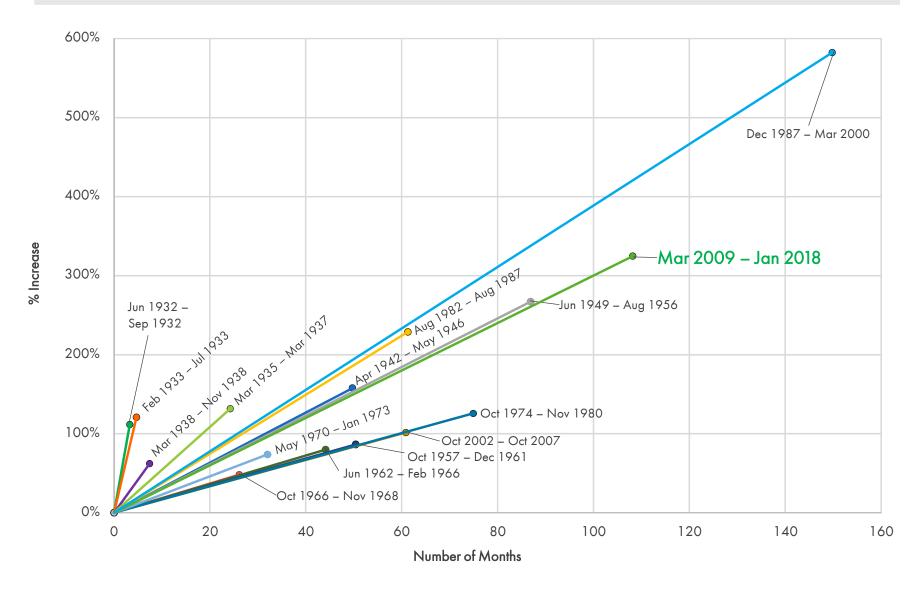


March 2018

## Second Longest Bull Run





#### Bear Market Distinctions

#### Event-Driven

- One-off shock that does not lead to a recession
  - War, oil spike, technical market dislocation

# Cyclical

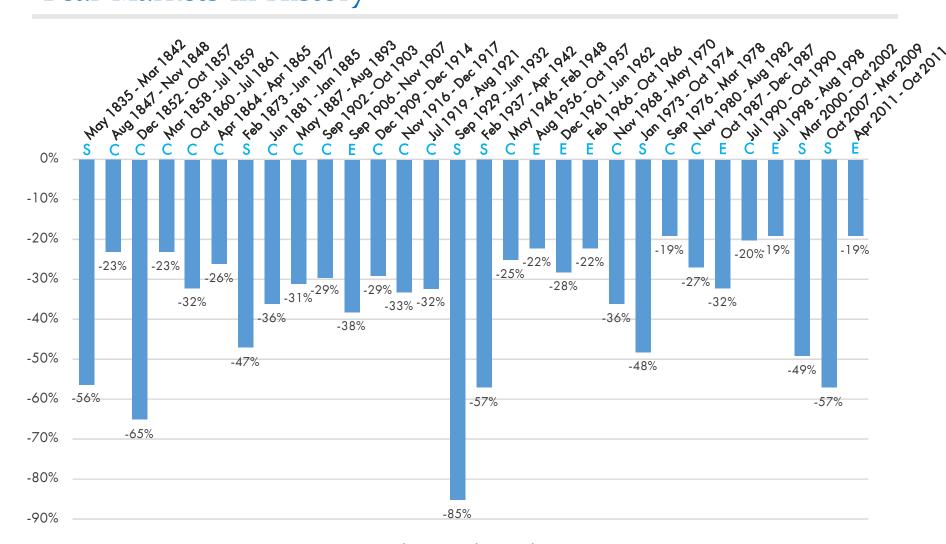
- Related to business cycle
  - Historically triggered by tightening monetary policy
  - Profits fall, economy contracts

