

Team Cache Money









Mr. Mark

- Interpretation of Financial Statements
- Capital Allocation

Mr. Chris

- Company Overview
- Revenue Breakdown
- Competitor Analysis

Mr. Willy Wonka

- Management
- Economic Moat
- Growth Opportunities

Mr. Enrique

- Risk Factors
- Value Bands & Intraporfolio Analysis
- Valuation
- Conclusion





Company Overview



Chris Fischer

Company Overview

Company Overview



- Ticker: GOOGL Class A (Nasdaq)
 - GOOG Class C (Nasdaq)
- Headquarters: Mountain View California
- Stock Price: \$148.52
- Market Cap: \$1.84T
- Revenue: \$305.63Bn

Fun Facts

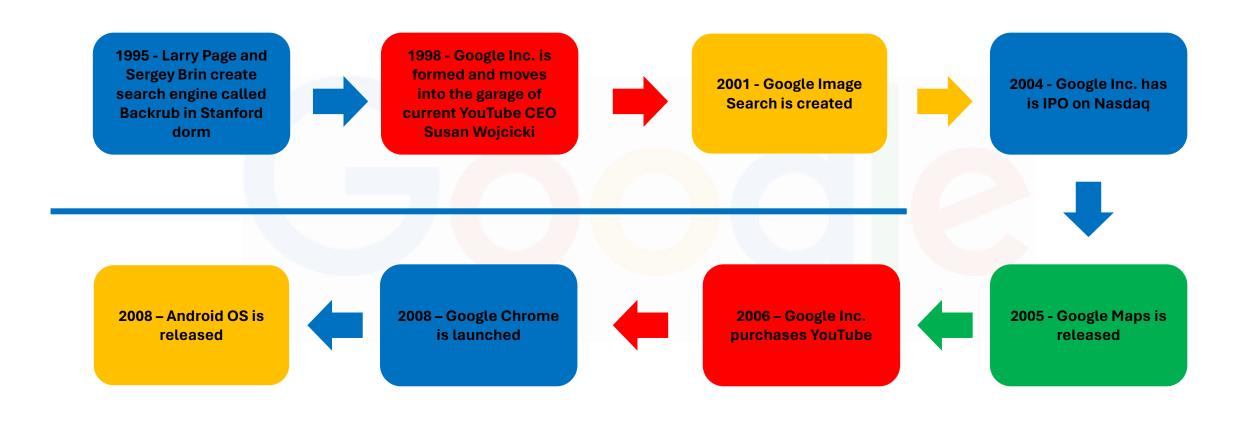
Company Overview



- On August 16, 2013, Google was not reachable for 5 minutes, in that time the global Internet usage decreased by 40%.
- The word 'Google' was added to the Oxford English Dictionary on June 15, 2006, as a verb.
- Google office dogs are called <u>Dooglers</u>. New workers are called <u>Nooglers</u>.
- Google bought YouTube for \$1.65Bn but has consistently produced over \$10Bn in revenue each year for the past 10 years producing \$31.5Bn in 2023.

Company History

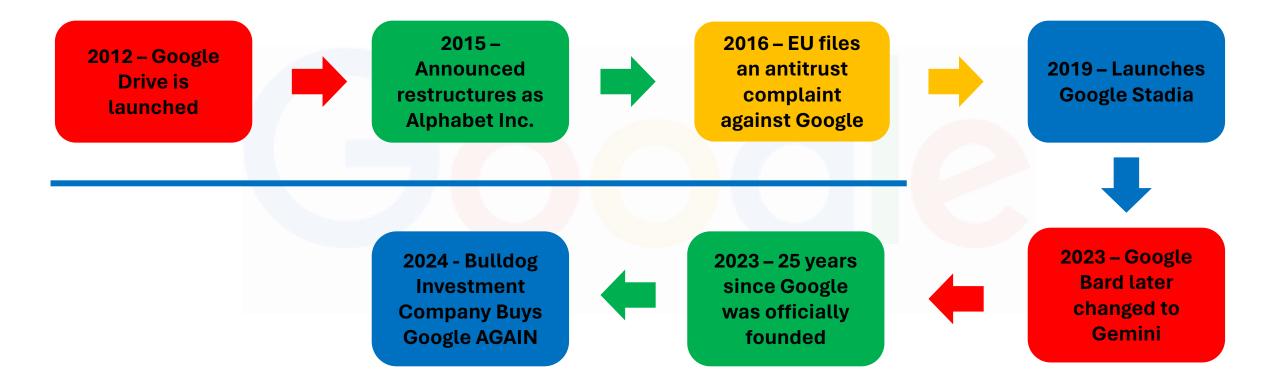
Company Overview



Company History Cont'd

Company Overview

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52 Week Performance

Company Overview



October 2023: Shares fell due to the company reporting slower than expected growth for google cloud.

March 6th, 2024: Shares fall due to criticism of Gemini chat bot. Redesigning image generation in response. Staggering rise since then.





