WEALTH MANAGEMENT INDUSTRY - IN AN ERA OF DISRUPTION DEBT DISINFLATION DEMOGRAPHICS & DIGITISATION

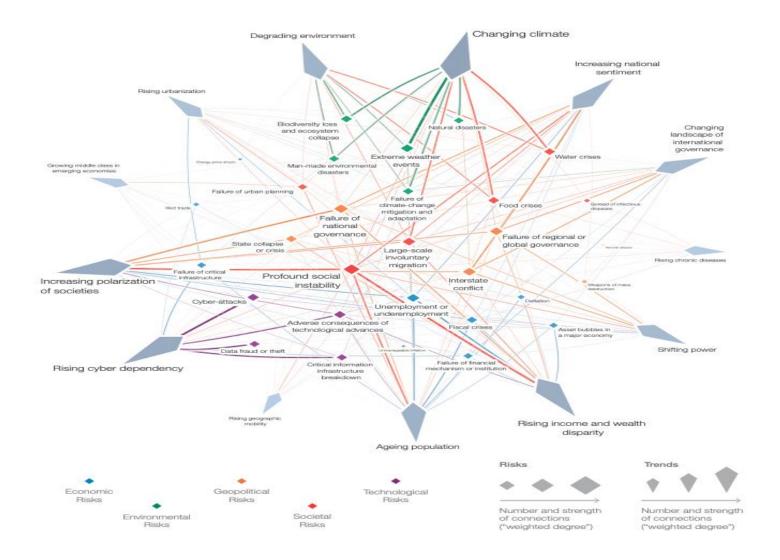
Rajendra Kalur, CFA Hyderabad, March 15, 2019

The Future comes too fast and in the wrong order: Alvin Toffler



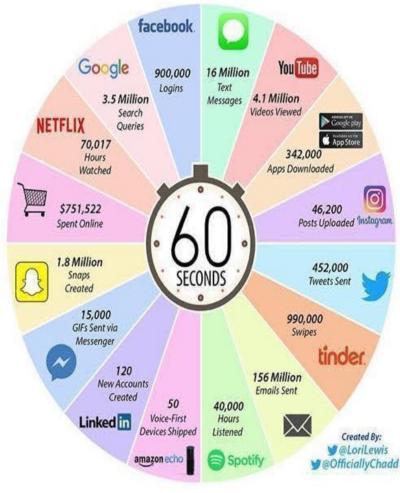
THE AGE OF DISRUPTION

KEY GLOBAL RISKS & TRENDS



Source:WEF, Global Risks & Trends

2017 This Is What Happens In An Internet Minute

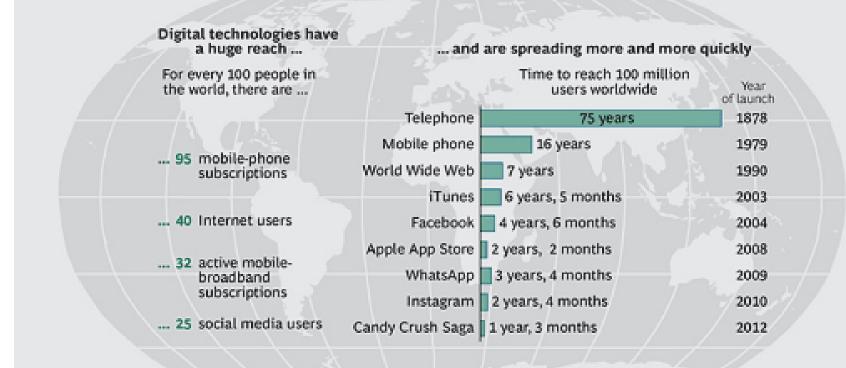


2018 This Is What Happens In An Internet Minute



The Increased Pace of Disruption

The pace of change has increased exponentially...

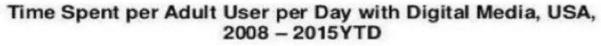


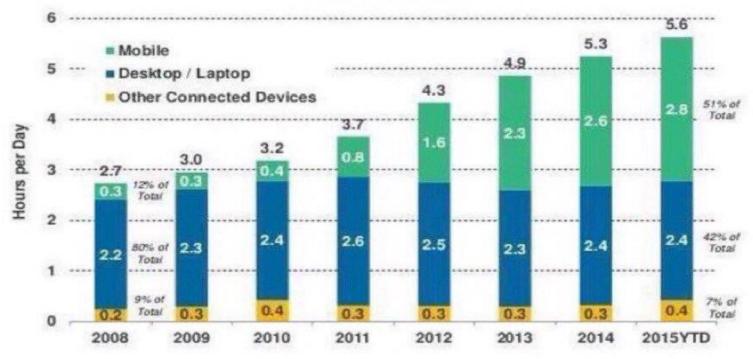
Sources: ITU; Statista; BCG research. Telephone: ITU; mobile phone: ITU (the base year is considered the start of the first cellular network), mobilephonehistory.co.uk; World Wide Web: Scientific American, Internet Live Stats; iTunes: number of accounts, Fortune; Facebook: active monthly users, Facebook; Apple App Store: number of accounts, OS X Daily, VentureBeat; WhatsApp: active users, Wired, Digital Quarterly; Instagram: monthly users, TechCrunch; Candy Crush Saga: Facebook users only, AppMtr.com.

Source: BCG Perspectives, The Digital Imperative Mar 2015

The Changing Usage Patterns

Internet Usage (Engagement) Growth Solid +11% Y/Y = Mobile @ 3 Hours / Day per User vs. <1 Five Years Ago, USA





KPCB Source elikehear 914 (2006/2010), elikekear 415 (2011), Note Oher connected donrow include OTT and general connected excited encludes antiphone and tablet. Usage includes traffic home and work. Ages 15-, the spent with each medium includes all time spent with that medium, regardless of metibology.

Source: Vala Afshar

14

Netflix Surpasses Major Cable Providers in the U.S.

