# DELTA INVESTMENT MANAGEMENT



#### Delta's 2020 Outlook

#### **Disclosures**

The presentation is being provided for informational purposes only and should not be used or construed as a recommendation of any security, sector or investment strategy.

The opinions in this presentation are as of the date of the presentation.

Stock and bond markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments as well as interest rate risk, inflation, credit and default rates. In addition, foreign securities are subject to interest rate, currency exchange rate, economic and political risks, all of which are magnified in emerging markets.

The S&P 500 Index is a market capitalization weighted index of 500 widely held stocks often used as a proxy for the stock market.

Consider the investment objectives, risks, charges, expenses, and instruments used to implement a strategy before investing.

Past performance is no guarantee of future results or returns.

Investing involves risk, including risk of loss.

Delta Investment Management is a California registered investment advisor. The firm is based in San Francisco, CA. For more information, please visit www.deltaim.com or call (415) 249-6337.

### **Delta Investment Management**

Delta is an SEC Registered Investment Advisor (RIA) headquartered in San Francisco. Delta's wealth management services have an emphasis of avoiding major bear markets. Delta manages separately managed accounts at TD Ameritrade and Charles Schwab for qualified retirement accounts (IRAs) and non-qualified accounts for individuals, trusts and corporations.



**Nick Atkeson** 



**Andrew Houghton** 



**Mike Kress** 



**Kyler Hasson** 



Jackie Ann Patterson

San Francisco Team

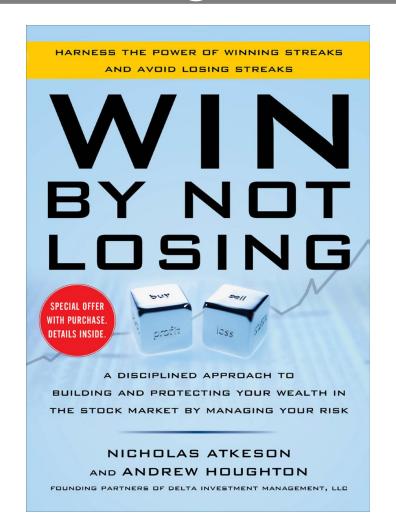
IARs
Los Angeles
Dallas
Greenville, SC

#### **Delta Investment Philosophy**

- We believe there are periods in market cycles to be fully invested and there are other periods not to be fully invested
- As such, we believe it is necessary to be proactive in managing money
- ❖ As active managers, we follow market-tested, proven investment disciplines
- During bullish cycles, we seek to invest in the strongest performing assets
- During bearish cycles, we seek to preserve capital by reducing exposure to risk assets
- We believe diversification in both asset type and asset allocation methodology strengthens portfolio performance through the full investment cycle

### Win by Not Losing

## Book Available On Amazon



#### **Weekly Newsletter**



**Delta Insights** 

a weekly commentary on investing

Delta Investment Management is a registered investment advisory firm headquartered in San Francisco.

Delta welcomes discussions with individuals seeking investment advice and advisors seeking a new partner.

Delta manages stock and bond portfolios at Schwab and TD Ameritrade.

Please contact Delta at info@deltaim.com or 415-249-6337 if you would like to learn more how we can be your partner.

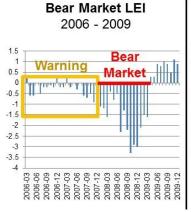
## The Hidden Risks of "Safe" Assets

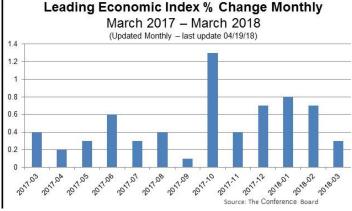
April 6, 2018

Dear Nick,

Money managers often advise clients who would like more safety in their portfolios to increase the weighting of bonds versus stocks. Historically, bonds have experienced lower volatility than stocks. Volatility (standard deviation) is one way risk is measured in finance.

#### **Stock Market Dashboard**





MARKET SENTIMENT IS

#### **BEARISH**

THIS WEEK'S NUMBER IS 45.9

Our technical indicator decreased this week from 46.7 to 45.9

#### **INDICATOR STATISTICS**

Consecutive Bearish Weeks:	6
Cycle Inception Date:	3/29/2018
Range:	30.7 - 47.0
Mean:	40.0
Bullish Weeks YTD:	12
Bearish Weeks YTD:	6
*S&P 500	-1.4%
*DJIA	-2.1%
*NASDAQ	-0.8%

<sup>\*</sup> Percentage change during current cycle



INVESTMENT MANAGEMENT

#### Delta MSI in Barron's

M57 BARRON'S

#### Market Laboratory • Indicators

12 15

-0.766

818

406

MONEYRATES					
	Leberk	Pres.	Tr-Age Week		
Discoveré Balor(NY)	- 5	1/2	Ψ,		
Prime Rate (best)	35	3/4	2%		
Fedifunds Sets Augaticalist offer Augaticalist Sets	å	007	.3		
T-Billis Barke 1) medic, (Impor Yield 1) medic, Auction Rds 35 medic, Coupon Field	6.896 6.855 6.886	0.085 0.085 0.081	1.079 1.079 1.170		

Homber Sonh Reserve Cogs. (NS. 1)			erffenh Laisei Week Ag		lear Igu ange	
Openweek ended Jan 29:						
U.S. Cov'l securities:						
Streeght auchtight:	3,836,903	+	13,961	+13	100,040	
Federal agency secur:						
Brought authority	54,811		-		-09,700	
Bosorvo bank credik:						
Primary Credit	17	٠	- 11	٠	10	
	_		_			
And post to provide high	- 4		- 1		- 0	

400 4

11,041

1,300 45,385 +

6.000

61,499

301 +

31,939 + 1,000 + 5,965

16 + 794

5 + 77

4,098,606 + 15,690 +1,686,008

4,144,381 + 15,779 +1,885,948

1,234,945 -1,422 + 76,623

86,287 + 11,000 + 16,216

42,810 + T504 + 21,264

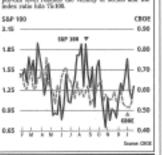
U631,165 + TTATT + 281,481 2,515,100 -0.000 + RM-666

\$300,000 -16,701 + TSURIT

Latest Proc.Wh. Wh.N. Tr.Age

-129

#### CROE PUT/CALL RATIO vs SRP 100 Readings in the CROE equity put-oal ratio of 68:100 and in the S&F 100 of 125:100 are considered bullish, for instance, Bearish signals flush when the opative pot-call level reaches the vicinity of 20:000 and the index yatis hits 75:100.



<b>DELTA MARKET SENTIME</b>	NTINDICATOR
-----------------------------	-------------

The Delta MSI measures the position of ~3,600 stocks relative to an intermediate-term moving average crossover (MAC) point. When greater than 50% of the stocks followed are above this MAC point, the market is bullish and equities are attractive. When the indicator is below 50%, risk is elevated and stock exposures should be reduced. Manager uses discretion on asset allocation when MSI is 50% +/-3%.

