

## Practitioners' Insights : Investing Under Uncertainties

By Kuntal Shah

13<sup>th</sup> May 2020

1

# Investing Under Uncertainties



"Man is a deterministic device thrown into a probabilistic universe. In this match, surprises are expected"

- Michael Lewis

Index



Sr. No.	Section	Slide No.
1	Pre-COVID-19 Conditions	4
2	COVID Moving Parts	15
3	A Tale of Two Centuries : 1910-1930 vs. 2000-2020	27
4	Process : Portfolio Construction in a Post-COVID World	30
5	Annexure	38

#### Compiled by :



Kuntal Shah Member, Board of Management, FLAME University



Neharika Bayas Student, FLAME University



Raj Agrawal Student, FLAME University



Upasna Lamba Data Analyst, Oaklane Capital Management LLP



Utsav Adani Data Analyst, Oaklane Capital Management LLP



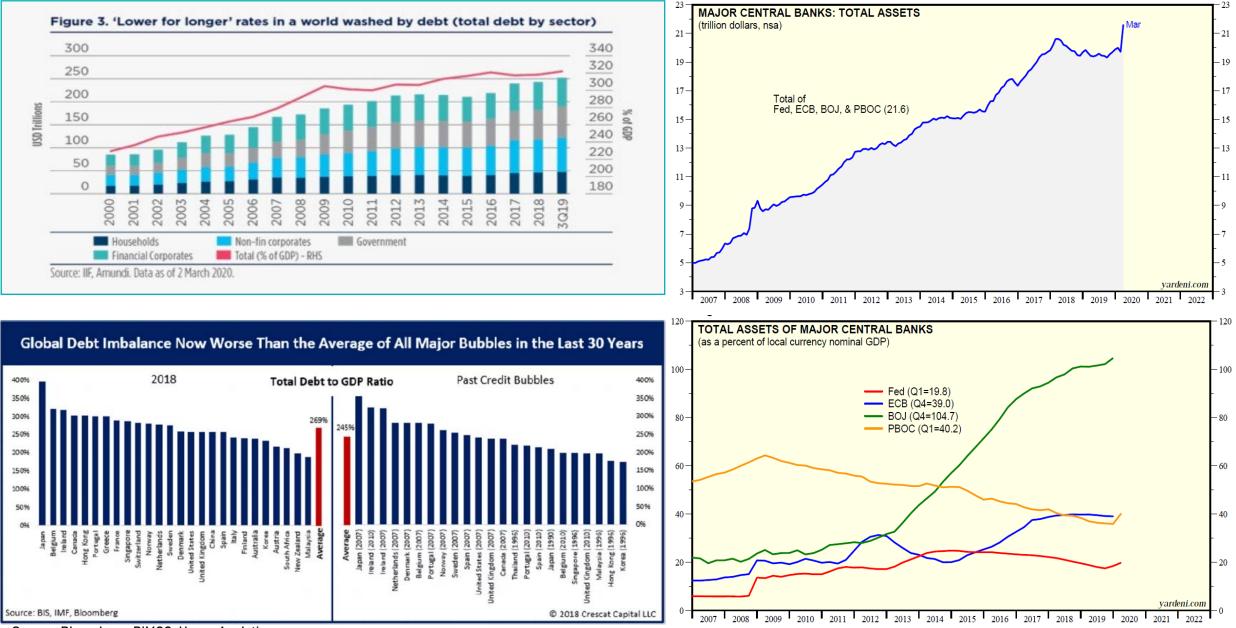
# Pre-COVID-19 Conditions

Kalidas

N IN

"It is difficult to make predictions, especially about the future" - Niels Bohr

#### **Elevated Debt Levels and Rock Bottom Interest Rates**



Source: Bloomberg, PIMCO, Hover Analytics



### Negative Bond Yields and Currency Interplays : Supply or Price, but not Both?



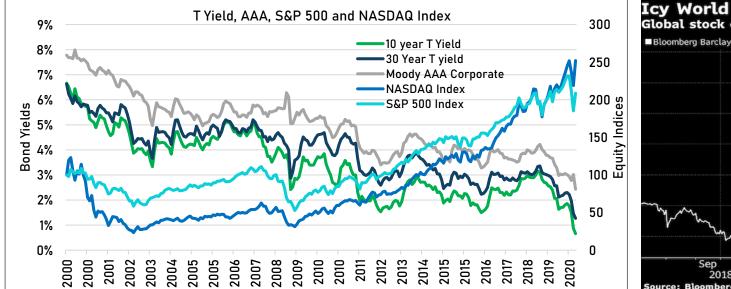




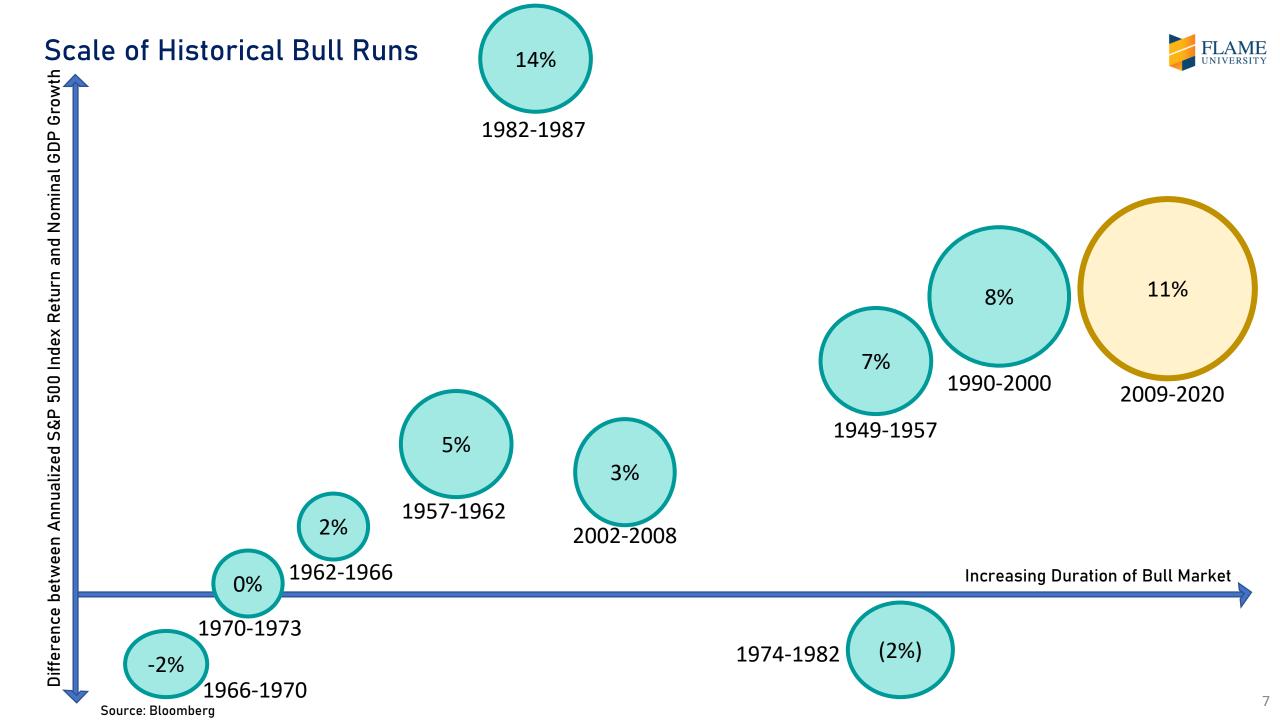
Chart 1: St	ill the lo	west in	terest ra	ites in 5	000 year	rs!					
20%							- Short-ter	m rates		-Long-terr	n rates
18% -										9	
16% -									1		
14% -											
12% -	(										
10% -											
8% -	115	٨								A.	
6% -		-		- 1.		ι <b>Λ</b> Λ.	11		AN		
4% -	V Un	JW	A	<b>pv</b>			her M	174	M	V M	
2% -				5		A.M.	and the second s	- All	1	Ĩ V₩	
0%		/									
3000BC	300	1720	1755	1790	1825	1860	1895	1930	1965	2000	2035

Sources: Bank of England, Global Financial Data, Homer and Sylla "A History of Interest Rates"

Note: the intervals on the x-axis change through time up to 1700. From 1700 onwards they are annual intervals. Full methodology available upon request