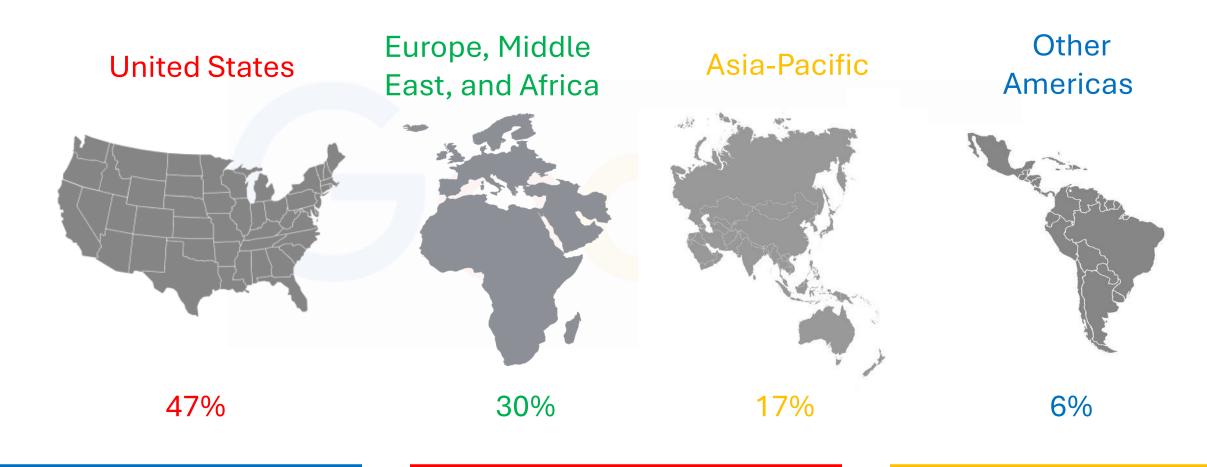
Revenue Breakdown



Chris Fischer

Revenue by Geography

Revenue Breakdown



Revenue Segments

Revenue Breakdown



Google Cloud

10.8%



Advertising

77.8%

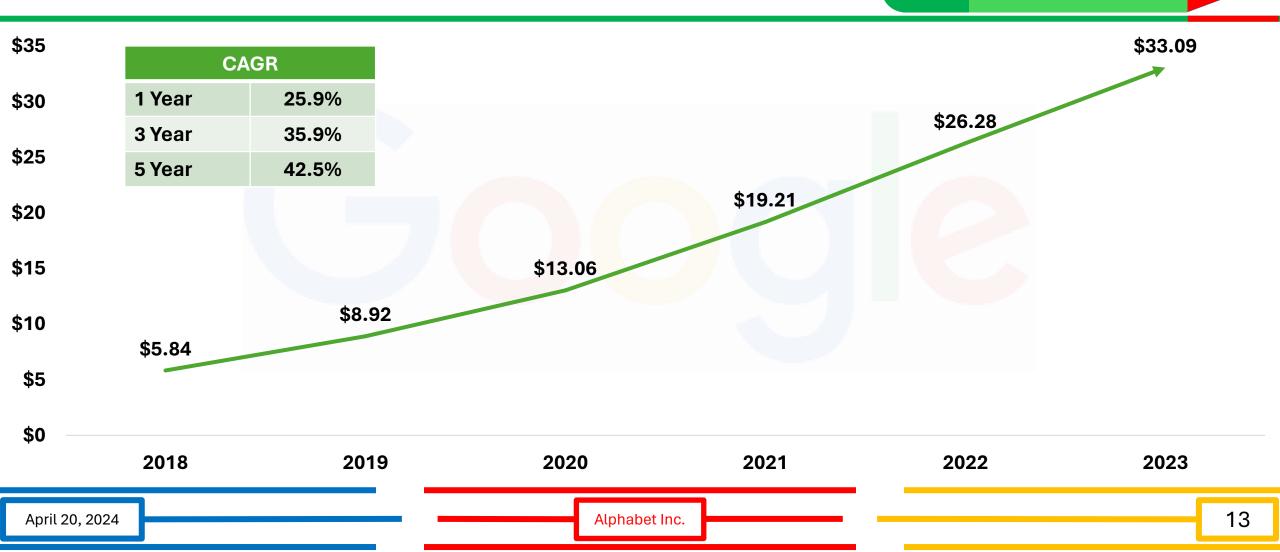


Subscriptions, Platforms, and Devices

11.3%

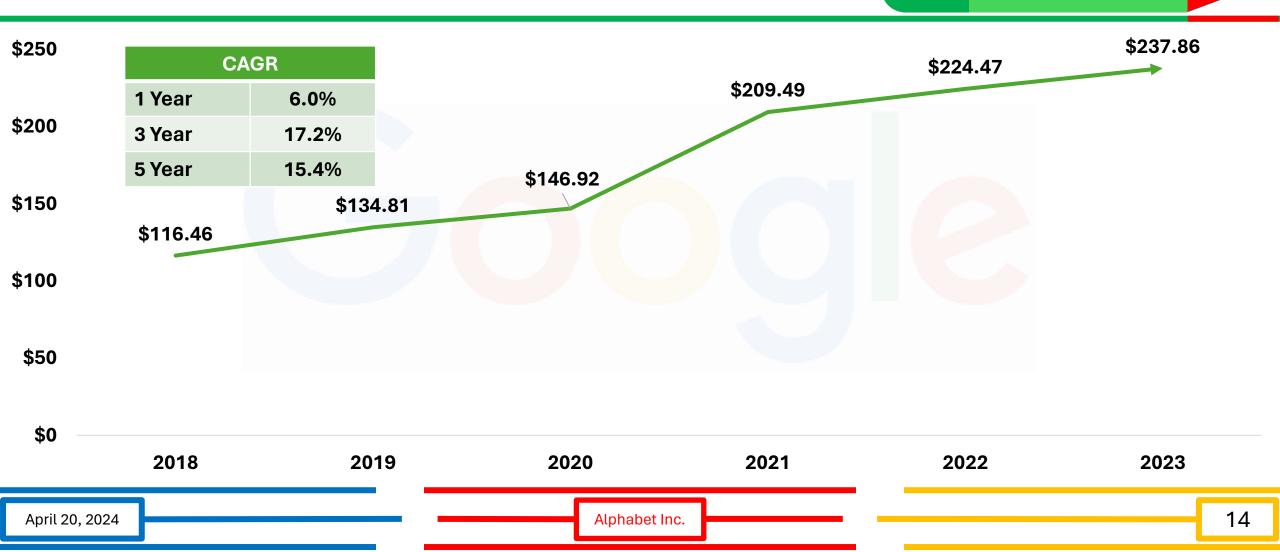






Advertising Revenue In Billions





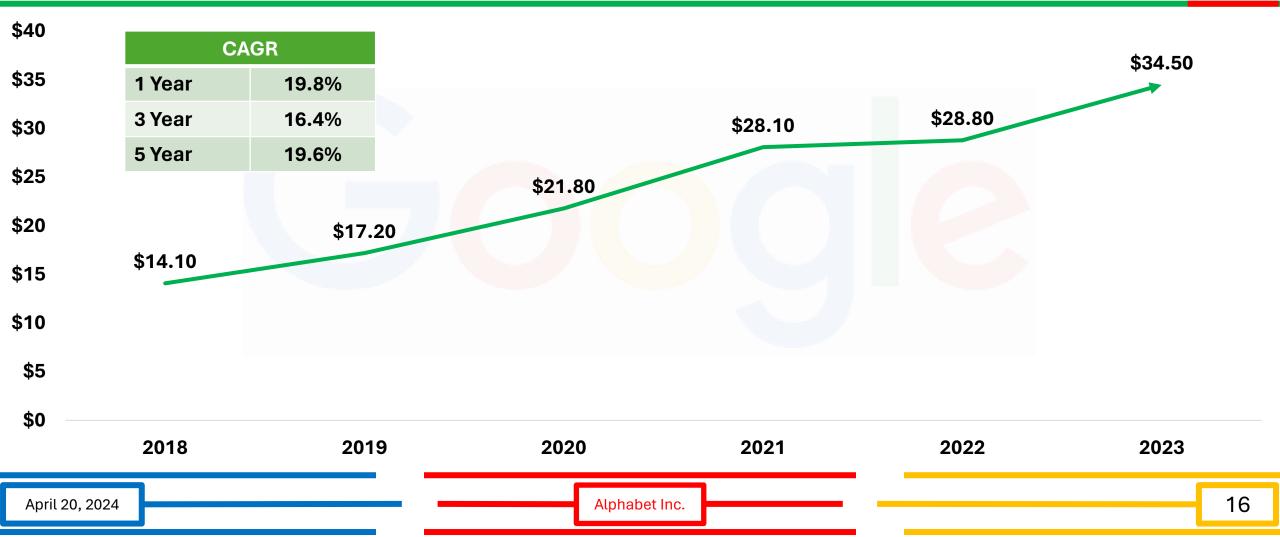
YouTube Revenue In Billions





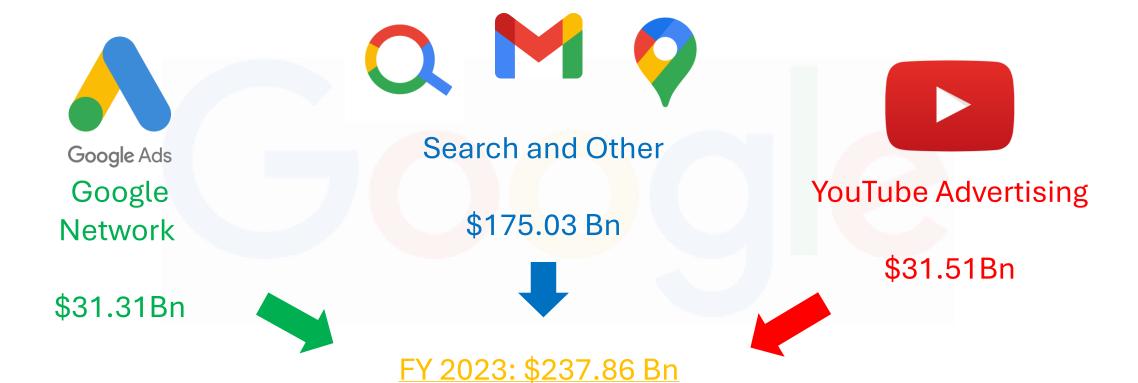
Subscriptions, Platforms, and Devices Revenue In Billions

Revenue Breakdown



Advertising Revenue

Revenue Breakdown

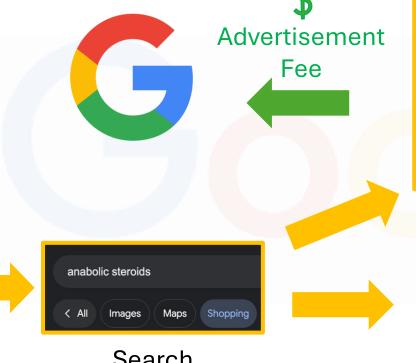


Performance Ad Business Model

Revenue Breakdown



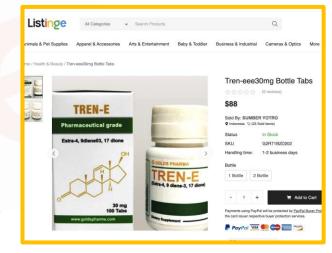
Consumer



Search Engine



Google Ads
Sponsored
Advertisement



Advertiser Website

Alphabet Inc.

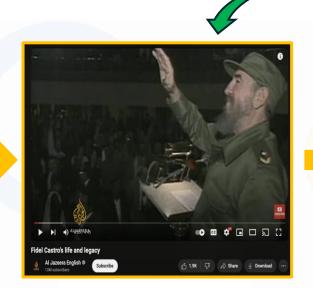
Brand Advertisement Business Model

Revenue Breakdown

Advertisement Fee



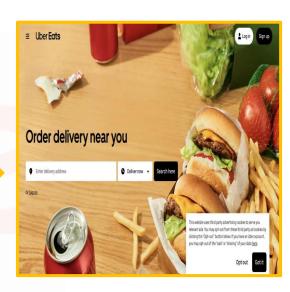




YouTube



Sponsored Advertisement



Advertiser Website

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App and Subscription Business Models





Claims 15% of every sale made.



\$11.99/month subscription
You Tube and You Tube ad-free,
offline and in the background.



\$9.99/month subscription
40 million songs in 64
countries.



Must have google account & OS contains preloaded permanent google apps.



\$339-\$749



\$29-\$239

YouTube Premium

Revenue Breakdown





Ad-free & background play

Watch videos uninterrupted by ads, while using other apps or when the screen is locked.



Downloads

Save videos for when you really need them
- like when you're on a plane or
commuting.



YouTube Music Premium

Download our new music app and lister without interruptions.

- Premium membership that allows users to watch videos without ads, the ability to play videos in the background while accessing other apps, and offline downloads.
- This acts as an incentive to watch more YouTube creating an additional revenue stream from 100 million monthly active subscribers.

Cloud and Other Segments Revenue

Revenue Breakdown







Cloud and G Suite Taskforce

\$26.68 Bn









Subscriptions, platforms, and Devices \$29.06 Bn





FY 2023: \$55.74 Bn

Cloud Business Model

Revenue Breakdown





- Google Cloud generates revenues <u>primarily from</u>
 <u>consumption-based fees and subscriptions.</u>
- Google Workspace works with Duet AI to provide <u>easy-to-use</u>, secure communication and collaboration tools, including apps like Gmail, Docs, Drive, Calendar, Meet, and more. These tools enable secure hybrid and remote work, boosting productivity and collaboration.

Other Bets Revenues

Revenue Breakdown





Other Bets
Revenue
increased nearly
50% in 2023.

FY 2023: \$1.52 Bn

Other Bets Businesses

Revenue Breakdown



Offers high speed internet, TV, and phone service. It's billed as an alternative to traditional cable companies.



Invested millions to develop drugs to fight agerelated diseases like cancer and Alzheimer's.



GV is alphabet's earlystage venture arm. Has more than \$4.5 Bn under management.



DeepMind has focused on adding AI throughout Google products, including search.





Alphabet's self driving car project.



Focuses on healthcare and disease prevention research.



X is a secretive R&D lab, nicknamed Alphabet's moonshot factory.





Interpretation of Financial Statements

Mark Dziadul

Revenue In Millions

Interpretation of Financial Statements



Gross Profit In Millions

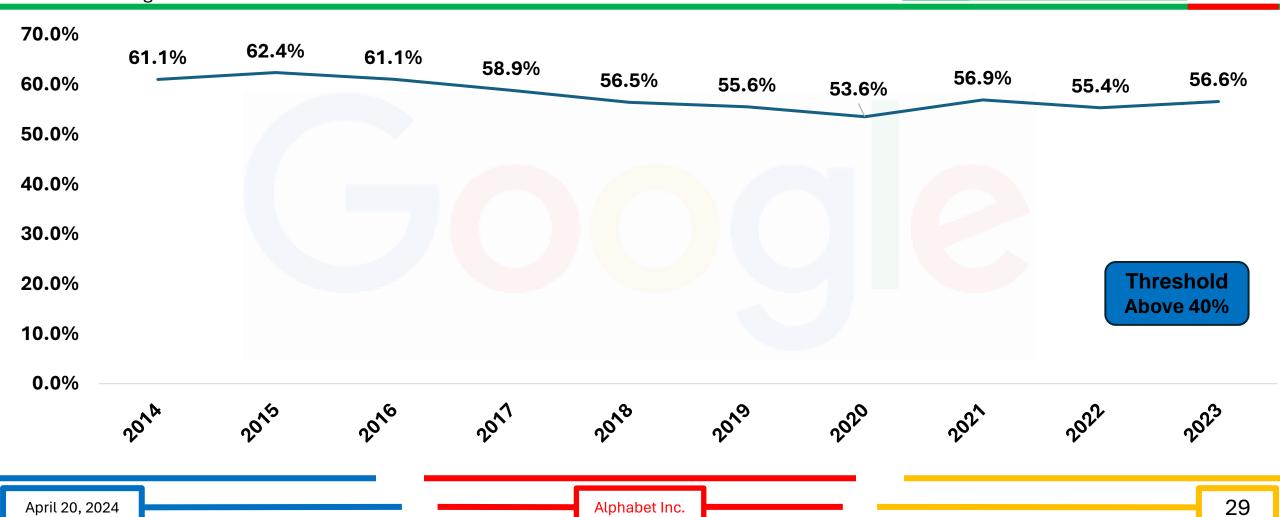
Interpretation of Financial Statements



Gross Margin

Gross Margin = Gross Profit / Revenue

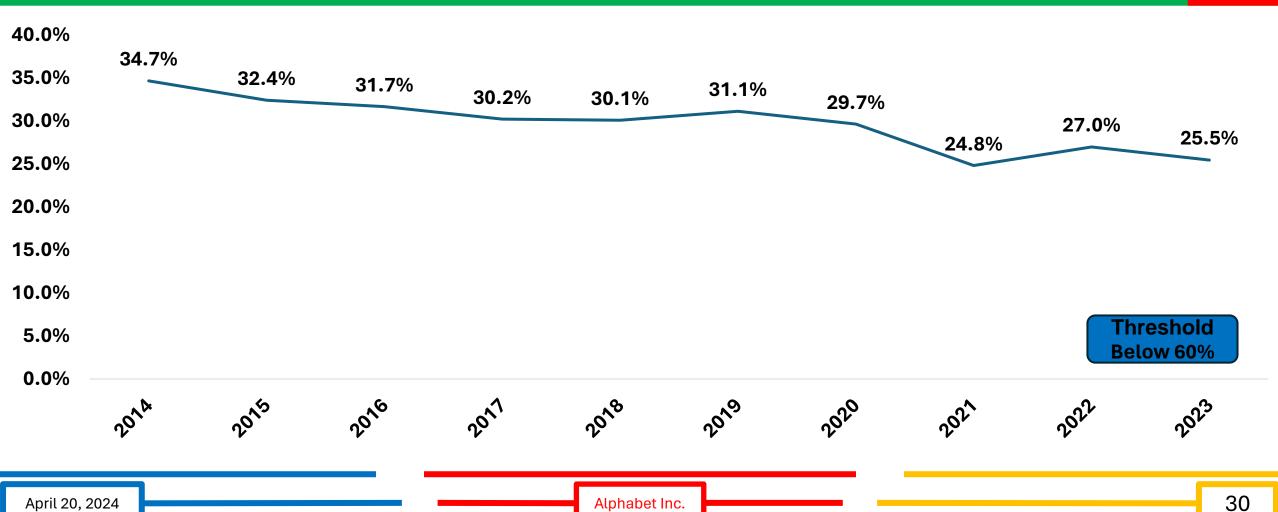




SG&A to Gross Profit

Interpretation of Financial Statements

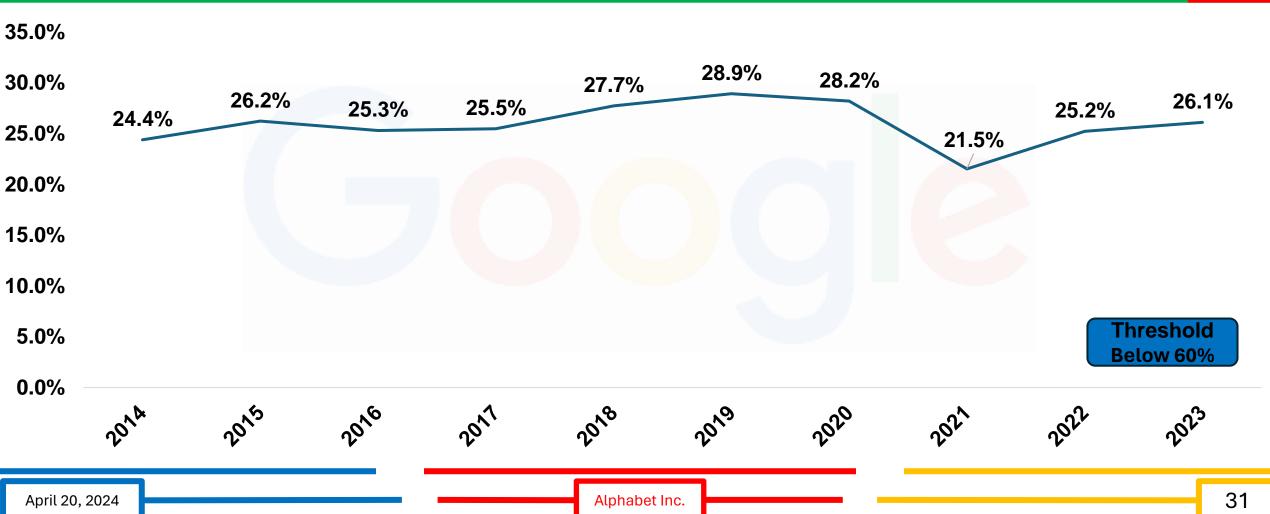
Sales General & Administrative Expenses



R&D to Gross Profit

Interpretation of Financial Statements





D&A to Gross Profit

Interpretation of Financial Statements



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Operating Income In Millions