Current Sentiment	Last	2 Weeks	3 Weeks
	Week	Ago	Age
BULLISH	52.1%	67.4%	65.29

Current Market Exposure: 100% Equities, 0% Bonds, 0% Cash Source: Delta Investment Management www.deltaim.com, (415) 249-6337

0.36	1.26	6.3
		-
0.86	3.94	3.5
0.12	8.12	0.1
0.06	0.00	0.0
0.16	8.78	0.1
0.00	0.29	6.8
638	0.35	6.7
0.19	0.79	0.0
0.10	0.00	0.0
	050 011 020 020 010 020 020 020 020	0.00 3.04 0.12 0.02 0.00 0.00 0.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

SX Financial Information, p-Bankson,

#### DELTA MARKET SENTIMENT INDICATOR

The Delth MSI measures the predicts of -4.600 stocks wishful to on intermediate over a powing recognic conserver (MAC, soler, When years the results of the exclusion believed are solved with field species, the market is builded and expellent are with suffered to be obtained by the other parts of the other parts o Lasi 2Weeks 2Weeks Week Age Age

52.7% 67.4% Cornert Market Expenses: 180% Equation, PS-Stands, O'S-Cody Source Delta/remirrami/Managener seuro, delta/m.com, (415) 249

#### Wh. Chie. Chie. Ctu. MITURE 2,471,696 449 1400291 .58H,763 1.471,908 446 1,600,707 Required Pes IV 129,980 2.89 111,462 Excess Reserves: 2,448,638 2,345,610 458 1,521,686 Borossé/Feserves 119 982 -21.71 2.40.509 2.341.010 459 1521.335 Francisco Per Monetary Base 3,753,121 3,853,80T 2,75 2,744,169 # Fed supply of pre-manned reviews precided. ## Demand for receives Johnshideposits.

## programmed to recover (colorate deposition).
### Prior recovers capati entitle interest minimal discount valvation from remaining other than patracelar crofts. I man recover, an other fraud method or deleteratively development of valuating, or whose things a recognition and barraneous managements.

#### ADJUSTABLE MORTGAGE BASE RATES

	Jan 25	Am 21	Ys.Age	W/Chg
I Year Trees Sills	0.11	0.11	0.15	-26.67
Year Tress/Notes	0.40	0.40	0.29	53.85
Year Trees/Notes	0.50	0.78	0.39	105.13
Year Tress Notes	1.65	1.85	0.79	105.06
Year Trees Notes	2.82	2.86	1.90	48.42
) Year Trens 6ds	1.47	3.53	2.05	30.45
1th District % Dec	0.784	0.763	1,071	-26.80
FHFB Contract Sale	4.25	4.21	5.29	29.18
Fed annualized yields stijus and Hawaing Finance Board. Sound From source.	ted for con URF Cask of	diser no Numbro	contract)	ribros plisoos

#### INVESTOR SENTIMENT READINGS

High bullish readings in the Consensus stock index or in the Market Vancutuck index usually are signs of Market Laps; low ours, market bottome.

	Week	Age	Agu
Consensus Index			
Consensus Bullish Sertiment	60%	71%	72%
Source Consumus Inc., P.	.0.8ex530	525,Indispen	dence, Me.
Historiani dali sarvallable si (1010) (10			
ANtitudex			
Deliah	32.2%	35.7%	39.8%
Deurish	32.8	23.8	21.5
Rectral	35.1	38.1	38.5
Source American			i bructery.
RCTs Nr. Frilla Fergus Arres.	, Chicago, E	L406T1[313	0398-0179.
Market Vane			
Ballish Consensus	61%	69%	68%
	March Marks	# None P.O.	Bur 104RG

Peruntury, CA 95 109 64343 996-1418. TIM Group Market Sentiment Indicate Formely-Red Coverage) 54.5% \$3.7% \$4.3% Source: TitleGroup 101 Arch 14, Suite 1765 Boston, MAGET 18 (KTT/1813-81) 69. Smoopport@rimgroup.com

#### MOMEY SUPPLY

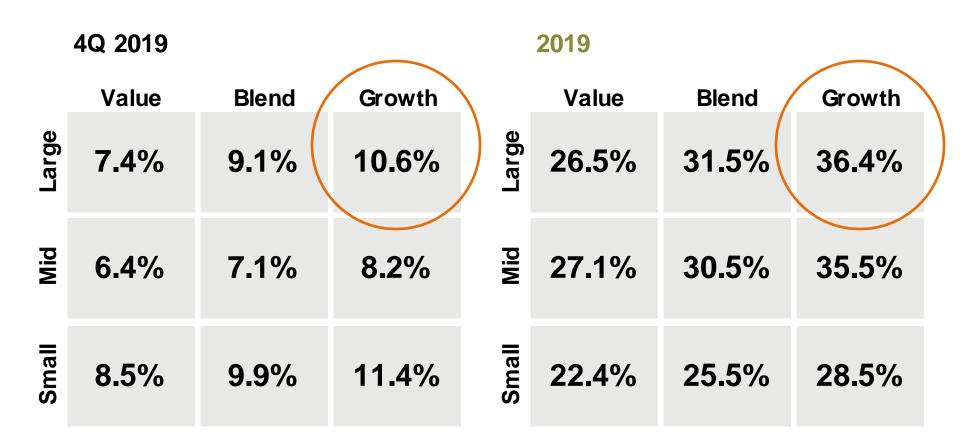
Nome: Supply (DR, Sococ. od).)	Lefoot	From.	St. Apr	FRETH-Gig
WorkendedJumuury 20				
MI	2677.5	(1,0000)	547010	8.37
MO	11817.2	r10067.9	10403.4	5.80
Tyru (Weeks) and ad January (2.2)				
Mill Multipiller (St. Louis Fed)	1.699	0.718	0.881	20.00
Monthly Menay Supply Month anded December				
MI	C90.01.4	19857.3	2440.1	8.54
MR		10008.3		5.36

#### POREIGN EXCHANGE Priday, January 31, 3014 The densign-scalange and range rates below apply to trading among banks in smoonts of St. million and more, so quoted at 8 p.m. Kastern Line by Restarnand other courses. Retail transac-