Number of Netflix subscribers vs. cable pay-TV subscribers in the U.S. (in millions)

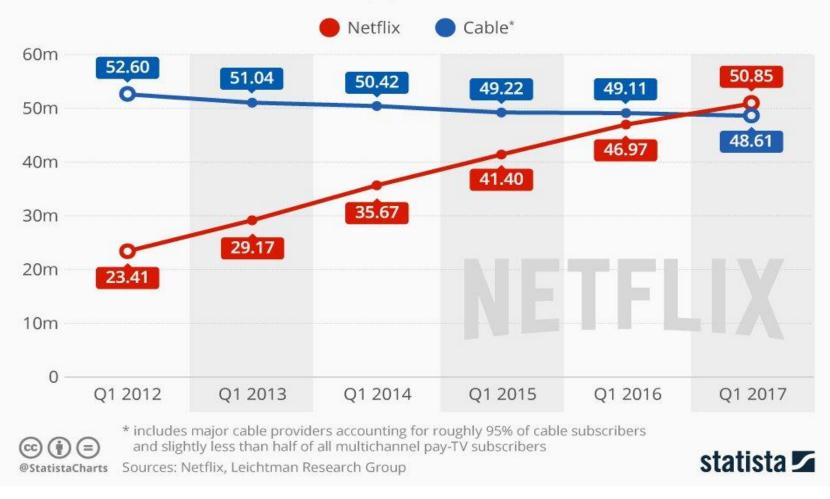


Chart of the Week

THE TECH TAKEOVER OF ADVERTISING

Legacy media brands are falling hard and fast

TOP 10: GLOBAL ADVERTISING REVENUE (IN BILLIONS)

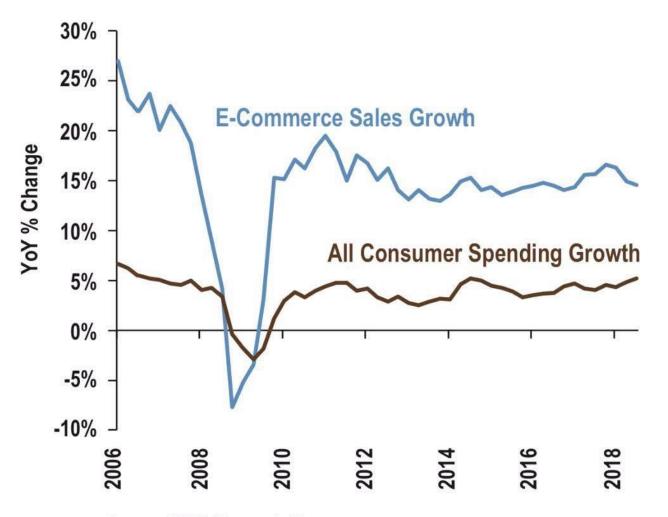


SOURCE: Bloomberg, Zenith Media

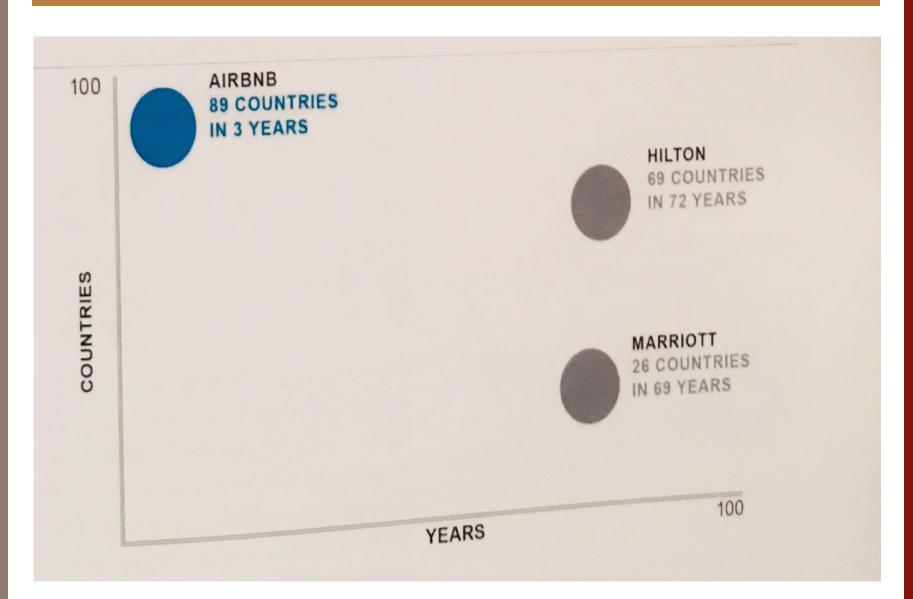
visualcapitalist.com

 $\langle \cdot \rangle$

Fortune Favors the Internet – E-Commerce Sales vs All Consumer Discretionary Spending, 2006-2018