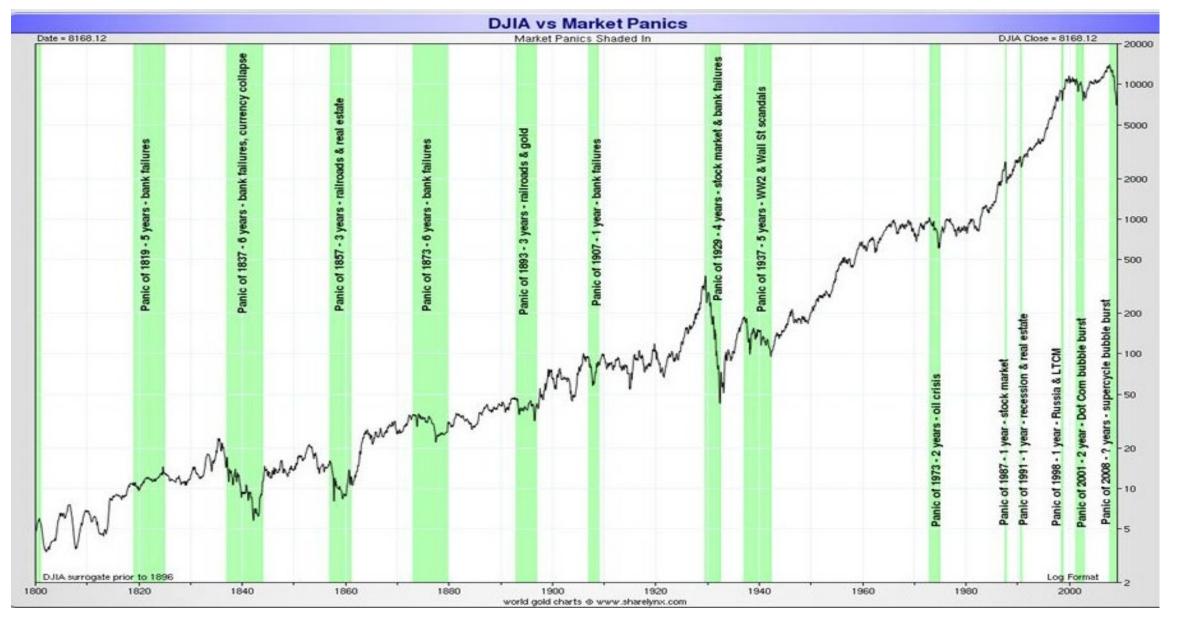
Source: FRED, Federal Reserve Bank of St. Louis, Refinitiv, Bloomberg, Business Insider

	The Negative Bond Yield Matrix												
Country	6 Mo	1Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 yr	8 Yr	9 Yr	10 Yr	15 Yr	30 yr
Switzerland	-0.75	-0.64	-0.89	-0.91	-0.89	-0.87	-0.79	-0.76	-0.69	-0.63	-0.52	-0.29	-0.01
Germany	-0.58	-0.68	-0.74	-0.76	-0.74	-0.68	-0.64	-0.58	-0.46	-0.4	-0.31	-0.1	0.27
Netherlands	-0.59		-0.72	-0.7	-0.64	-0.61	-0.5	-0.42	-0.32	-0.25	-0.15	-0.01	0.3
Japan	-0.13	-0.17	-0.2	-0.22	-0.23	-0.22	-0.22	-0.22	-0.21	-0.16	-0.12	0.07	0.36
Denmark	-0.66		-0.7	-0.7		-0.68			-0.45		-0.28		
Austria		-0.54	-0.65	-0.63	-0.57	-0.47	-0.39	-0.28	-0.22	-0.14	-0.03	0.31	0.7
Finland			-0.66	-0.63	-0.61	-0.54	-0.45		-0.19		-0.01		0.56
Sweden	-0.4		-0.62			-0.55		-0.26			-0.01	0.18	
France	-0.59	-0.6	-0.68	-0.66	-0.62	-0.53	-0.41	-0.31	-0.21	-0.1	0.02	0.38	1.15
Belgium	-0.57	-0.58	-0.6	-0.66	-0.6	-0.54	-0.42	-0.25	-0.14	-0.06	0.09	0.4	
Slovakia		-0.33				-0.24	-0.5		0	0.18	0.26		
Ireland	-0.41	-0.55	-0.45		-0.46	-0.39	-0.24	-0.14	0.45		0.22	0.58	1.16
Slovenia		-0.48	-0.3			-0.31		-0.14			0.25		
Spain	-0.41	-0.39	-0.4	-0.34	-0.27	-0.21	-0.06	0.08	0.2	0.29	0.43	0.8	1.47
Portugal	-0.38	-0.34	-0.37	-0.25	-0.17	-0.14	0.05	0.16	0.28	0.44	0.55	0.95	1.5
Malta	-0.23	-0.2		-0.1		0.02					0.74		
Bulgaria		-0.13		-0.01		0.05		0.37			0.58		
Italy	-0.16	-0.02	0.22	0.71	1.03	1.31	1.53	1.61	1.77	1.82	2.12	2.45	3.17
USA	2.19	2.03	1.81	1.75		1.78		1.89			2.03		2.52



#### Duration of Boom and Bust : Decreasing Duration and Increasing Frequency





Source : sharelynx.com

# Valuation at the Extremities

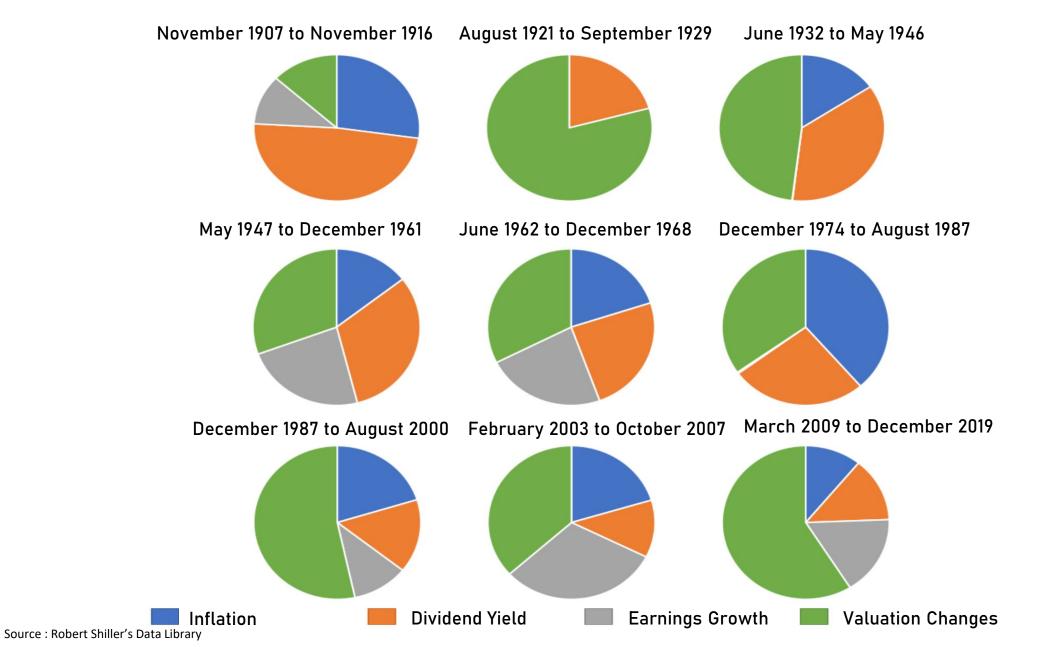


"The Fed, in effect, has become a serial bubble blower" – Stephen Roach

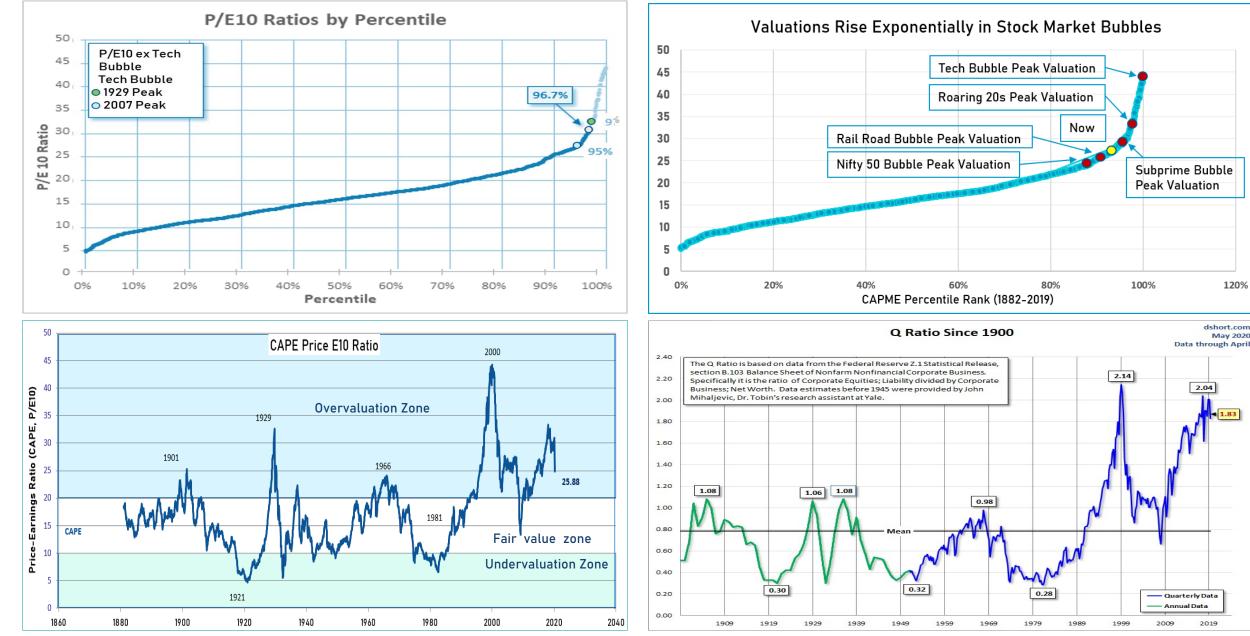
#### **Sources of Stock Price Appreciation**

"Give me a lever long enough and a fulcrum on which to place it, and I shall move the world" - Archimedes





