

CRIST | KOLDER ASSOCIATES Volatility Report 2021





Report Highlights

- The percentage of Female CEOs and CFOs is at its highest level ever (Page 34)
- The number of African American / Black CFOs has nearly doubled in the last year (Page 40)
- Companies have been hiring fewer external candidates for CEO and CFO roles since the pandemic (Page 13)
- For the first time ever, more CFOs attended International universities than any U.S. conference (Page 52)
- After an all-time low in 2018, the COO position has started to bounce back in recent years (Page 14)
- Since 2017, the importance of MBAs continues to surpass CPAs amongst CFOs (Page 59)
- The age at hire for CEOs and CFOs has gradually increased since 2005 (Page 28)
- Promotion from CFO to CEO is at its highest level since 2012 (Page 19)



Crist | Kolder Associates Volatility Report 2021

Table of Contents

Report Highlights	Page 1
Methodology	Page 3
Locations	Page 6
Executive Turnover	Page 9
C-Suite Career Paths	Page 16
Diversity Landscape	Page 33
Boards	Page 43
Educational Background	Page 50



Methodology

The annual Crist | Kolder Volatility Report of America's Leading Companies examines the backgrounds and measures the turnover of C-Suite Executives in a portfolio of 682 of America's leading companies from the Fortune 500 and S&P 500 Indexes.

Crist | Kolder Associates examines each of the portfolio companies individually, noting personnel and organizational changes in the CEO, CFO, and COO roles. Each Executive's background is explored, including the path taken to get to their current role: industry background, functional experience, and education. This includes demographic information such as age, gender, and race.

This is the 18th year of the Crist | Kolder Volatility Report, though information for the report goes back to 1995. This 2021 winter release of the Crist | Kolder Volatility Report contains data through December 31, 2021.



Methodology Notes

- 2021 Fortune 500 and S&P 500 Companies (682 Total)
 - Companies Removed from 2020: 42
 - Companies Added from 2020: 50
 - Public Companies: 656
 - Private Companies: 26
- Data tracked January 1, 1995, through December 31, 2021
- Industries are broken down by Fortune's classification system and then grouped into designated larger categories based on SIC codes and judgment of Crist | Kolder Associates
- Resources:
 - Bloomberg: www.bloomberg.com
 - Businessweek: www.businessweek.com
 - Capital IQ: www.capitaliq.com
 - Fortune: www.fortune.com
 - LinkedIn: www.linkedin.com
 - SEC Company Filings: www.sec.gov
 - Yahoo Finance: www.finance.yahoo.com
 - Individual company websites

Color Key

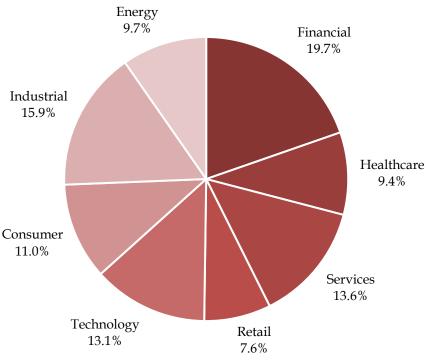
Blue = CEO

Green = CFO

Orange = COO

Graphs and data correspond with the color key above

Company Breakdown by Industry





Definitions

<u>Acquisitions:</u> In the event an Executive from the acquired company is appointed to a role in the acquiring company, it is an internal change.

COO Role: The COO role is strictly limited to individuals with the title "Chief Operating Officer."

C-Suite: Limited to CEO, CFO, and COO roles.

<u>External Change:</u> An Executive is recruited to a position at a company to which his/her previous position has no formal ties.

<u>Internal Change:</u> An Executive is promoted to a role at the company where he/she is already employed.

<u>Mergers:</u> In a merger of equals, the combined company is considered a new entity. A change in leadership, therefore, is marked for all mergers. A change is internal if the Executive was previously employed by either of the merging companies.

<u>Services Industry:</u> Companies partaking in Distribution, Restaurant/Hospitality, Transportation, and Consulting.

<u>Turnover:</u> The rate at which there is a new hire for a C-Suite position.

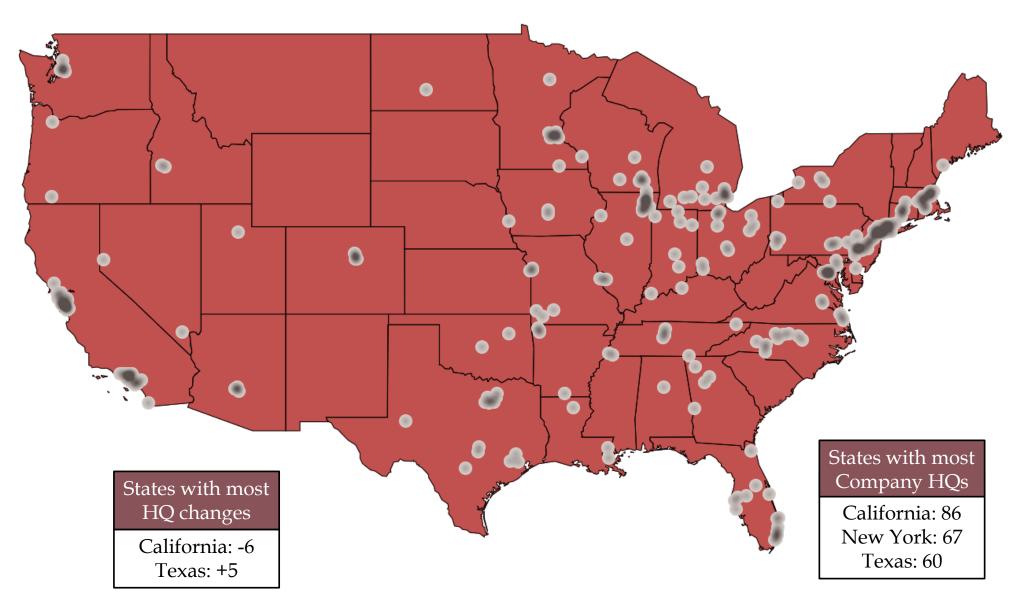
<u>Volatility:</u> Turnover is noted when the Executive starts in the new role (as opposed to the date of announcement).



Locations



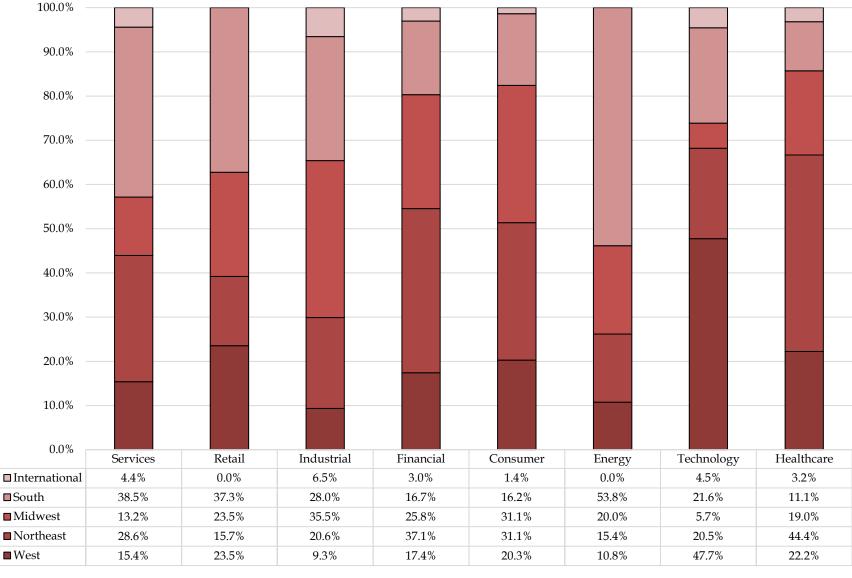
Fortune 500 and S&P 500 Company Headquarters





Industry Breakdown by Region

2021 Fortune 500 and S&P 500 (682 Companies)



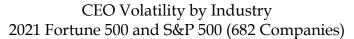
[•]Regions: Northeast, Midwest, South, and West as determined by the United States Census Bureau with the addition of International countries.
•International indicates company is headquartered outside of the United States.

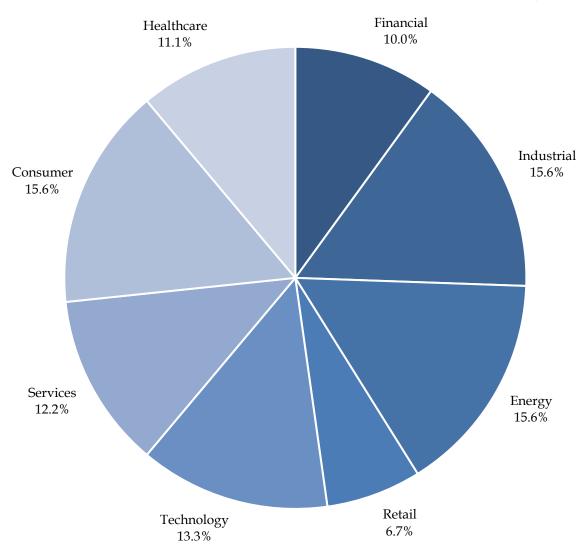


Executive Turnover



The Industrial, Consumer, and Energy sectors account for nearly half of all CEO turnover





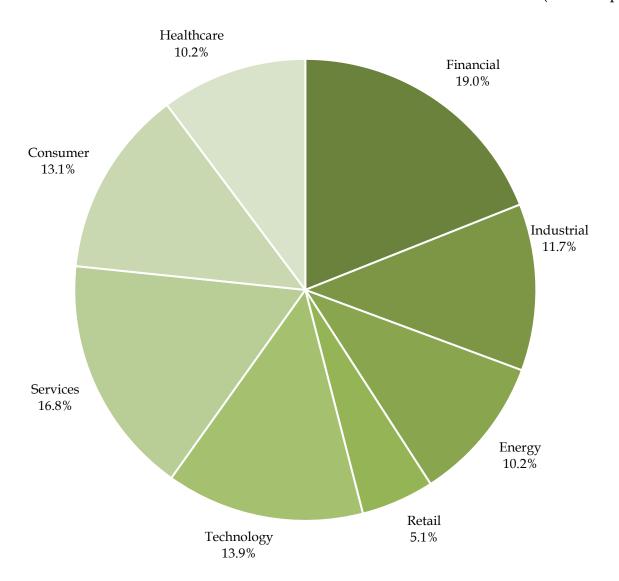
Notable CEO Changes in 2021

AIG
Citigroup
CVS Health
Emerson
Intel
Marriott
Mastercard
Twitter
UnitedHealth Group
Walgreens Boots Alliance



The Financial and Services sectors account for over one-third of all CFO turnover

CFO Volatility by Industry 2021 Fortune 500 and S&P 500 (682 Companies)



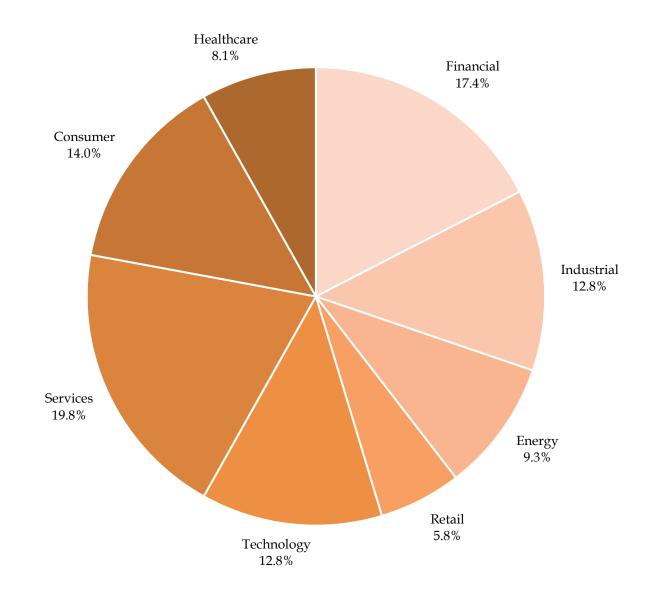
Notable CFO Changes in 2021

AT&T
Cerner
Cigna
CVS Health
Foot Locker
HP
JPMorgan Chase
Merck
P&G
Starbucks



The Services industry was accountable for nearly 20% of COO turnover

COO Volatility by Industry 2021 Fortune 500 and S&P 500 (682 Companies)