Operating Income = Gross Profit – Total Operating Expenses

Interpretation of Financial Statements



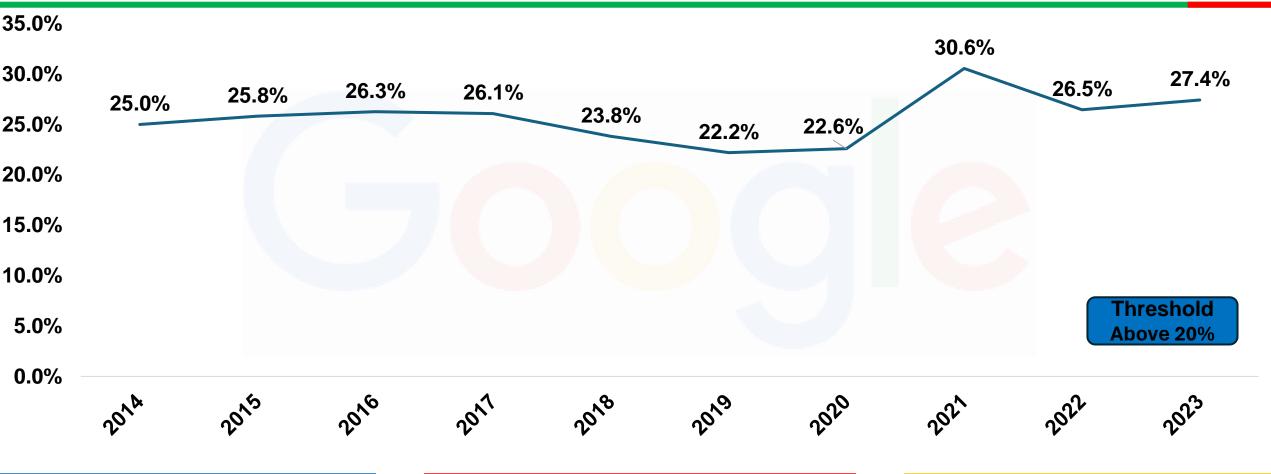
Operating Margin

Operating Margin = Operating Income / Revenue

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Interpretation of Financial Statements

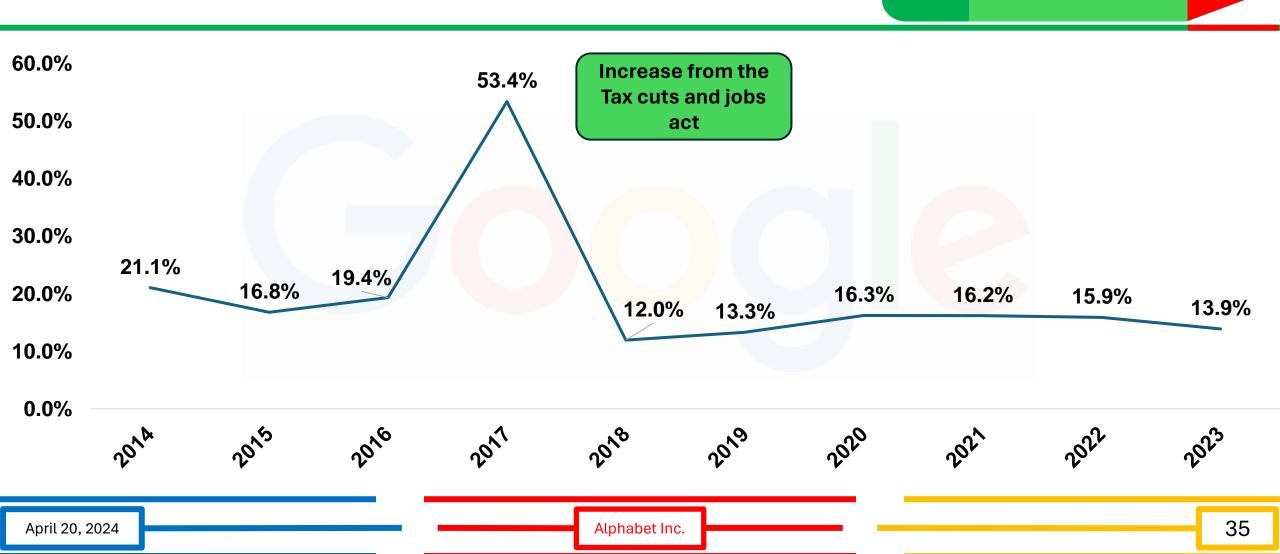
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Interpretation of Financial Statements



Net Income In Millions

Interpretation of Financial Statements





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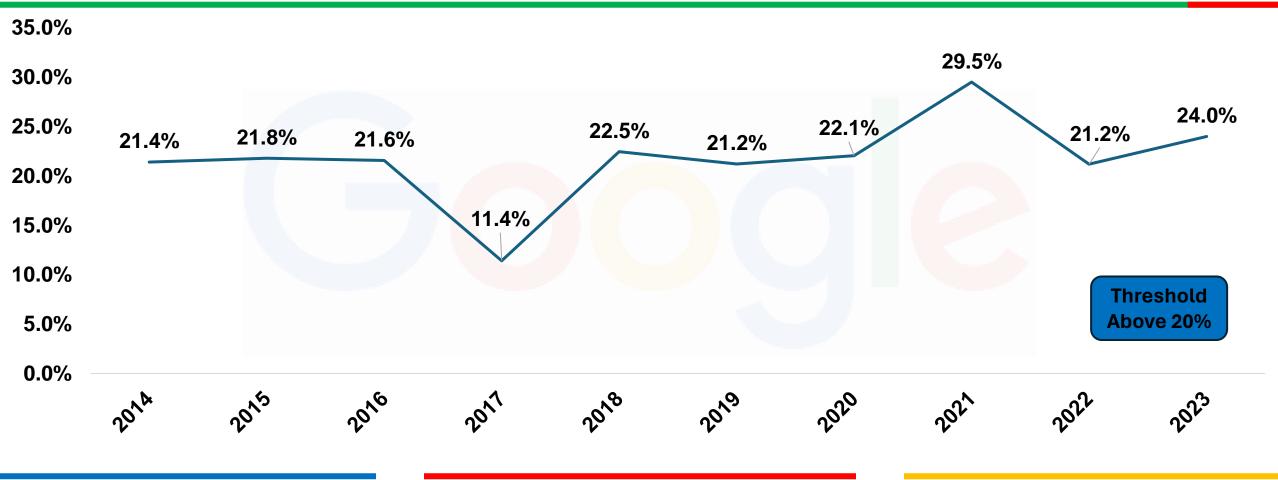
Net Margin

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Net Margin = Net income / Revenue

Interpretation of Financial Statements

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Earnings Per Share

Earnings Per Share = Net Income / Shares Outstanding

Interpretation of Financial Statements



Return On Equity

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Return On Equity = Net Income / Share Holders Equity

Interpretation of Financial Statements

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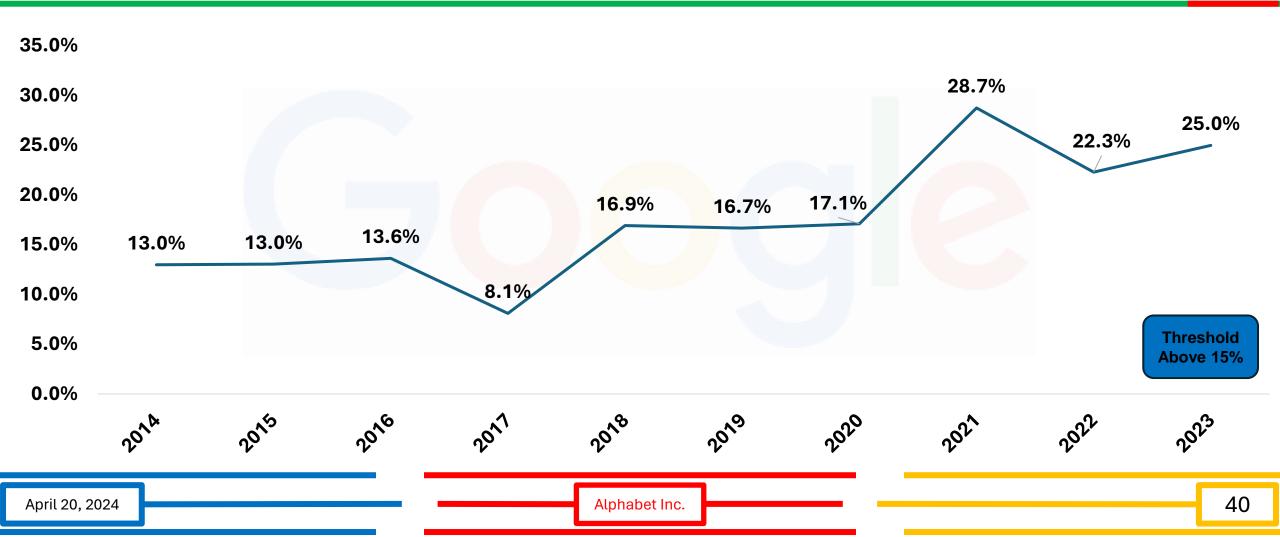


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Return On Capital

Return On Capital = Net Income / Shareholder's Equity + Debt

Interpretation of Financial Statements



Obligation Ratio In Millions

Interpretation of Financial Statements

Obligation Ratio Calculations	
Short & Long Term Debt (+)	\$11,870
Preferred Stock (+)	\$0
Pension Shortfall (+)	\$0
Leases*7 (+)	\$19,537
Cash (-)	\$24,048
Divide by Net Income	\$73795
Time to Pay Obligations =	0.1 Years < 5

If we use Cash and Cash Equivalents of \$110.9 Bn then Google has a Net Cash position

Debt Maturity Schedule In Millions

Interpretation of Financial Statements

Year	Total
2024	\$1,299
2025	1,163
2026	2,165
2027	1,143
2028	132
> 5 years	14,862

Google's debt is spread out evenly





Capital Allocation





Mark Dziadul

Free Cash Flow In Millions

Capital Allocation

Free Cash Flow = Operating Cash Flow – Capital Expenditures



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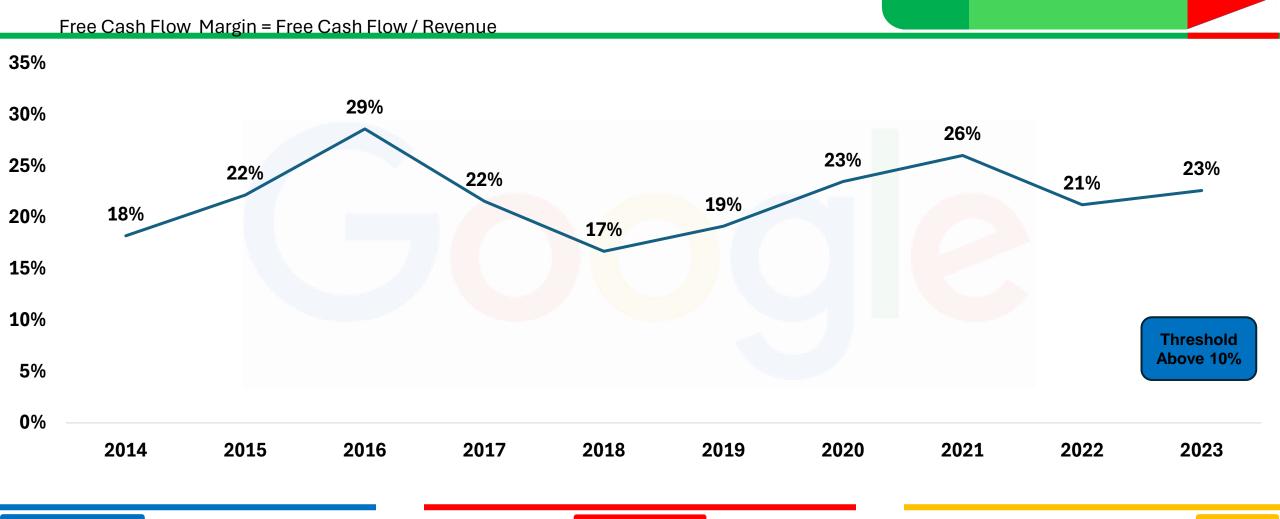
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Capital Allocation

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What can you do with FCF?