#### Easy Money and Congenial Interest Rates are Necessary Conditions for Bubbles



Source : Advisor Perspectives , Meritocracy , Robert Shiller and S&P, Forbes

2019



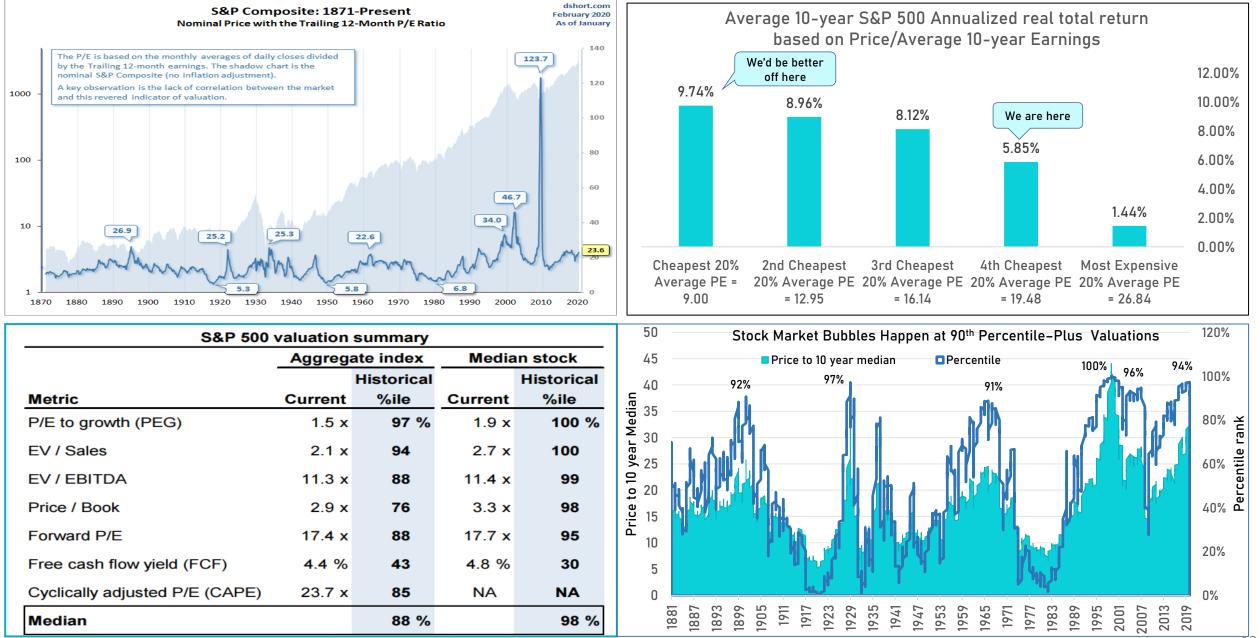
120%

dshort.com

May 2020

#### Low Future Interest Rates Embedded in Current High Valuations

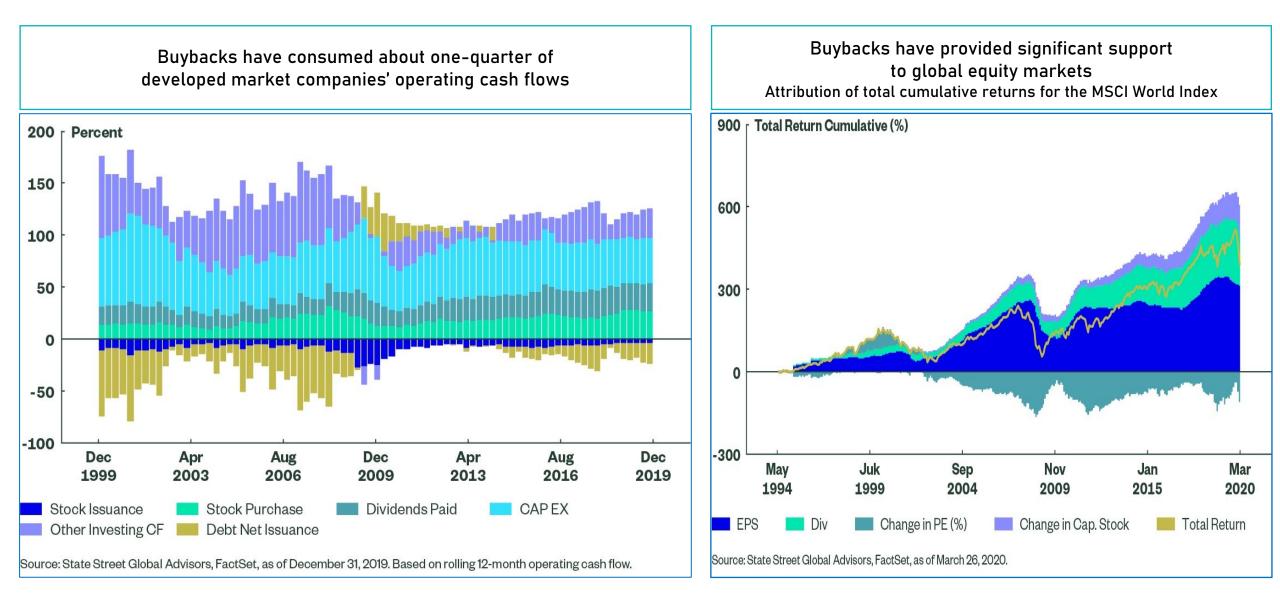




Source : Advisor Perspectives , Robert Shiller and S&P, Forbes

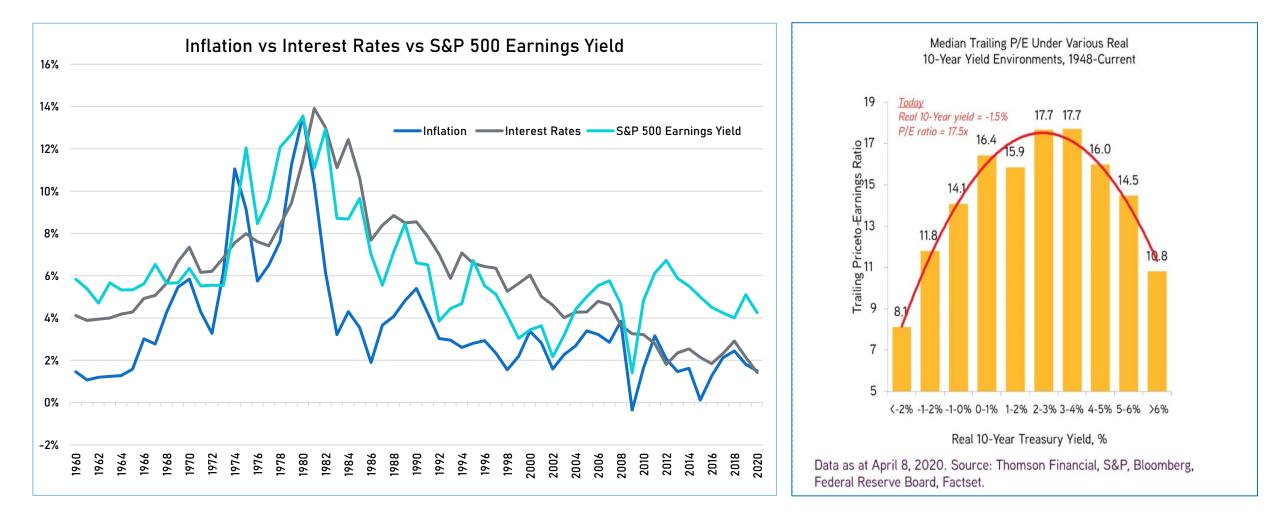
12





#### **Significant Role of Interest Rates in the Current Valuation**







# **COVID-19** Moving Parts

-

"People take the longest possible paths, digress to numerous dead ends, and make all kinds of mistakes. Then historians come along and write summaries of this messy, nonlinear process and make it appear like a simple, straight line"- Dean Kamen

Kalidas

#### A Modern Pandemic in the Era of Airlines and Social Media





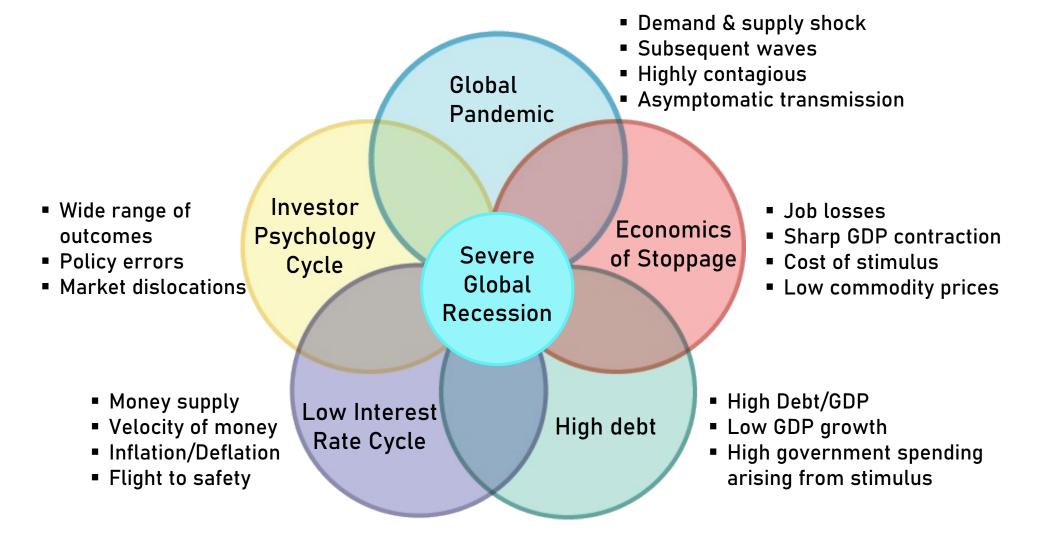
Twelve Large Pandemic Events with at least 100,000 deaths						
Event	Start	End	Deaths			
Black Death	1331	1353	75,000,000			
Great Plague of London	1665	1666	100,000			
First Asia Europe Cholera Pandemic	1816	1826	100,000			
Second Asia Europe Cholera Pandemic	1829	1851	100,000			
Russia Cholera Pandemic	1852	1860	1,000,000			
Global Flu Pandemic	1889	1890	1,000,000			
Sixth Cholera Pandemic	1899	1923	800,000			
Encephalitis Lethargica Pandemic	1915	1926	1,500,000			
Spanish Flu	1918	1920	100,000,000			
Asian Flu	1957	1958	2,000,000			
Hong Kong Flu	1968	1969	1,000,000			
H1N1 Pandemic	2009	2009	203,000			