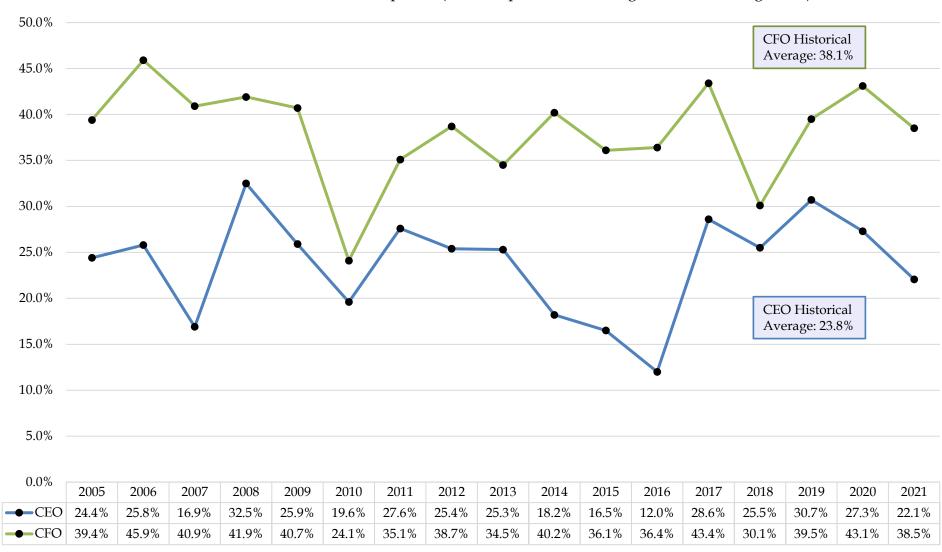
Notable COO Changes in 2021

Cisco Systems
Cummins
General Motors
Morgan Stanley
PepsiCo
UnitedHealth Group
Walmart
Yum! Brands



Since the beginning of the pandemic, there has been a significant dip in external hiring of CEOs and CFOs

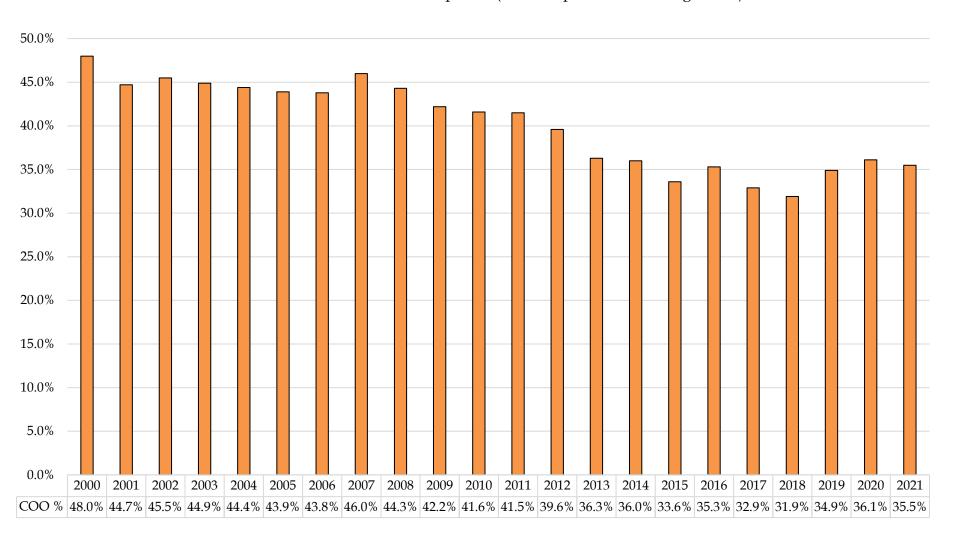
Percentage of CEOs/CFOs Recruited from Outside the Company (2005-2021) 2021 Fortune 500 and S&P 500 Companies (682 Companies; 693 Sitting CEOs; 678 Sitting CFOs)





Utilization of the COO position bottomed out in 2018 and is now being replenished in anticipation of future CEO transitions

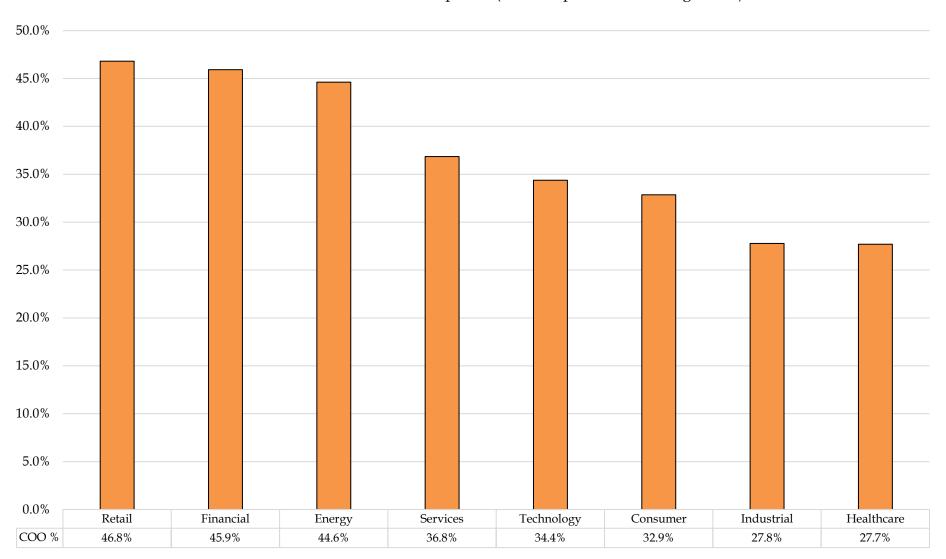
Percentage of Companies with a COO (2000-2021) 2021 Fortune 500 and S&P 500 Companies (682 Companies; 254 Sitting COOs)





The Retail and Financial sectors most often utilize the COO position

Percentage of Companies with a COO by Industry 2021 Fortune 500 and S&P 500 Companies (682 Companies; 254 Sitting COOs)



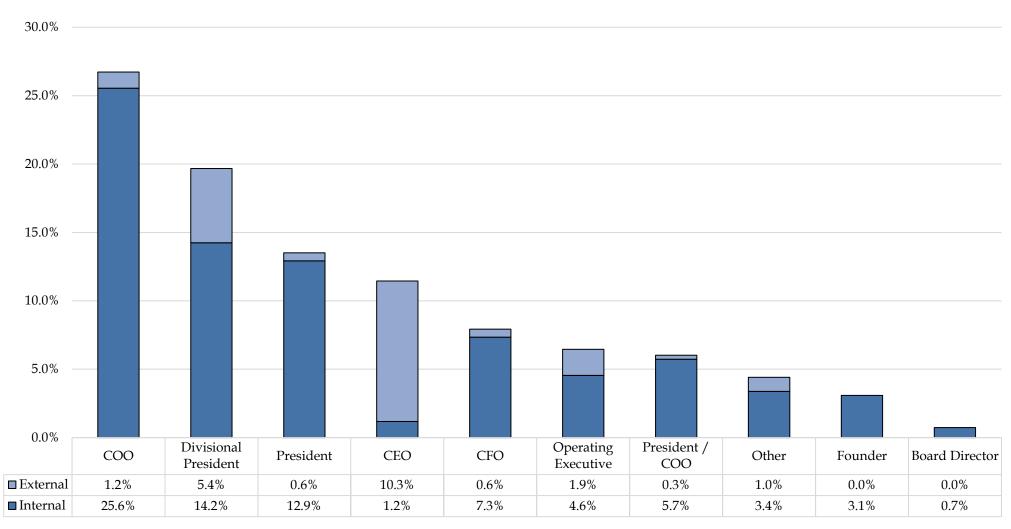


C-Suite Career Paths



Over 25% of current CEOs were promoted from the COO position

Immediate Previous Position of Sitting CEOs (Internal vs. External) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs)



[•]Internal Divisional President: Includes CEO of subsidiary company

[•]Internal CEO: Includes CEOs who were part of a merger

[•]President/COO: Executive held both President and COO roles at the same time

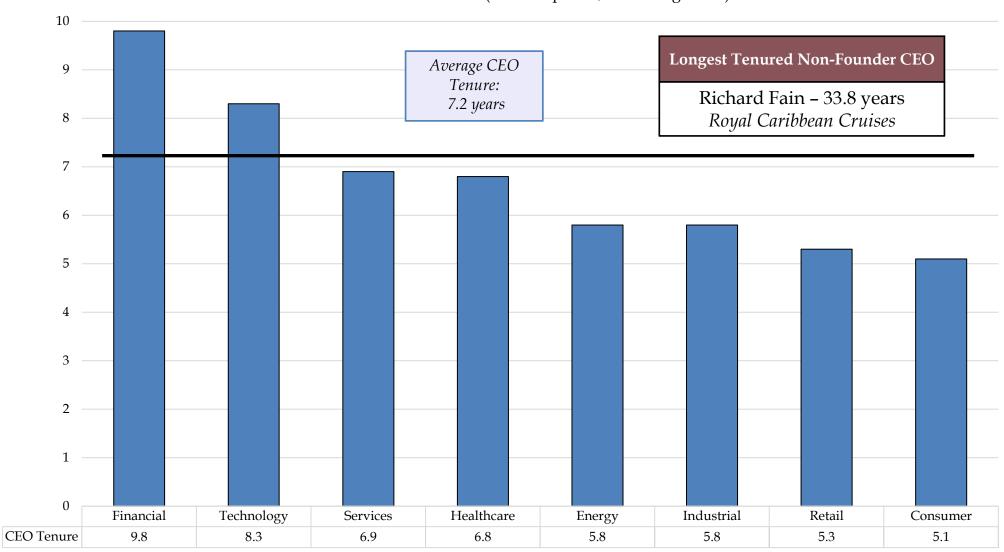
[•]Operating Executive: VP/SVP/EVP of Operations

[•]Other: Corporate Finance Executive, CAO/Controller, Strat/MA, Treasurer, etc.



Retail and Consumer CEOs have a much shorter tenure

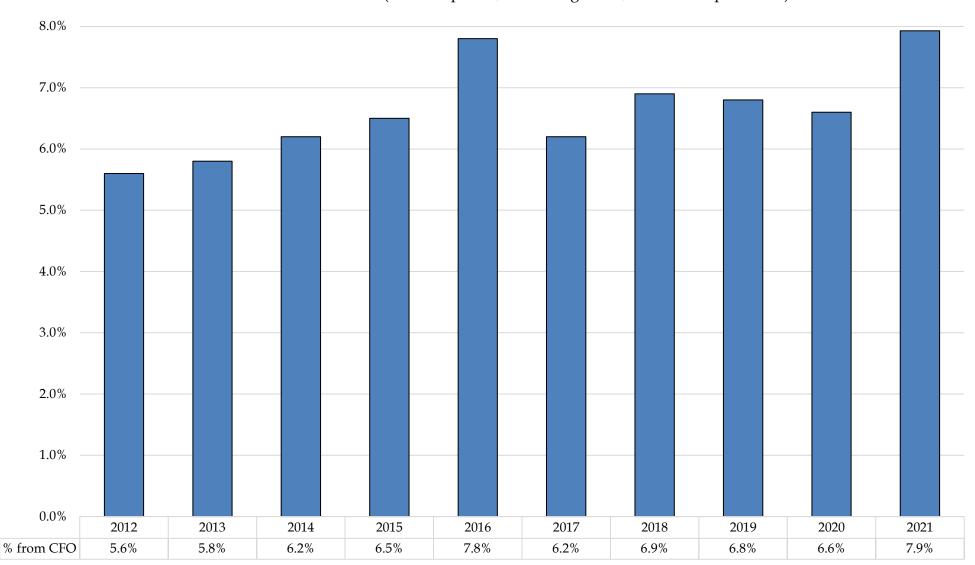
Average Tenure of CEO by Industry 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs)