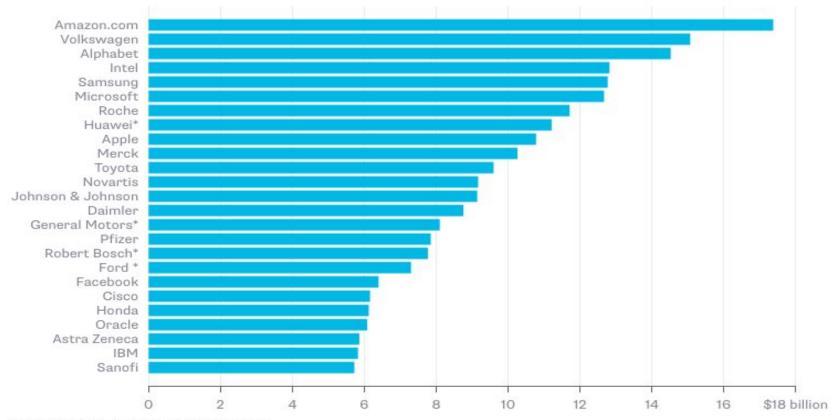
Source: FRED Economic Data





The Top Corporate R&D Spenders

Research and development spending, trailing 12 months



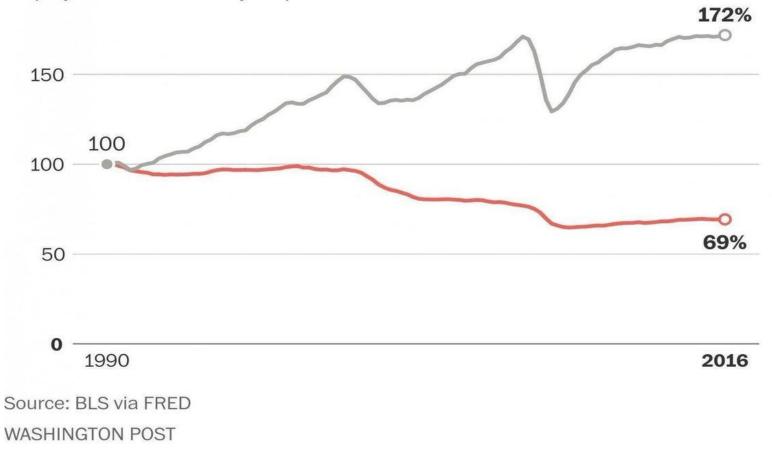
Sources: Bloomberg, company reports

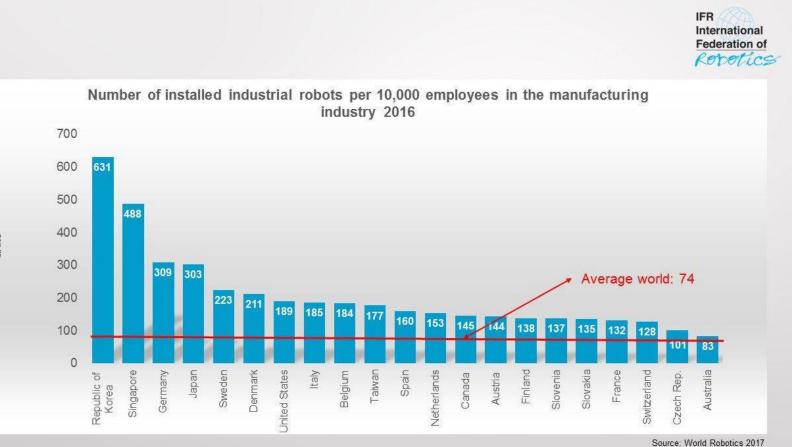
*These companies only report R&D spending annually.

ROBOs are taking over shopfloors...

Manufacturing output rose even as employment fell

Since 1990, manufacturing output has increased by 72 percent. But manufacturing employment has fallen by 31 percent.

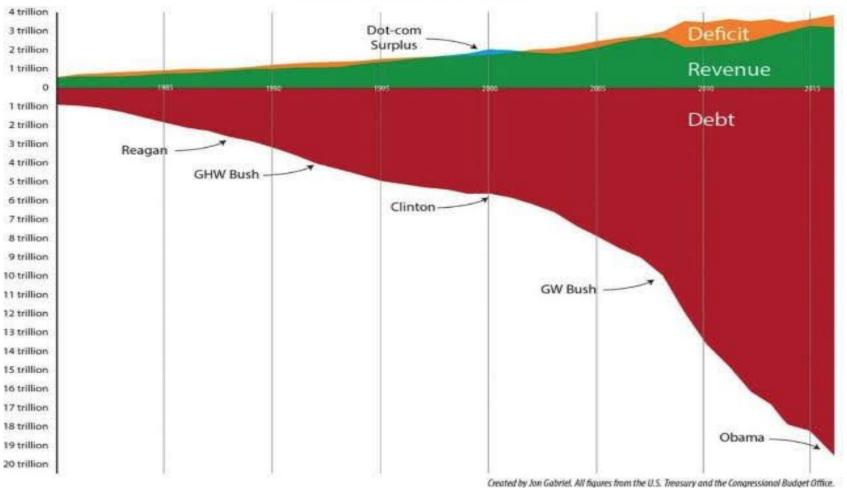




units

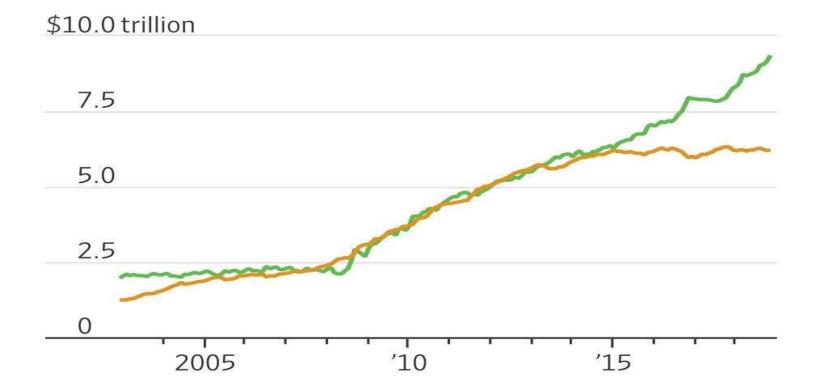
THE WORLD'S MOUNTAIN OF DEBT

America's Finances

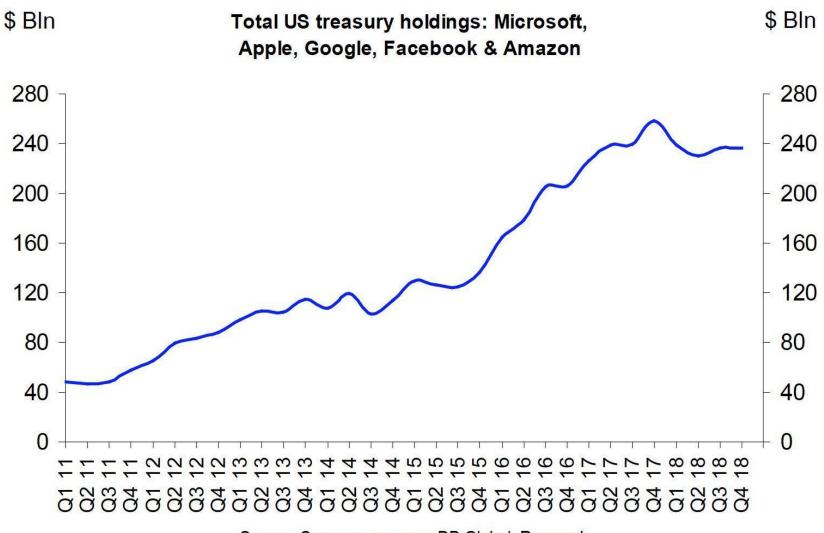


Ownership of U.S. debt

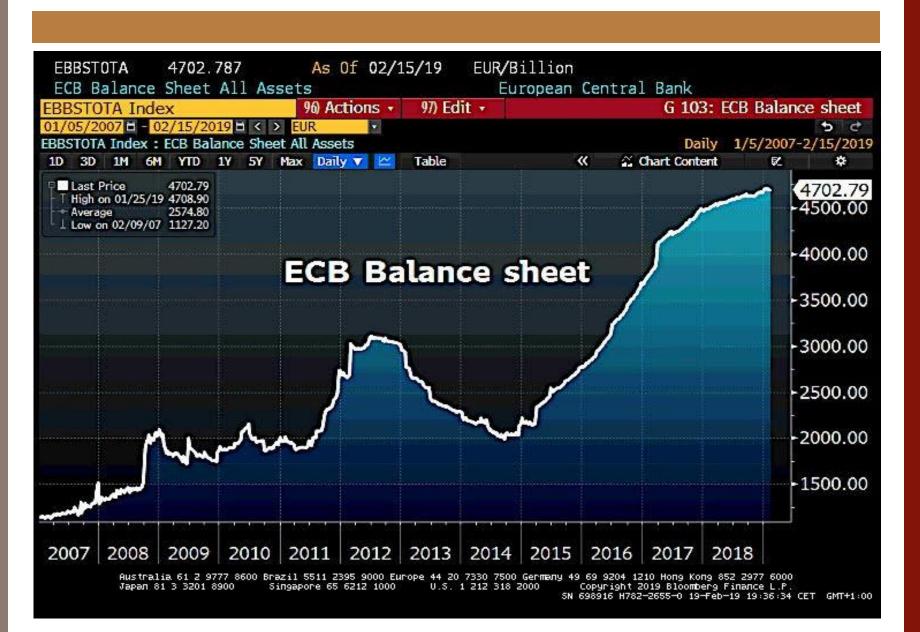




Source: U.S. Treasury Department



Source: Company sources, DB Global Research



The Financial Impact of Sovereign Debt Around the World - 2017 This Map Shows Countries' Debt and Their Ability to Pay It Back