#### Structural

- Extreme financial imbalances
  - Debt, valuation become unsustainable



#### Bear Markets in History

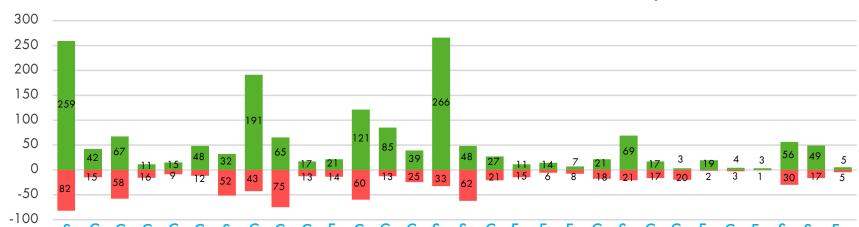


Historical Bear Markets Decline %



#### Bear Markets in History

#### Historical Bear Markets' Months of Decline versus Recovery



S S

See Leb May 1940, 1940

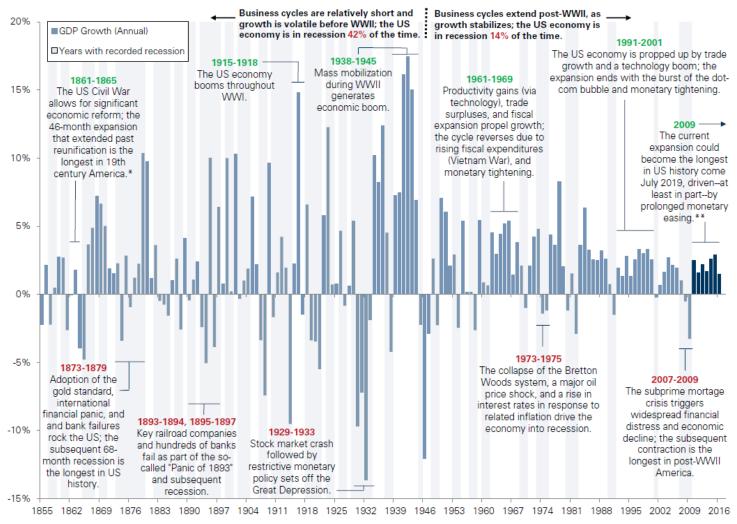
See Leb May 1940, 1 Mar 200 2001 Mar 2009 C Od Hora AND 1847 . HOY 1848 Dec 1909, Dec 1914 Aug 1956 Oct 1957 (ab) Odiobb Her 858 Jul 859 Oct 1860 Jul 1861 A91.864. A91.865 Jun 1881. Jun 1885 May 887, Aug 1893 404 976. Dec 1917 Dec 1001 . Jun 1002 68 873 Jun 87 Jul 919. Aug 1921 Jul 1998, Aug 1998 

# Months to Recover to Previous Level (Nominal) # Months of Decline

S&P 500 – Bear Market			Time to recover back to previous level		
Туре	Length (m)	Decline (%)	Nominal (m)	Real (m)	
Average	26	-35	54	82	
Median	17	-31	29	37	
Average Structural	42	-57	111	134	
Average Cyclical	26	-30	48	75	
Average Event Driven	7	-26	11	48	



## Economy Fluctuates (But Not As Much As It Did)



<sup>\*</sup>The NBER tracks economic cycles beginning in 1854.

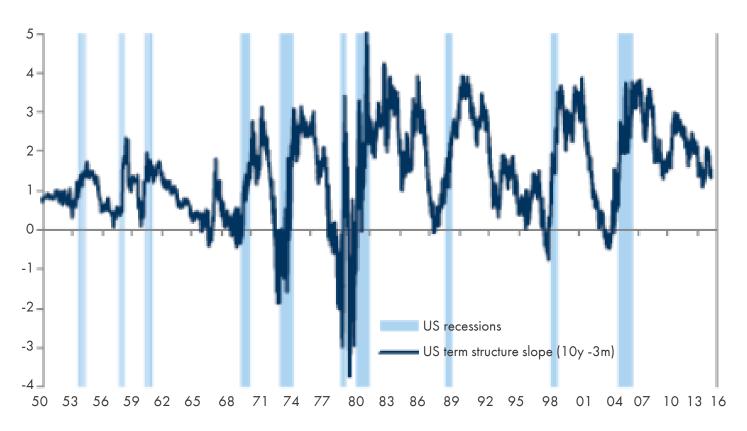


<sup>\*\*</sup>The Barro-Ursua dataset used for historical US GDP runs through 2009; Fed data is used from 2009 through the present.