C-Suite promotion from CFO to CEO is at a ten-year high

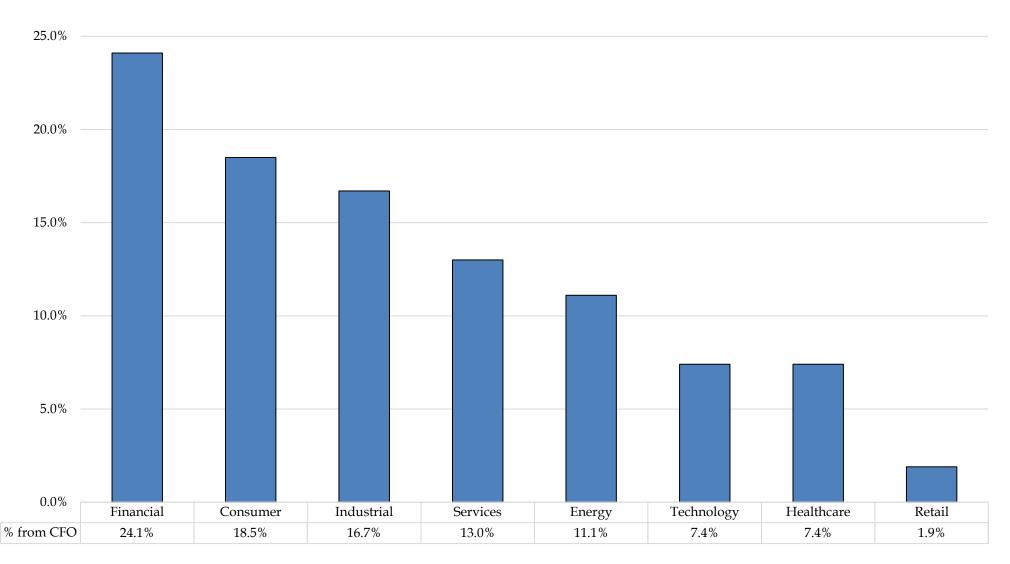
Percentage of Sitting CEOs coming directly from a CFO Chair (2012-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 53 CEOs Represented)





Nearly 25% of Financial sector CEOs were previously in a CFO role

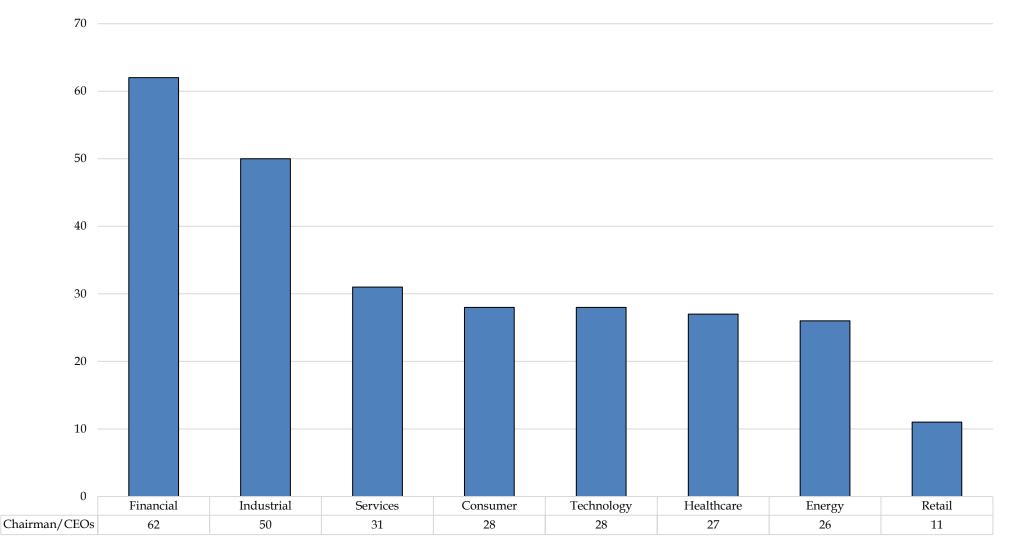
Percentage of Sitting CEOs coming from a CFO Chair by Industry (Internal or External) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 53 CEOs Represented)





CEOs in the Financial sector hold the most Chairman titles

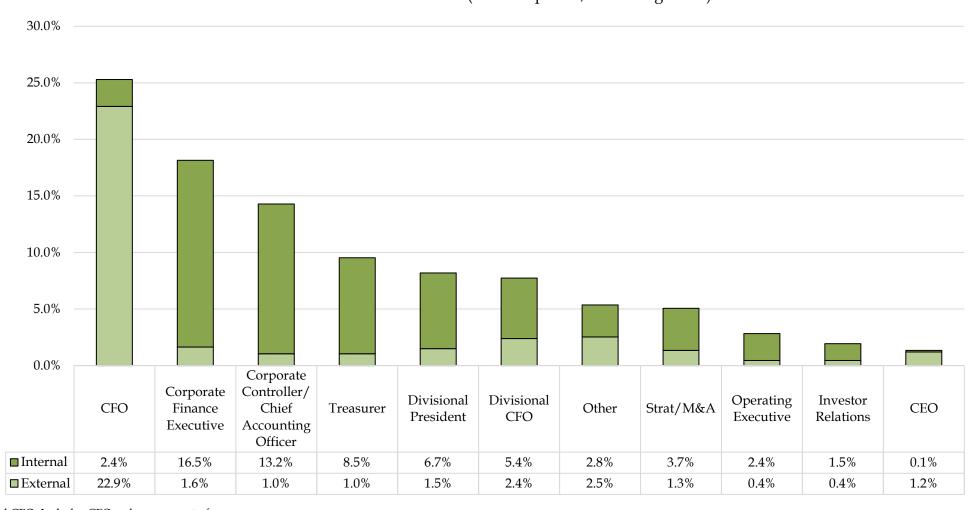
Sitting CEOs that are also Chairman 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 263 CEOs Represented)





25% of CFOs held a different CFO position immediately prior to their current role

Percentage of Sitting CFOs by Immediate Previous Position (Internal or External) 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)



[•]Internal CFO: Includes CFOs who were part of a merger

[•]Internal Divisional CFO: Includes CFOs of subsidiary companies

[•]Operating Executive: VP/SVP/EVP Operations

Corporate Finance Executive: VP, SVP, EVP of Finance, and including FP&A and dual Finance leaders

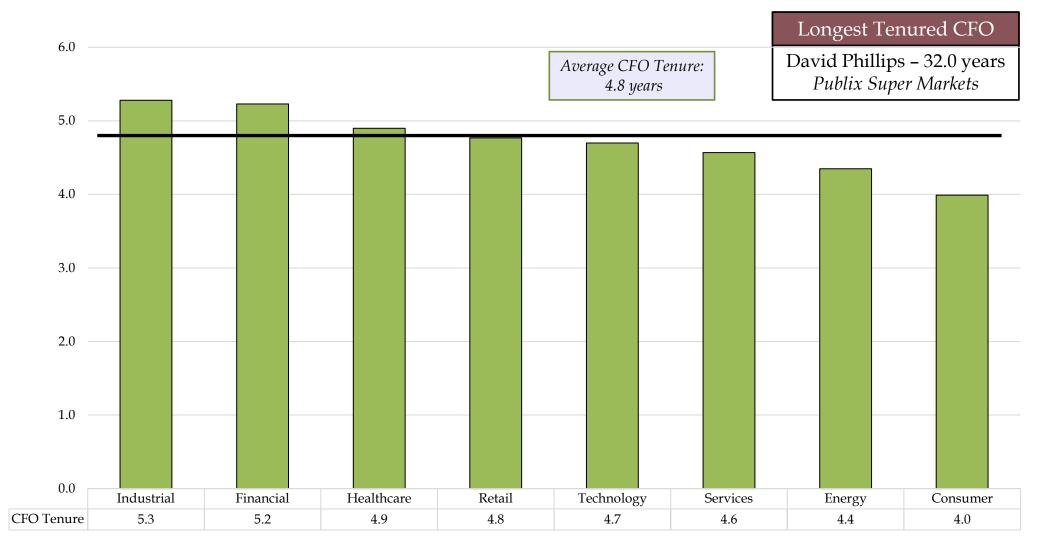
[•]Strat/MA: Investment Banking, Development, Planning or Strategy

Other: Board Director, COO, Founder, President, etc.



The Industrial and Financial sectors have the longest tenured CFOs

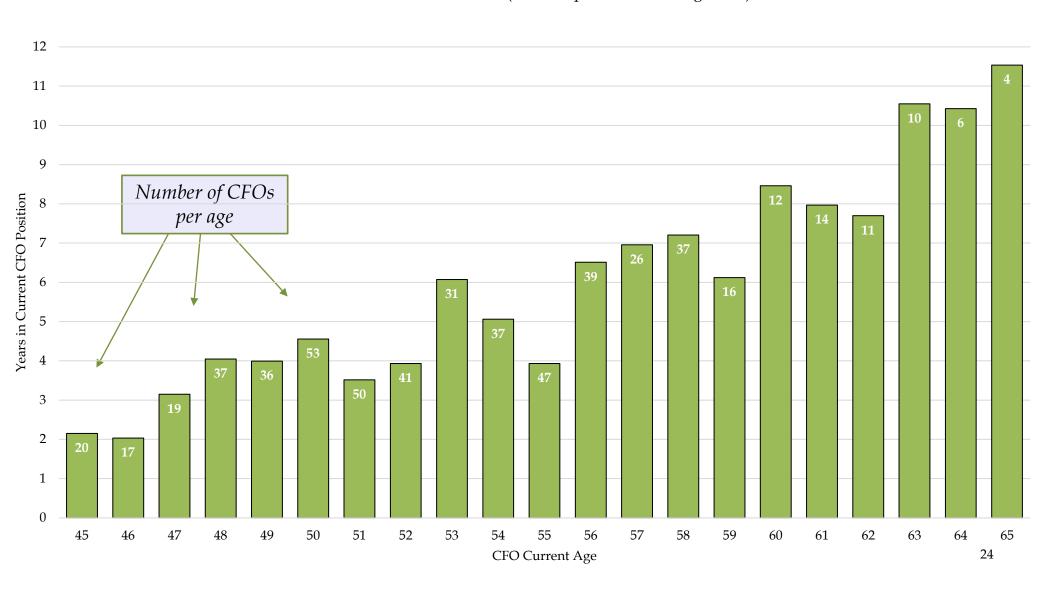
Average Tenure of CFO by Industry 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





Given the average CFO tenure is less than five years, it is highly likely that CFOs age 60 or older will soon exit their roles

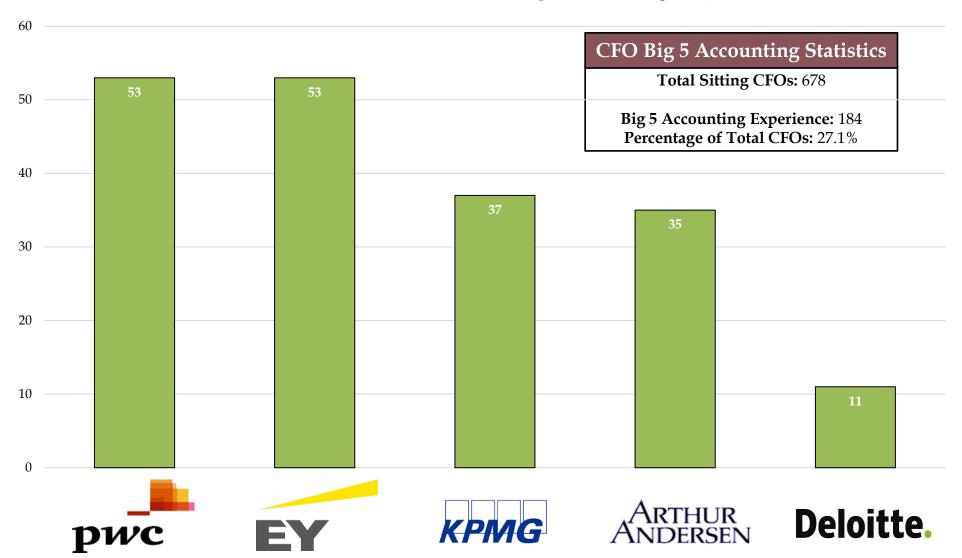
Average CFO Tenure by Age 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





