bn

Beta

1.36

TTM Earnings Per Share:

\$1.63



Focus

Discovery

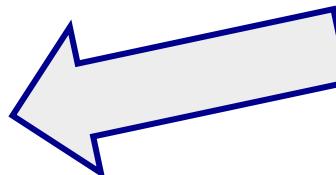


Analysts estimate the cost of upgrading LTE networks and building 5G infrastructure will total **\$104 billion** between 2017-2025¹



MasTec has captured **3.8-4.2%** of AT&T's capex and maintenance expenses over the past 3 years³, accounting for about **1/3** of their revenue

MasTec
Engineering Solutions



AT&T currently holds **33%** of the U.S. wireless carrier market²



If:

AT&T's share of 5G buildout is proportional to its market share

That spend is spread evenly across **8 years**, and MTZ continues to capture around **4.5%** of it

EBITDA margins for MTZ's Communications segment remain at **10%** and their WACC is **8.17%**

So:

A key customer creating the next generation of wireless infrastructure adds only **\$1.00 per share** to MTZ's investors!

Then:

They will spend about **\$34 billion** investing in their 5G network

AT&T will spend **\$4.25 billion** annually, resulting in **\$191 million** in revenue for MTZ

AT&T's 5G buildout is worth about **\$82 million** to MTZ's shareholders today

So What?

MasTec must continue to gain market share to add value in Communications segment



Recommendation: Sell		Portfolio Decision: Pass	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flows	80.0%	\$38.62	\$30.90
Forward P/E	2.5%	\$42.50	\$1.06
LTM P/E	2.5%	\$45.13	\$1.13
LTM EV/EBITDA	7.5%	\$46.70	\$3.50
Forward EV/EBITDA	7.5%	\$41.60	\$3.12
Estimated Intrinsic Value			\$39.71
Price (as of April 18, 2017)			\$42.35
Estimated Upside / (Downside)			(6.23%)

Investment Thesis

1. The “Trump Effect” – significant upside priced into MTZ and industry peers
2. Growth tied to oil and gas prices and capex
3. MTZ does not add sufficient prospective returns to justify increased volatility



Price (as of 4/18/17):

\$35.78

TTM Price-to-Earnings:

13.5x

Market Capitalization:

\$32.5 bn

Dividend Yield:

3.65%

TTM Earnings Per Share:

\$2.65

One-Year Price Chart



Focus

Alternative Valuation

Exelon Corporation

Company Overview



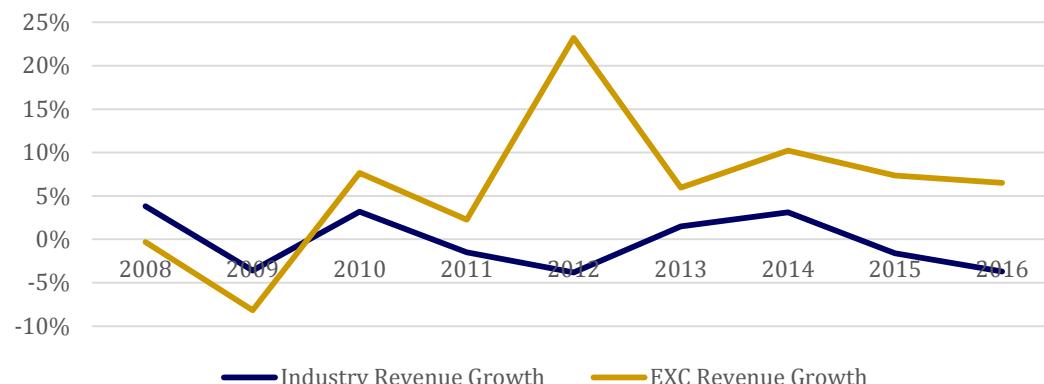
Company Overview

- Business units include unregulated Power Generation and regulated Electric/Gas Retailing
- 32.6% of all US nuclear revenues
- 8.1% of all US electric power transmission revenues
- BGE acquired in mid-2012, PHI acquired in March 2016
 - Future cost savings and revenue growth

Coverage

	Area Covered	Major Cities	Retail Customers (millions)
ComEd	Illinois	Chicago	4.00
PECO	Penn.	Philadelphia	2.10
BGE	Maryland	Baltimore	2.00
Pepco	Maryland & DC	Washington DC	0.90
DPL	Delaware	Wilmington	0.60
ACE	New Jersey	Atlantic City	0.50
Total			10.10