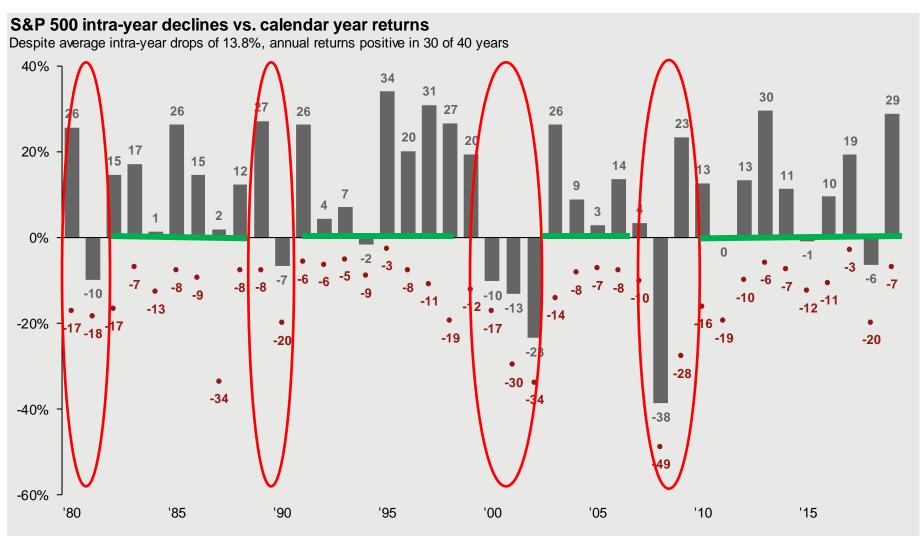
tions provide ferrer u	DBH HTTHEN	to cause	Chiber quip	r
	Fereign	Fareign	E.S. Dis Foreign	E.S. St Ferreig
	124.5.5	164.6.6	Currency	Current
Country	Fri.	Last Pri.	Pri.	LastTr
Argentine (Fredry	.3347	.1000	1010	1.99
Avetralia (Date)	479	.8694	1.1421	1.101
I month forward	.8739	.8007	1.1443	1.160
5-nontrionant	.8703	.800	1.1498	1.19
6 months forward	ARIN	490	1, 9900	1, 90
Baheale (Drur)	1800 416	21029	24138	139
Brack (Au) Canada (Inde)	.00	.801	1.1138	1.10
Chille Proci	,00480	.00467	550,59	996.5
China (Fermina)	.300	. 304	5000	6.04
Colombia (No.	3004901	3000000	2015.63	9000.0
Greek, Flep. (Korund)				
Commercial table	04901	.04979	20.400	30.00
Denmark (Nove)	.3800	-1633	58814	6.40
Excussion (UE Date)	1.0081	1.000	1.0001	1.00
Egypt if overli-s	.1487	.1407	69000	6.90
Hong Kong (Color)	.2200	. 1200	1.7945	1.762
Hungary (linis)	2045-0	004488	251.94	955.4
India(Neptr)	,26601	HIGHS.	48,909	68.70
Indonesia (kujur)	.1000624	3000623	1218	121
Innest (Steller)	3000011	306775	100.04	100.1
Japan (rec)	138900	406777	100,04	108.2
3-months bowned	30985	206701	101.99	101.1
5 months breast	300611	406786	101.63	103.1
Jordan(The)	1.4191	1.4147	3067	300
KuwaltiOnsi	5.5886	59490	3830	.36
Lebason (Frant)	.1008441	2000651	1504.10	1903.4
Historyala (Firest) h	2676	3943	5.8611	534
Medica (Fra)				
Reading rate	.0149	.0140	15/5607	1549
Hew Zouland (Doke)	.8080	.800	1.2367	1.336
Horwite (Krimi)	.1061	.1001	4,2761	614
Palitistan (hype)	30648	00949	106/639	106.36
Pers (rev 10)	.2546	.2544	2:8969	288
Philippines (free)	46967	. 46967	48.334	46.3
Petrand (Sd)	3179	.2301	0.1018	51000 54.00
Russiscitation of Saudi Arabia (Toxi)	3991	399	2,7909	2.79
Singapore (Iloter)	388	380	1.2967	1.03
Seully Miles (Runs)	2000	.0902	11.3337	11.00
South/Korse (Min)	,1000048	,0000201	1084.86	10801
Secretary(Varia)	.1127	.180	6,3903	0.440
Switzerland (Fan)	1.1085	1,1102	.9065	.694
-manifelanteral	1.1080	1.7162	800	.394
3-months forward	1.1099	1.1103	.9001	.894
S months browns	1.1087	1.7184	8000	344
Tahuan (Differ)	20399	20909	20:229	90:33
Theiland (fult)	46088	:00049	36-051	50.84
Turkey@lest.ing-d	ARES	4980	1.2967	1338
U.K. Point	1.5429	1.0484	5068	.600
1-month/orward	1 0434	1.0480	8084	.80
3-months forward	1.5401	1.6473	5067	.60
E-months forward (Analysis Analysis)	2707	2723	35796	561
United Anabigintum; Unappey (Proc)	230	430	2219	9691
Francis	24009	54674	27,009	21.01
Venezuela (ficivo)	152360	150,600	638	6.7
_				
Suro .	1,3488	1367	.3414	311
Sonical District or Rights	AUTO SEE BUILD	POTOTY NICE BOX	man satisfy for	mental.

Billith, and beginning commodes. Source International Monetary Fur a Replan Control Bank rate in government rate in reharmed as of has 2005, y floating rate.

#### Performance: Style & Size



### S&P 500 Returns and Drawdowns



Source: JP Morgan Asset Management

#### **Quantifying Drawdowns & Recoveries**

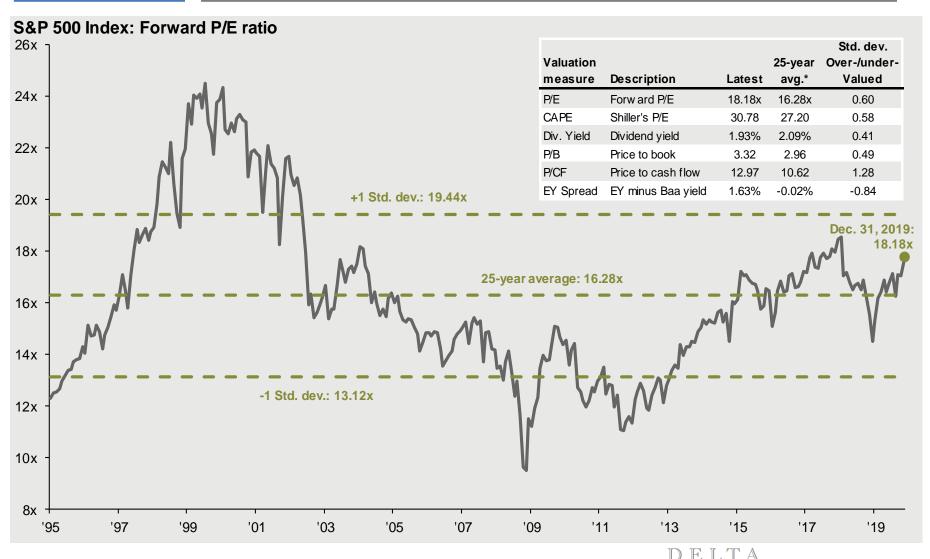
Drawdown %	Occurences	AVG Days to Recovery	AVG Days of Decline
5-10	40	34	24
10-20	14	72	96
20-30	4	182	260
30-40	2	432	220
40+	3	1215	476

1/3/1950 – 7/8/2019, Days are trading days only

#### Importance of Recessions

- The 3 pullbacks of > than 40% all occurred during recessions; 1973-74, 2000-02, 2007-09.
- The 2 pullbacks of 30-40% occurred outside of recessions. The most recent was "Black Monday" in October 1987. The S&P 500 declined by 33.5% from high to low but ended the year in positive territory and rallied another 12% the following year. The second instance was Nov. 1968 to Dec. 1970. 1968 and 1970 were positive calendar years. 1969 the S&P 500 declined by -11.4%
- The average time to recovery on the remaining pullbacks is 3 months.