#### Supply and demand shocks in one fell blow



## A Highly Contagious Global Pandemic Triggering Multiple Exogenous Shocks



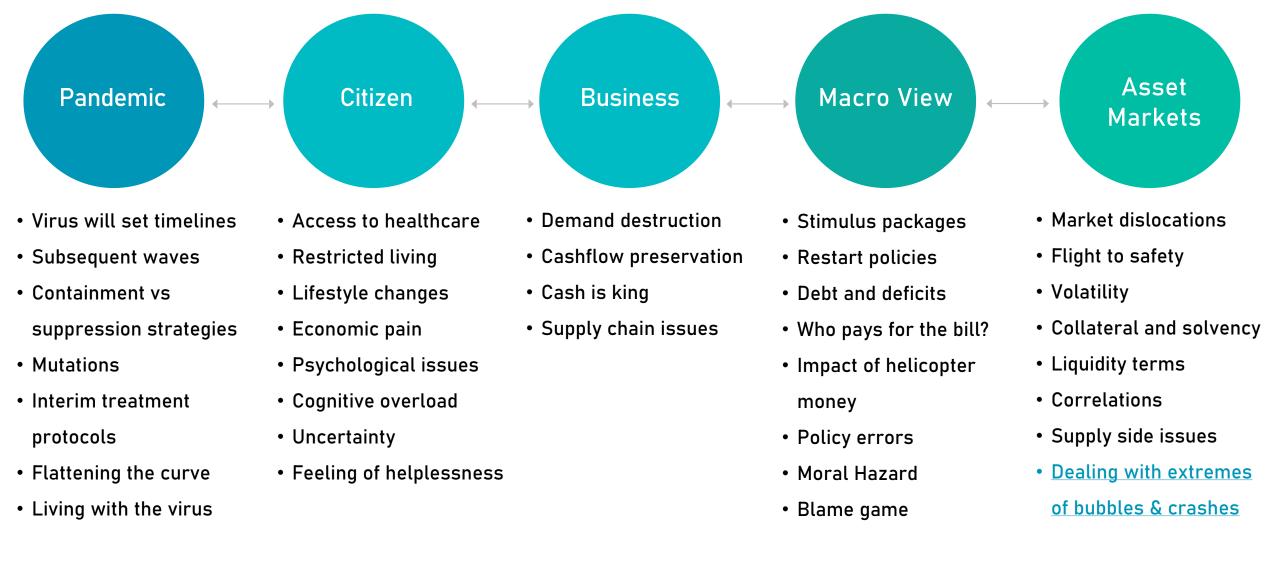


Liquidity dependent, inherently interconnected and a complex adaptive system

Source : FLAME University

#### Framework of Investing in the Post-Covid-19 Situation





### Odds, Frequency & Impact – All Three Matter



#### Frequency vs. Magnitude : Probability and outcome, both matter

Good Probability, Bad Expected Value						
Probability	Outcome	Weighted Value				
70%	+1%	+0.7%				
30%	-10	-3.0				
100%		-2.3%				

Bad Probability, Good Expected Value					
Probability	Outcome	Weighted Value			
70%	-1%	-0.7%			
30%	+10	+3.0			
100%		+2.3%			

Expected Value Expected Value is the weighted average value for a distribution of possible outcomes.

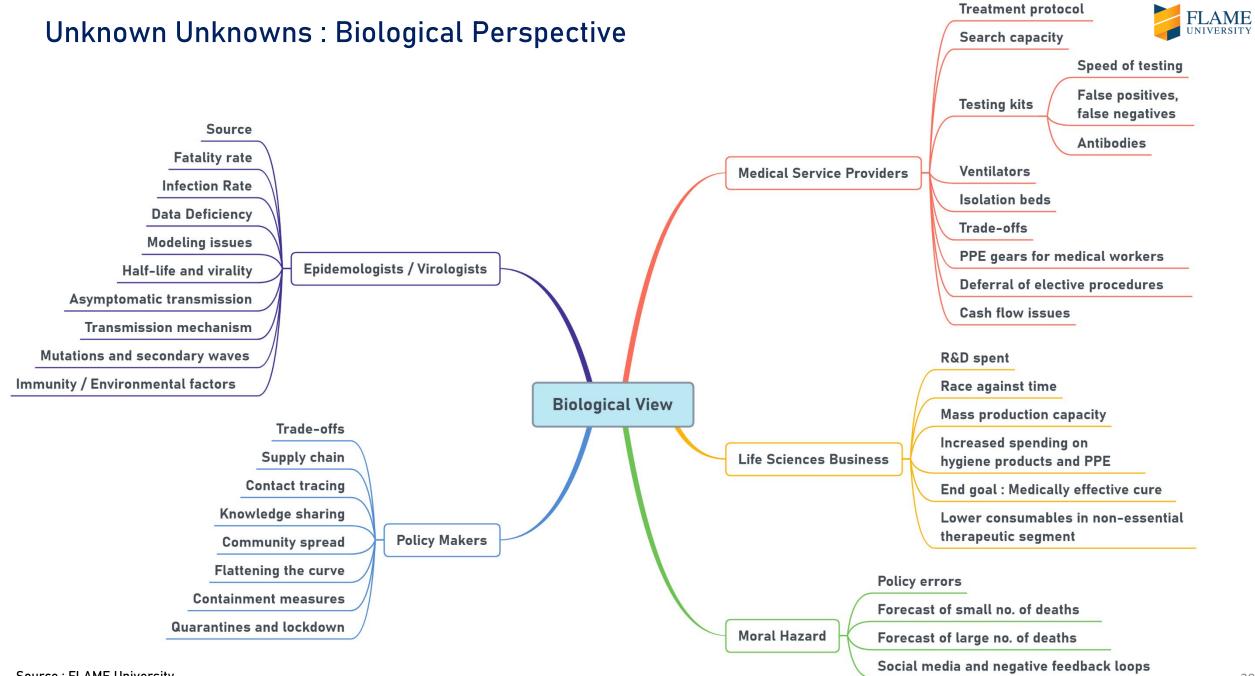
Take the probability of loss times the amount of possible loss from the probability of gain times the amount of possible gain. That is what we're trying to do. Its *Imperfect,* but that's what it's all about

- Warren Buffett

Risk vs. Uncertainty Risk : We don't know the outcome, but we know what the underlying distribution looks like (incorporates the element of loss / harm)

Uncertainty : We don't know the outcome, and we don't know what the underlying distribution looks like (Need not incorporate loss / harm)