PwC and EY produce more CFOs than other Big 5 Accounting firms

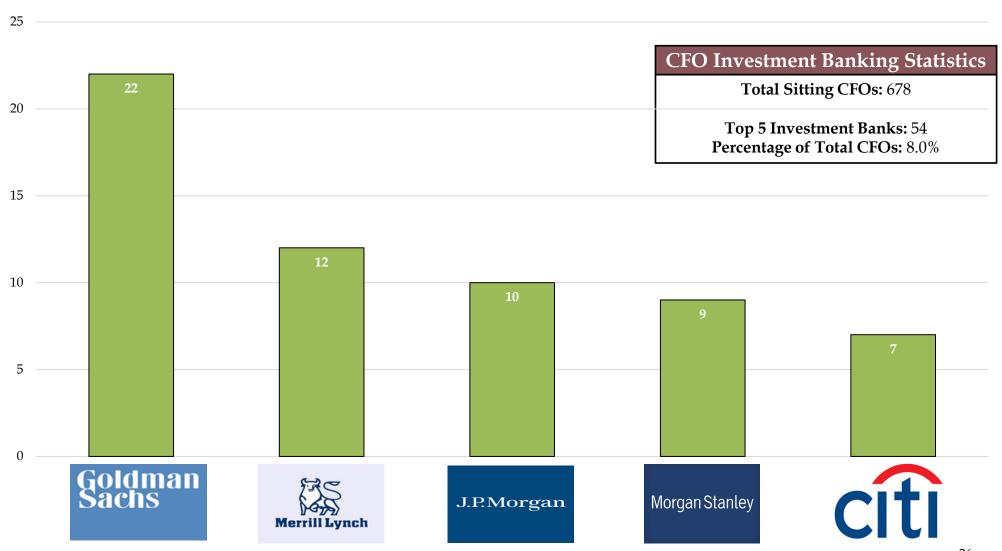
CFOs with Big 5 Public Accounting Backgrounds 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





Goldman Sachs produces more CFOs than any other Investment Bank

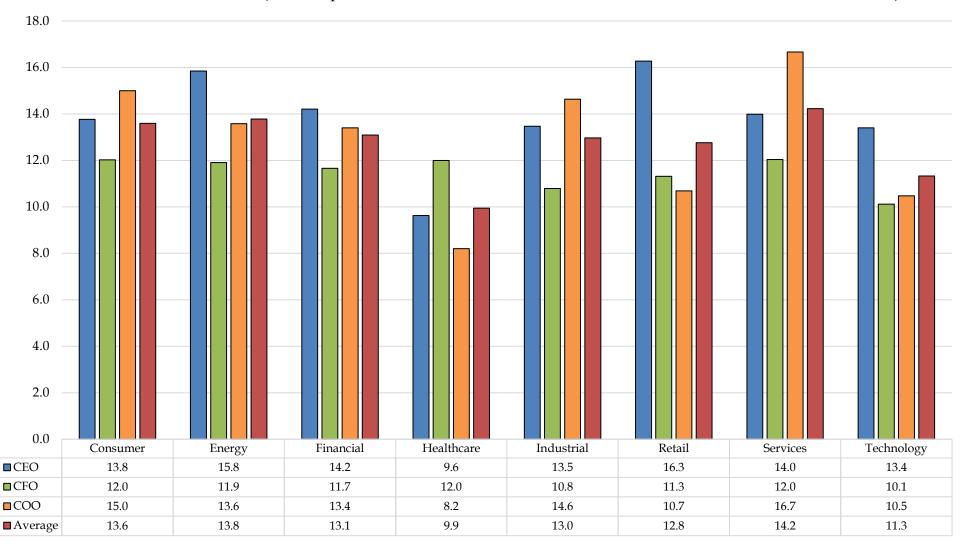
CFOs with Investment Banking Backgrounds 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





The path to the C-Suite (CEO, CFO, COO) is shortest in the Healthcare and Technology sectors

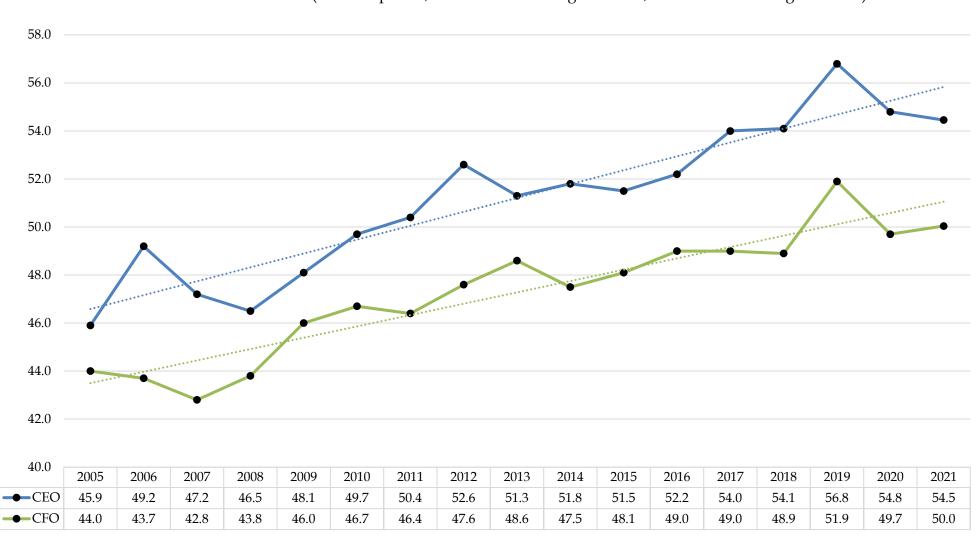
Average years of experience with company **before assuming roles** of CEO/CFO/COO at that company (Internal Hires) 2021 Fortune 500 and S&P 500 (682 Companies; 547 Internal CEO Hires; 433 Internal CFO Hires; 238 Internal COO Hires)





The age at hire for CEOs and CFOs has steadily increased since 2005

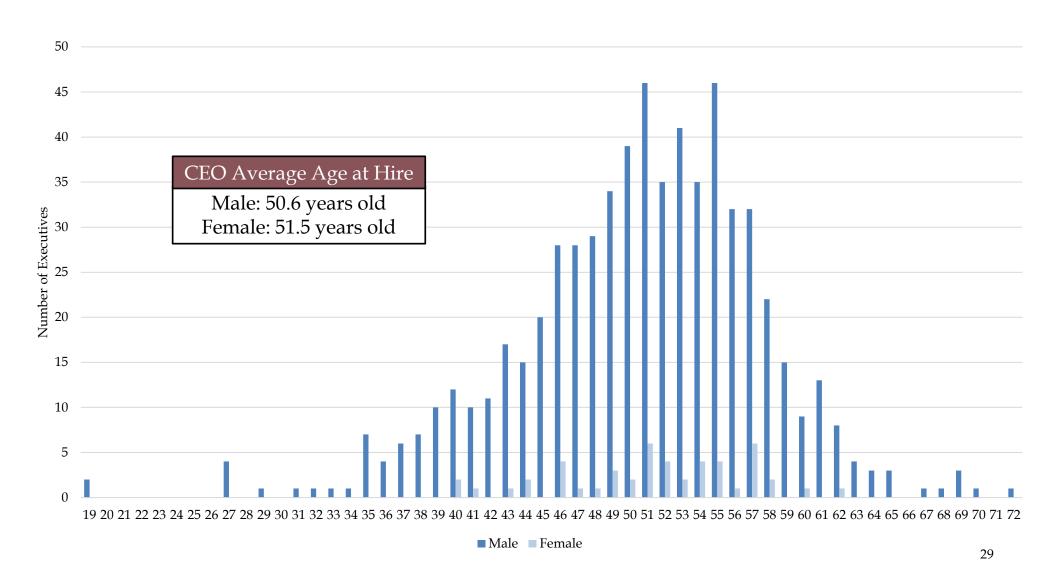
Age at Hire for new CEOs and CFOs (2005-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 688 Known CEO Ages at Hire; 662 Known CFO Ages at Hire)





Nearly 40% of all sitting CEOs were hired before the age of 50

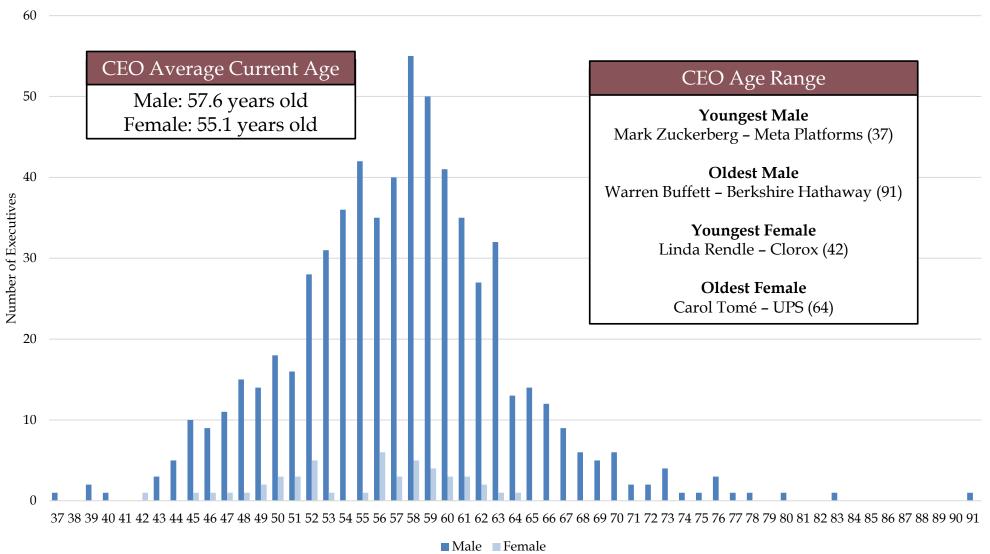
Age at Hire of Sitting CEOs 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 688 Known CEO Ages at Hire)





Nearly one-quarter of all sitting CEOs are 58-60 years old

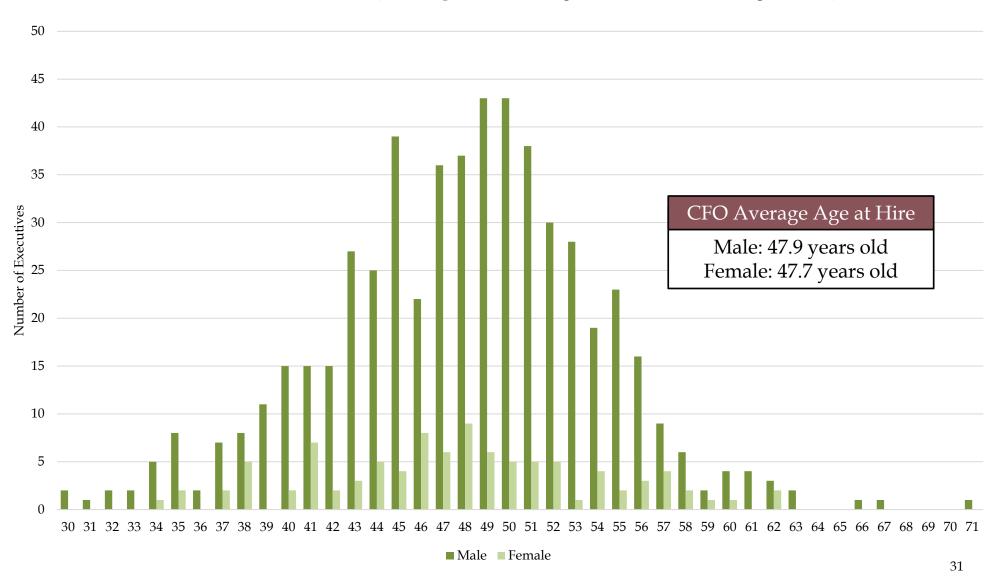
Age Distribution of Sitting CEOs 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 688 Known CEO Ages)