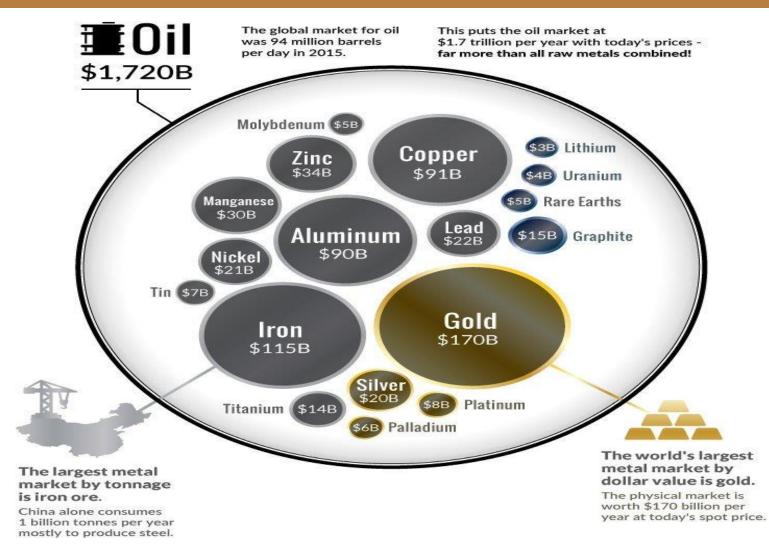
How to read this map: Countries appear bigger as their national debt is higher. e.g. USA. Conversely, countries with lower national debt appear smaller. e.g. Nigeria. The colour represent countries' debt to GDP ratio.

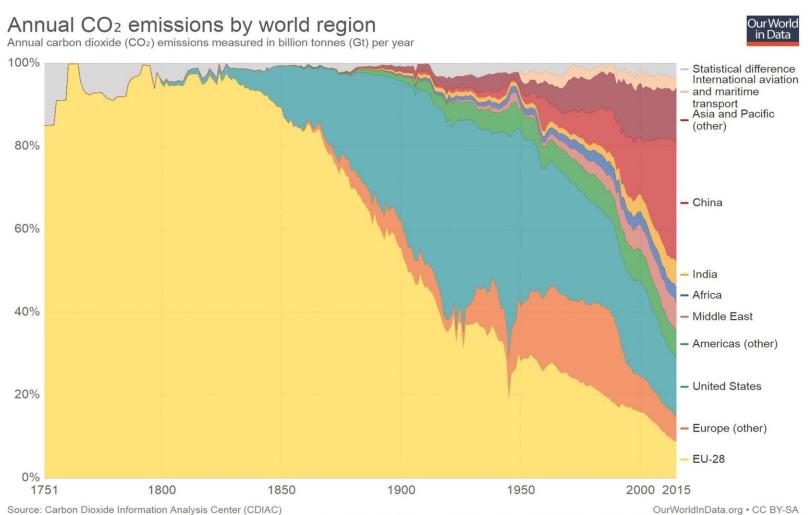
Article & Sources:

https://howmuch.net/articles/worlds-debt-2017 http://www.usdebtclock.org/ U.S. Treasury Department

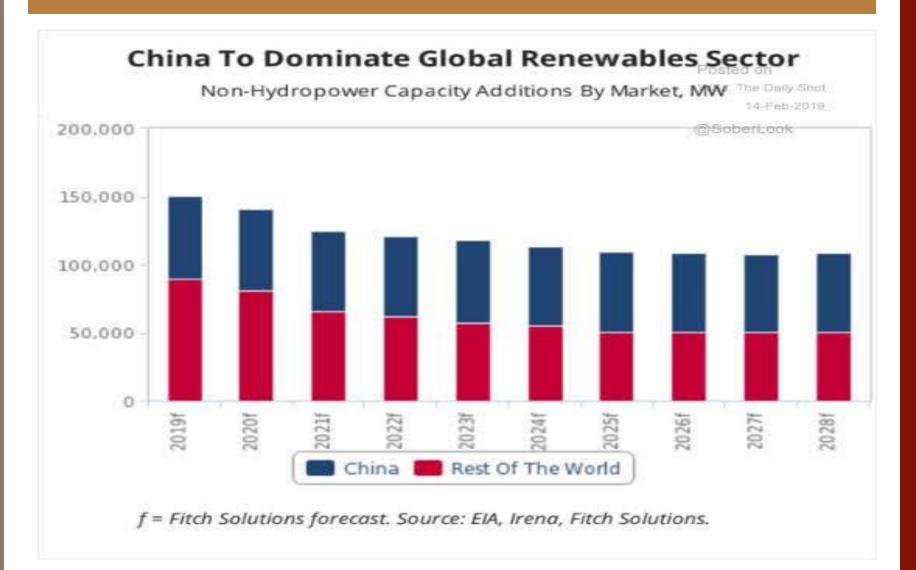
howmuch net

IS OIL THE NEXT VICTIM OF DISRUPTION?





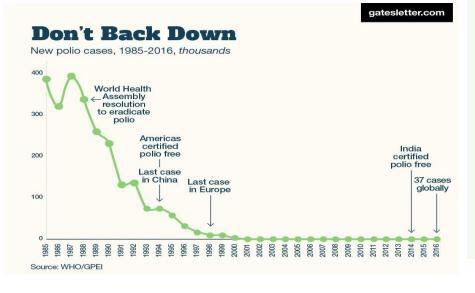
Note: Emissions data have been converted from units of carbon to carbon dioxide (CO2) using a conversion factor of 3.67. Regions denoted "other" are given as regional totals minus emissions from the EU-28, USA, China and India. Here, we have rephrased the general term "bunker (fuels)" as "international aviation and maritime transport" for clarity.