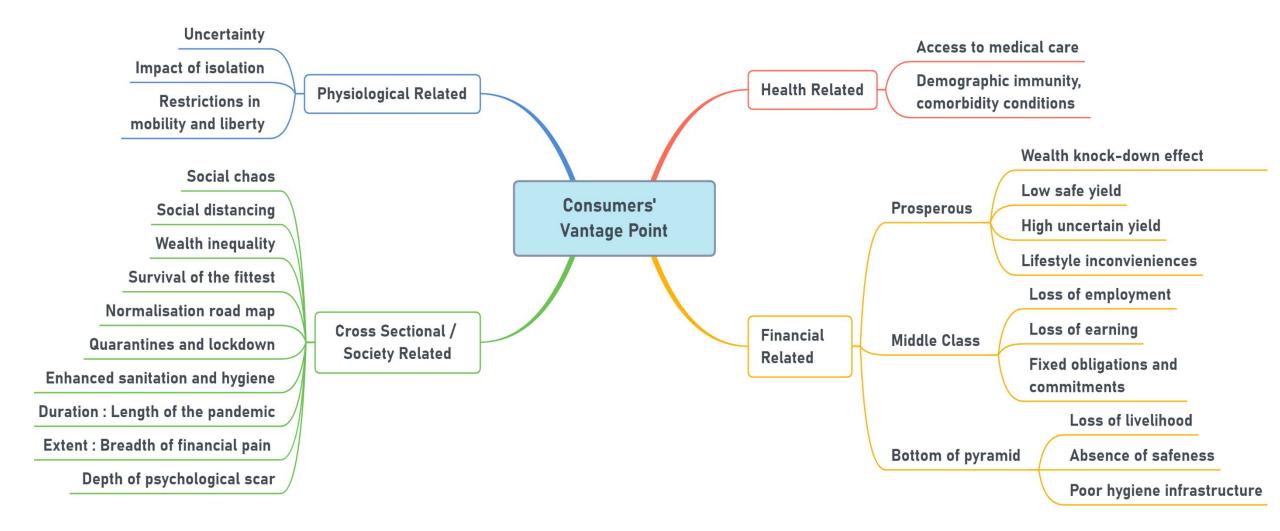
- Frank Knight



#### Source : FLAME University

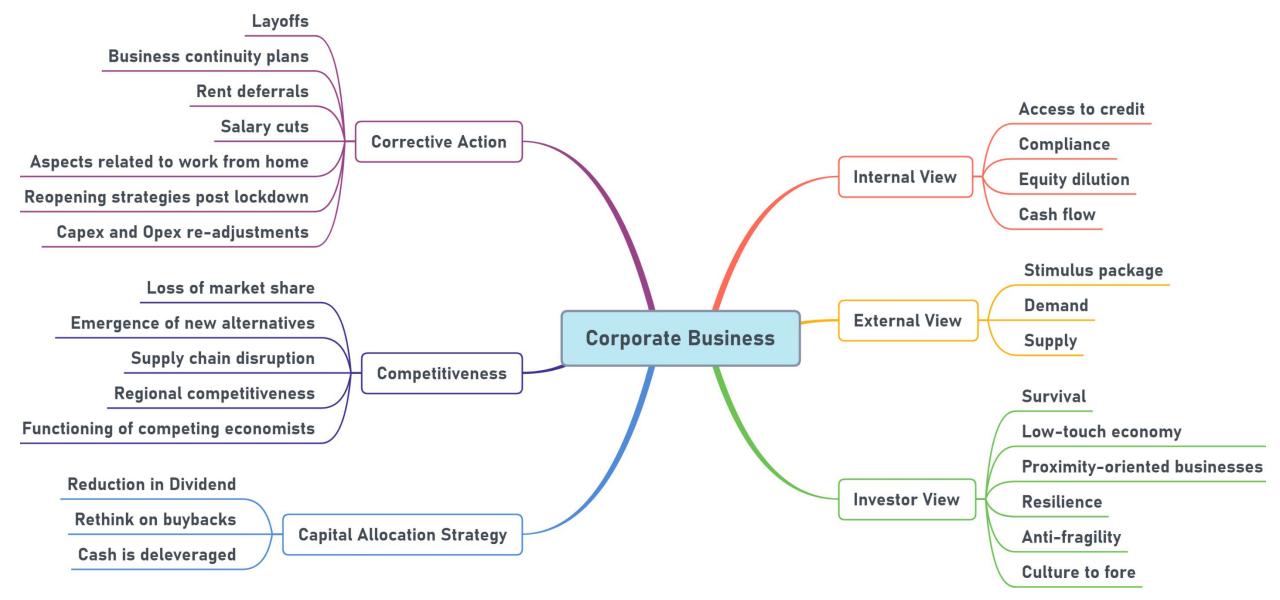
#### **Consumers' Perspective**





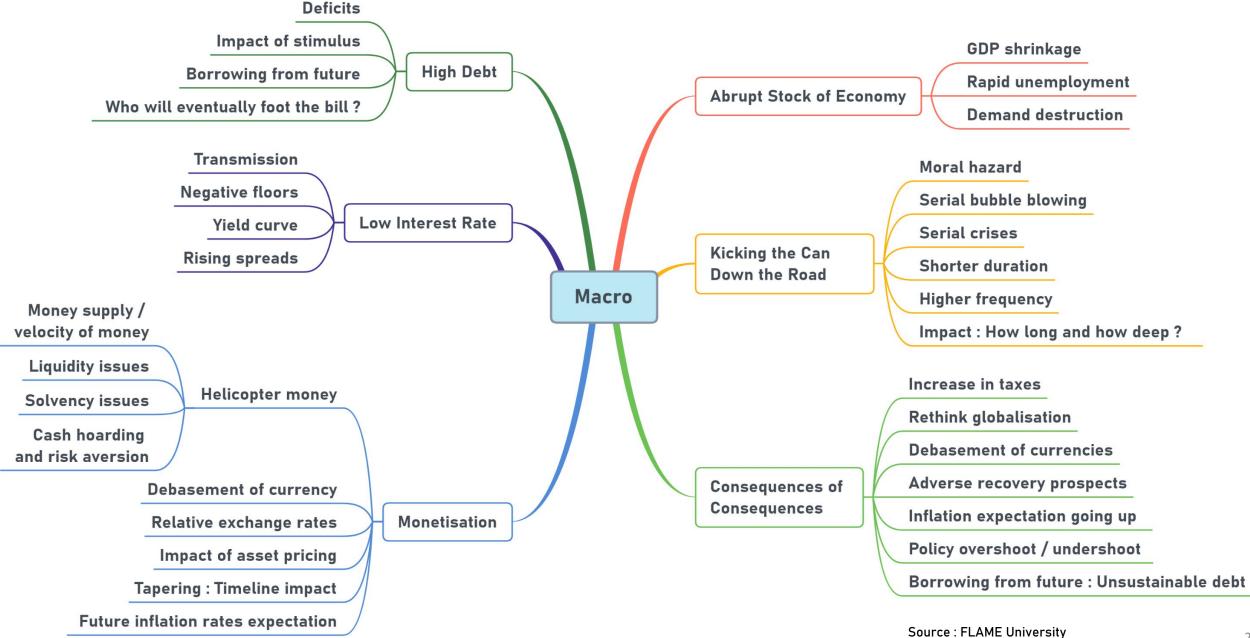
### **Corporate Business : Operating Managers' Perspective**





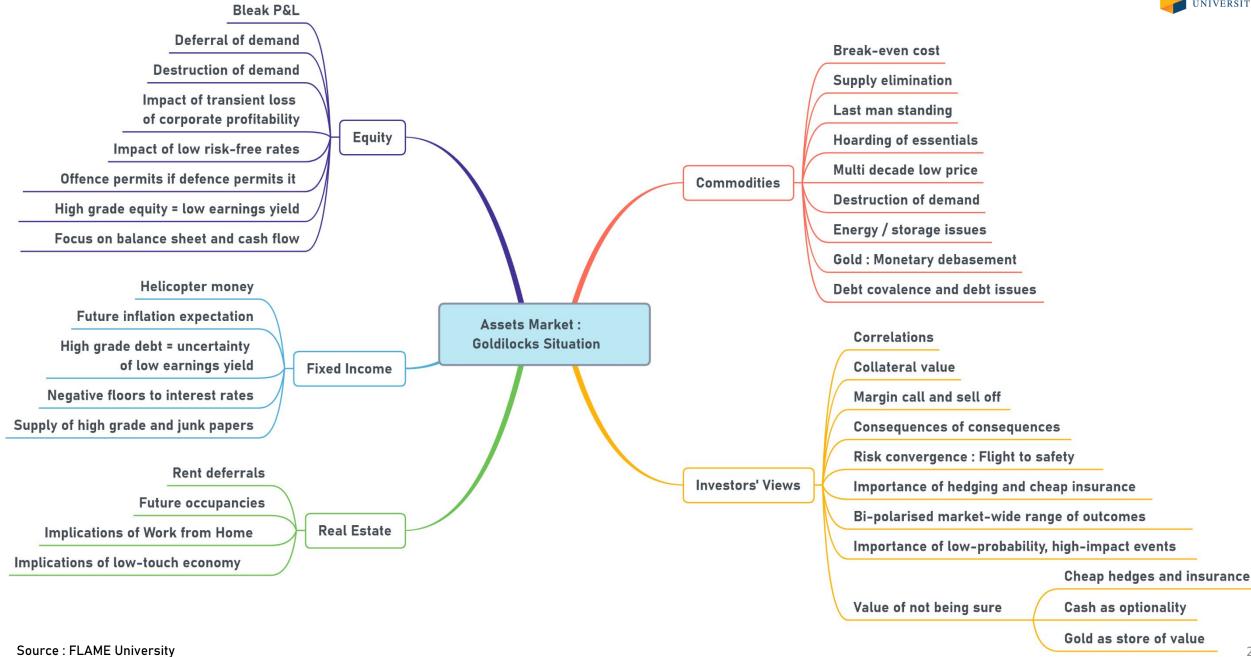
#### Macro Perspective





#### **Asset Market Perspective**

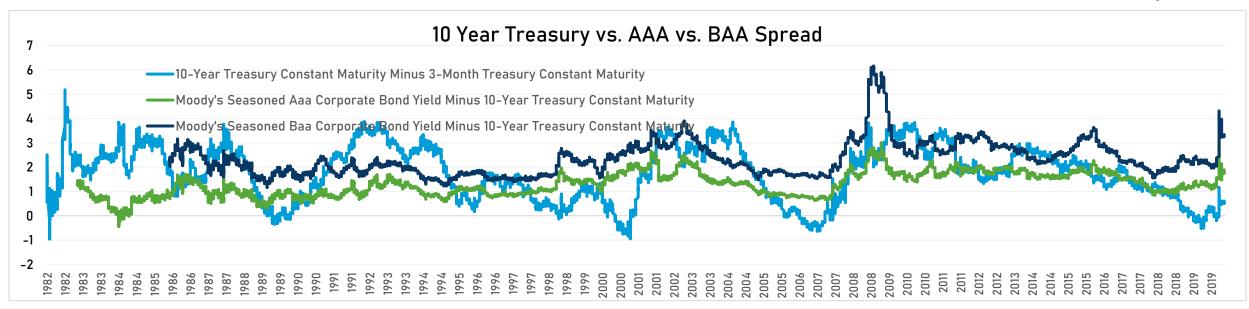


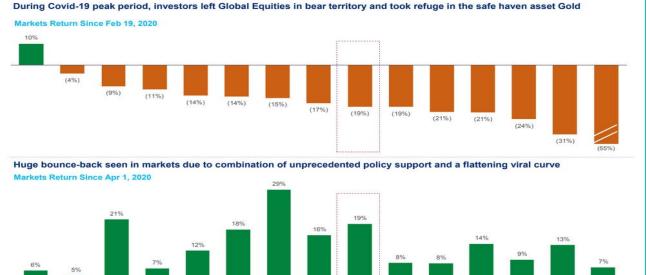


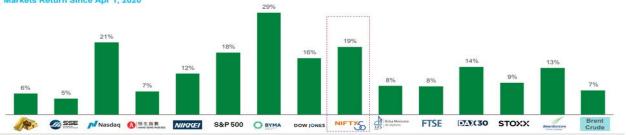
24

#### Flight to Safety : Rising Spreads









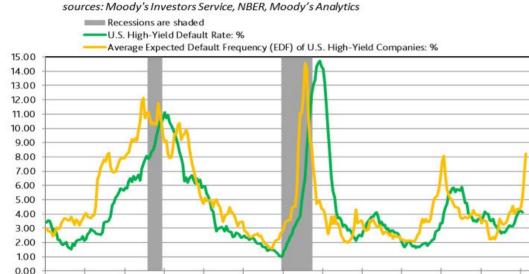


Figure 1: Recession Risks Will Mount If Average High-Yield EDF Metric Extends Its Climb