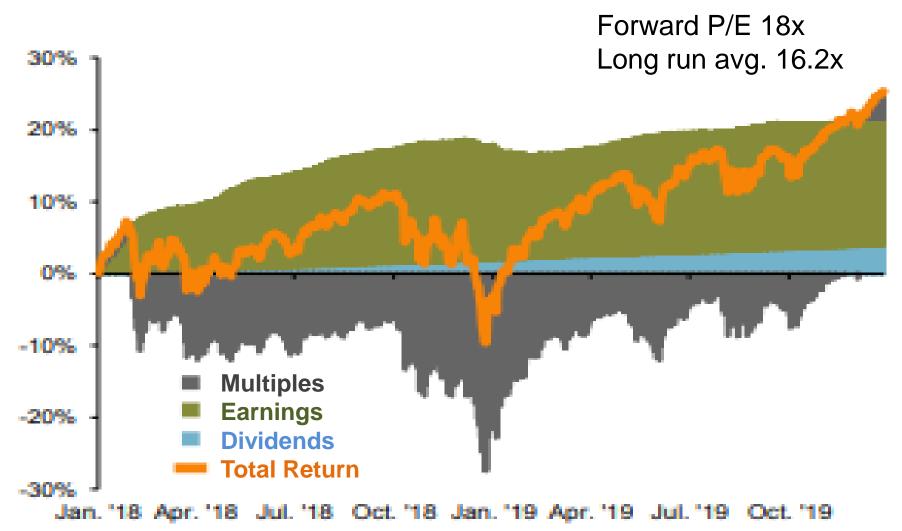
#### **Valuation**



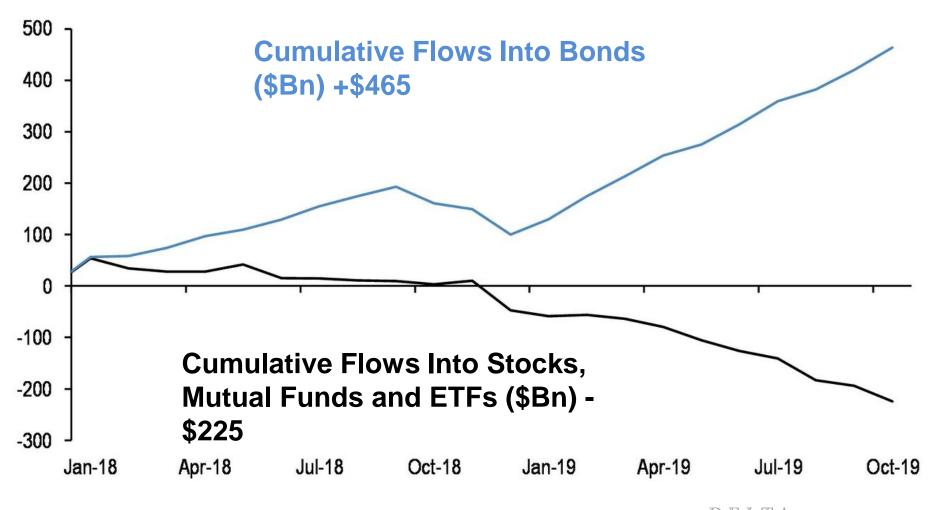
Source: JP Morgan Asset Management, FactSet, Robert Shiller, Standard & Poor's, Thomson Reuters