40% of all deaths

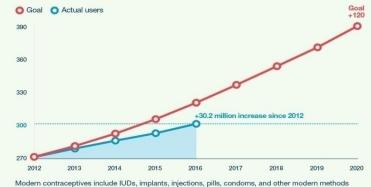
The distribution of deaths by age has 30% changed dramatically in 100 years 20% 2015 10% Age 0 20 years old 80 20 50 50 80

However, the world is becoming better...



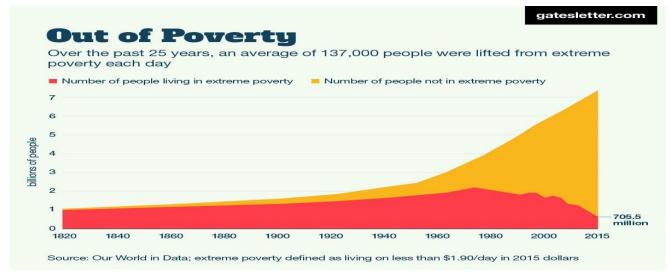
Empowering Women

Total modern contraceptive users in the 69 poorest countries, millions



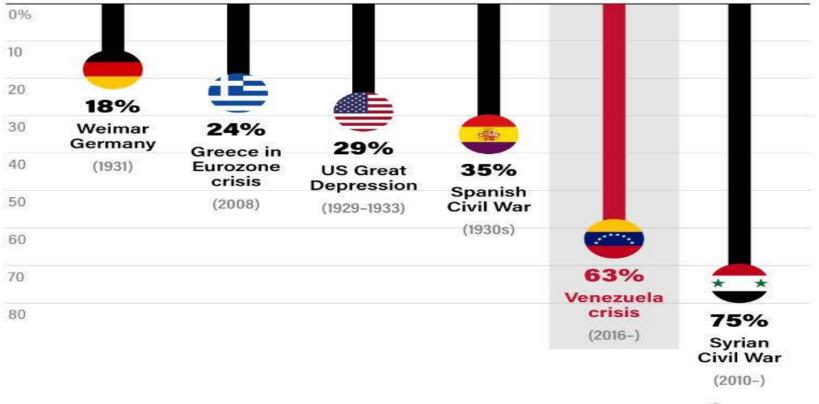
gatesletter.com

Modern contraceptives include IUDs, implants, injections, pills, condoms, and other modern methods Source: Family Planning 2020



HOW BAD IS VENEZUELA'S COLLAPSE?

Historical economic contractions during war or crisis (% change in GDP)



Subscribe at gzeromedia.com

SIGNAL

Sources: IMF, Rienhart & Rogoff

Chinese Banks steal a march...

TOP 10 MOST VALUABLE BRANDS



Oil as Percent of Total Energy Consumption

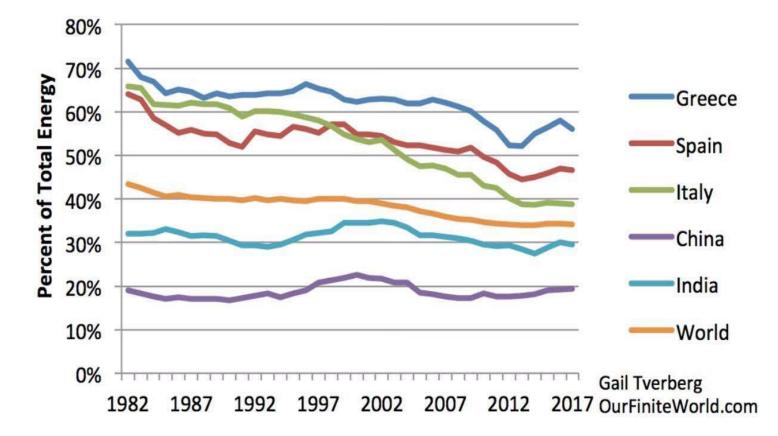


Figure 7. Oil consumption as a percentage of total energy consumption, based on 2018 *BP Statistical Review of World Energy* data.

China To Dominate Global Renewables Sector Non-Hydropower Capacity Additions By Market, MW The Daily Shot 14-Feb-2019 200,000 @SoberLook 150.000 100,000 50,000 0 2026f 2019f 2020f 2027f 2028f 024f 2022f 2025f 023f 02H China | Rest Of The World f = Fitch Solutions forecast. Source: EIA, Irena, Fitch Solutions.

EV share of passenger vehicle sales 2018 EV sales: 8.0% 1.1 million 7.0% 2019 expected: 6.0% 1.5 million 5.0% 4.0% 2011-18 compound 3.0% annual growth rate: 2.0% 118% 1.0% · EV adoption rate in 0.0% 4Q 2018: Q1 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q2 7% 2015 2016 2017 2018 North America -Europe China Japan Korea Source: China Association of Automotive Manufactures, BloombergNEF.