Jan-96 Jan-98 Jan-00 Jan-02 Jan-04 Jan-06 Jan-08 Jan-10 Jan-12 Jan-14 Jan-16 Jan-18 Jan-20

Source : Refinitiv, FRED, Moodys Analytics, NBER, Factsheet

#### Ring of Moral Hazard





Source : Slickcharts.com

# A Tale of Two Centuries : 1910–1930 vs. 2000–2020



"It's a recession when your neighbour loses his job; It's a depression when you lose yours" - Harry S. Truman

#### The Great Depression vs. The Great Recession vs. The Great Lockdown



	Great Depression 1930s	Global Financial Crisis 2008	Ongoing COVID-19 Recession
Bank Failures	9,096 - 50% of banks (Jan. 1930- March 1933)	57 - 0.6% of banks (Dec. 2007 - May 2009)	Banks well capitalized, new NPA cycle likely
Unemployment Rate	25%	8.5%	14.7% (09-05-2020) and counting
Economic Decline	-26.5% (1929 1933)	-4.1% (last quarter 2007 - second quarter 2009)	Severe and counting
Biggest Decline in Dow- Jones Industrial Average	-89.2% (Sept. 3, 1929 - July 8, 1932)	-53.8% (Oct. 9, 2007- March 9, 2009)	Unfolding movie
Change in Prices	-25% (1929 - 1933)	+0.5% (Dec. 2007-March 2009)	Unfolding movie
Emergency Spending Programs	1.5% of GDP for 1 year (increase in 1934 budget deficit)	2.5% of GDP for 2 years (2009 American Reinvestment and Recovery Act)	Fiscal Stimulus > 11% of GDP (08-05-2020) and counting
State's Response	Raise taxes, cut spending	Federal stimulus plan gives fiscal relief to states to lessen impact of tax increases	Rate cuts, asset purchases, back stopping money/ bond markets, USD swap lines and ongoing measures
Increase in Money Supply by Federal Reserve	17% (1933)	125% (Sept. 2008- May 2009)	13.7% (27-04-2020) and counting

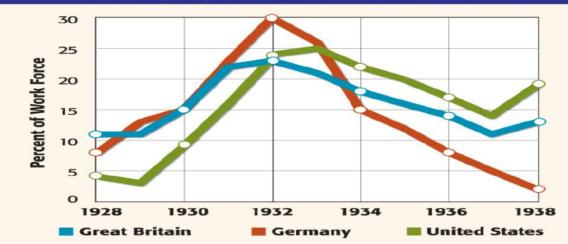
Source : www.gold-eagle.com, https://jhss11rajankalsi.wordpress.com

#### 1910-1930 Conditions in the Era of the Spanish Flu Pandemic and The Great Depression

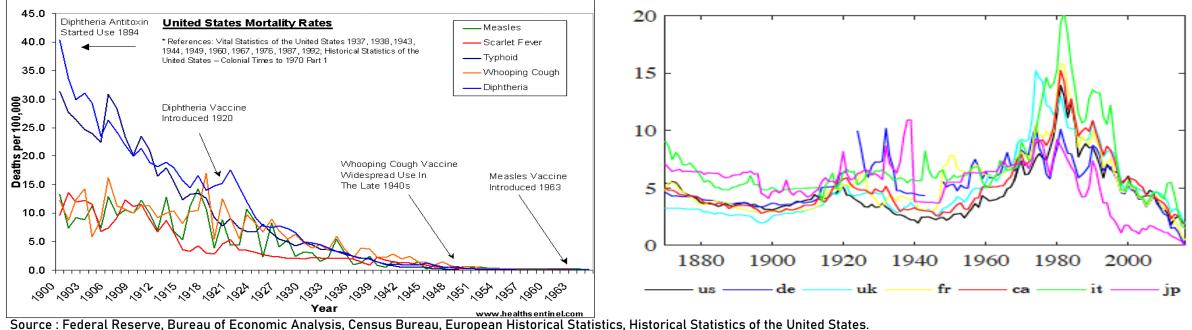




Unemployment Rate, 1928–1938



Sources: European Historical Statistics: 1750–1970; Historical Statistics of the United States: Colonial Times to 1970.

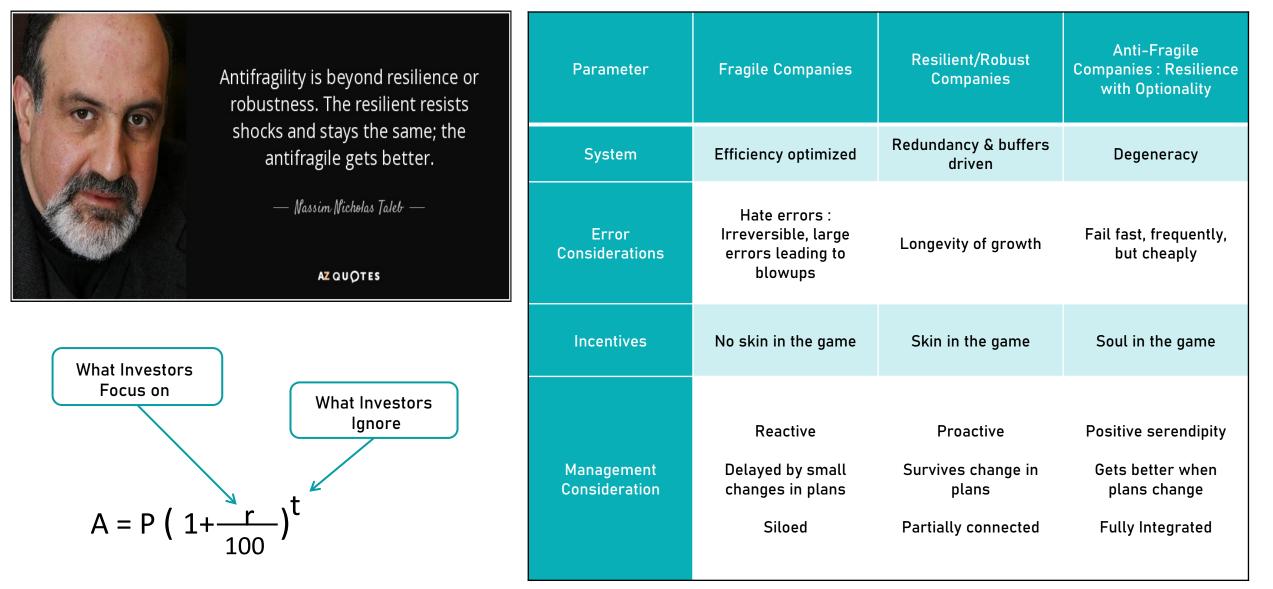




– Benjamin Graham

### What are the Qualities that Bring Longevity, Resilience and Anti-Fragility?





## Ideal Portfolio Construct : Barbell Approach of Resilience and Optionality

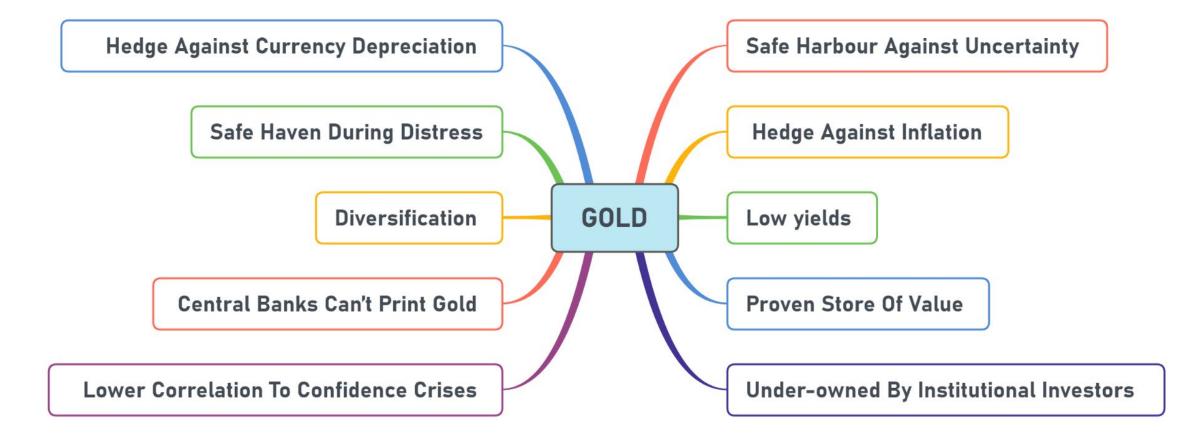


Parameter	Resilient Companies	Anti-Fragile companies : Resilience with Optionality	Only Optionality	Survival Issues / Value Traps	Mediocre : Neither Resilient nor Optionality
Allocation	Core of portfolio	Rare but large allocation	Many positions but small allocation. Maximum of this bucket is capped	Avoidable commitment	Avoidable
Valuation Consideration	Timeline of investment horizon arbitrage	Longevity of growth and level of out of the money optionality implied in the current prices	Large total addressable market and network effects	Cheap, getting cheaper due to deteriorating core business	Market performer
Investor Consideration	Sector leadership Markets share and adjacencies	Take advantage of volatility to add and trim positions Rare companies; should be averaged up. Risk contribution will be more equally distributed i.e. large position represents the same risk as a very small position	Venture capitalist investing framework Extension of tail leads to minimizing of error. Foot in the door and a possibility of averaging up or trimming down depending on subsequent outcome	Avoid commitment bias Alternative opportunity cost	Filter out at screening level Companies stuck in the middle, though they can give buy low, sell high, or round tripping opportunities