Capital Allocation

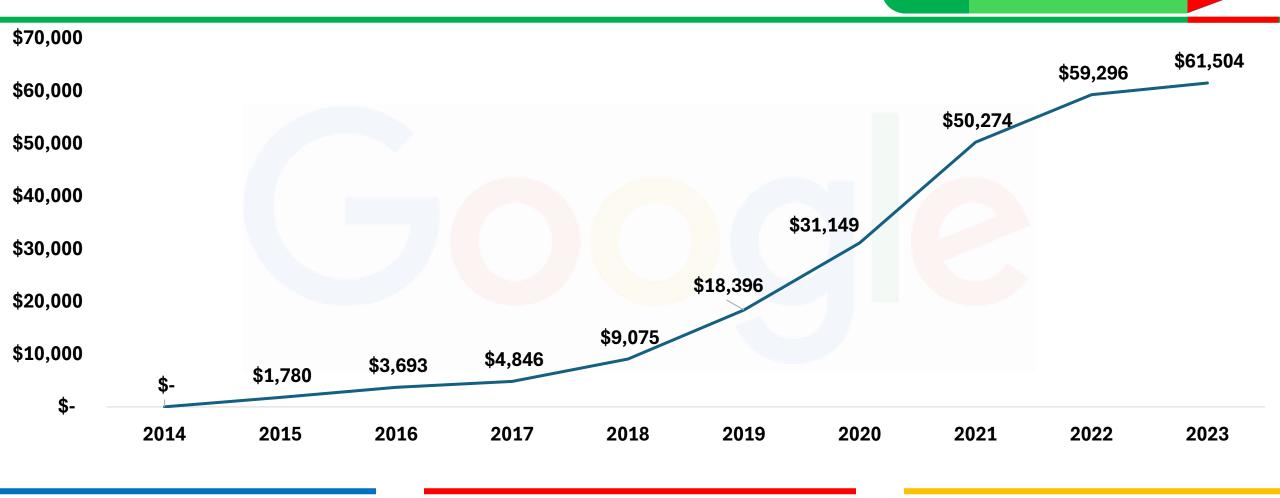
- Pay off Debt
- Buyback Shares
- Reinvest in the Business
- Buy other businesses
- Pay Dividends



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Capital Allocation

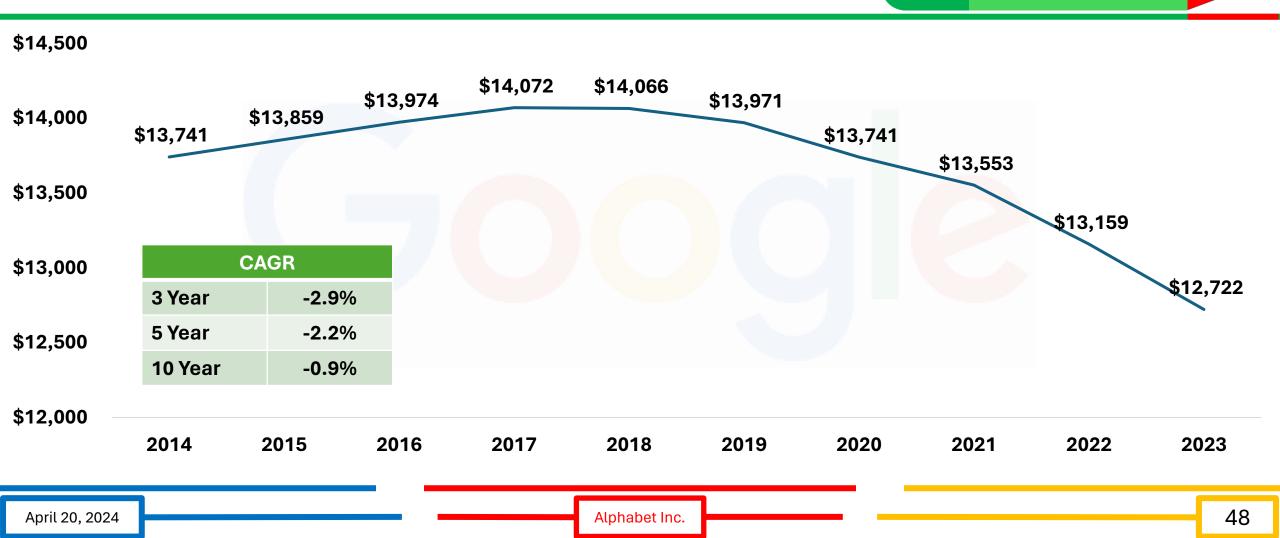
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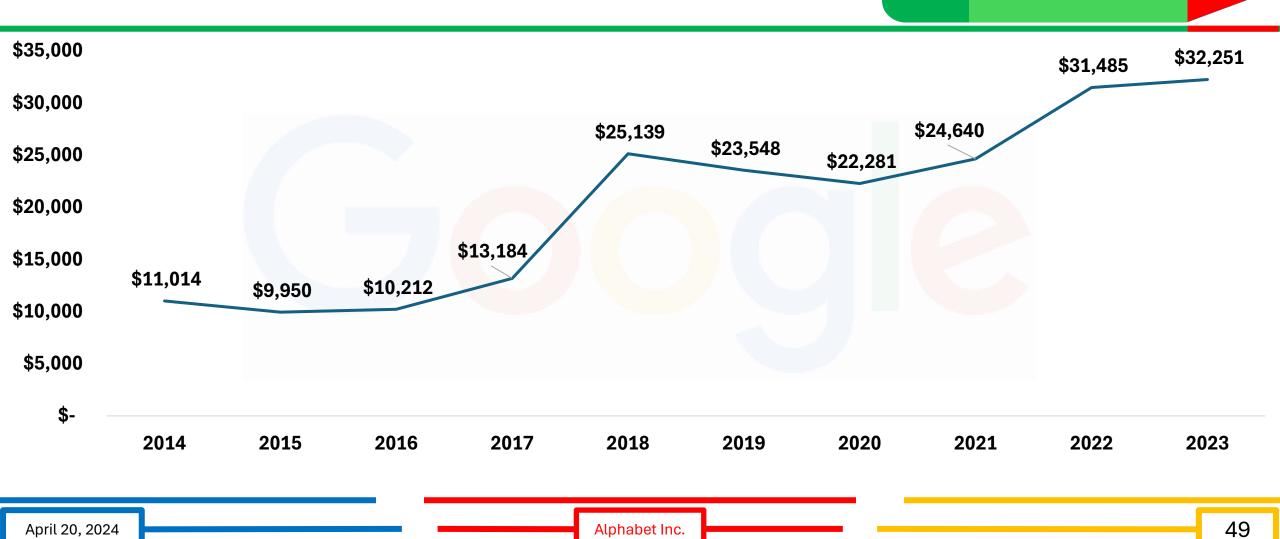
Shares Outstanding In Millions

Capital Allocation



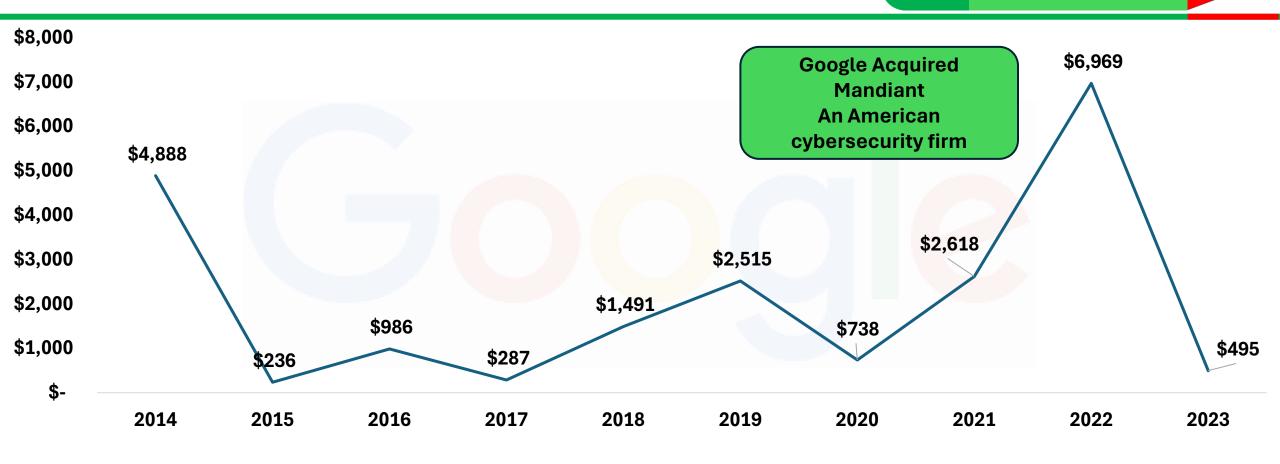








Capital Allocation



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Dividends in Millions

Capital Allocation

Google does not pay Dividends





Management





William Errett

Officers

Management



Sundar Pichai

- Chief Executive Officer
- CEO since 2019
- Joined Google in 2004
- Revenue and Net Income have Doubled



Prabhakar Raghavan

- Senior Vice President
- Responsible for Search, Assistant, Ads, Commerce, and Payments
- Joined Google in 2012



Philipp Schindler

- Chief Business Officer
- Responsible for sales activities for Google and YouTube
- Joined Google in 2005

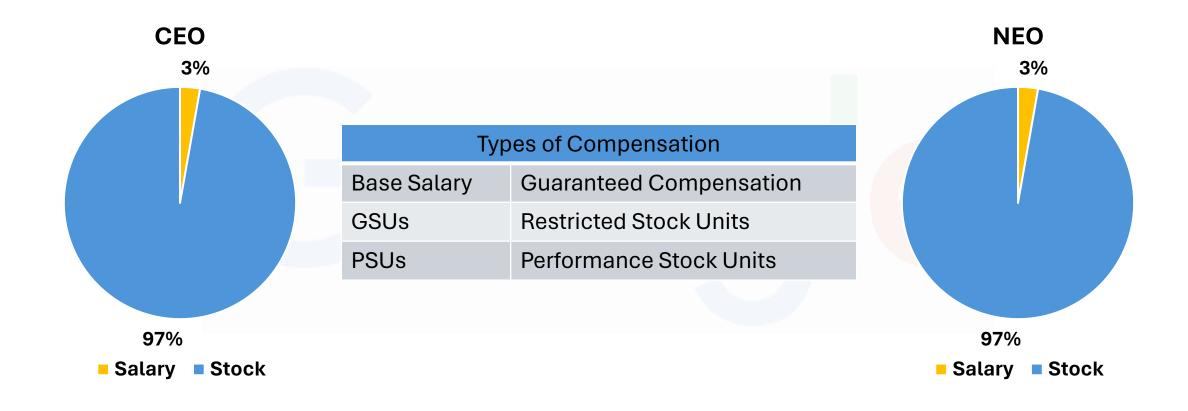


Kent Walker

- Chief Legal Officer
- Oversees engagement with governments and content policies
- Joined Google in 2006

Compensation Structure

Management



Exec. Stock Compensation

Management

Approximately 60% of Stock Compensation is PSUs

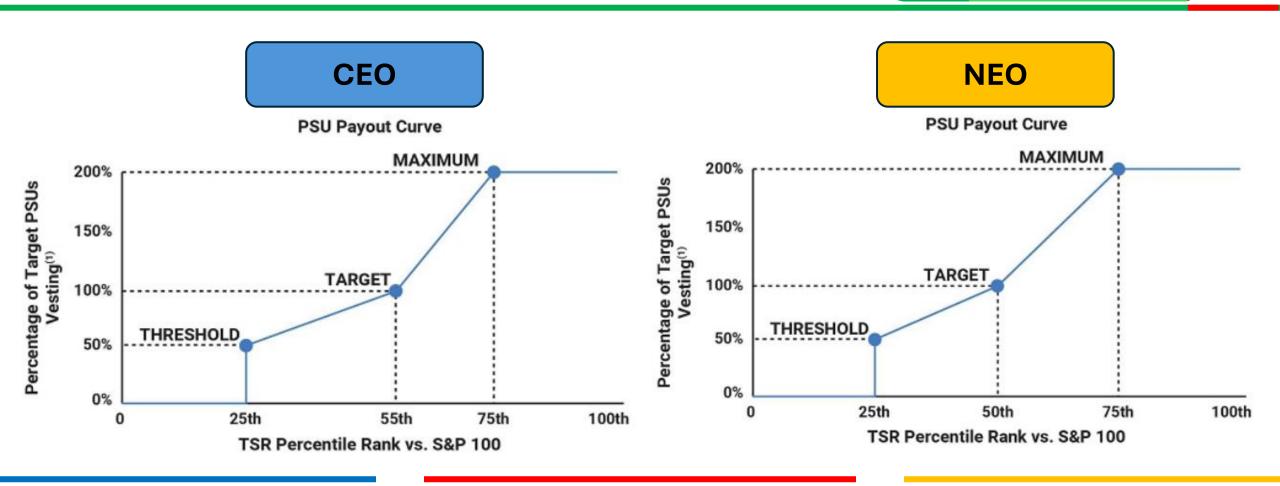
PSU Maturity: At the end of each fiscal year

GSU Maturity: Quarterly over 3 years



Exec. Stock Compensation

Management



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Economic Moat



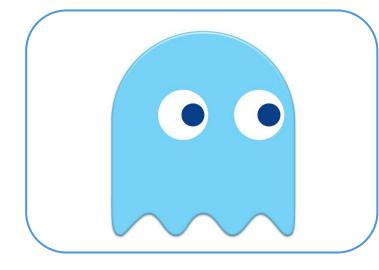




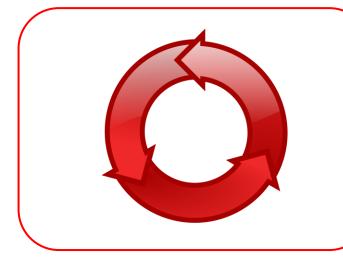
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Economic Moat