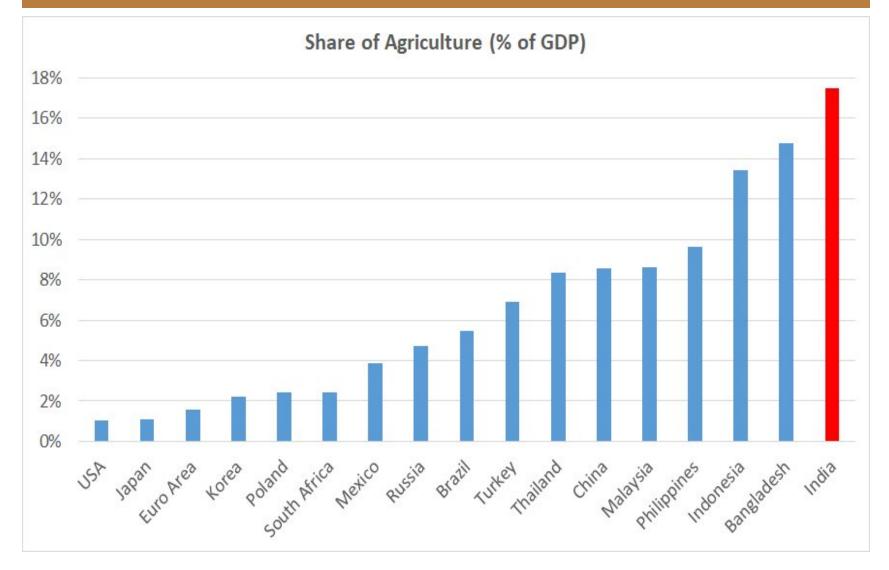
February 5, 2019

BloombergNEF

CHINA AS A % OF WORLD CONSUMPTION						
	1995	2000	2005	2010	2015	2018
Cement	31.5%	35.7%	45.3%	56.2%	57.7%	58.0%
Coal	29.9%	30.0%	42.7%	48.5%	50.8%	50.7%
Steel	12.7%	15.1%	31.7%	43.2%	43.2%	44.7%
Industrial Robots	—		3.5%	6.7%	27.0%	39.2%
Cotton	22.0%	25.0%	37.8%	39.8%	31.7%	32.1%
Rice	35.8%	34.1%	31.0%	30.5%	30.2%	29.5%
Hydroelectricity	7.7%	8.4%	13.6%	20.7%	28.6%	28.5%
University Grads	7.4%	9.0%	17.1%	20.5%	25.7%	26.6%
Mobile Phones	4.0%	11.6%	17.8%	16.2%	18.0%	19.2%
Beef & Veal	8.4%	9.6%	10.1%	11.2%	12.7%	14.0%
Oil	4.7%	6.1%	8.2%	10.7%	12.6%	13.0%
Nuclear Energy	0.6%	0.6%	1.9%	2.7%	6.6%	9.4%
Nat Gas	0.8%	1.0%	1.7%	3.4%	5.6%	6.6%
Coffee	0.0%	0.0%	0.2%	0.8%	1.7%	2.4%

DISRUPTION – THE INDIAN CONTEXT

INDIA'S SHARE OF AGRICULTURE: STILL HIGH?

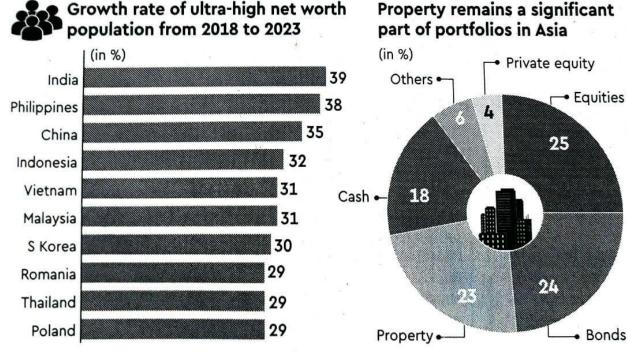


Minting billionaires

Asia leads the world, India fastest

ASIA WILL SEE the fastest billionaire population growth in the world over the next four years, despite economic uncertainties in the region triggered by the China-US trade war. Asia will also see the biggest increase in ultra-high net worth individuals (people with net assets of \$30 million or more). India leads the world with an expected 39% surge, followed by the Philippines and China.





Note: UHNW defined as those with net assets of \$30 million or more Source: Knight Frank; Bloomberg

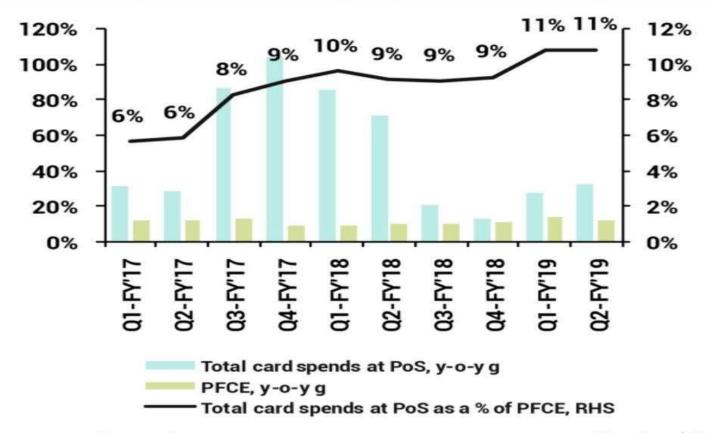
The Cost of Mobile Internet Around The World

Average cost of 1GB of mobile data in selected countries in 2019 (U.S. dollars)



Average cost of 1GB of mobile data in selected countries in 2019 (U.S. dollars). STATISTA

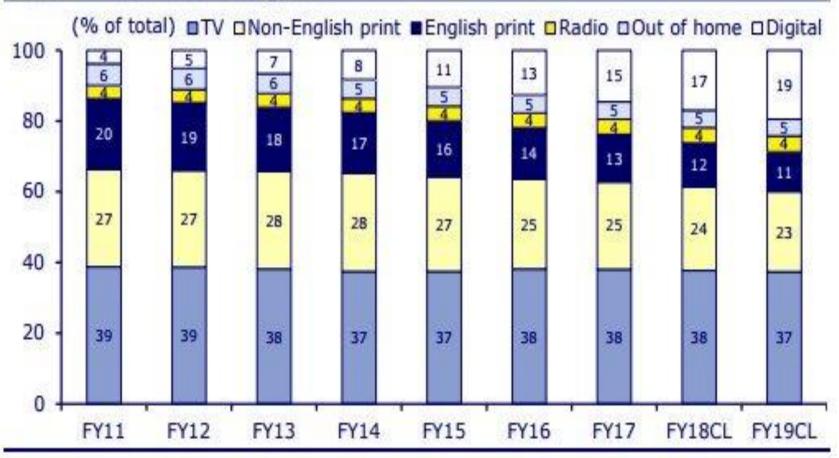
India: Total Card Spends As A % Of Private Final Consumption Of Expenditure