40% of all sitting CFOs were hired between the ages of 45 and 50

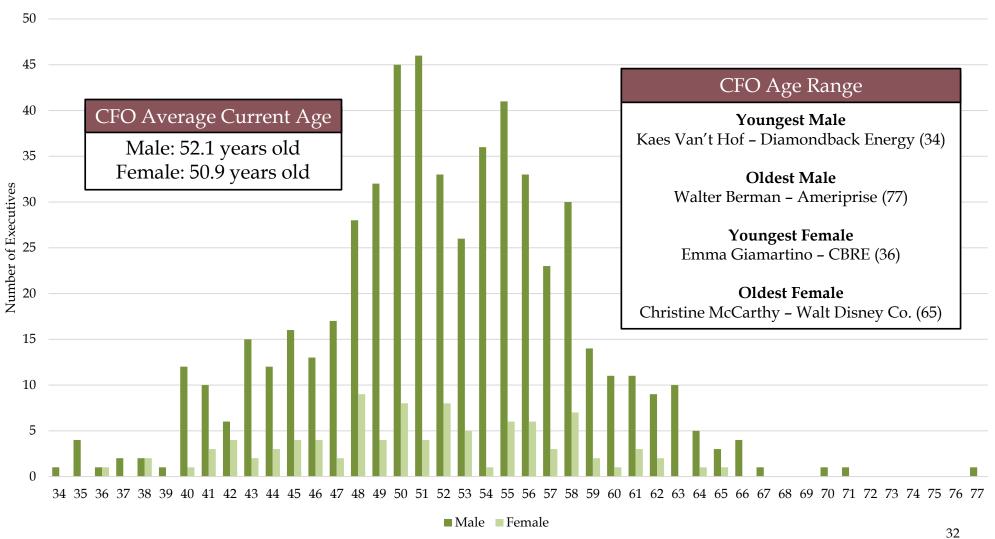
Age at Hire of Sitting CFOs 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs; 662 Known CFO Ages at Hire)





Approximately one-third of all sitting CFOs are under 50 years of age

Age Distribution of Sitting CFOs 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs; 662 Known CFO Ages)



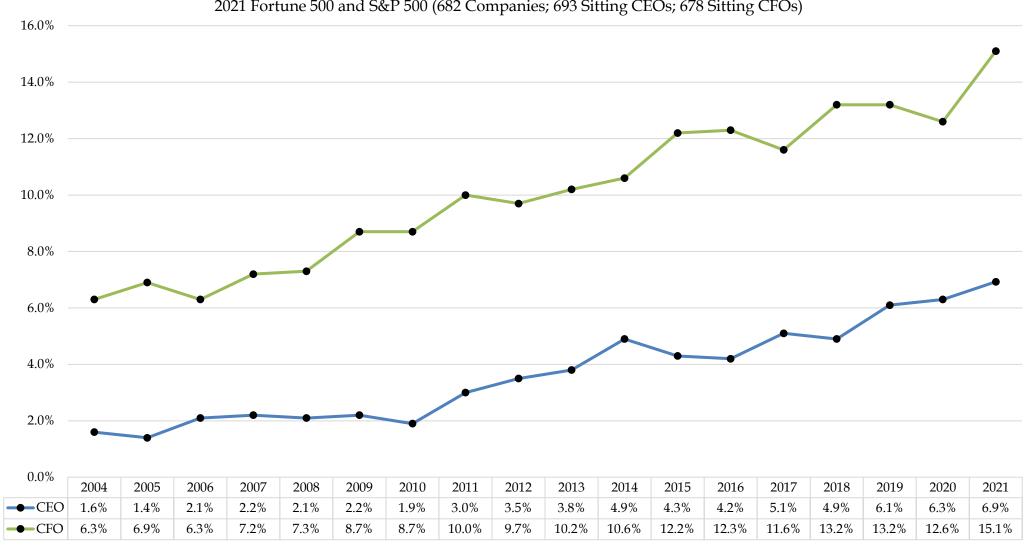


Diversity Landscape



The percentage of Female CEOs and CFOs are both at an all time high

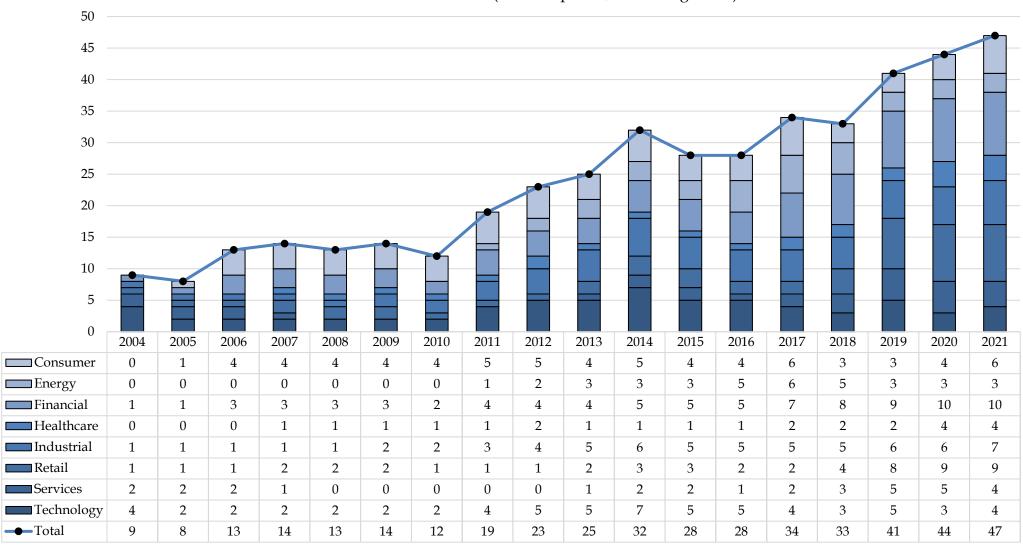
Percentage of Companies with Female CEOs or CFOs (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 678 Sitting CFOs)





The number of Female CEOs has increased for the third consecutive year

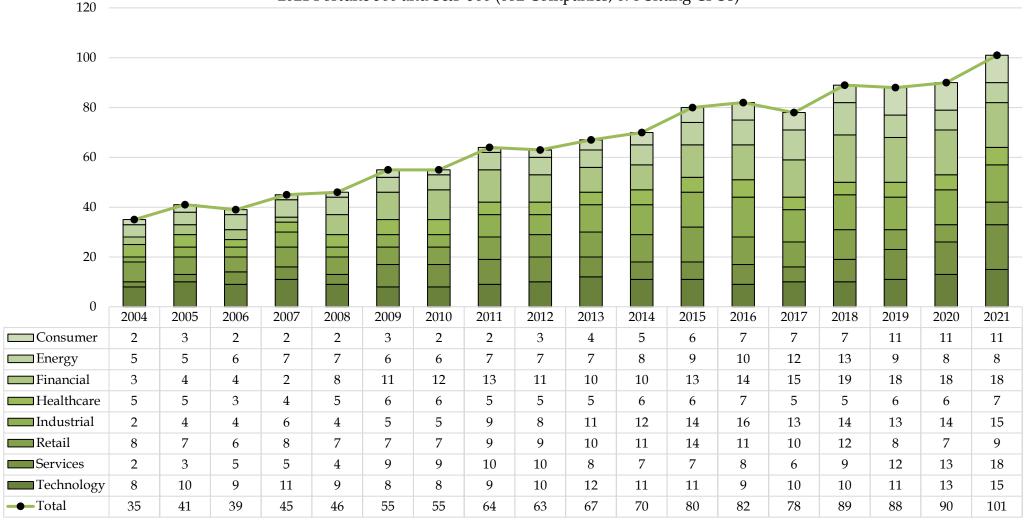
Number of Companies with Female CEOs by Industry (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs)





The number of Female CFOs in the Consumer sector has increased 500% over the last 10 years

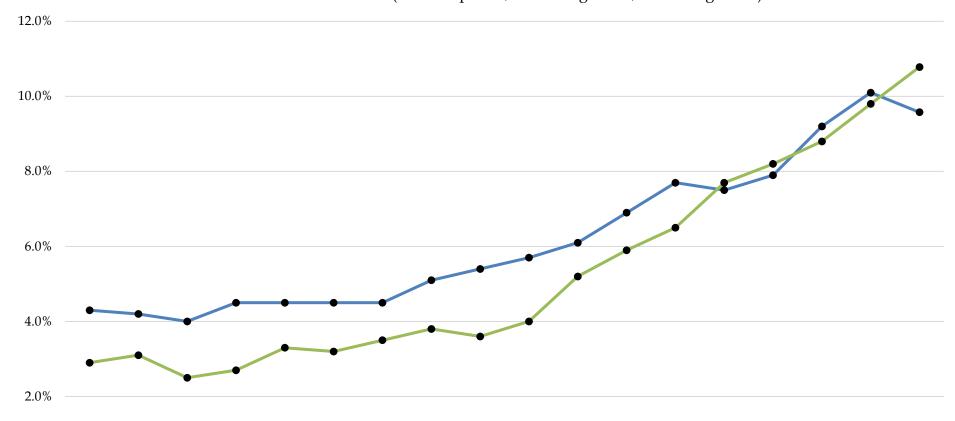
Number of Companies with Female CFOs by Industry (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





For the first time since 2018, CFOs are more Ethnically and Racially diverse than CEOs

Percentage of Companies with Ethnically and Racially Diverse CEOs or CFOs (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 678 Sitting CFOs)



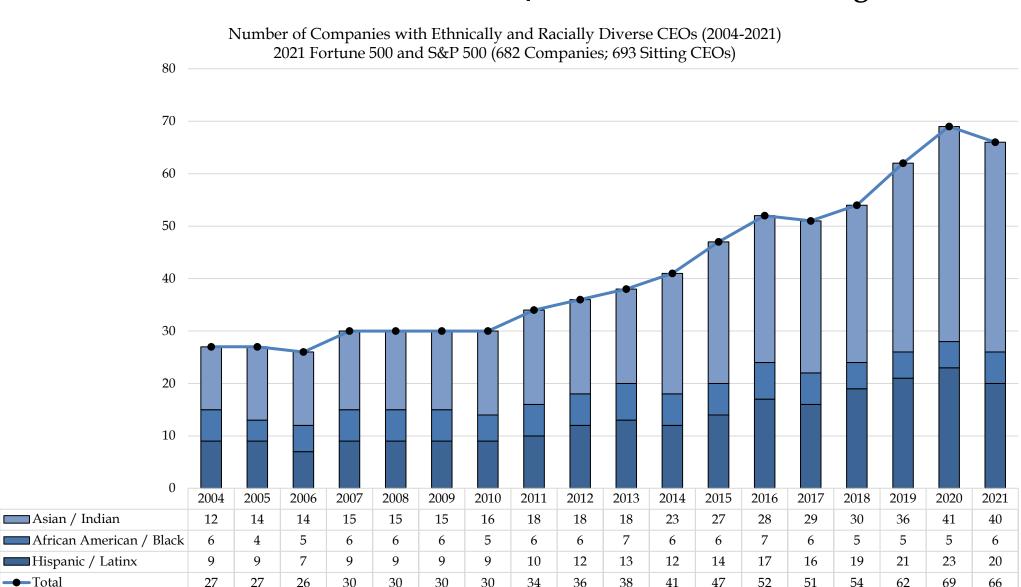
0.0	0%	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	CEO	4.3%	4.2%	4.0%	4.5%	4.5%	4.5%	4.5%	5.1%	5.4%	5.7%	6.1%	6.9%	7.7%	7.5%	7.9%	9.2%	10.1%	9.6%
	CFO	2.9%	3.1%	2.5%	2.7%	3.3%	3.2%	3.5%	3.8%	3.6%	4.0%	5.2%	5.9%	6.5%	7.7%	8.2%	8.8%	9.8%	10.8%