Economic Moat



Intangible Assets



Network Effect



Switching Costs

Intangible Assets

Economic Moat



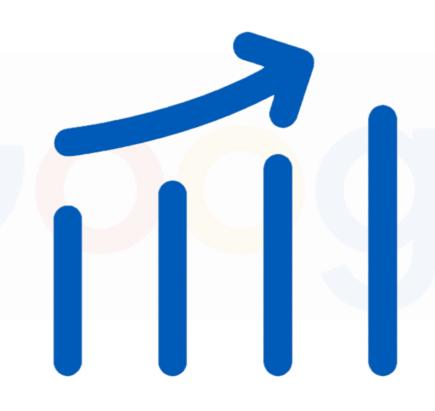
Most Trusted Search
Provider



Intangible Assets

Economic Moat

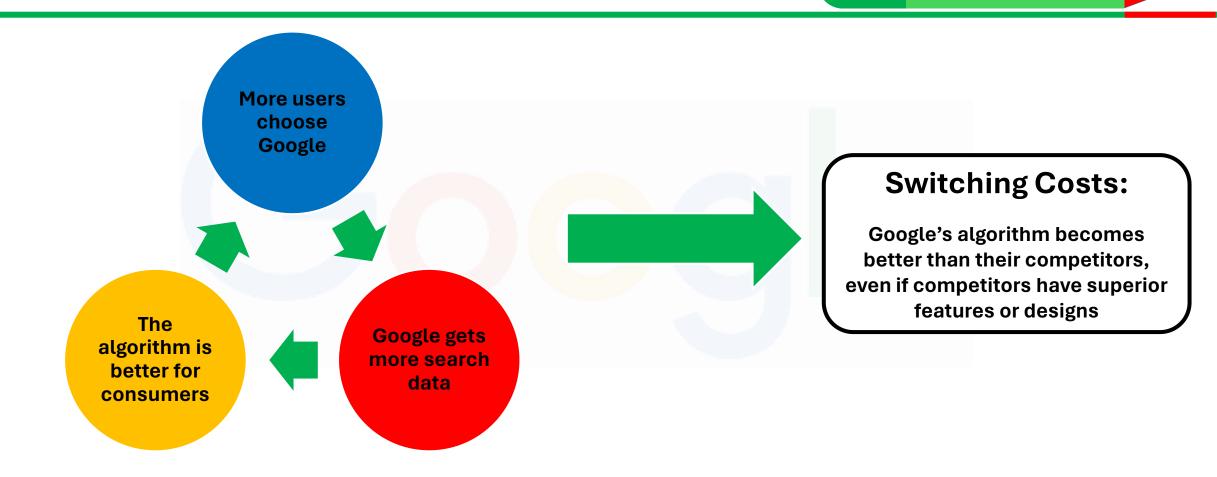
 When google collects data they get to keep it for improving the effectiveness of future products



 Google develops a superior customer profile the longer that you use their products

Network Effect + Switching Costs

Economic Moat

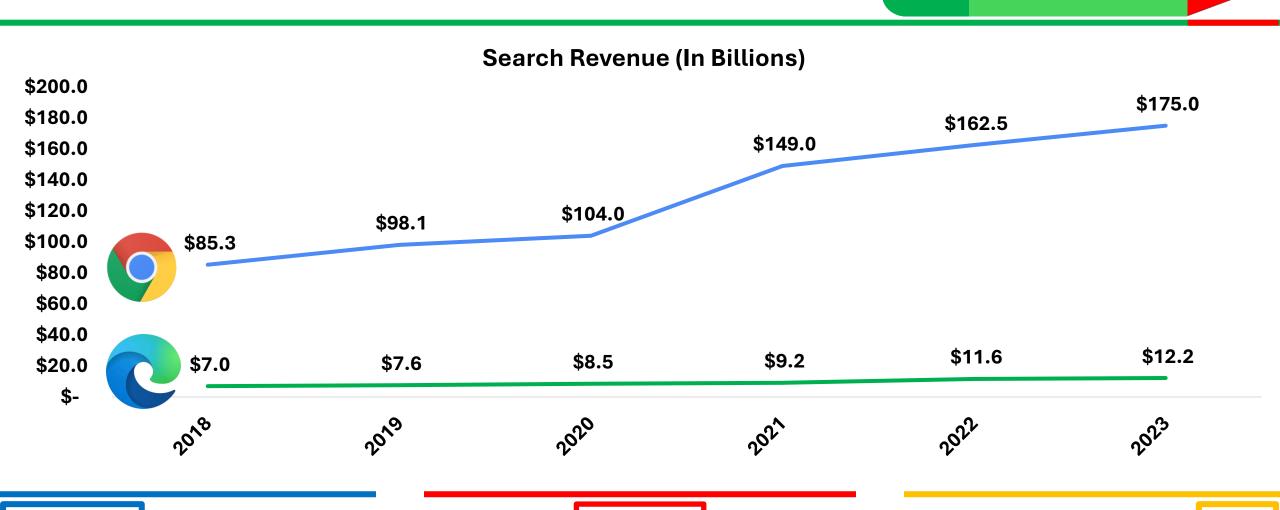


Network Effect

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Economic Moat

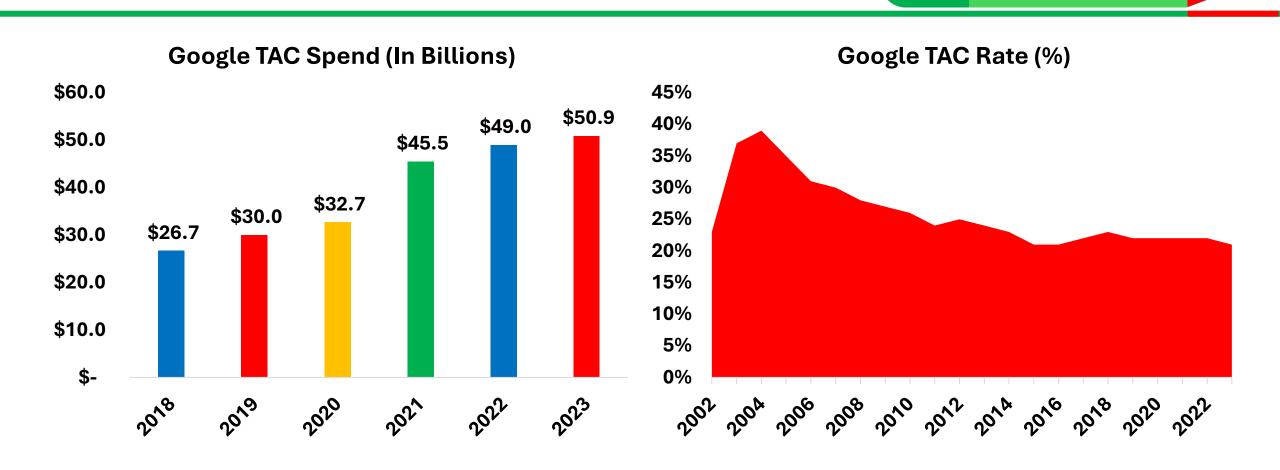
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Network Effect

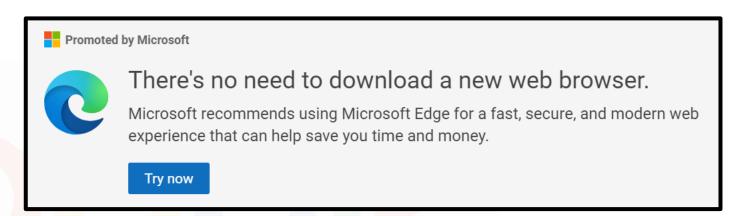
Economic Moat



Switching Costs

Economic Moat

 When consumers refuse to switch even when competitors offer a cheaper or more valuable product



Microsoft Edge is the Al-powered browser.

A smarter way to browse





Competitor Analysis



Chris Fischer

Competitors

Competitor **Analysis**



Smartphones, Search Engine, and Cloud services.



Entertainment, Streaming Services, and Advertising.



Cloud Computing, Search Engine, and Cloud Services.



Digital Advertising Duopoly, Facebook, and Instagram.

Search Dominance

Competitor Analysis

Google TAC Spend (In Billions)



- In February 2024, Google accounted for <u>95%</u> of the global mobile search market worldwide.
- In 2023, Google's search generated over \$175 billion dollars. Whereas Microsoft's Bing generated \$12.2 billion dollars. Thus, as of 2023, Google's search advertising is over 14x larger than second place, Microsoft Edge.

YouTube

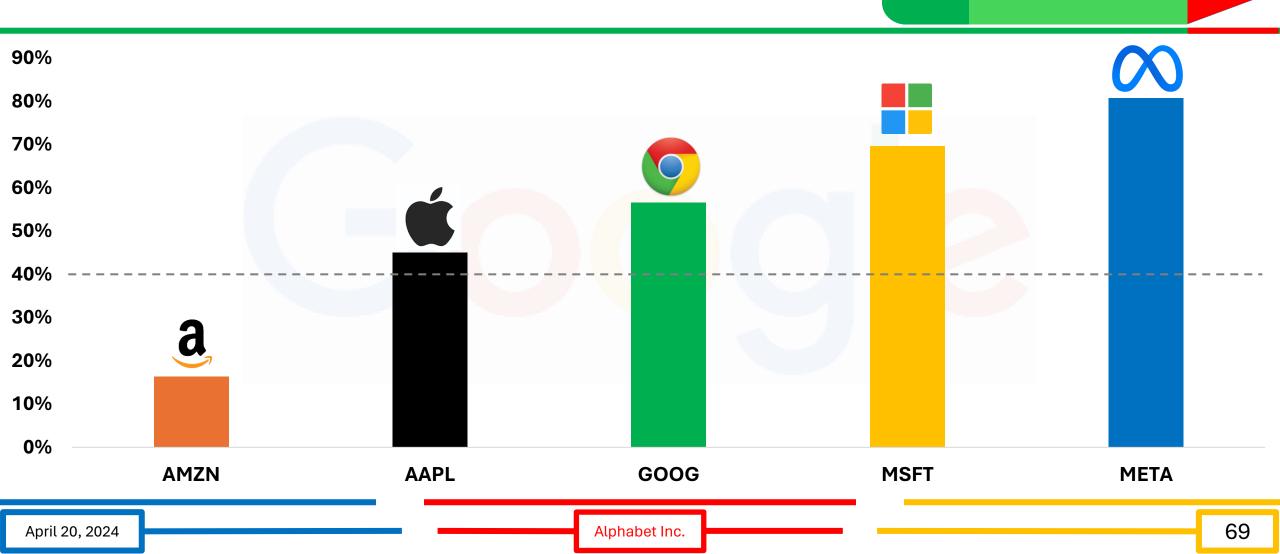
Competitor Analysis



- According to Google, YouTube Shorts were
 watched by more monthly logged-in users
 than videos on TikTok and Instagram Reels. Its
 viewership has increased by around 500
 million users since 2022.
- Mobile traffic made up around <u>88%</u> of 2023 traffic.
- YouTube had <u>1.3 trillion</u> visits in 2023, with direct traffic serving as the top source.