Source: Goldman Sachs Global Investment Research, Harvard University (Barro-Ursua Macroeconomic Data 2010), Federal Reserve, NBER, various news sources

#### Recession Conditions—Yield Curve

US 10-year Treasury yield minus 90-day Treasury bill yield

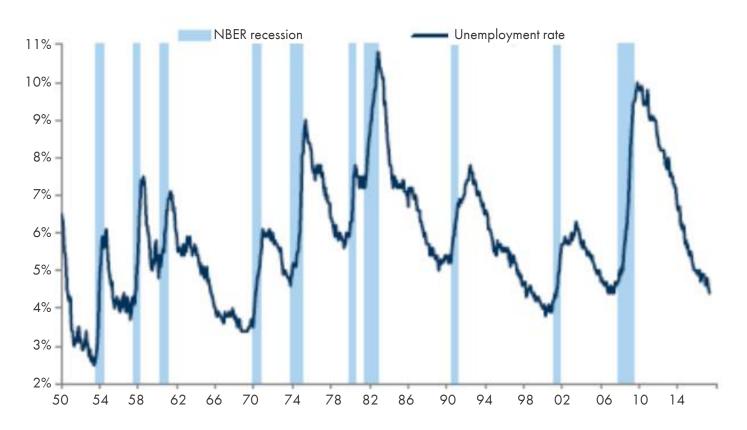


Source: Global Financial Database, Goldman Sachs Global Investment Research



# Recession Conditions—Unemployment

#### US unemployment rate, NBER recessions

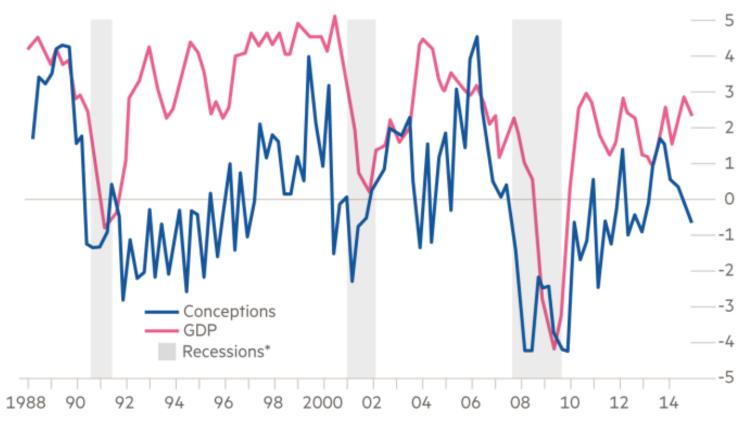


Source: Datastream, Goldman Sachs Global Investment Research



# Recession Conditions—Fertility

Change compared with the same quarter a year earlier (%)





<sup>\*</sup> National Bureau of Economic Research classification

# Bear Market Signals

					Data		Type of
Indicator	Category	Current	Trigger	Triggered	sinced	Hit rate %b	trigger
Fed raising rates	Credit	125bp	>75bp	$\overline{\checkmark}$	1983	100%	Stays on
Tightening credit conditions	Credit	-10.0%	>0%		1990	100%	Resets
Trailing S&P 500 12m returns	Returns	18%	>11%	$\checkmark$	1936	92%	Resets
Trailing S&P 500 24m returns	Returns	47%	>30%	$\overline{\checkmark}$	1936	92%	Resets
Low quality outperforms high quality (last 6m)	Returnse	-3ppt	>0ppt		1986	100%	Resets
Momentum outperforming (6m/12m)	Returnse	+4ppt/+5ppt	>0ppt	$\overline{\checkmark}$	1986	100%	Resets
Growth outperforming (6m/12m)	Returnse	+5ppt/+6ppt	>0ppt	$\overline{\checkmark}$	1986	100%	Resets
5% pullback over prior 12m	Returns	1	>0	$\overline{\checkmark}$	1928	92%	Resets
Low PE underperforms (6m/12m)	Returnse	+3ppt/-0ppt	<0ppt		1986	100%	Resets
Conf Board consumer confidence	Sentiment	125	>100	$\overline{\checkmark}$	1969	100%	Resets
Conf Board net % expecting stocks higher	Sentiment	32	>20	$\overline{\checkmark}$	1988	100%	Resets
Lack of reward to EPS & sales beats	Sentiment	0.74ppt	<1ppt	$\overline{\checkmark}$	3Q00	100%	Resets
Sell side indicator	Sentiment	56.9%	>63%		1988	100%	Resets
FMS cash levels	Sentiment	4.4%	<3.5%		2001	100%	Resets
Inverted yield curve	Sentiment	69bp	<0bp		1962	88%	Stays on
Chg in long-term growth expectations	Sentiment	+2.2ppt	+0.6ppt	$\overline{\checkmark}$	1987	100%	Resets
Rule of 20	Valuation	23	>20	$\overline{\checkmark}$	1961	100%	Resets
VIX rises over prior 3m	Sentiment	37	>20	$\overline{\checkmark}$	1986a	100%	Resets
ERR rule	Growth	Yesc	See	⋈	1987	100%	Stays on