Asian / Indian

─Total

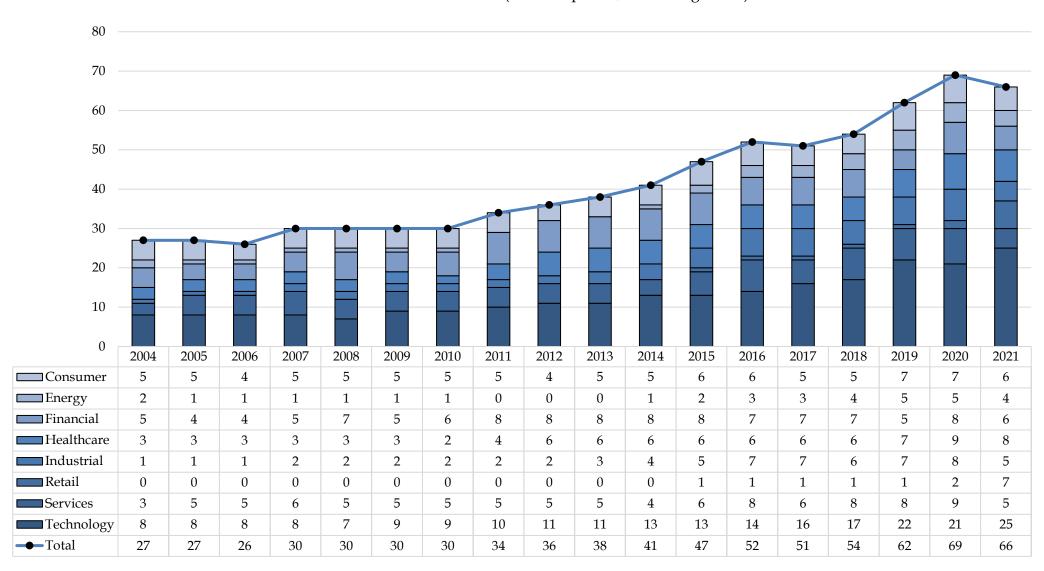
In the last decade, Hispanic / Latinx diversity at the CEO position has doubled while African American / Black has remained stagnant





The Technology sector continues to lead in Ethnic and Racial CEO diversity

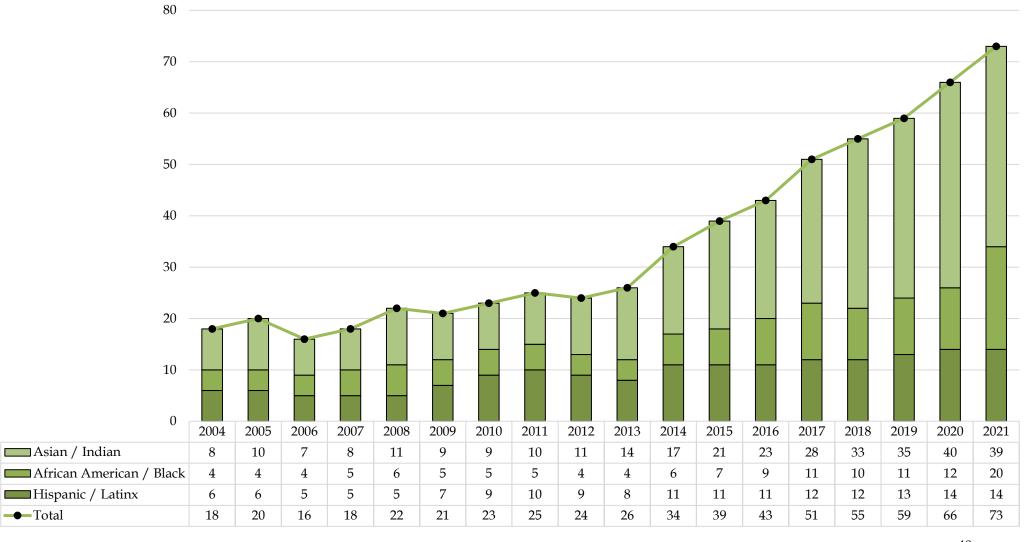
Number of Companies with Ethnically and Racially Diverse CEOs by Industry (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs)





The number of companies with African American / Black CFOs nearly doubled in the last year

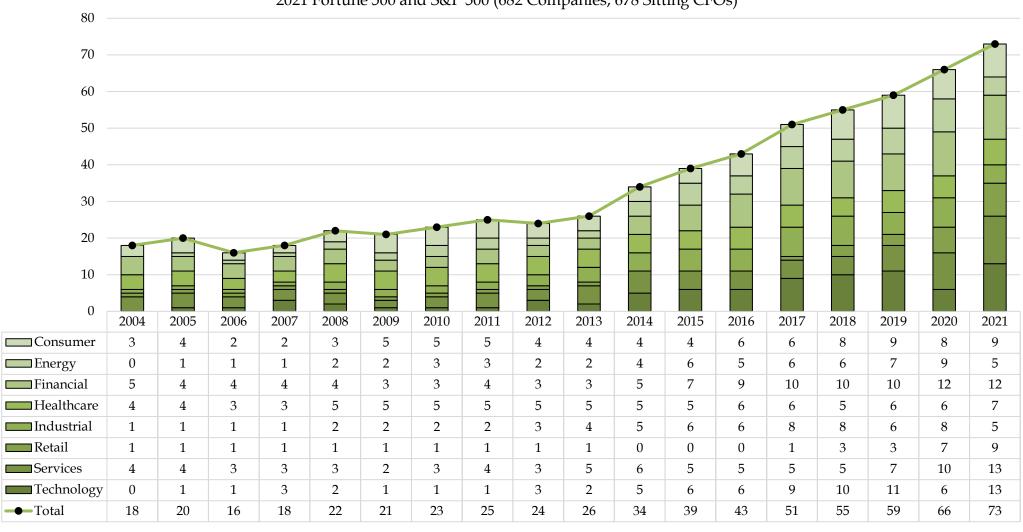
Number of Companies with Ethnically and Racially Diverse CFOs (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





Ethnic and Racial diversity in Technology CFOs has rebounded after a drop-off in 2020

Number of Companies with Ethnically and Racially Diverse CFOs by Industry (2004-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs)





Despite positive diversity trends, underrepresentation persists

Male vs. Female Executives and Ethnically and Racially Diverse vs. Non-Ethnically and Racially Diverse Executives 2021 Fortune 500 and S&P 500 (682 Companies; 1625 Executives)

2021 C-Suite (CEO, CFO, COO) Ethnic and 2021 C-Suite (CEO, CFO, COO) Gender **Racial Diversity Diversity** 2.0% 2.3% 11.2% 6.1% 89.6% 88.8%

■ Male ■ Female

■ African American / Black

■ Asian / Indian

■ Hispanic / Latinx

■ Caucasian

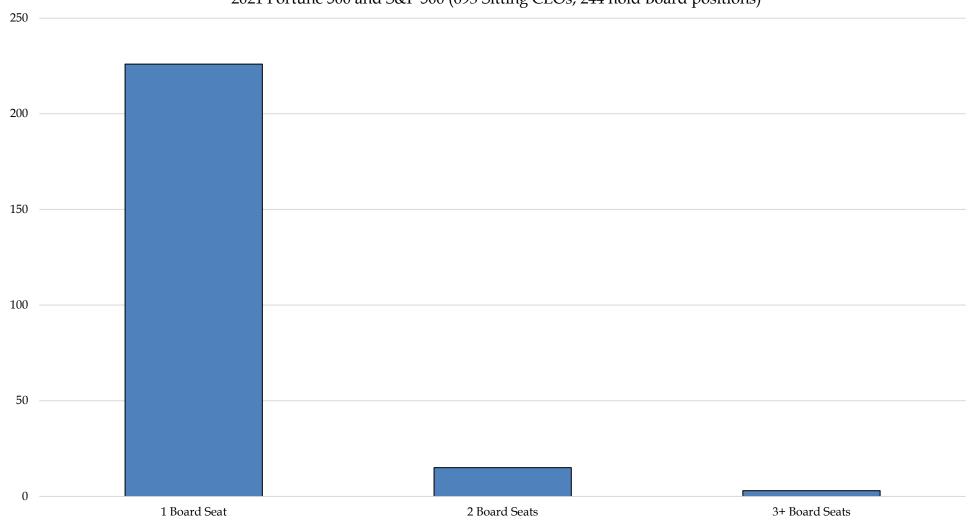


Boards



33% of sitting CEOs hold only one external public Board seat

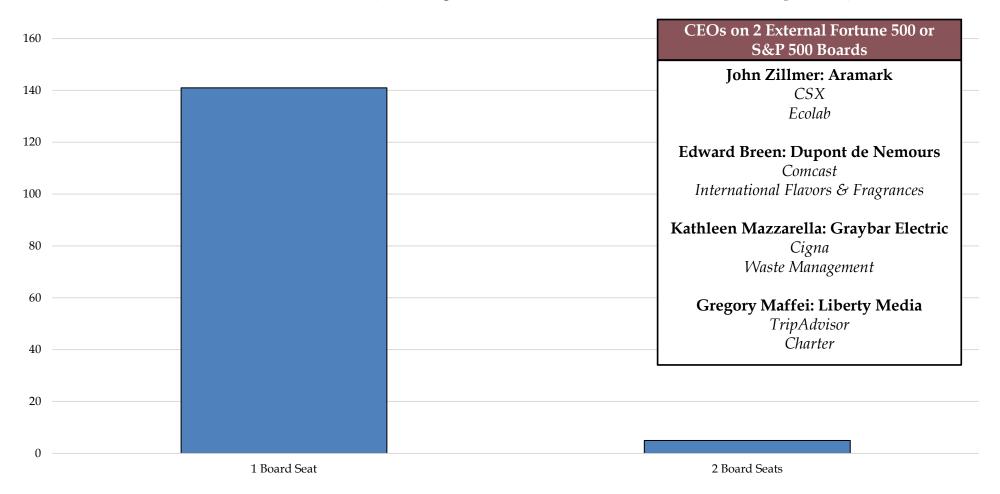
Sitting CEOs holding external public Board seat(s) 2021 Fortune 500 and S&P 500 (693 Sitting CEOs, 244 hold Board positions)





21% of sitting CEOs hold at least one external Board seat on either a Fortune 500 or S&P 500 Company

Sitting CEOs holding external Board seat(s) in other Fortune 500 and S&P 500 Companies 2021 Fortune 500 and S&P 500 (693 Sitting CEOs, 146 hold Fortune 500 or S&P 500 Board positions)

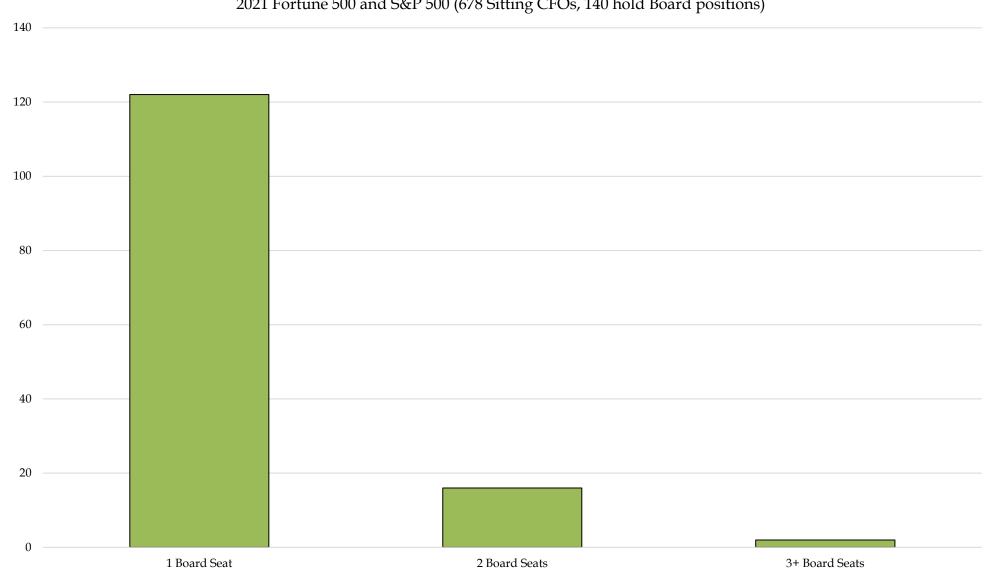


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Over 20% of sitting CFOs hold a public Board seat