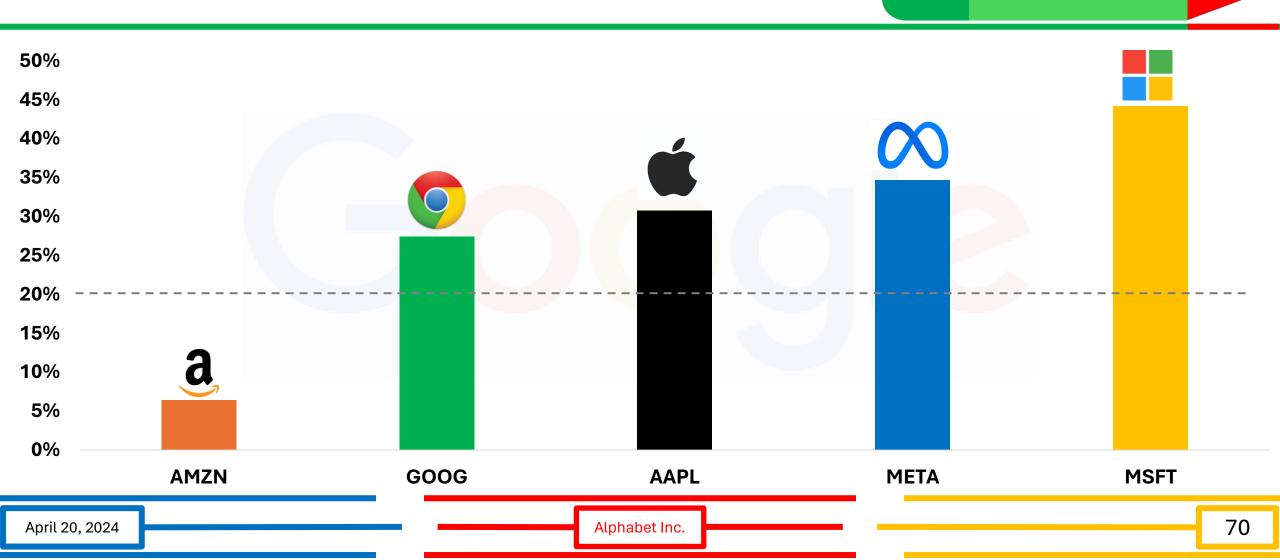






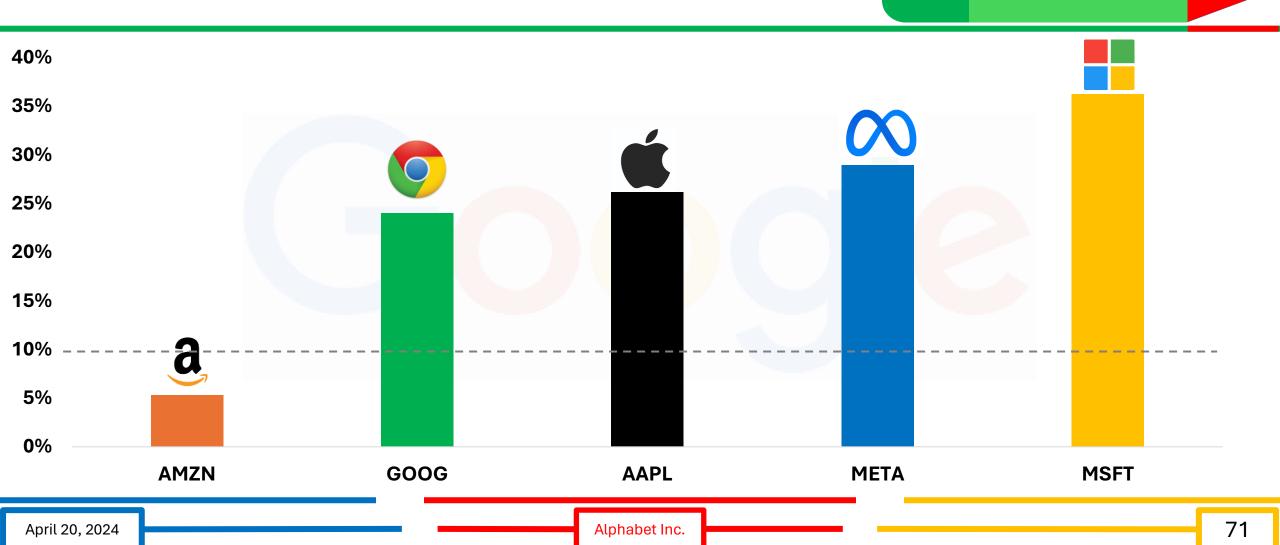






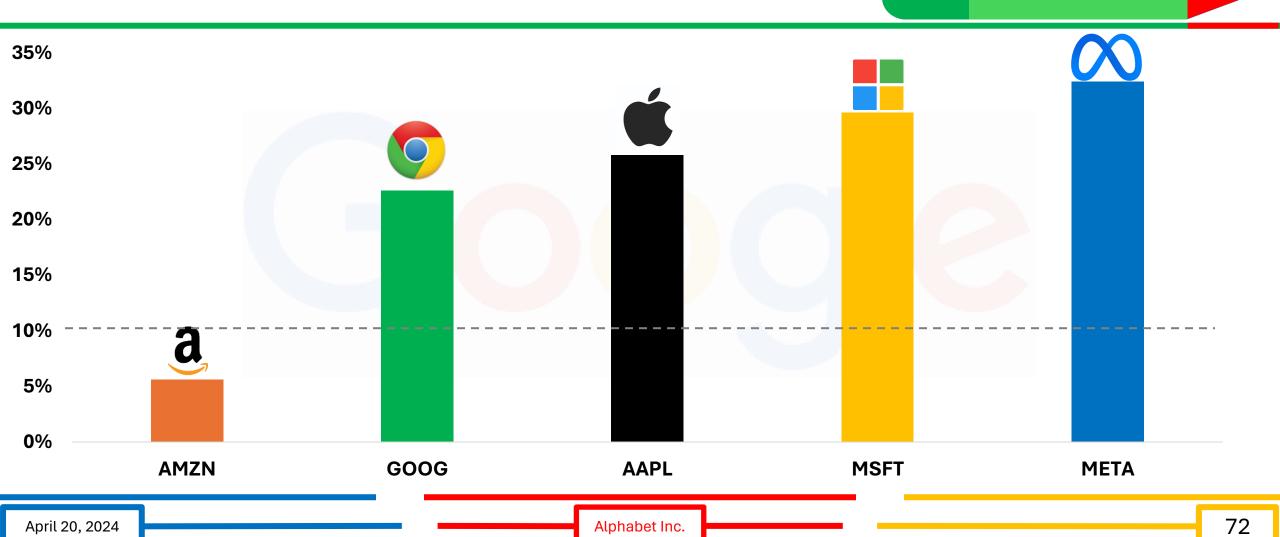




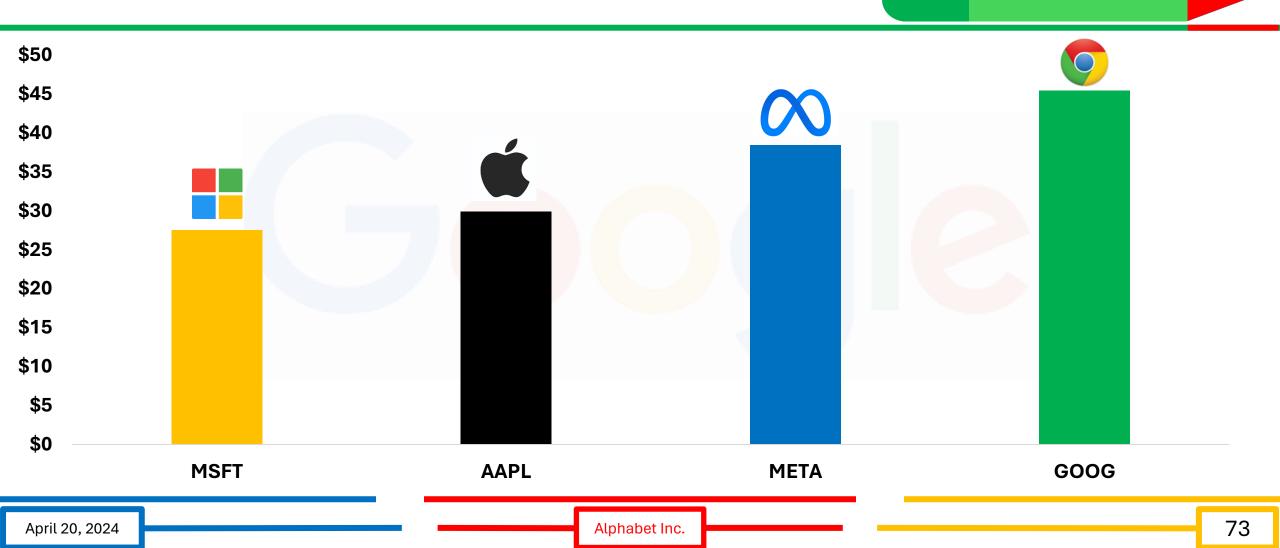




Competitor Analysis



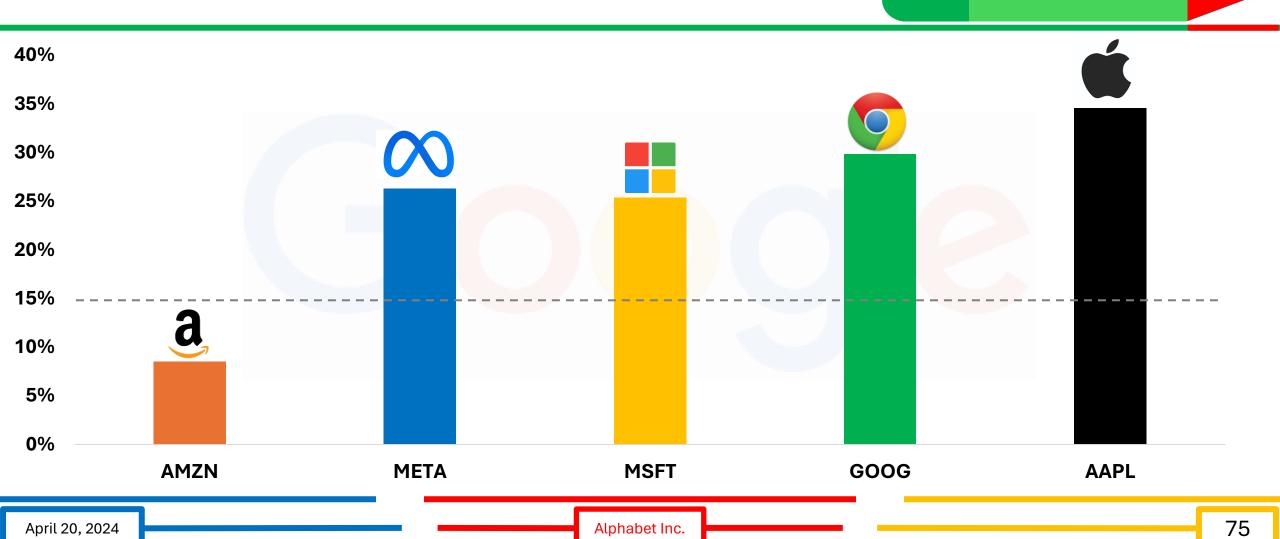




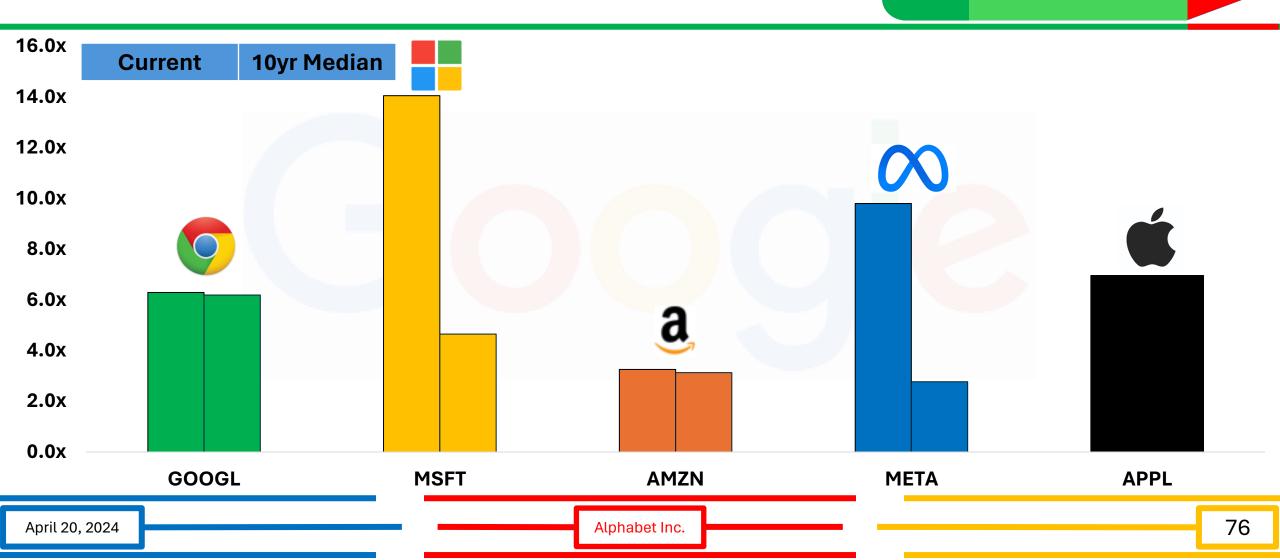






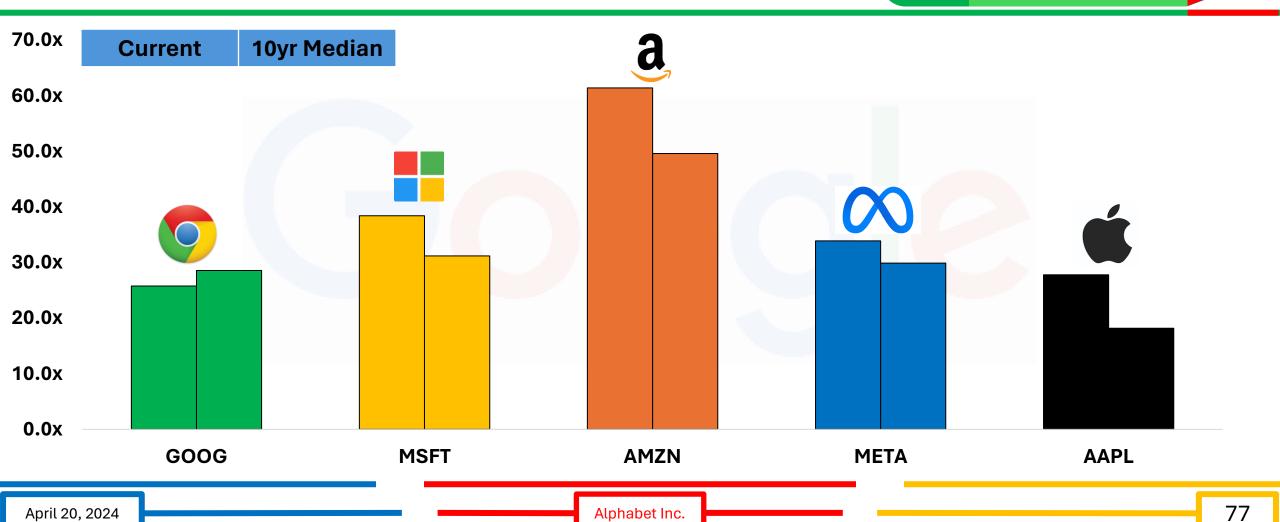


Price to Sales with 10yr Median

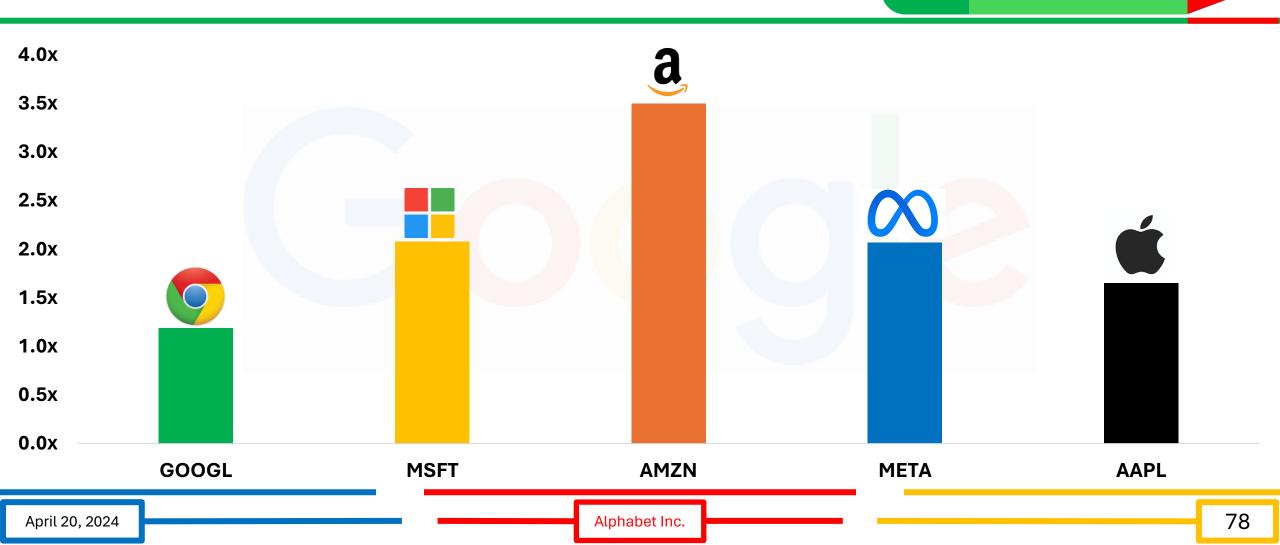


Price to Earnings with 10yr Median

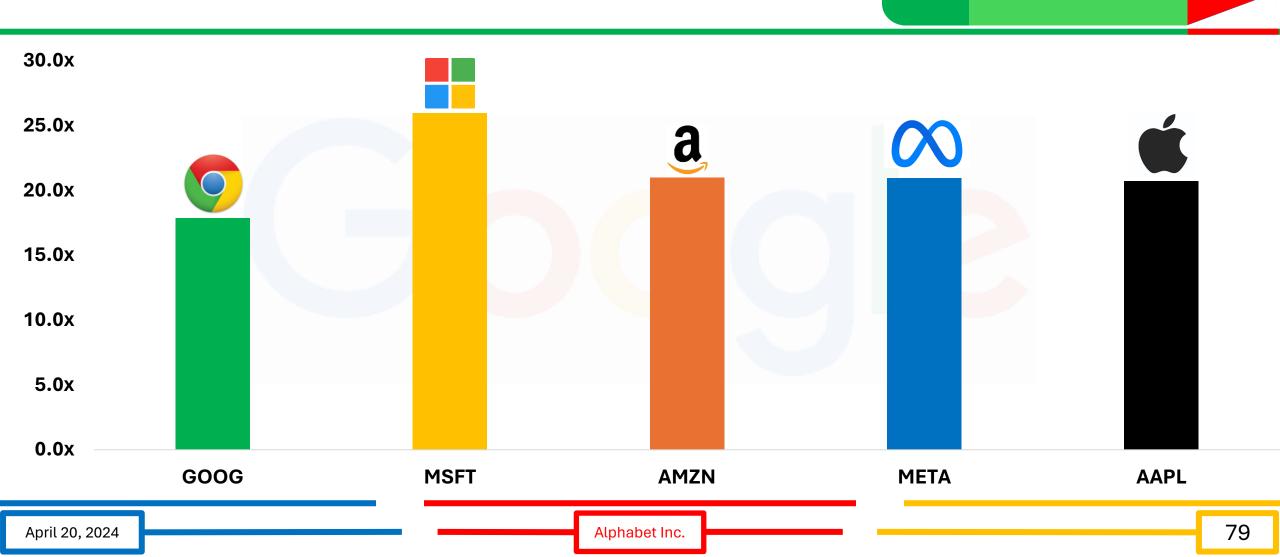
















Risk Factors



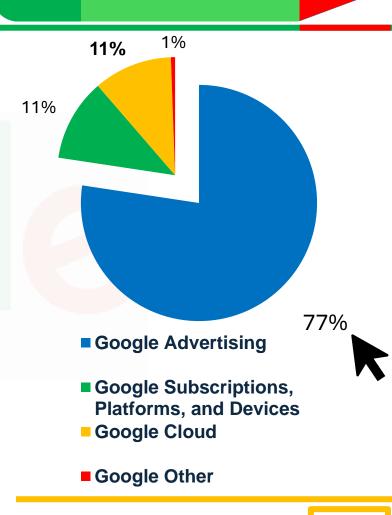


Enrique Alvarado

Reliance on Advertising

- Google gathers and hoards data from every source to make its advertising more effective & valuable to advertisers
- From location tracking (maps), search information & view times (search engine) and exercise data (Fitbit), Google knows everything about you, and what you'll interact with through monetization
- If Google fails to grow their advertising segment's revenue, it will take a toll on the company

Risk Factors



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Litigation

Risk Factors

- Data breaches, invasion of privacy, censorship and data monetization will constantly bring litigation to Google
- These events can and have brought negative impacts to Google's reputation, such as the recent \$5 Bn consumer privacy lawsuit settled in late December 2023
- However, the costs of these suits are often minimal to Google, which can make \$5 Bn in profit in about 21 days
- If Google's reputation deteriorates and is seen as untrustworthy, growth of their business could be disrupted severely



Competition

Risk Factors

Google's competitors are extremely established
 & successful companies in multiple segments

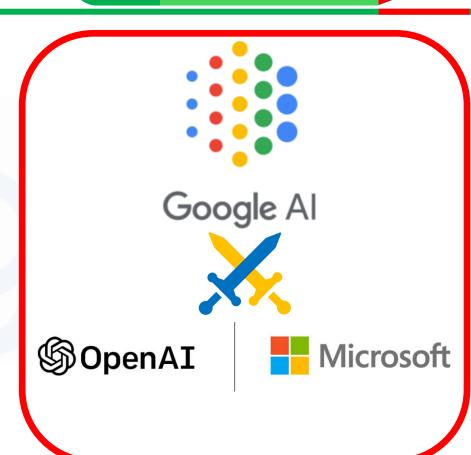