Revenue Growth



Recent Margin Compression

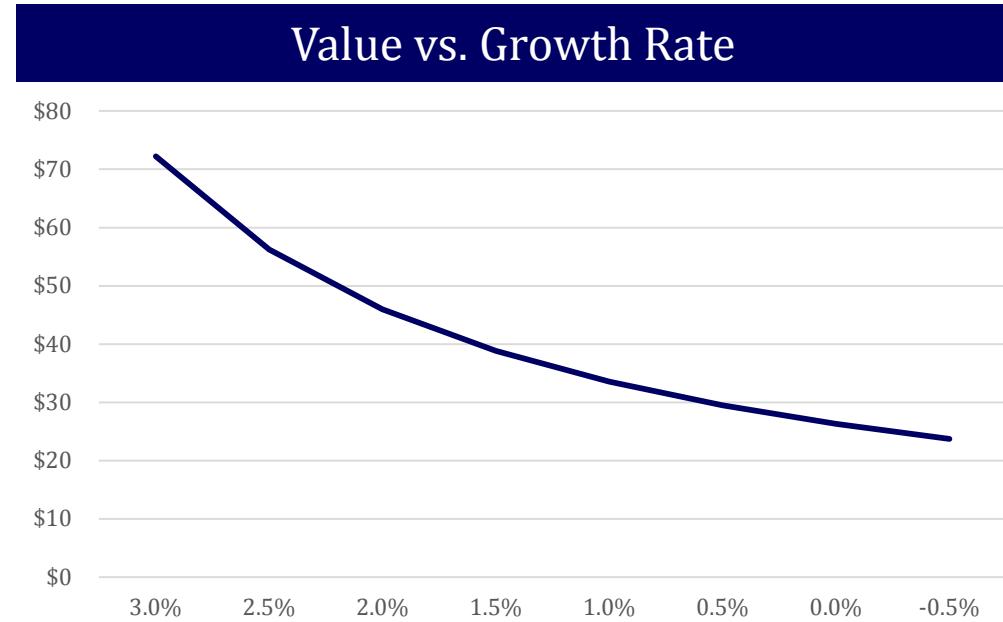


Exelon Corporation

Dividend Growth Model



Dividend Discount Model	
Current Earnings Per Share	\$2.65
Current Payout Ratio	47.53%
Beta	0.46
Risk-Free rate	2.50%
Risk Premium	5.00%
Expected Growth Rate	1.5%
Current Dividends Per Share	\$1.26
Cost of Equity	4.80%
Exp. Dividend Growth rate	1.50%
Gordon Growth Model Value	\$38.81



Exelon Corporation

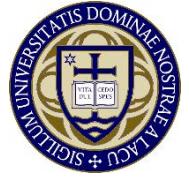
Valuation, Investment Thesis & Portfolio Decision



Recommendation: Sell		Portfolio Decision: Buy		
Valuation Method	Weight	Valuation	Contribution	
Discounted Cash Flow	85%	\$39.14	\$33.27	
Forward P/E	5%	\$42.79	\$2.14	
Forward EV/EBITDA	5%	\$43.62	\$2.18	
Dividend Discount Method	5%	\$39.00	\$1.95	
Intrinsic Value			\$39.54	
Price (as of April 18, 2017)			\$35.78	
Estimated Upside / (Downside)			11.5%	

Investment Thesis

1. Exelon is trading at a discount versus comps in relative value multiples.
2. Low beta and high dividend security that provides the portfolio protection from systematic risks.
3. Recent acquisitions will provide revenue stabilization in the regulated portion of the business.
4. Future of the nuclear industry has a number of serious questions and EXC has significant exposure, 1/3 of revenues. In addition, there are a number of costly CapEx projects required in the coming years as margins have compressed.



francesca's®

Price (as of 4/18/17):	\$14.80
TTM Price-to-Earnings:	13.5x
Market Capitalization:	\$553 mm
Dividend Yield:	n/a
TTM Earnings Per Share:	\$1.10