Source: BofAML US Equity & Quant Strategy, BofAML Global Investment Strategy, FRB, S&P, Conference Board, BLS; 'Based on VXO 1986-1989; '% of bear markets where signal was trigged either before or during a bear market; 'ERR rule: Within six months' window 1) the 1m ERR is below 1.0 for two or more months, 2) the 1m ERR drops from 1.0+ to below 1.0 and, 3) the 3m ERR is under 1.10; 'Data that first became available during a bear market was not analyzed for that respective bear market; 'Relative to equalweight S&P 500 price index

Table 6: Percent of bear market signposts triggered prior to the start of a bear market, since 1968

Prior bear markets start date	Available signals	Signals triggered	% triggered
Nov-68	6	6	100%
Jan-73	6	6	100%
Nov-80	6	6	100%
Aug-87	14	13	93%
Jul-90	17	17	100%
Mar-00	18	18	100%
Oct-07	19	19	100%
Current	19	11	58%

Source: BofAML US Equity & Quant Strategy

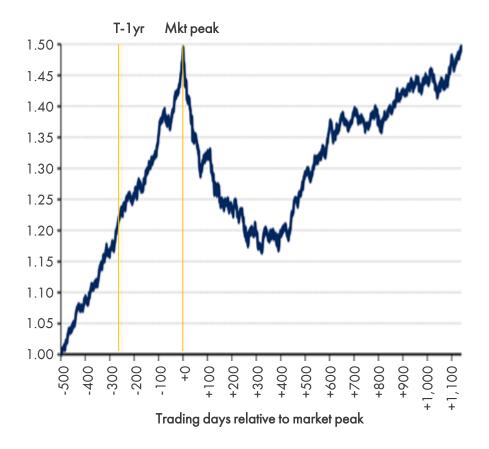


# Cost of Being Early

#### Historical S&P 500 Total Returns Preceding Market Peaks

	RETURN				
Peak	24 months	12 months	6 months		
Mar-3 <i>7</i>	129%	33%	19%		
May-46	72%	33%	15%		
Aug-56	74%	20%	15%		
Dec-61	32%	32%	11%		
Feb-66	30%	11%	11%		
Nov-68	44%	18%	12%		
Jan-73	39%	19%	14%		
Nov-80	65%	39%	29%		
Aug-87	93%	40%	20%		
Jul-90	45%	15%	10%		
Mar-00	42%	22%	20%		
Oct-07	36%	18%	9%		
Today	35%	20%	10%		
Average	58%	25%	16%		
Median	45%	21%	14%		
Min	30%	11%	9%		
Max	129%	40%	29%		