INVESTMENT MANAGEMENT

#### 2018 – 2019 In Review



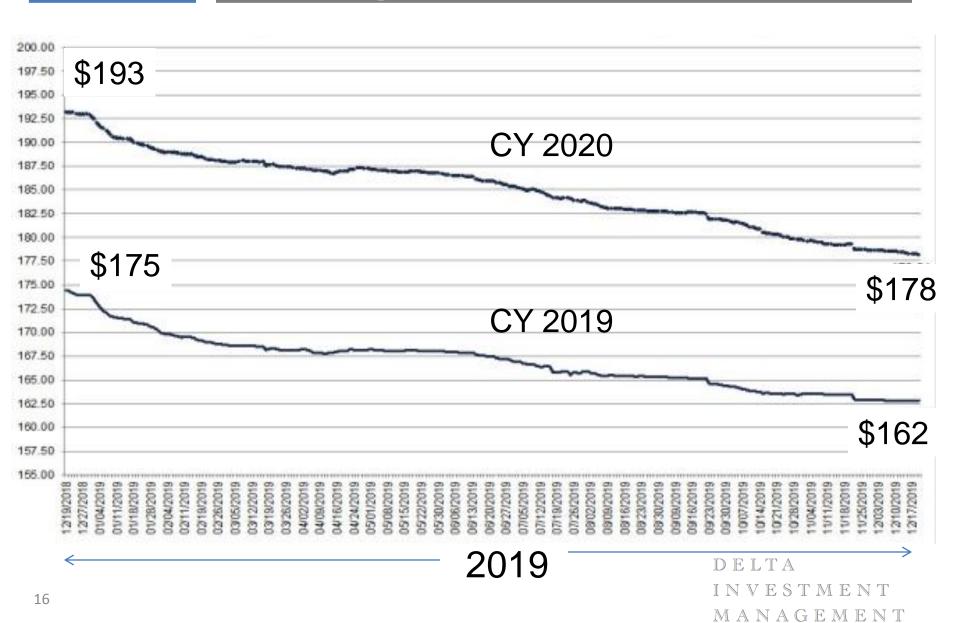
#### **Cumulative Fund Flows**



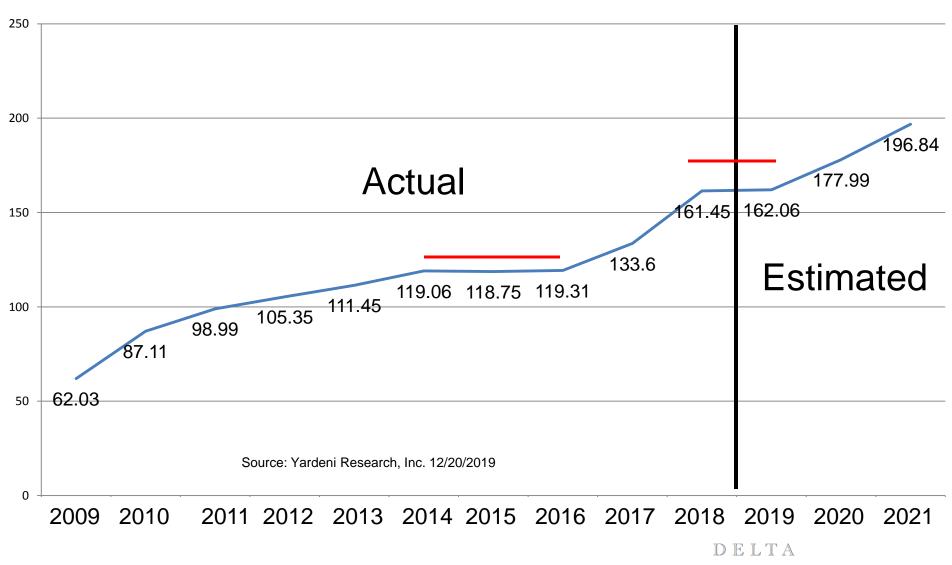
#### **Stock Market Valuation Model**

Stock Prices = Risk-Free + Risk Premium (anxiety, uncertainty)

### **Earnings Revisions**



#### S&P 500 Earnings



INVESTMENT MANAGEMENT

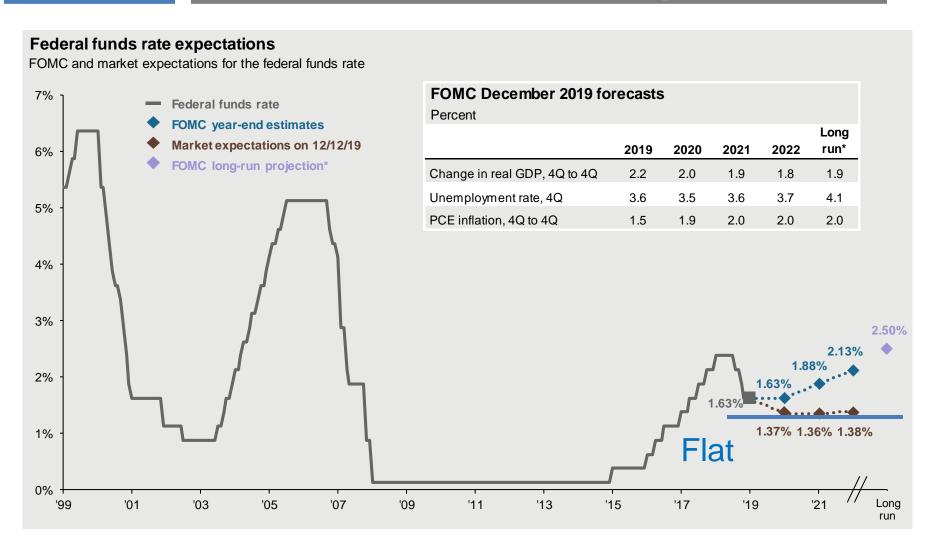
#### **Risk-Free Rate**

#### 1-Month U.S. Treasury Rate

~ 1.5%

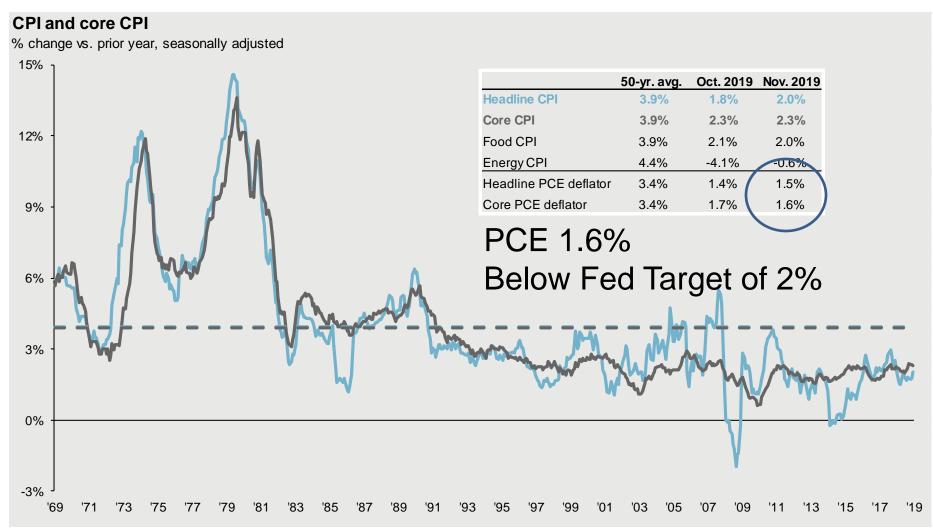
We use the one-month U.S. treasury rate as the risk-free rate. This rate is currently 1.50%. At the end of October, the Fed cut the Fed Funds rate for the third time this year reversing the 2018 rate increases. They signaled that they are likely to be patient and not move rates again unless the data is highly compelling. Taking the Fed at face value, we predict no change in the risk-free rate by this time next year.