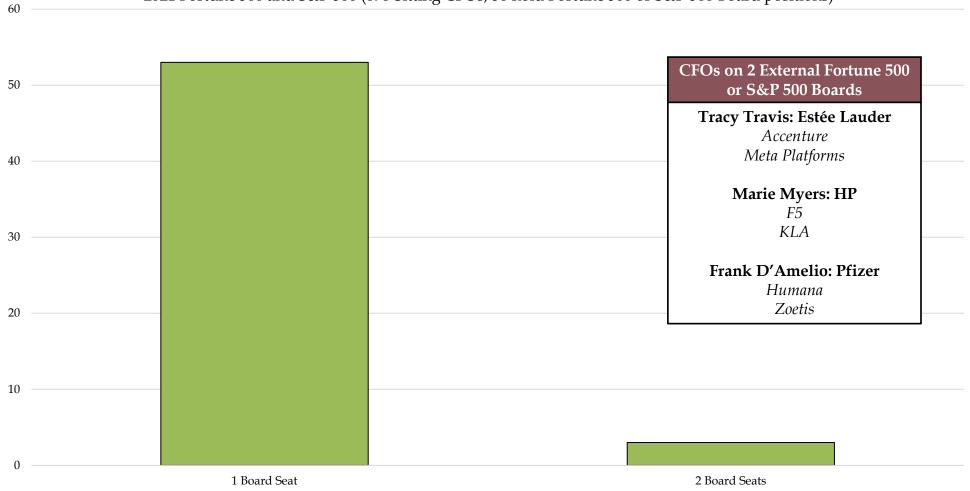
Sitting CFOs holding public Board seat(s) 2021 Fortune 500 and S&P 500 (678 Sitting CFOs, 140 hold Board positions)





Less than 9% of sitting CFOs hold an external Board seat on either a Fortune 500 or S&P 500 Company

Sitting CFOs holding external Board seat(s) in other Fortune 500 and S&P 500 Companies 2021 Fortune 500 and S&P 500 (678 Sitting CFOs, 56 hold Fortune 500 or S&P 500 Board positions)



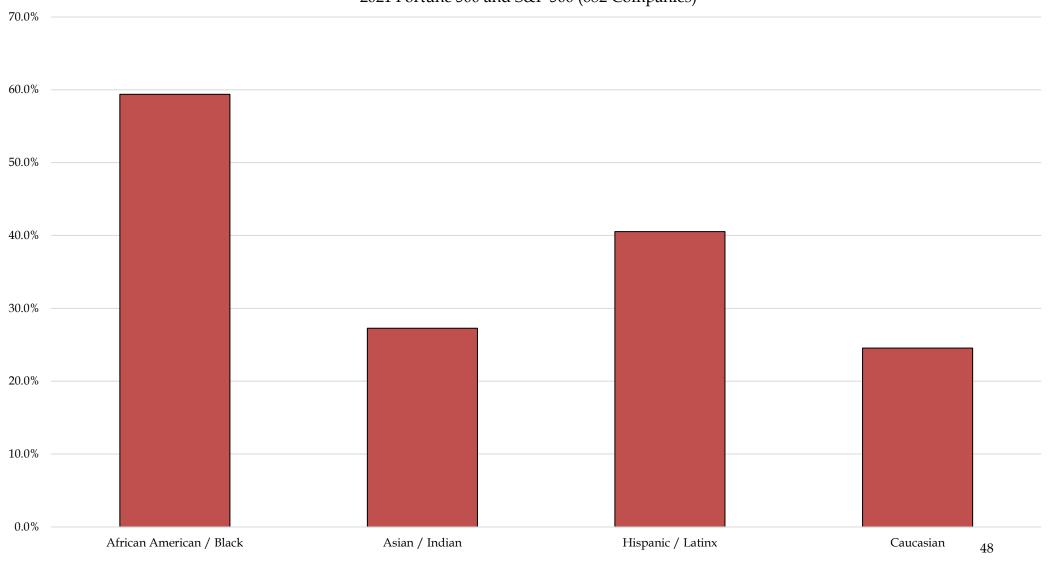
[•]Does not include seats held on current employer's Board

[•]Boards seats only counted if the company is in the Fortune 500 or S&P 500



Nearly two-thirds of the African American / Black Executives in the C-Suite (CEO, CFO, COO) serve on an external public Board

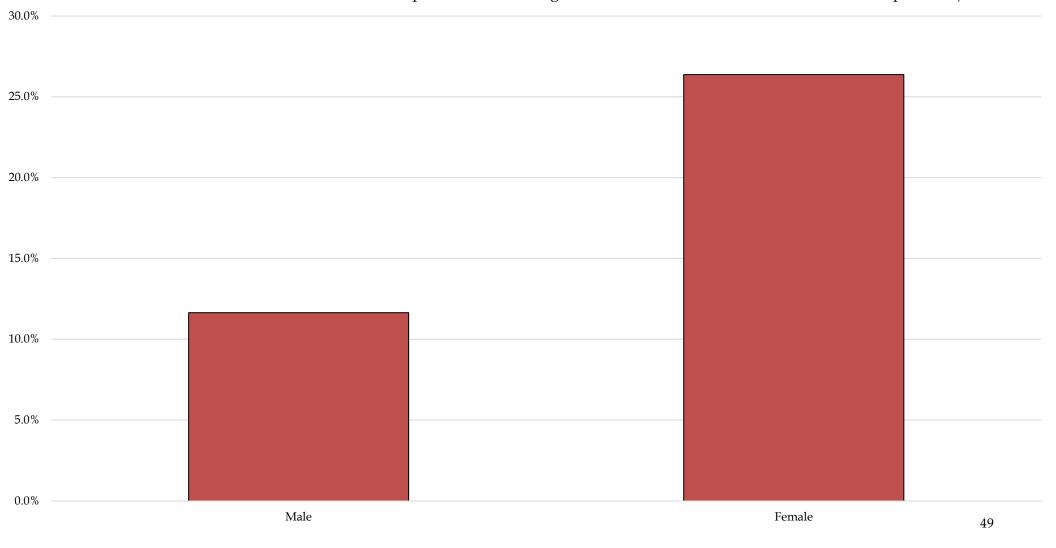
Percentage by race of C-Suite Executives on external public Boards 2021 Fortune 500 and S&P 500 (682 Companies)





Over 25% of Female C-Suite (CEO, CFO, COO) Executives have an external Board position in either a Fortune 500 or S&P 500 Company

Percentage by gender of C-Suite Executives on external Boards in Fortune 500 or S&P 500 Companies 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs, 146 hold Fortune 500 or S&P 500 Board positions; 678 Sitting CFOs, 56 hold Fortune 500 or S&P 500 Board positions; 254 Sittings COOs, 14 hold Fortune 500 or S&P 500 Board positions)



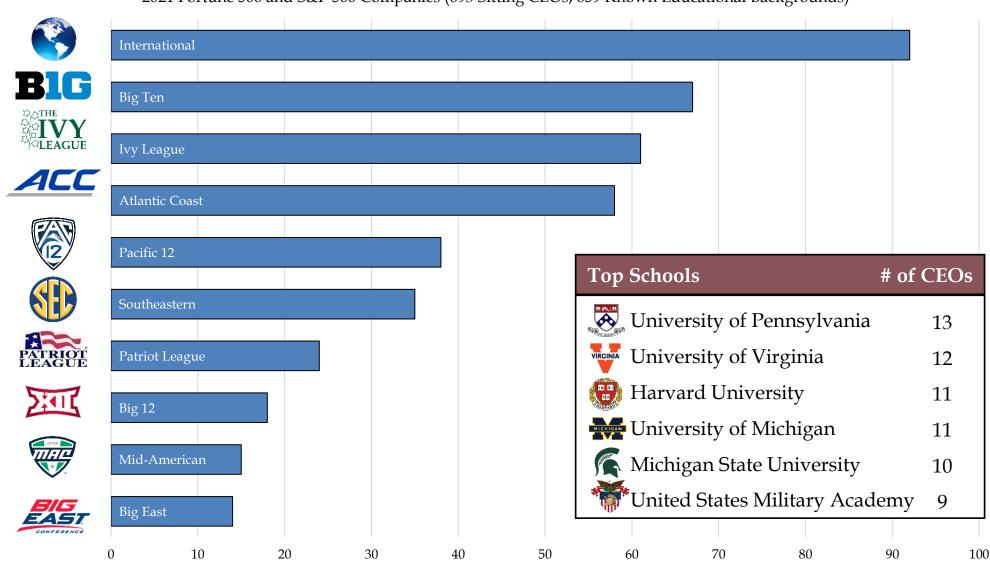


Educational Background



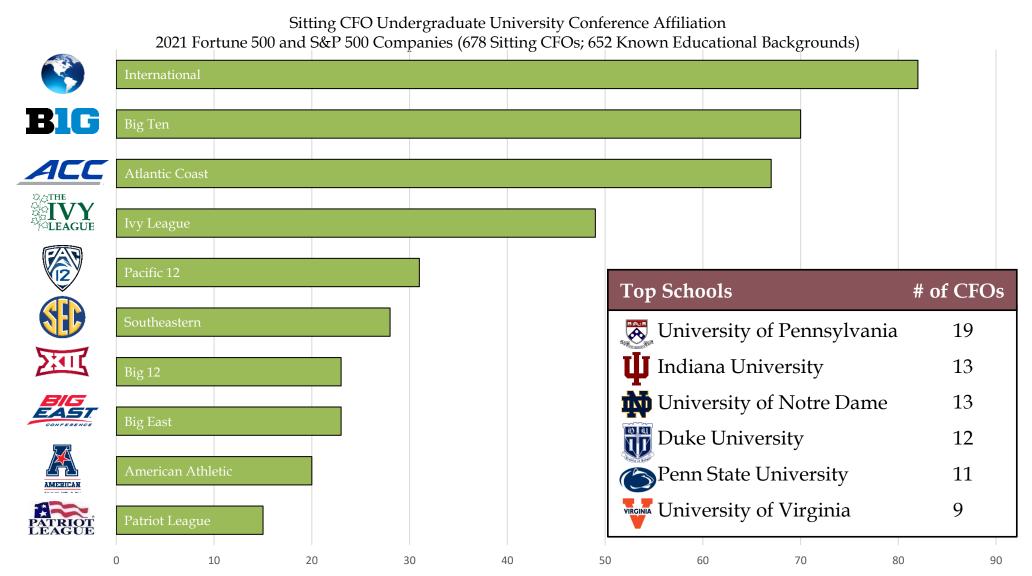
The Big Ten educates more CEOs than any other U.S. conference

Sitting CEO Undergraduate University Conference Affiliation 2021 Fortune 500 and S&P 500 Companies (693 Sitting CEOs; 659 Known Educational Backgrounds)





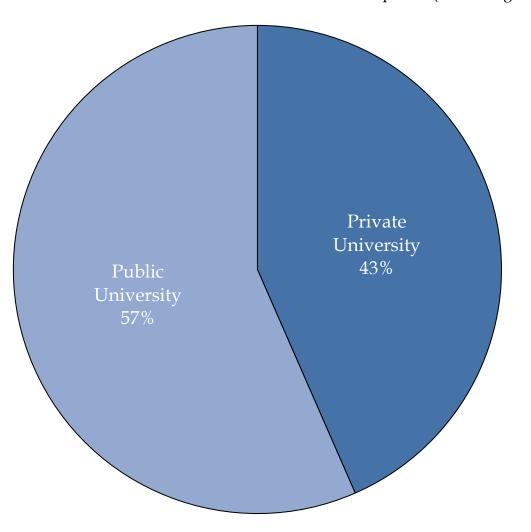
After leading for 9 years, the Big Ten was overtaken in CFO representation by International schools





Public universities currently produce the most sitting CEOs

Sitting CEO Undergraduate University 2021 Fortune 500 and S&P 500 Companies (693 Sitting CEOs; 656 Known Educational Backgrounds)