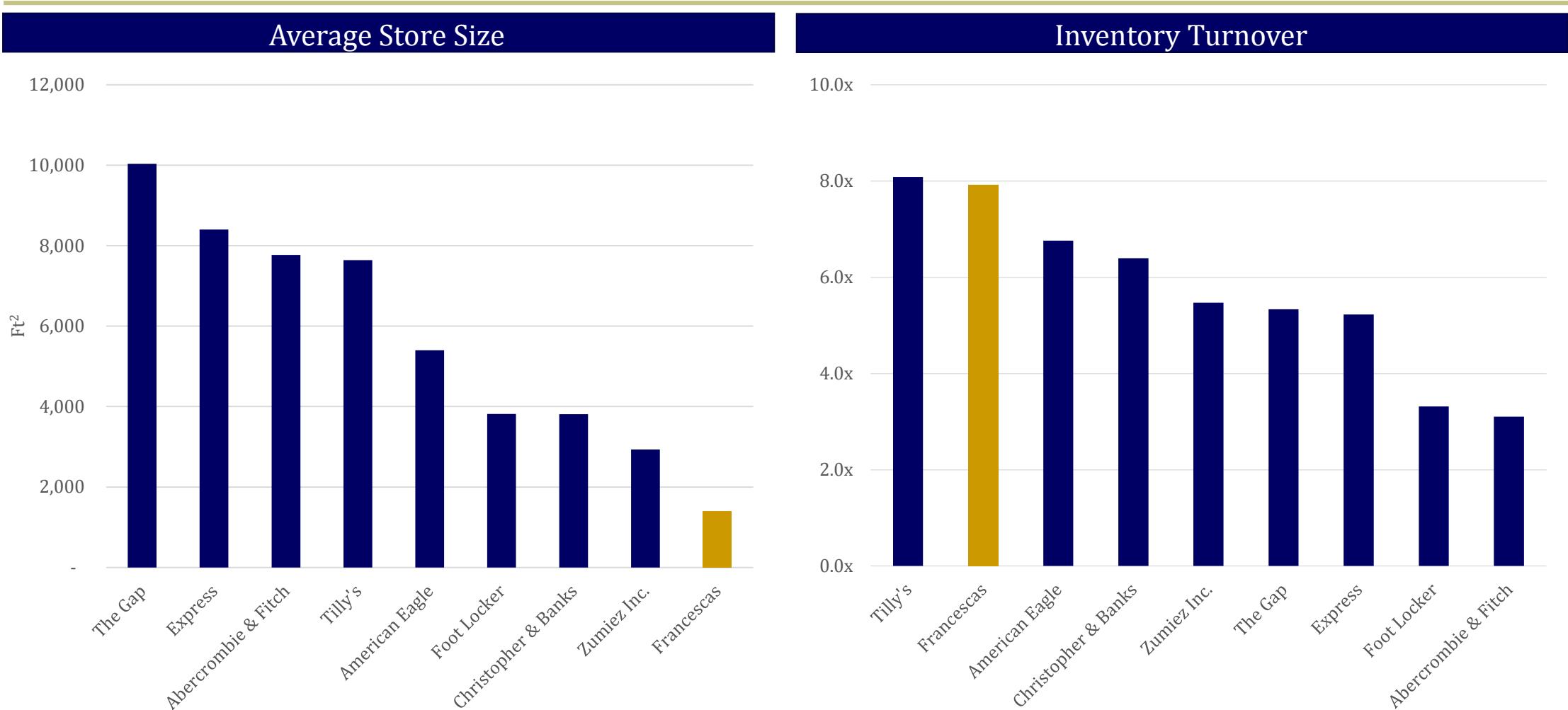


Focus

Fundamental Analysis

Francesca's Holding Corporation

Fundamental Analysis

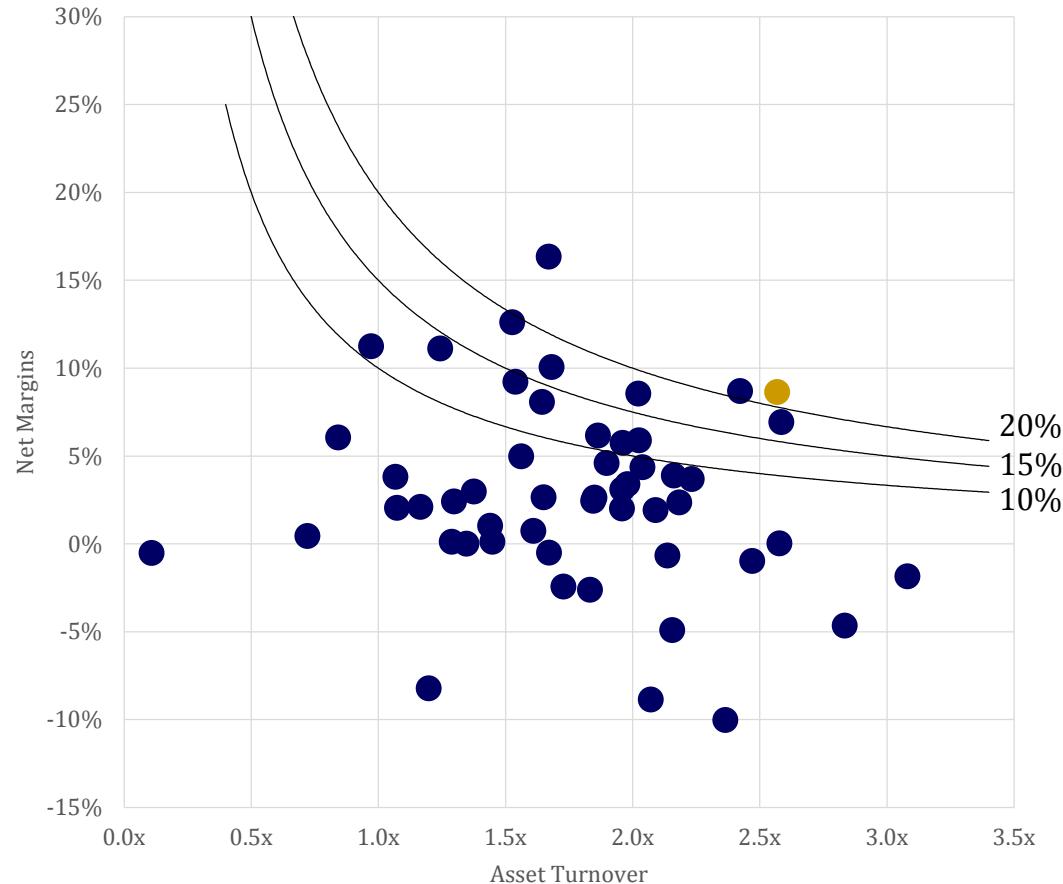


Francesca's Holding Corporation

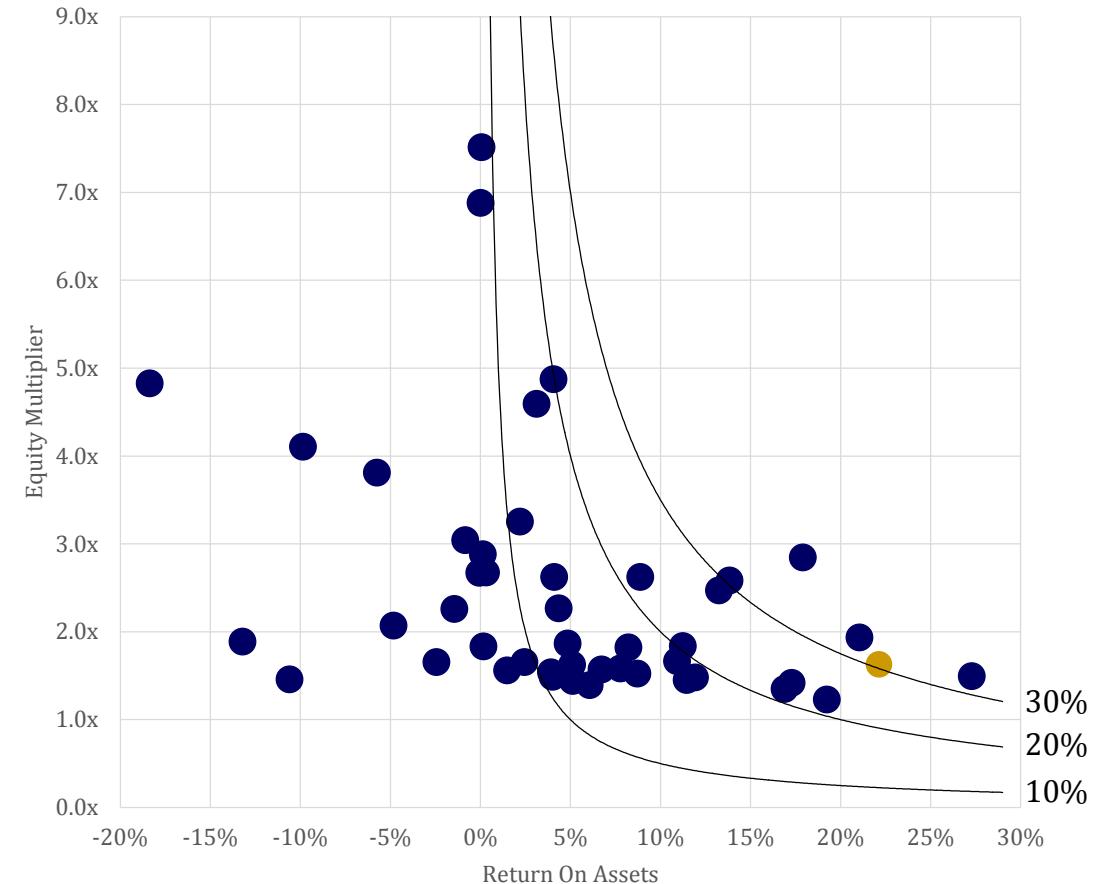
Fundamental Analysis



Return on Assets



Return on Equity



Francesca's Holding Corporation