### Federal Funds Rate Expectations



Source: JP Morgan Asset Management, Bloomberg, FacttSet, Federal Reserve

#### Inflation



Source: U.S. Bureau of Economic Analysis

### **High Yield Spread**



### **Risk Premium**

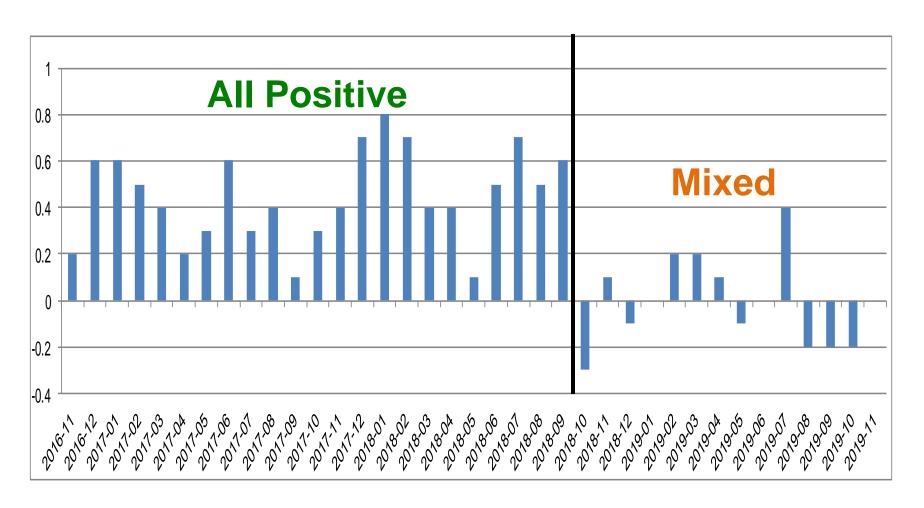
	<b>Stock Price</b>	Earnings	Risk Free Rat	Risk Premium
2020	3,578.91	196.84	1.50%	4.0%
2019	3,220.00	162.06	1.58%	3.5%
2018	2,767.00	162.65	1.30%	4.6%
2017	2,673.61	131.45	0.54%	4.4%
2016	2,238.43	118.24	0.24%	5.0%
2015	2,043.94	106.32	0.12%	5.1%
2014	2,058.90	113.01	0.09%	5.4%
2013	1,848.36	107.30	0.16%	5.6%
2012	1,426.19	96.82	0.07%	6.7%
2011	1,257.60	96.44	0.18%	7.5%
2010	1,257.64	83.77	0.12%	6.5%
2009	1,115.10	56.86	0.16%	4.9%
2008	903.25	49.51	4.24%	1.2%
2007	1,468.36	82.54	5.24%	0.4%
2006	1,418.30	87.72	4.16%	2.0%
2005	1,248.29	76.45	2.16%	4.0%
2004	1,211.92	67.68	0.98%	4.6%
2003	1,111.91	54.69	1.24%	3.7%
2002	879.82	46.04	1.82%	3.4%
2001	1,148.09	38.85	6.40%	-3.0%
2000	1,320.28	56.13	5.30%	-1.0%

### S&P 500 1-yr. Forecast

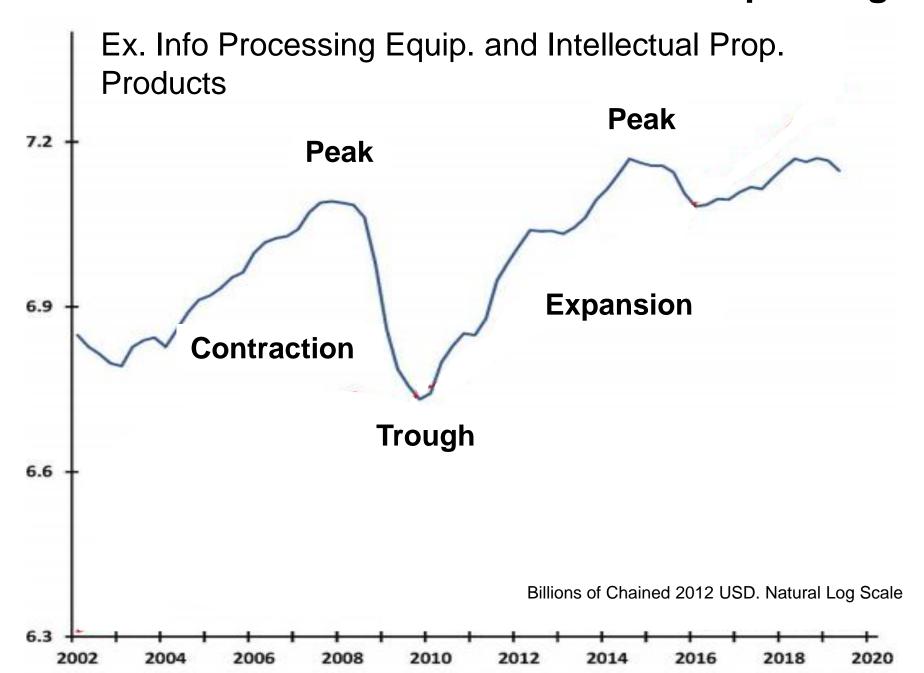
```
S&P 500
1-yr Forecast
3,579

Risk-Free + Risk
Rate Premium
1-M Treasury 4%
1.5%
```