 These companies are qualified to introduce or scale technologies that could deem Googles services less valuable to consumers



Artificial Intelligence (AI)

Risk Factors

- Google & its competitors have begun to implement and develop AI for their businesses
- Al is still very early in its development & its limits and impacts have not been set
- If Google has issues in its own AI development, there may be reputational harm, litigation, or loss of consumers for competitors with more advanced models







Growth Opportunities



William Errett

Growth Opportunities

Growth Opportunities

Advertising

Cloud Services

Internet **Expansion**

Artificial Intelligence

Artificial Intelligence

Growth Opportunities



- Removed for providing incorrect information
- Had greater access to the internet than Chat GPT



- Image generation removed for generating "woke" historical images
- Now in hot water

Artificial Intelligence

Growth Opportunities



#1 Customer
 Data Pool in
 the world



Data









 #1 Advertising Platform in the World













Runner up search engine on desktops

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Artificial Intelligence

Growth Opportunities

 Apple is looking to team up with Google to use the Gemini AI model for features on iPhone



 Apple is looking to license Google's Altech to introduce Alpowered features with iOS updates later this year.

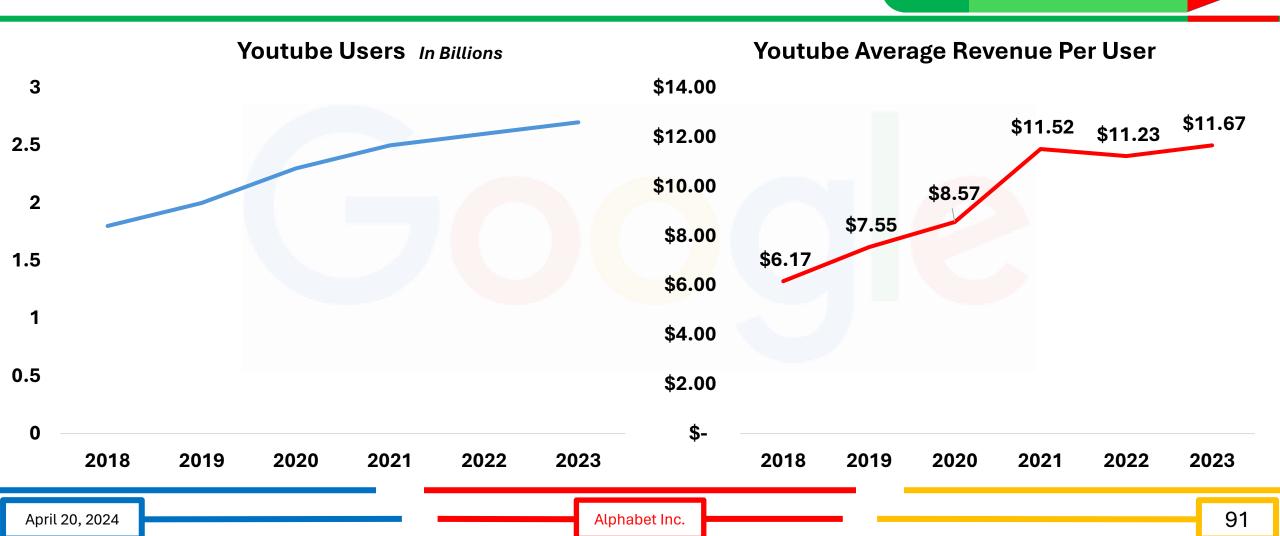
Advertising – Google Search

Google Search KPIs	
Paid Click Volumes	High Single Digits
Cost Per Click	Low Single Digits
Total Growth	High Single Digits to Low Double Digits

 As the market for online search grows Google is positioned to capture most of the new growth as they have a stranglehold on the market