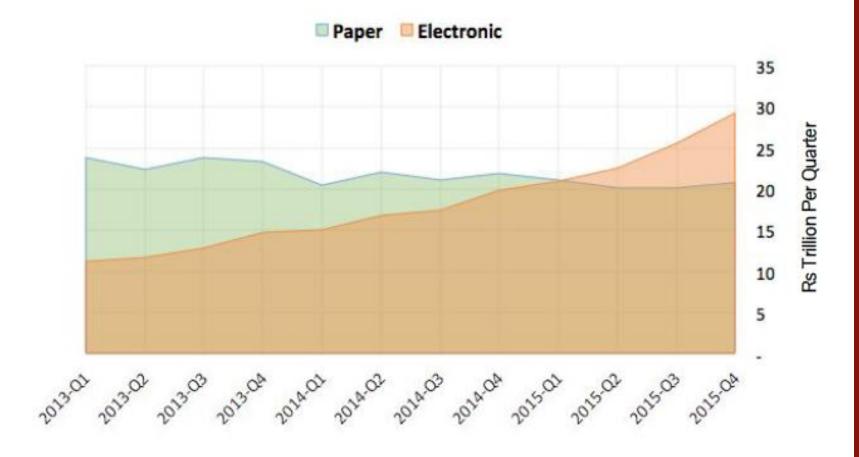
Source: Bernstein Research

Bloomberg Quint

Medium-wise share in ad spends



Source: FICCI-KPMG, CLSA

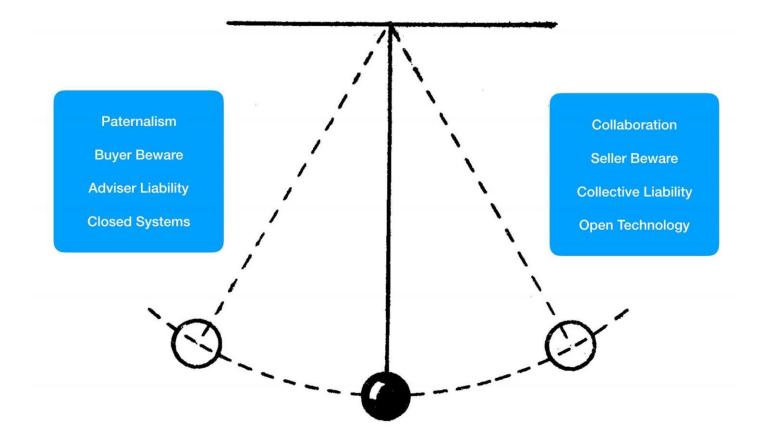


Source: Nandan Nilekani, Indian Banking in a time of change, 2016

The 6 most expensive words in business are: we've always done it this way: Catherine De Vrye

WEALTH MANAGEMENT: AT THE CUSP OF CHANGE

Changing Emphasis



THESE COUNTRIES ARE SET TO SEE THEIR MILLIONAIRE POPULATIONS SKYROCKET

THE FASTEST-GROWING HIGH NET WORTH COUNTRIES IN THE NEXT FIVE YEARS

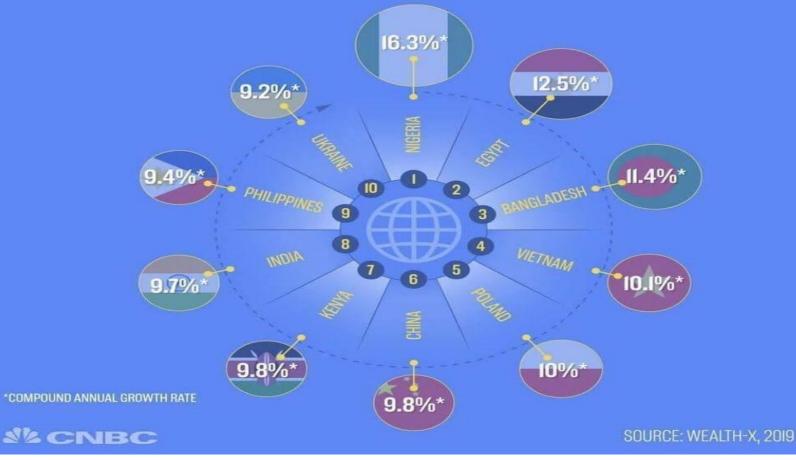
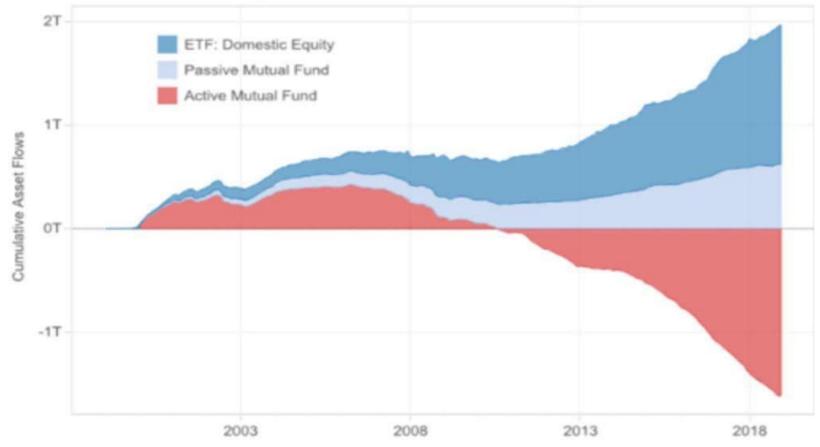


Exhibit 28: Structural Shift Away from Active U.S. Equity Funds into Index Funds





Source: Credit Suisse: Trading Strategy, ICI, Factset

\$238.4 billion

-\$91.3 billion

For another year in a row, ETFs gained ground on mutual funds.



Over the course of the year, a net amount of \$192 billion flowed into funds, bringing total assets invested up to

\$19.7 trillion.

\$3.4 trillion Despite growing for another year, ETFs

ETFs

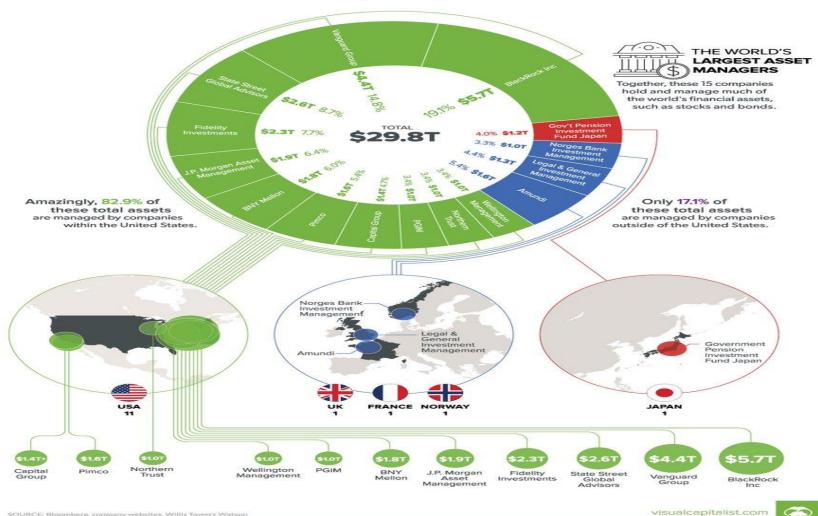
still make up a smaller part of the fund universe overall.