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Buy	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	90%	\$22.40	\$20.04
Forward P/E	5%	\$14.59	\$0.73
EV/EBITDA	5%	\$11.37	\$0.57
P/Sales	0%	\$7.08	\$0.00
Intrinsic Value			\$21.34
Price (as of April 18, 2017)			\$14.80
Estimated Upside / (Downside)			44.2%

Investment Thesis

1. Large variety of products per store drive foot traffic and repeat customers
2. Small store size and efficient distribution give Francesca's industry leading margins and turnover ratios
3. New store openings will drive Francesca's growth



Price (as of 4/18/17):

\$65.35

TTM Price-to-Earnings:

30.9x

Market Capitalization:

\$1.14bn

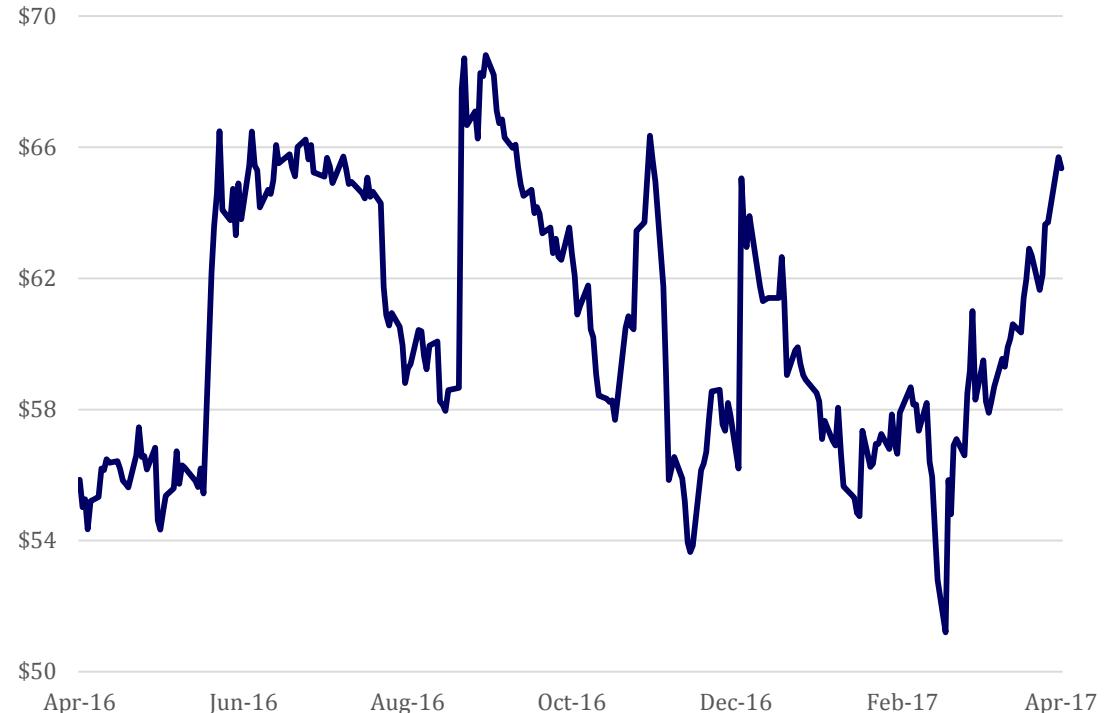
Dividend Yield:

1.4%

TTM Earnings Per Share:

\$2.11

One-Year Price Chart



Focus

Discovery

Calavo Growers

Discovery – Growth Drivers



Demographics

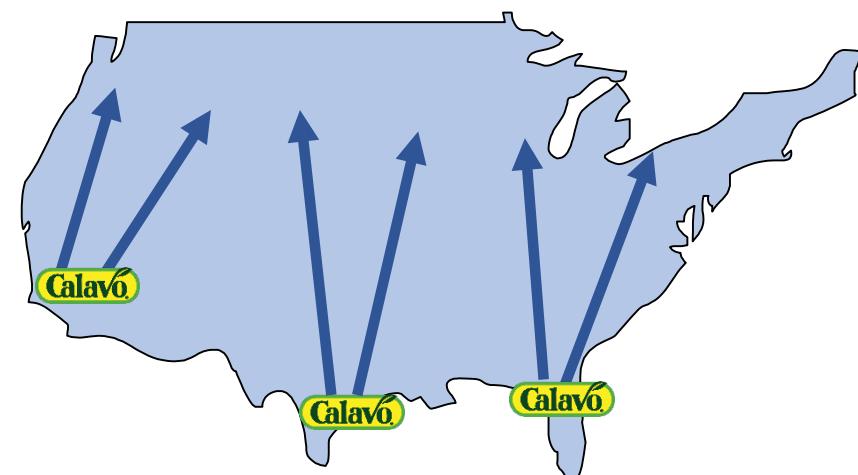
- Larger Hispanic and Millennial populations increase demand for avocados and healthier food options
 - Avocado consumption in the US has increased 4x since 2000
 - Hispanic population expected to double by 2050
 - Millennials consume healthy foods at a higher rate than their parents

Investment in Operations

- Added 260,000 square feet of manufacturing space and new production capabilities in several strategic locations
 - Increased capacity in Jacksonville, FL and Houston, TX facilities
- Acquired 128,000 square foot “turnkey” production facility in Riverside, California

Operating Segment Synergies

- Calavo's operating segments are vertically integrated
 - Fresh Product segment acts as supplier for Calavo Foods and RFG segment¹
 - Also acts as a supplier to companies in which Calavo has a minority stake, such as FreshRealm



Calavo - Represents newly acquired location or recently improved facilities

Calavo Growers

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Buy	
Valuation Method	Weight	Valuation	Contribution
Discounted Cash Flow	80%	\$81.13	\$64.90
EV/EBITDA	10%	\$68.72	\$6.87
EV/EBIT	5%	\$68.30	\$3.42
Forward P/E	5%	\$68.54	\$3.43
Intrinsic Value			\$78.62
Price (as of April 18, 2017)			\$65.35
Estimated Upside / (Downside)			20.3%

Investment Thesis

1. Underlying growth driven by demographic forces – offers significant upside in revenue growth
2. Operates in two high growth sectors within the Consumer Staples sector – could be an attractive acquisition target
3. Management has focused on improving operational capacity and efficiency



Price (as of 4/18/17):

\$32.85

TTM Price-to-Earnings:

12.1x

Market Capitalization:

\$26.6 bn

Dividend Yield:

1.58%

TTM Earnings Per Share:

\$2.71

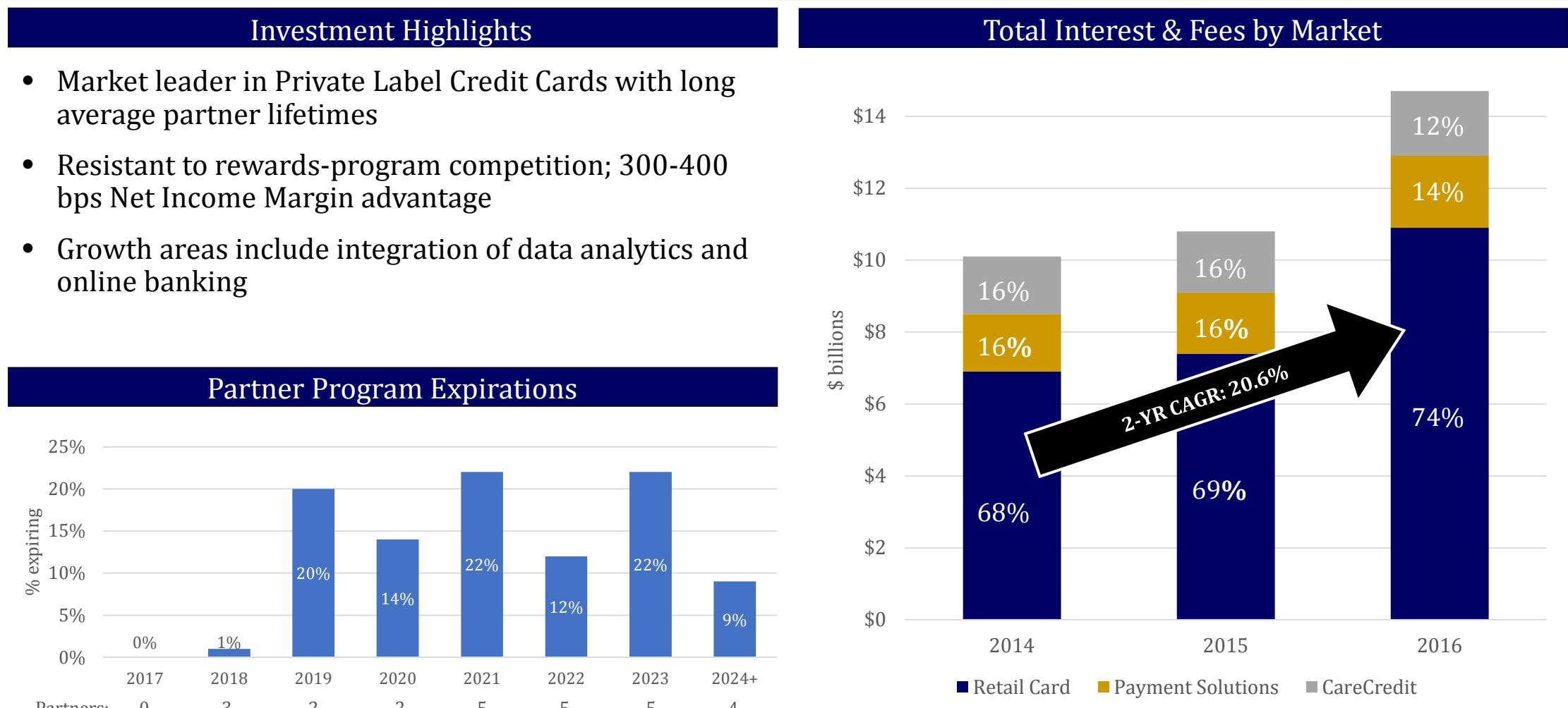


Focus

Alternative Valuation

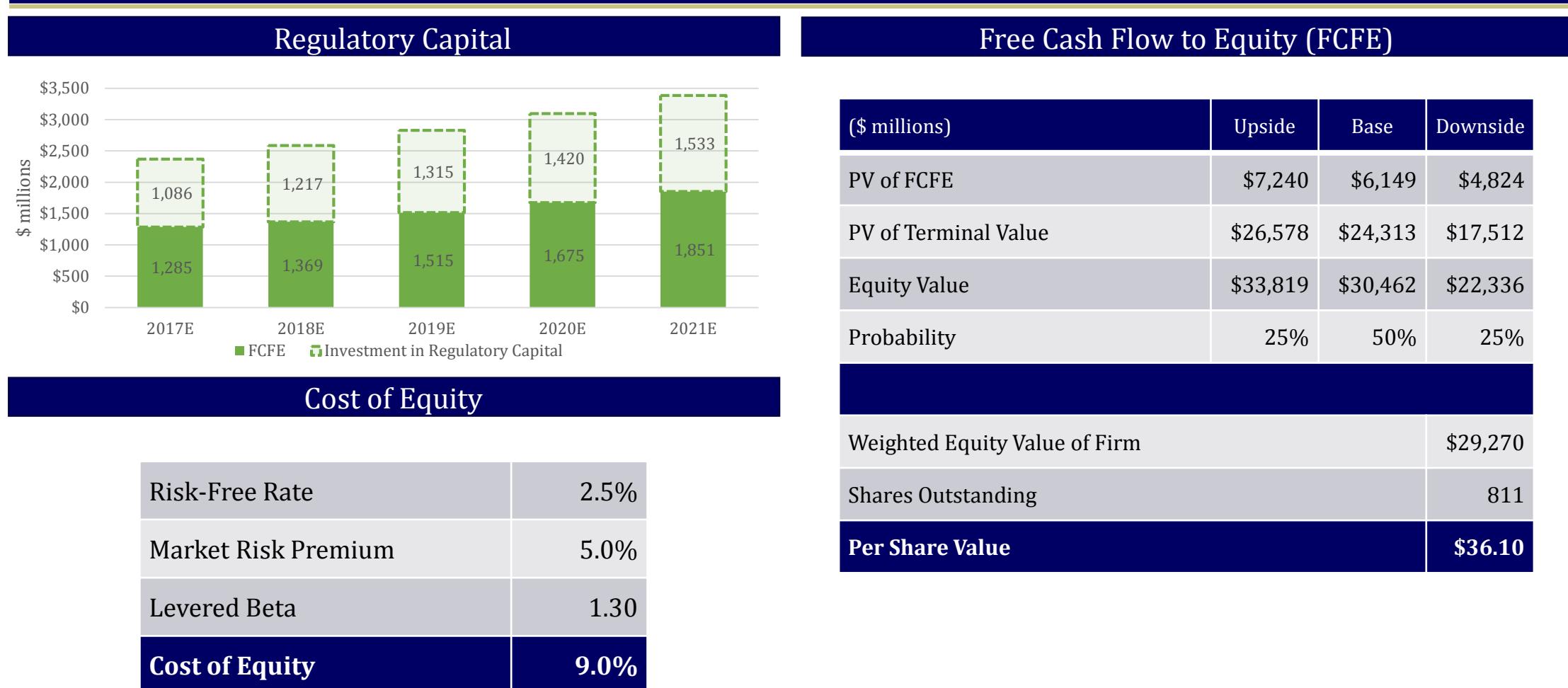
Synchrony Financial

Overview



Synchrony Financial

Free Cash Flow to Equity



Synchrony Financial

Valuation, Investment Thesis & Portfolio Decision



Recommendation: Buy		Portfolio Decision: Buy	
Valuation Method	Weight	Valuation	Contribution
Free Cash Flow to Equity	80%	\$36.10	\$28.88
Forward P/E	10%	\$32.16	\$3.22
P/BV	10%	\$42.02	\$4.20
LTM P/E	0%	\$34.15	\$0.00
Intrinsic Value			\$36.30
Price (as of April 18, 2017)			\$32.85
Estimated Upside / (Downside)			10.5%

Investment Thesis

1. Strong market position, margins, and capital ratios compared to peers
2. Consistent management outperformance on guidance targets and loan growth
3. Well-positioned for pro-growth environment and potential tailwinds from tax reform and deregulation



UNIVERSITY OF
NOTRE DAME

AIM XLIV Review

Speakers

Website & Newsletter

Acknowledgements

AIM XLIV Review

Chicago Trip



AIM XLIV Review

Chicago Trip



Kelly Cornelis
Partner



Mat Klody
Portfolio Manager



Mike Melby
Founder & Portfolio Manager



Brendan Barrett
Vice President



 LaSalle Capital

 MCN CAPITAL
MANAGEMENT, LLC



 MDP®
MADISON DEARBORN PARTNERS, LLC

AIM XLIV Review

Chicago Trip



Richard Si
Associate



Michael Thomas
Associate



Tyler Bliha
Associate



Michael Nettesheim
Associate



MADISON DEARBORN PARTNERS, LLC



MADISON DEARBORN PARTNERS, LLC