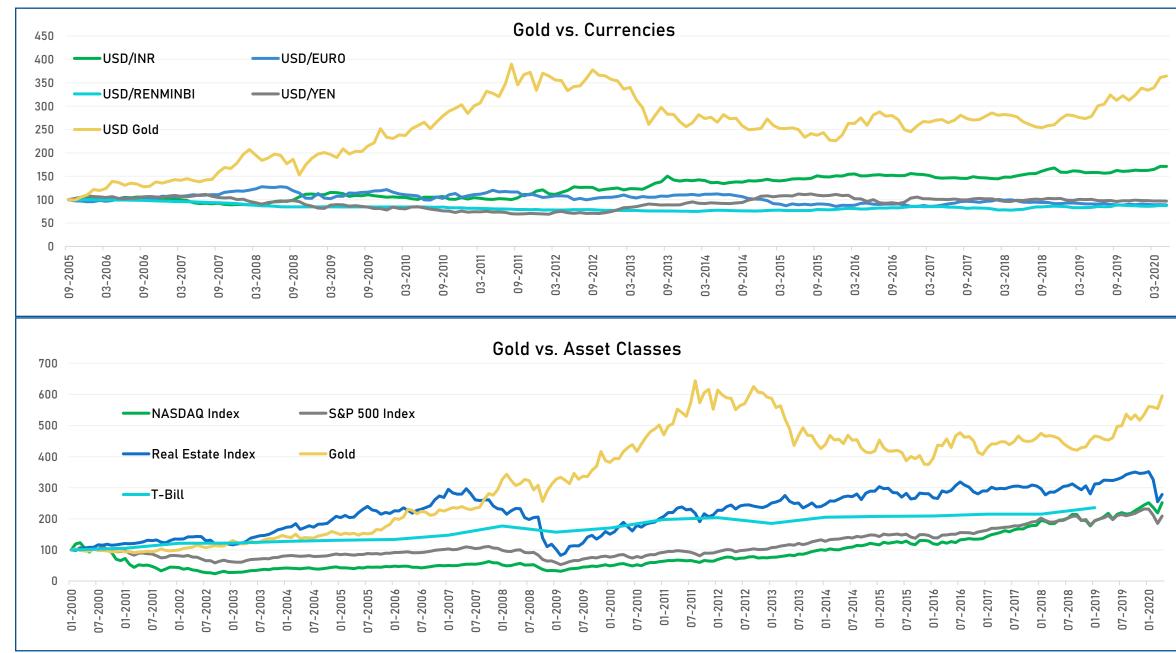
Source : FLAME University

#### Gold : Hedge Against Inflation and Negative Interest Rate





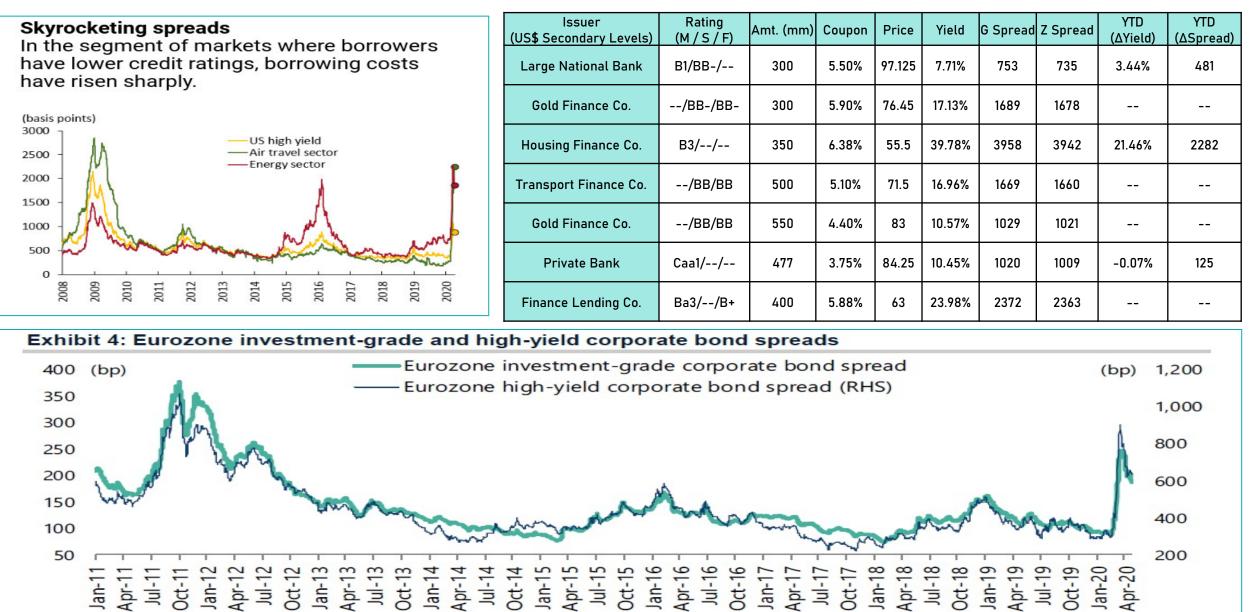
#### **Golden Performance**





## **High Yield Bonds**



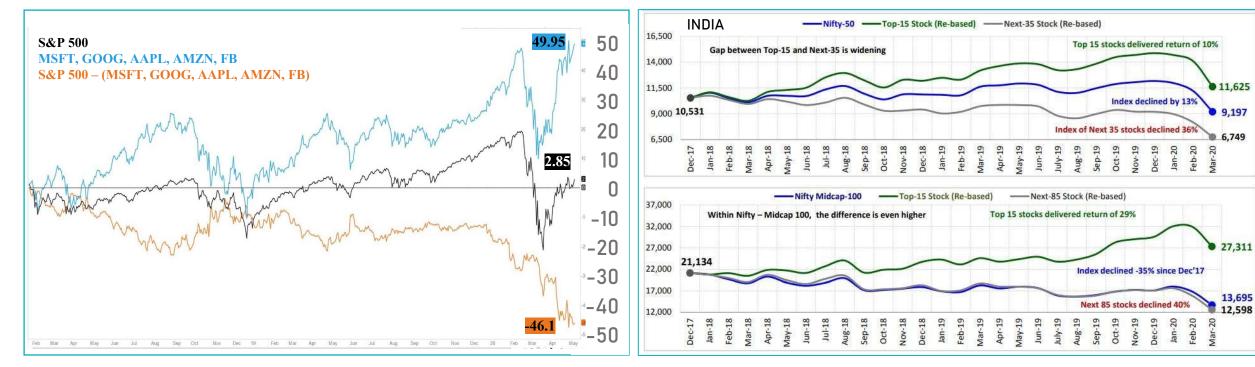


Note: Based on Bloomberg Barclays Eurozone Corporate Bond indices. Source: Bloomberg

Source : Citi Bank, Credit Suisse, Bloomberg

#### **Polarisation**?





Ongoing (2020)	Market Weight (in %)	Market Cap (in \$B)	Valuation (P/E)
Apple	5.4%	1164	19.1
Amazon	4.1%	1021	60.6
Microsoft	5.9%	1328	28.4
Alphabet	3.4%	793	23
Facebook	2.1%	434	19.6
FAAMG Aggregate	20.9%	4740	23

Tech Bubble (2000s)	Market Weight (in %)	Market Cap (in \$B)	Valuation (P/E)
Microsoft	4.5%	581	55.1
Cisco System	4.2%	543	116.8
Intel	3.6%	465	39.3
Oracle	1.9%	245	103.6
Lucent	1.6%	206	35.6
Tech Bubble Aggregate	15.8%	2040	55.1

NIFTY 50 (1970s)	Market Weight (in %)	Market Cap (in \$B)	Valuation (P/E)
IBM	7.1%	48	35.5
Eastman Kodak	3.6%	24	43.5
Sears Roebuck	2.7%	18	29.2
General Electric	2.0%	13	23.4
Xerox	1.8%	12	45.8
NIFTY 50 Aggregate	17.1%	115	35.5

Source: Citi Bank, Refinitiv



Every day, managers must decide whether to enjoy a dollar of profit this year or two dollars a few years from now

#### GILLETTE

- 1996 : Promised investors that it would grow its earnings at 15% to 20%.
- Began channel- stuffing products to its' distributors to meet projections
- CEO Kilts stopped issuing earning guidance
- Overextended pricing power benefited in short term but drove customers away and invited hungry new customers

**STARBUCKS** 

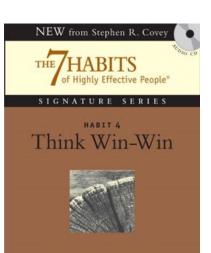
- 2010 : Howard Schultz said Starbucks had paid around \$300 MN in healthcare costs in 2010
- Decision Unpopular with the investors
- Declined the offer to cut Healthcare spending to retain the respect and value of his employees