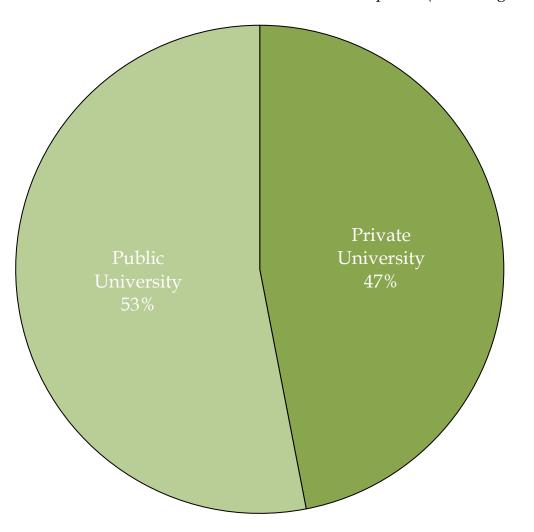
Top Public Schools # o	of CEOs
University of Virginia	12
University of Michigan	11
Michigan State University	10
Tunited States Military Academy	7 9
Georgia Institute of Technology	8
Texas A&M University	7

Top Private Schools	# of CEOs
University of Pennsylvania	13
Harvard University	11
Cornell University	9
§ Stanford University	8
G Georgetown University	8
Princeton University	7



Public universities also lead in producing sitting CFOs

Sitting CFO Undergraduate University 2021 Fortune 500 and S&P 500 Companies (678 Sitting CFOs; 652 Known Educational Backgrounds)



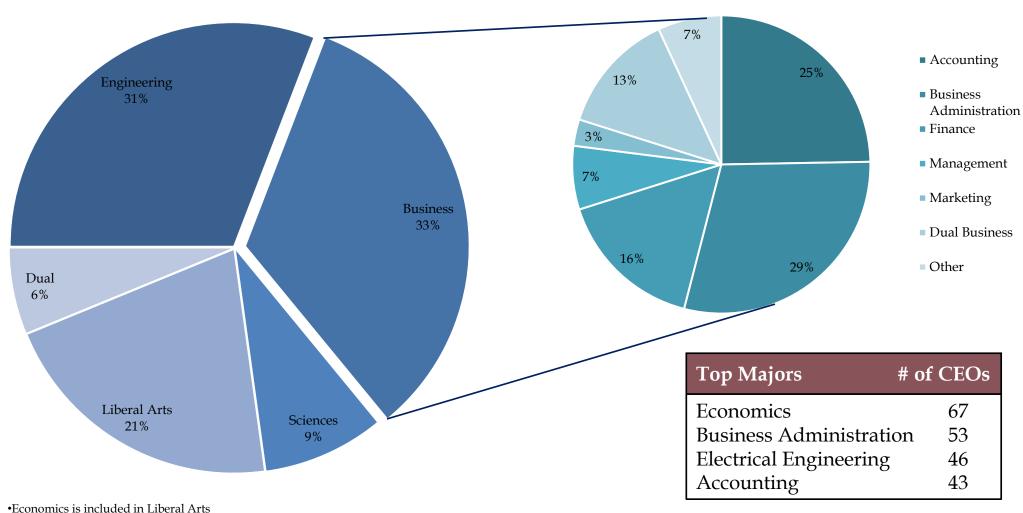
Top Public Schools	# of CFOs
Ш Indiana University	13
Penn State University	11
University of Virginia	9
University of Texas	8
University of Michigan	7
University of Wisconsin	7

of CFOs
19
13
12
8
7
7



Majority of CEOs hold an undergraduate degree in Business or Engineering

Percentage of CEOs from each Educational Background 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 659 Known Educational Backgrounds)



[•]Mathematics is included in Sciences

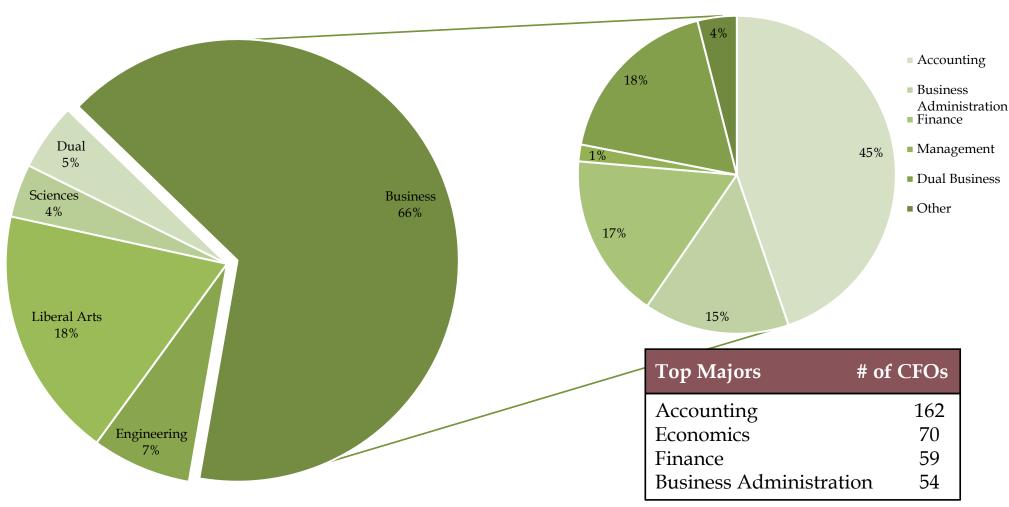
Other: International Business, Commerce, Pre-Professional Studies, Retail, Operations

[•]Dual Business: holds degree with more than one of the above listed business majors



Approximately two-thirds of CFOs have an undergraduate degree in Business

Percentage of CFOs from each Educational Background 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs; 652 Known Educational Backgrounds)



[•]Economics is included in Liberal Arts

[•]Mathematics is included in Sciences

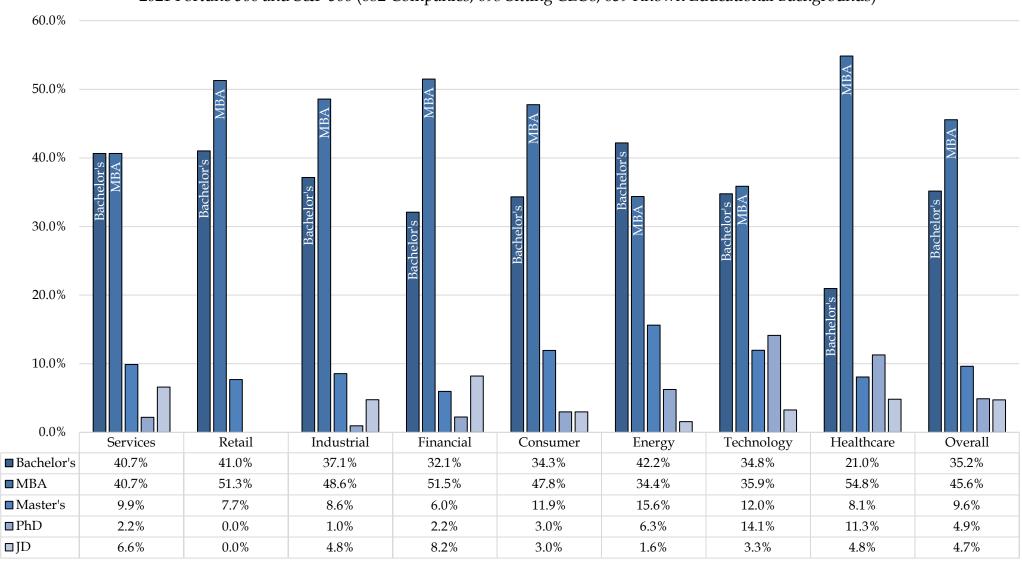
Other: International Business, Commerce, Pre-Professional Studies, Retail, Operations, Marketing

[•]Dual Business: holds degree with more than one of the above listed business majors



Almost 65% of CEOs hold an advanced degree

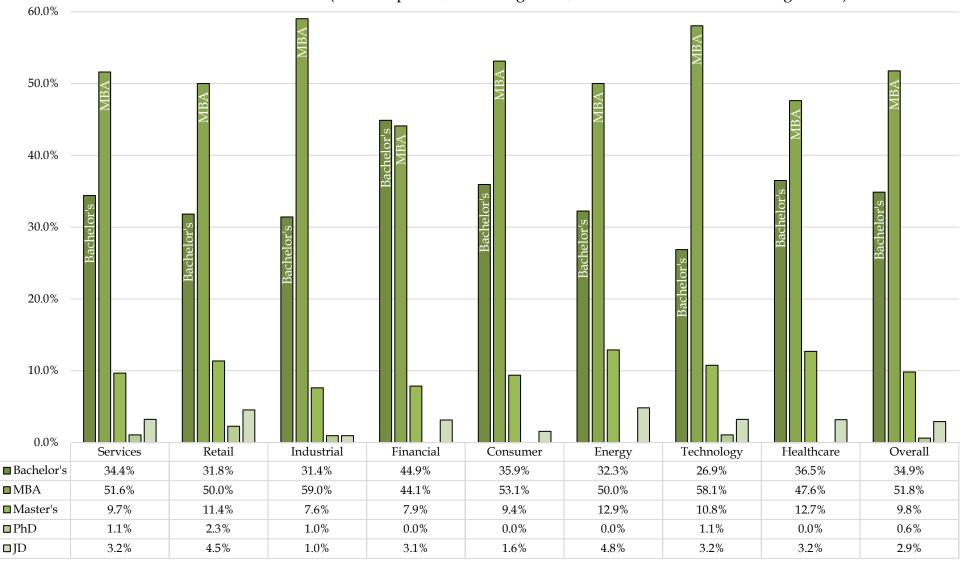
CEO **Terminal Degree** Educational Background 2021 Fortune 500 and S&P 500 (682 Companies; 693 Sitting CEOs; 659 Known Educational Backgrounds)





Over 50% of CFOs hold an MBA degree

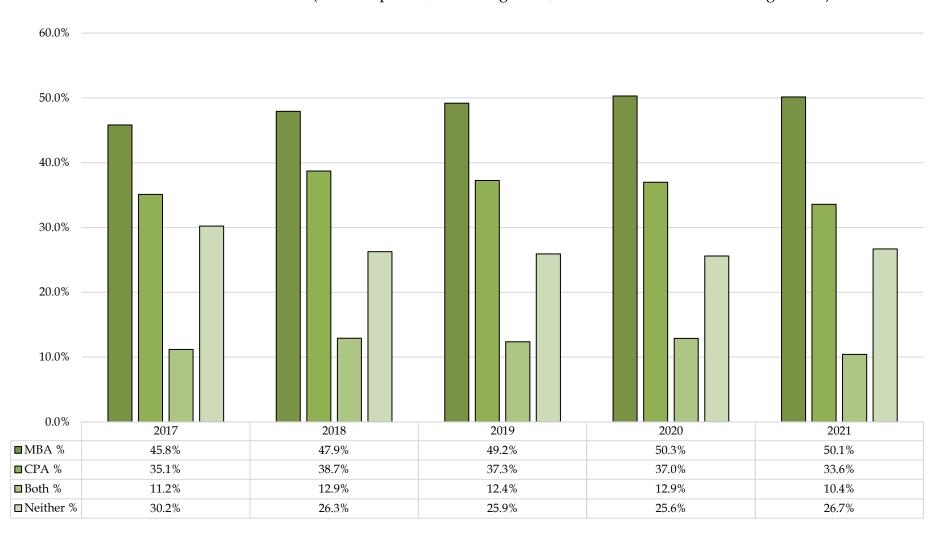
CFO **Terminal Degree** Educational Background 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs; 652 Known Educational Backgrounds)





Over the past 5 years, the continuation of the trend for CFOs to have MBAs over CPAs remains evident

Percent of CFOs with MBAs compared to CPAs (2017-2021) 2021 Fortune 500 and S&P 500 (682 Companies; 678 Sitting CFOs; 652 Known Educational Backgrounds)





The MBA program at Harvard continues to produce the most CEOs

Top MBA Schools 2021 Fortune 500 and S&P 500 (682 Companies; 659 CEOs and 652 CFOs Known Educational Backgrounds)