#### Average Daily Performance of S&P 500 Before and After Market Peaks



Source: BofAML US Equity & Quant Strategy, Bloomberg, S&P



# Cost of Being Uninvested

S&P 500 Returns by Decade Excluding the Best and Worst Days

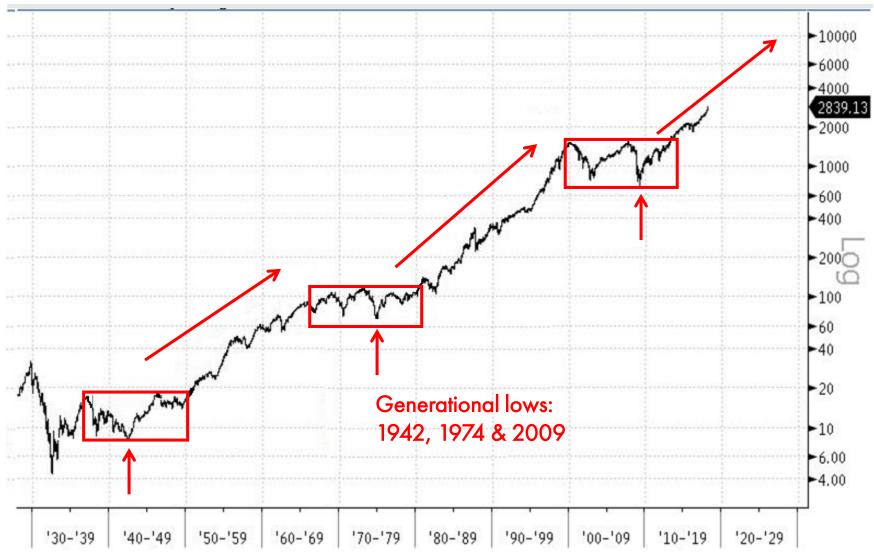
<u>Decade</u>	Price return	Excluding best 10d per decade	Excluding worst 10d per decade	Excluding best/worst  10d per decade
1930	-42%	-79%	39%	-50%
1940	35%	-14%	136%	51%
1950	257%	167%	425%	293%
1960	54%	14%	107%	54%
1970	17%	-20%	59%	8%
1980	227%	108%	572%	328%
1990	316%	186%	526%	330%
2000	-24%	-62%	57%	-21%
2010	121%	52%	241%	133%
Since 1930	11,415%	49%	1,275,665%	16,389%

Note: Latest decade as of 7/24/2017

Source: S&P, BofA Merrill Lynch US Equity & Quant Strategy



## Structural Bull Market







#### Structural Bull Market and Recessions



Source: BofA Merrill Lynch Global Research, Bloomberg

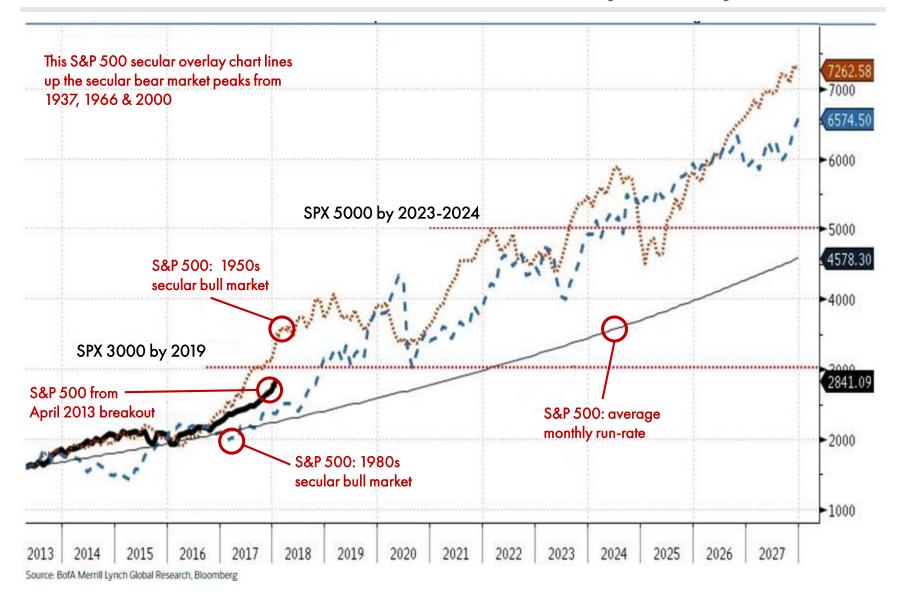


#### Structural Bull Market and Interest Rates





# Previous Structural Bull Markets and Today Overlay





Angeles Investment Advisors LLC is a global investment management firm serving select institutions and high net worth families and individuals. Angeles was founded in 2001, and has offices in Santa Monica and Chicago.

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