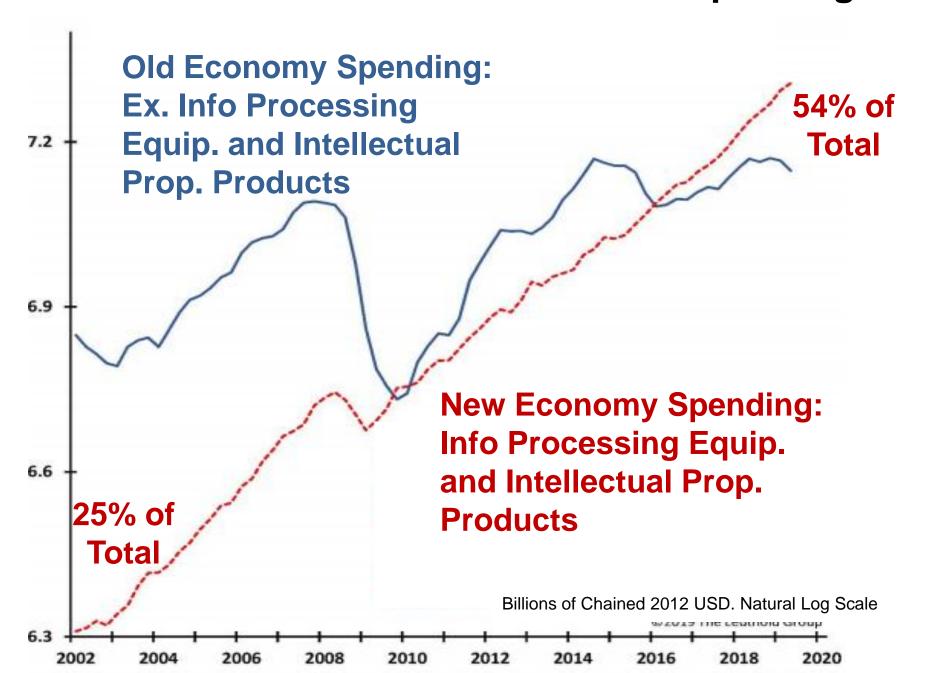
#### **Risk of Recession - LEI**



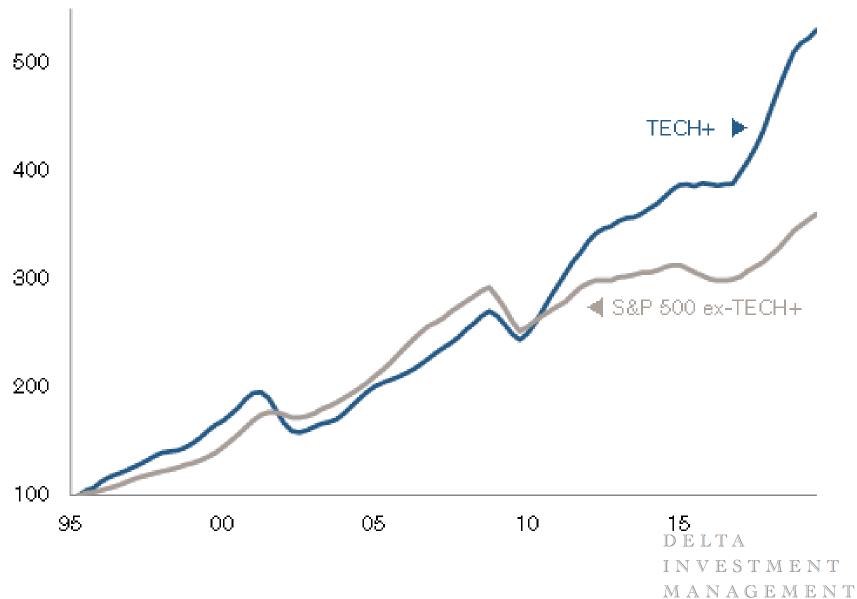
#### **U.S. Real Nonresidential Investment Spending**



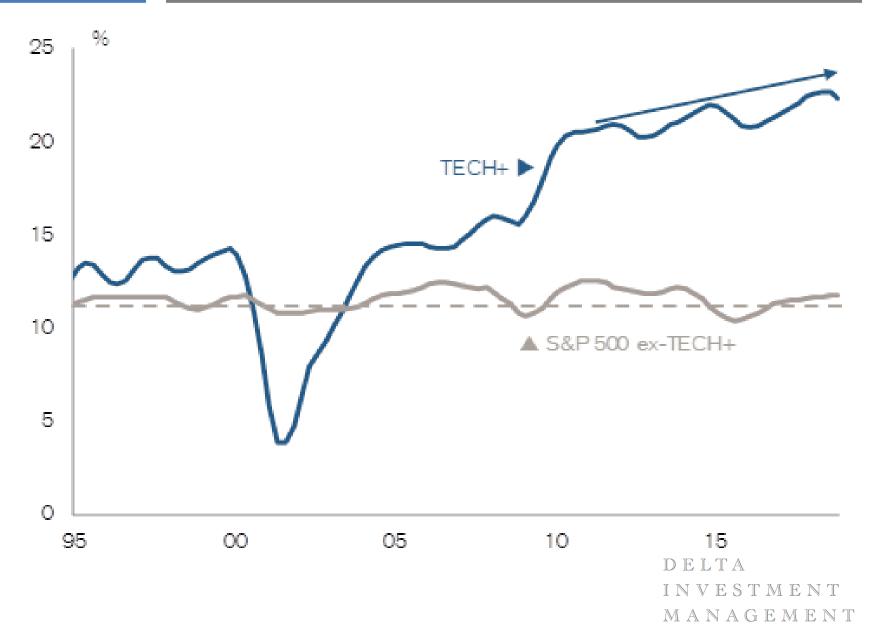
#### **U.S. Real Nonresidential Investment Spending**