#### SOUTHWEST AIRLINES

- Kelleher : Sold a plane instead of laying off employees & formed a "No-Layoff Policy"
- 2010 : Was the biggest domestic airline in USA, with a market cap. Greater than all its domestic competitors combined
- Happy employees take care of the customers. Happy customers take care
  of the shareholders by coming back

#### COSTCO

- 2008 : Galanti refused to make employees pay more than 10% for healthcare to save \$10 – \$20 Million per year
- Wanted to give their employees as much as they could in tough times

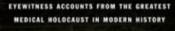


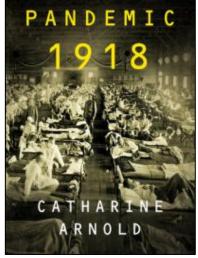
An in-depth exploration of Habit 4 including never-before-released material from the FranklinCovey audio library

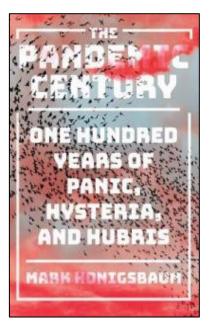
#### Boeing

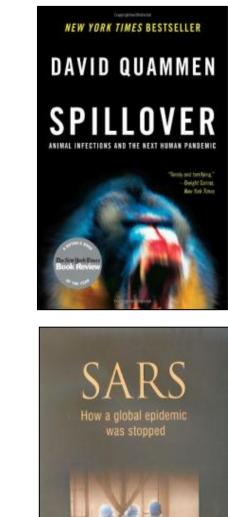
 Boeing spent 74% of its Free Cash Flow in Stock Repurchase in the last 10 years. Cost cutting was one of the reasons for failure of its aircraft (737-MAX) and then the company had to be bailed out



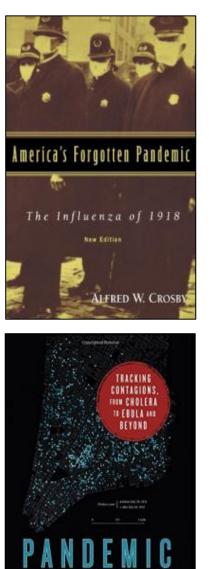




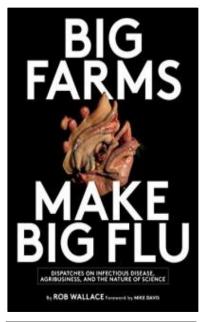


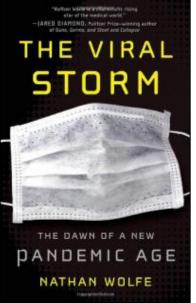




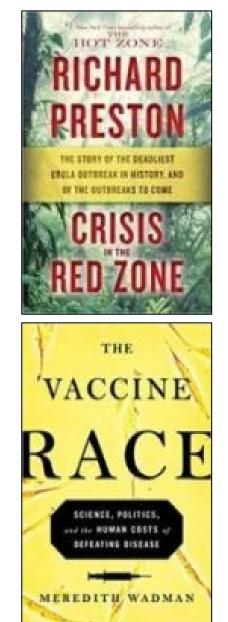


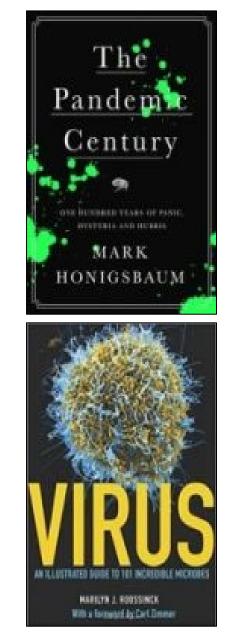
SONIA SHAH





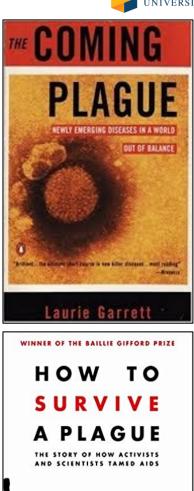






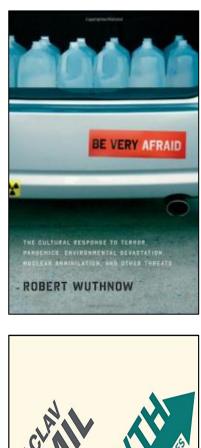


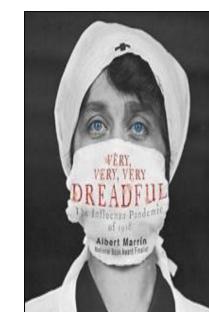


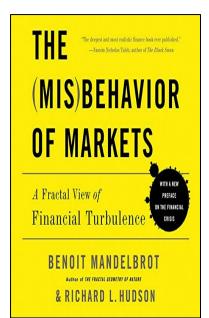


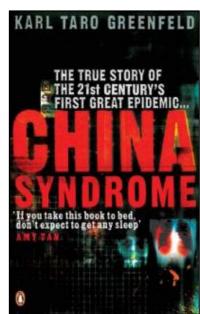


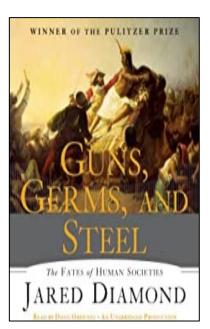


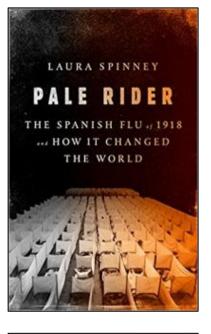


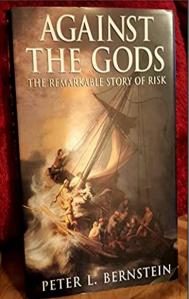


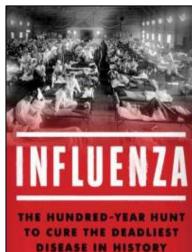




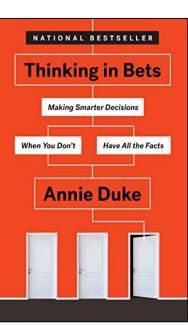








DR. JEREMY BROWN

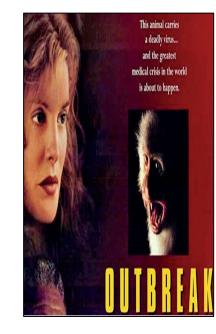


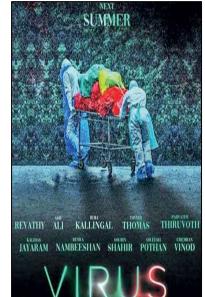
40

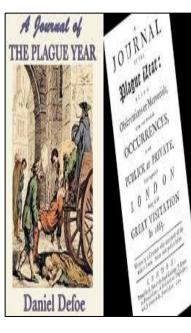


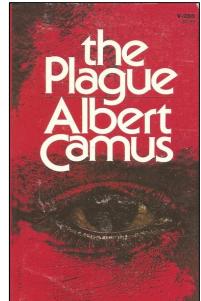


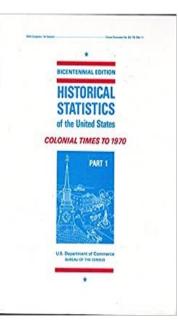


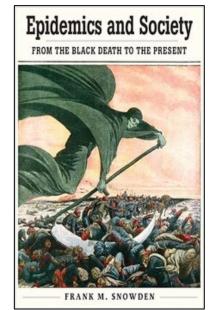


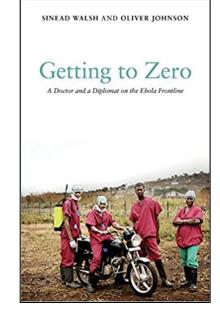


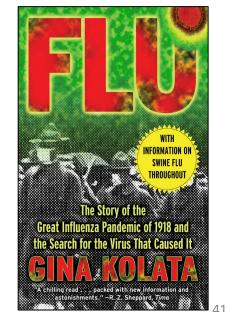






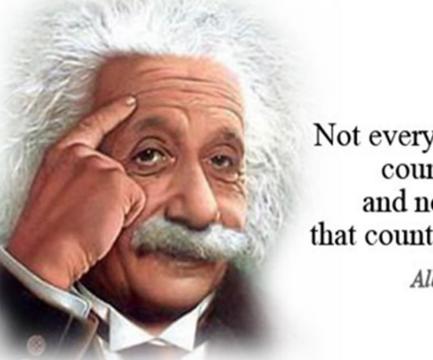








# **Questions?**



Not everything that can be counted counts, and not everything that counts can be counted. *Albert Einstein* 

There is no better teacher than history in determing the future... There are answers worth billions of dollars in a \$30 history book. **CHARLIE MUNGER** 

> MORE INSIGHTS @COGENTINVESTING



# Disclaimer

This video/presentation is purely for educational and informational purposes. Information provided in this video/presentation is based on information available in the public domain. Information provided in this video/ presentation has been compiled from sources believed to be reliable, but no warranty, express or implied, is made with respect to its timeline or accuracy. This video/presentation may contain forward-looking statements about the economy and/or markets, their performance or prospects. Forward-looking statements are not guarantees of future performance and cannot be relied upon.

Views expressed regarding a particular sector or the company are not to be considered as investment advice nor they shall be considered a recommendation for buy or sell. This video/presentation is purely for educational and informational purposes only and is not intended to provide specific individual financial, investment, or tax advice.