Mutual Funds **\$16.3 trillion**

Chart of the Week

THE TRILLION DOLLAR CLUB

The world's largest asset holders are overwhelmingly U.S. based



SOURCE: Bloomberg, company websites, Willis Towers Watson

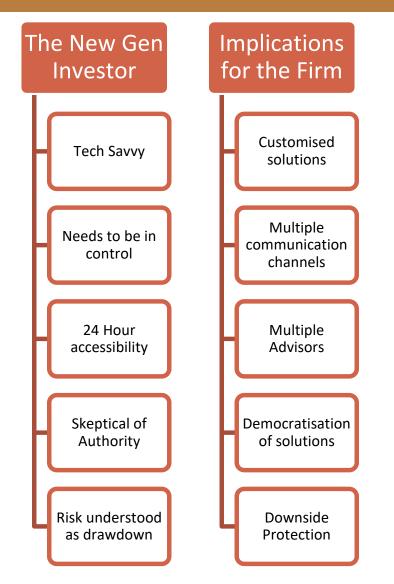
THE 10 DISRUPTORS

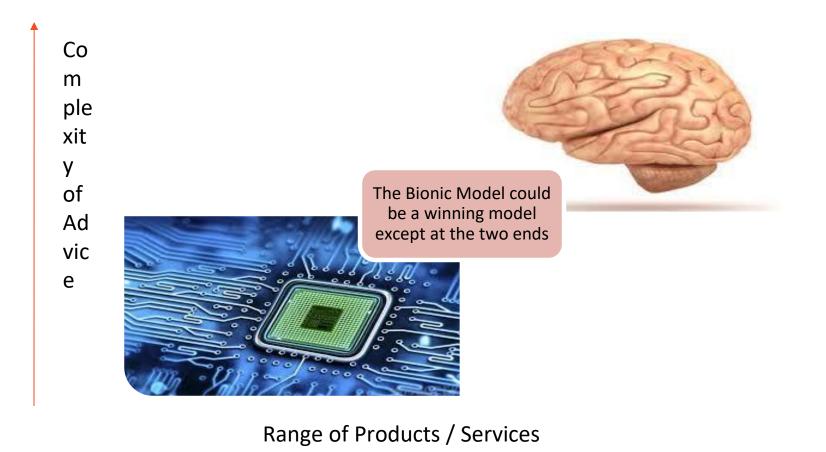
- □ New Generation of Investor
- □ Rise of The Machine
- □ Big Data & Advanced Analytics
- □ Holistic Goal Based Solutions
- Democratisation of Investment Solns
- Demographics & Advisor Skill Sets
- Challenges of Wealth Transfer
- Macro economic Environment
- Regulatory & Compliance Costs
- Business Models & Intensity of competition

Source: The 10 disruptive trends in wealth management, Deloittes, 2015



New Generation of Investor







Client Advice





Connect

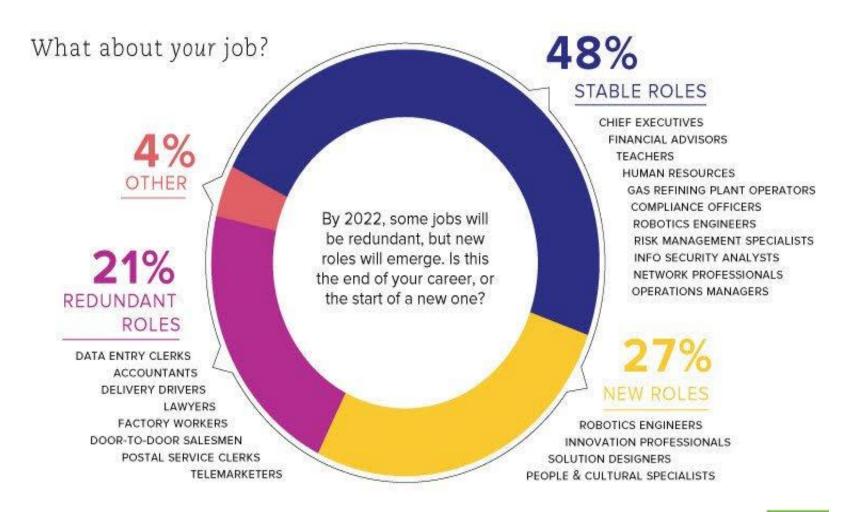
- Consolidate Accounts
- Connect with Advisors

Advise

- Tailored Advice
- Enhanced Reporting

Invest

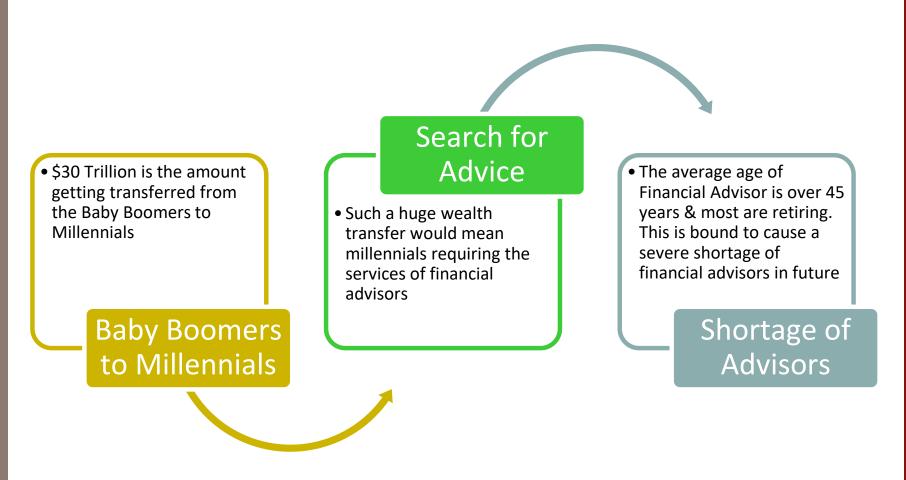
- Institution like treatment
- Access to Non traditional products



visualcapitalist.com



SOURCE: Future of Jobs Survey 2018, World Economic Forum, Statista



Source: WWR, Cap Gemini, 2016

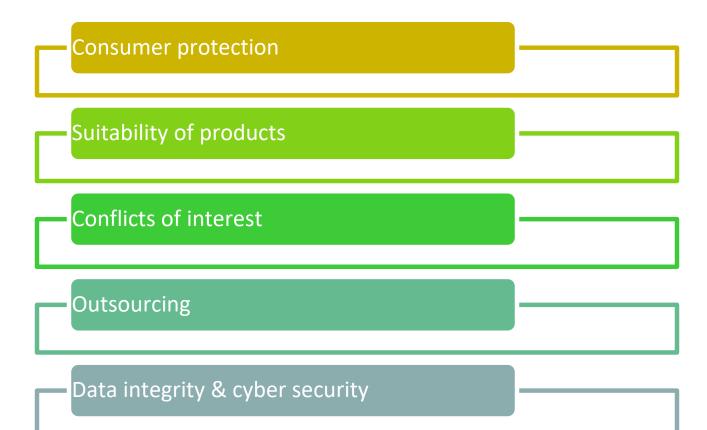
Low interest rate environment

- Low Inflation rate

Low growth rate

- High correlation of asset classes

High levels of financial leverage





Platform providers

Note: The material presented is a combination of public source of data & the author's own thoughts. All sources are attributed accordingly. The contents are meant solely for educational & information purposes and the author derives no commercial benefit from it. No part of this presentation shall be used without the express permission of the author

THANK YOU