MADISON DEARBORN PARTNERS, LLC



MADISON DEARBORN PARTNERS, LLC

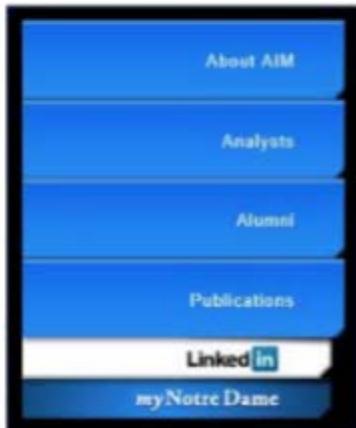
AIM XLIV Review

Website and Newsletter



Website: aim.nd.edu

- AIM course description and history
- Current portfolio
- Current analysts and coverage
- Recruiting and networking tools
- Advisory board presentation
- Alumni newsletters



Newsletter

- State of the economy
- Portfolio performance
- Company developments
- AIM alumni update
- Portfolio composition
- Alumni articles
- AIM analyst profiles
- Sector updates

The newsletter layout includes a header with the AIM logo and "QUARTERLY NEWSLETTER". It features several columns of content:

- Greeting from AIM:** A quote from Karen Styfer.
- Economy:** A section discussing economic growth rates and projections.
- Global Economic Outlook:** A section on the global economy, mentioning interest rate increases and market volatility.
- Trump Presidency:** A section on the impact of the Trump presidency on the economy.
- In This Issue:** A list of contents including "State of the Economy", "Portfolio Composition", "Sector Update", "Stock Update", "AIM Class Profile", and "New Professors".

AIM XLIV Review

Acknowledgements



Thank you for all of your guidance and support

AIM Advisory Board

Michael Hemler

Howard Lancer

Notre Dame Investment Office

Scott Malpass

James Quinn

Joe Schuppig

Kristen Collett-Schmitt

Pete Pietraszewski





UNIVERSITY OF
NOTRE DAME



Our Sincerest Thank You