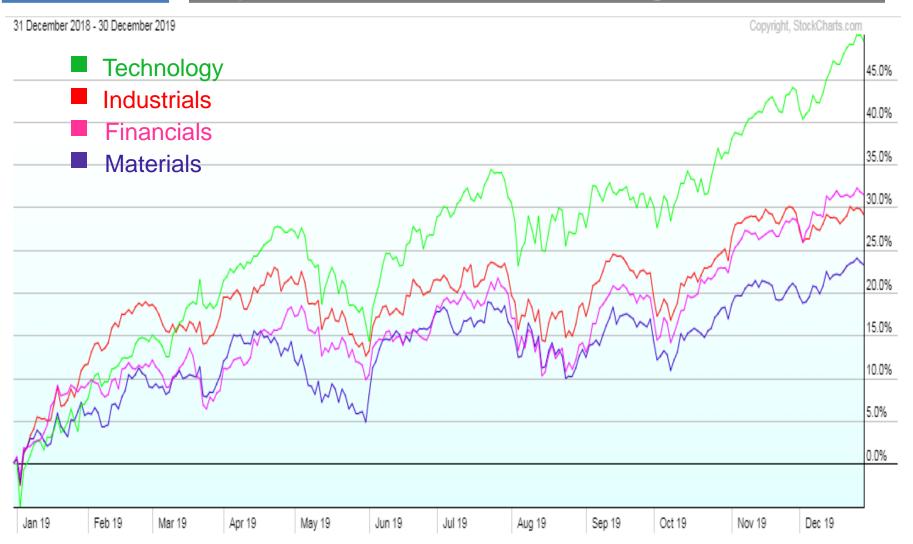
### **Revenue Growth**



### **EBIT MARGINS**



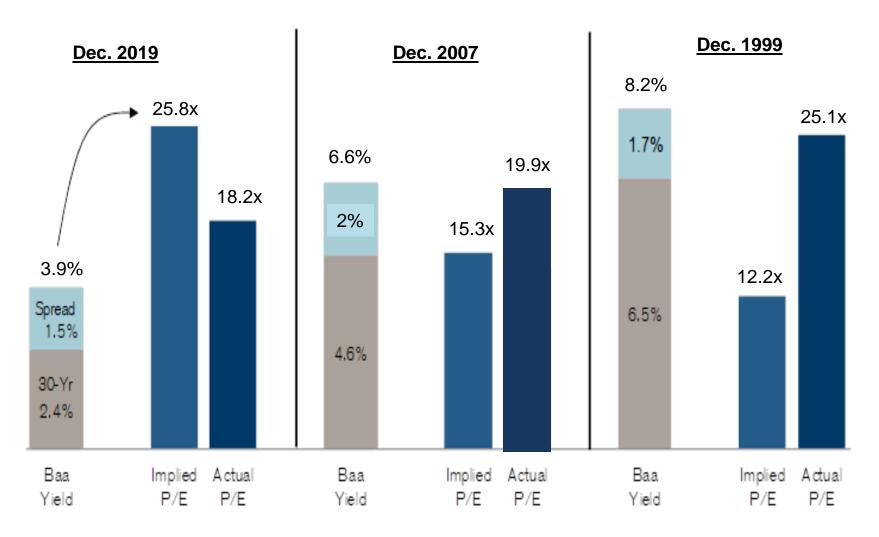
### **Cyclical Sector Strength**



### **Europe Reaches New Highs**



### Bond Yields vs. S&P 500 P/E



DELTA
INVESTMENT
MANAGEMENT

#### Bond Yields vs. S&P 500 P/E

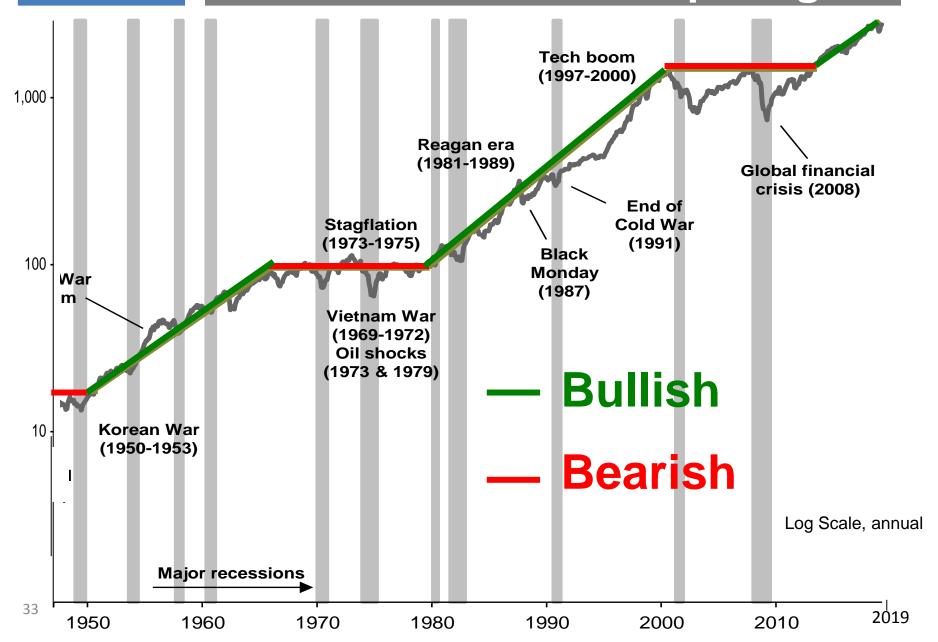
P/E versus E/P

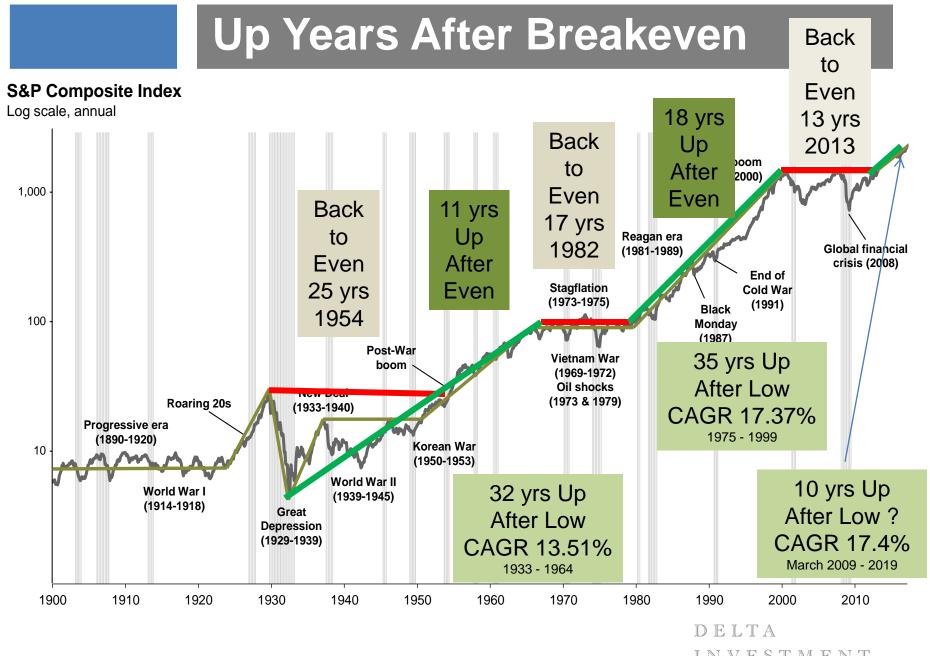
Bond Yield (E/P) 3.9%

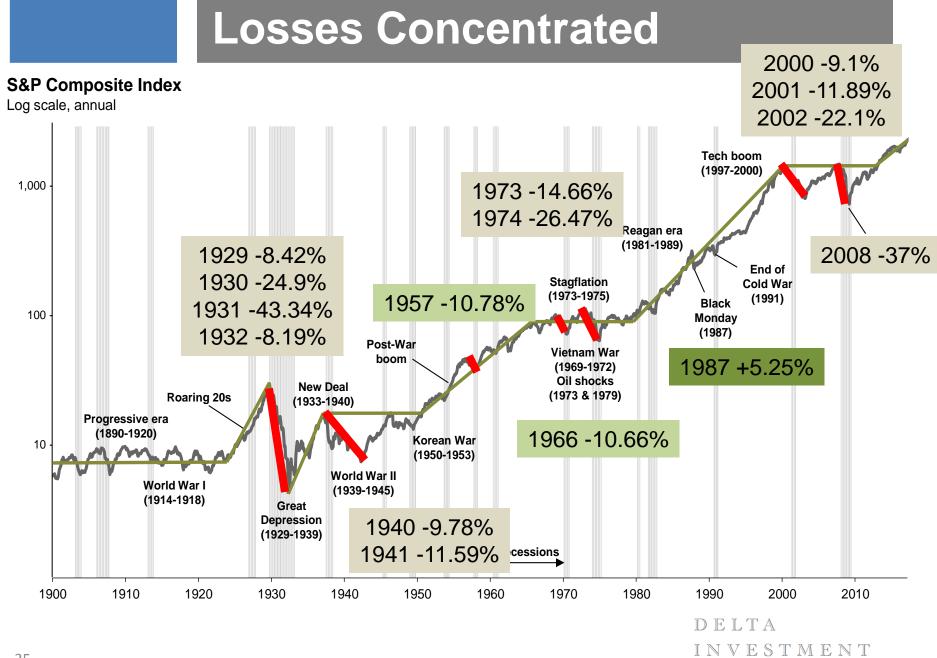
\$163/P = 3.9%

P = 4,205

#### **Stock Market Stair-Steps Higher**







MANAGEMENT

#### **Invest With Delta**

- An Active and Engaged Partnership to Achieve Your Financial Goals
- Alignment of Your Interests with Our Interests: Fiduciary to build and protect your wealth
- Comprehensive Wealth Management Solutions
- Focus on Your Absolute Returns
- Pro-active Downside Risk Mitigation We Actively Protect Your Money
- Transparency of Process and Holdings
- Personalized Service

#### Delta Investment Management, LLC

708 Montgomery Street San Francisco, CA 94111

> 415.249.6337 www.deltaim.com

Nick Atkeson nick@deltaim.com

Andrew Houghton andrew@deltaim.com

Mike Kress mike@deltaim.com Kyler Hasson kyler@deltaim.com

Important disclosure: Past performance does not guarantee future results. Investment strategies offer risk that cold result in a loss of principal which the client will bear. Consider the investment objectives, risks, charges, expenses, and instruments used to implement a strategy before investing.