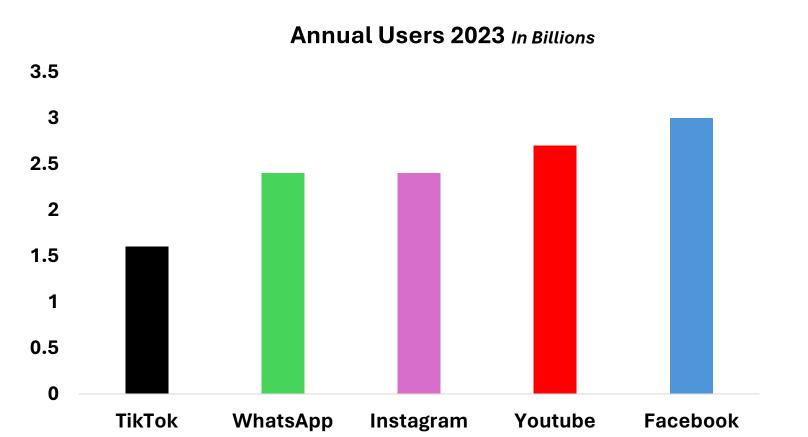


Growth Opportunities



Advertising - YouTube

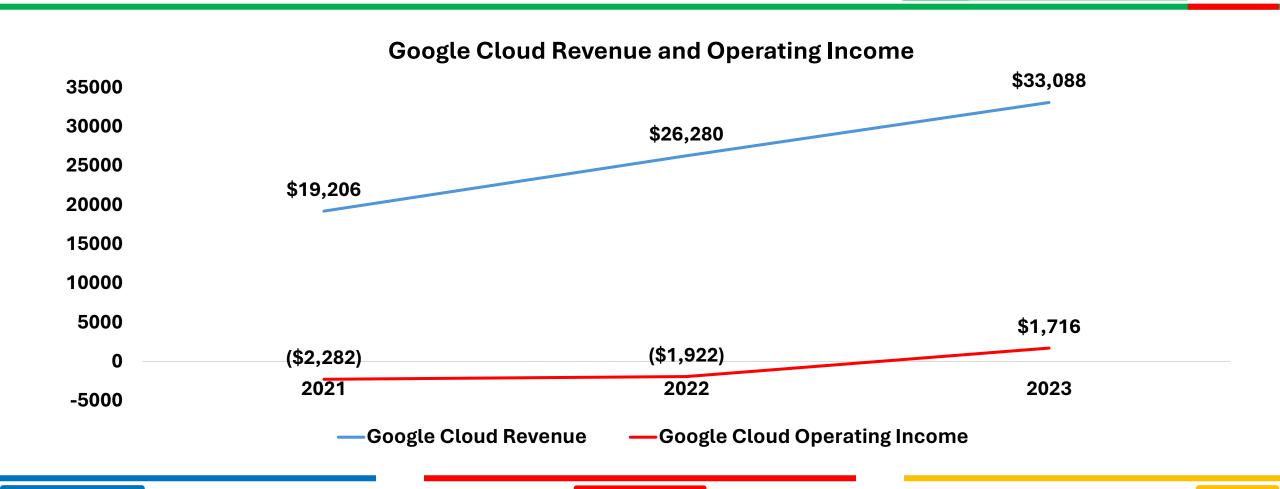
Growth Opportunities



 YouTube is one of the largest social platforms in terms of yearly active users

Cloud Profitability

Growth Opportunities



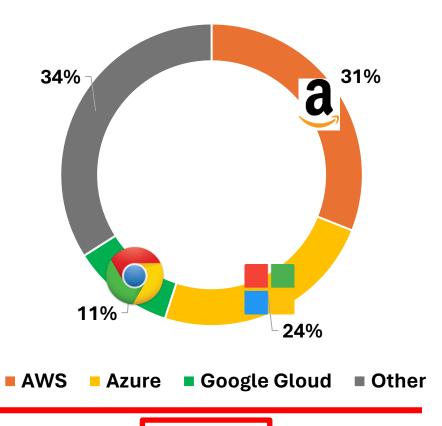
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Cloud Market

Growth Opportunities

 Google has built a respectful position in the Cloud Market

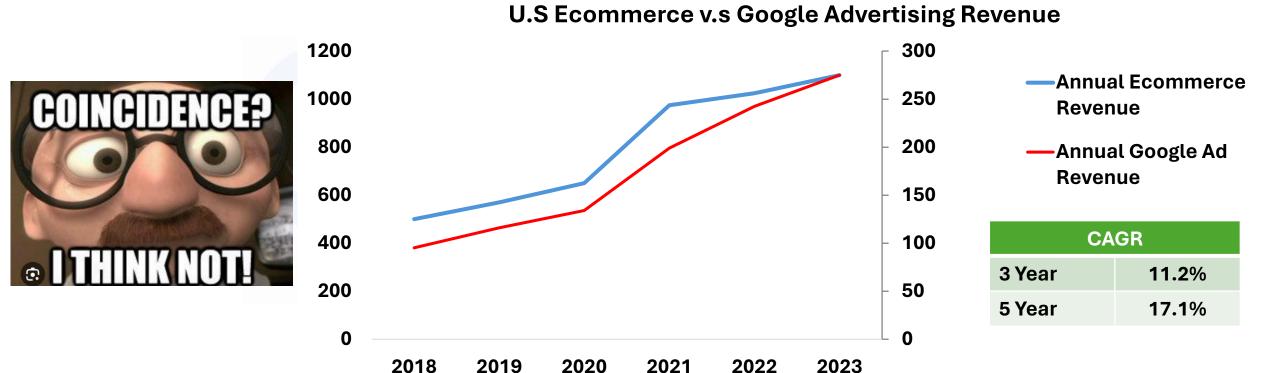
Cloud Market Share



 The fragmented nature of Cloud offerings positions Google to take share and further increase profitability

Internet Expansion

Growth Opportunities



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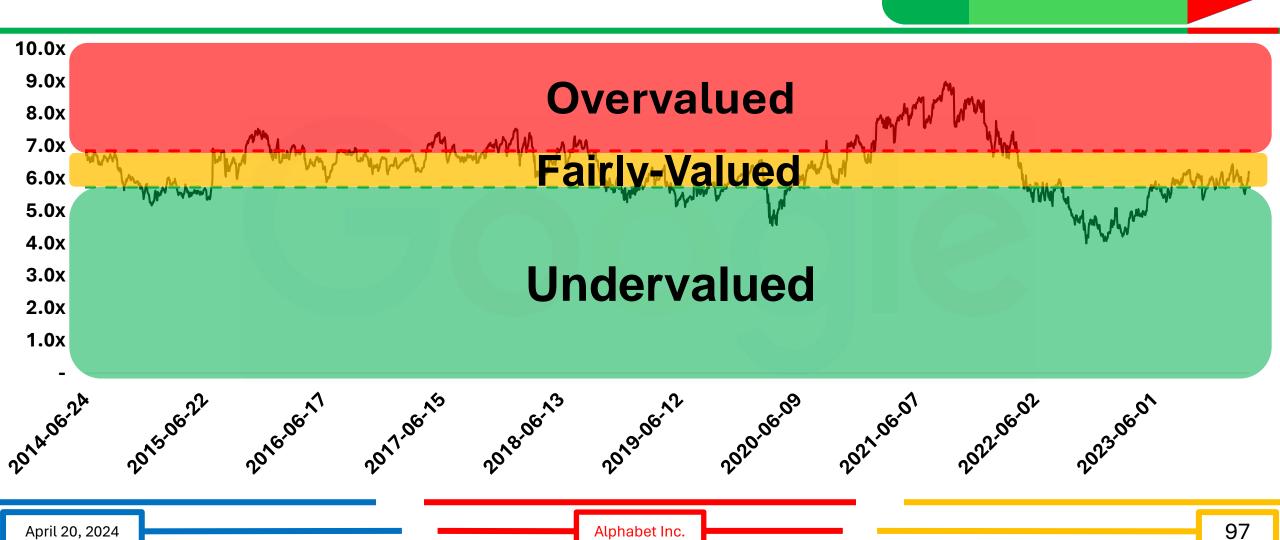




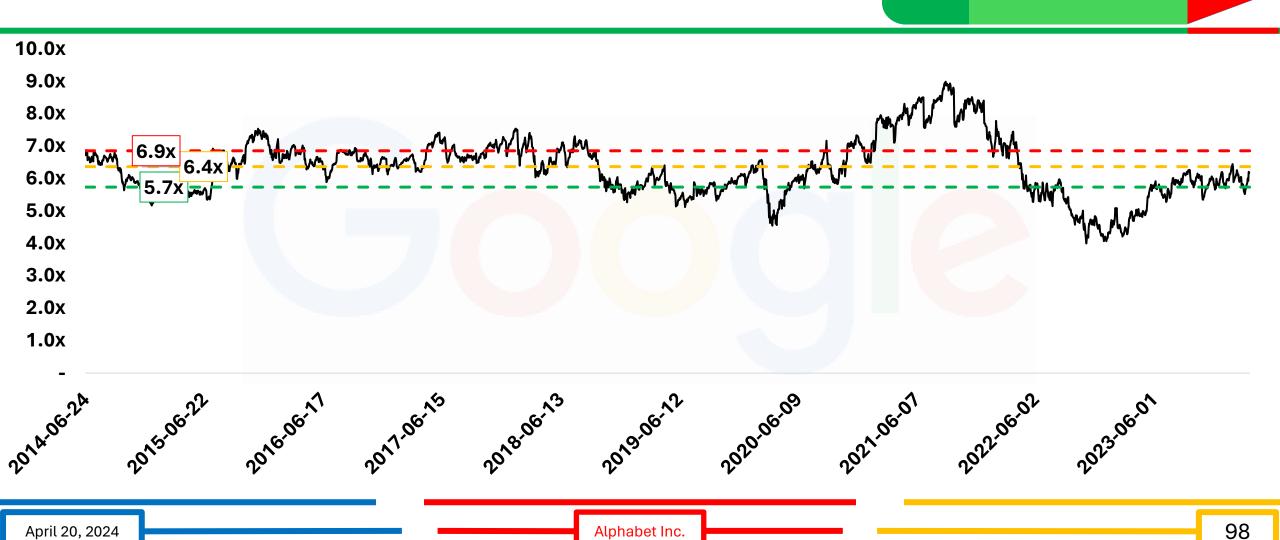
Value Bands & Intraportfolio Analysis

Enrique Alvarado

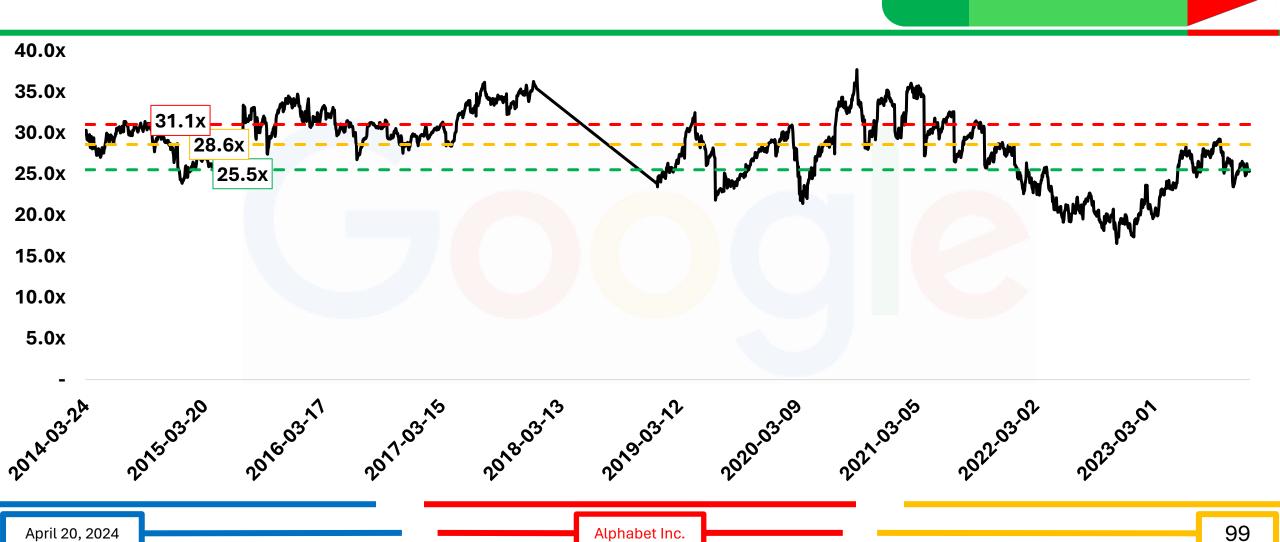
Example Value Bands





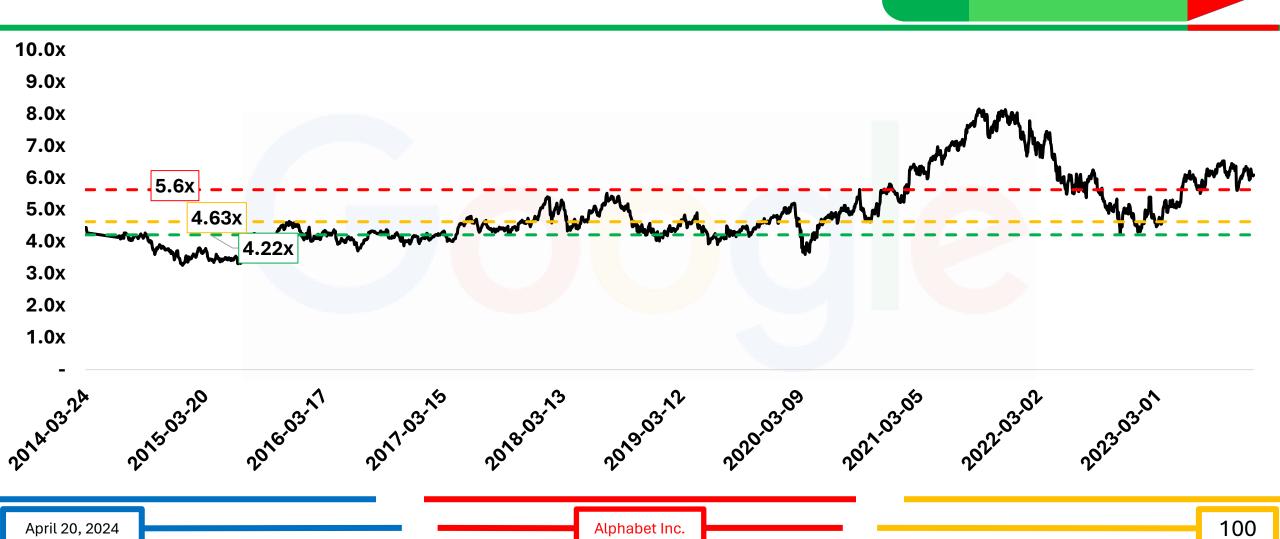




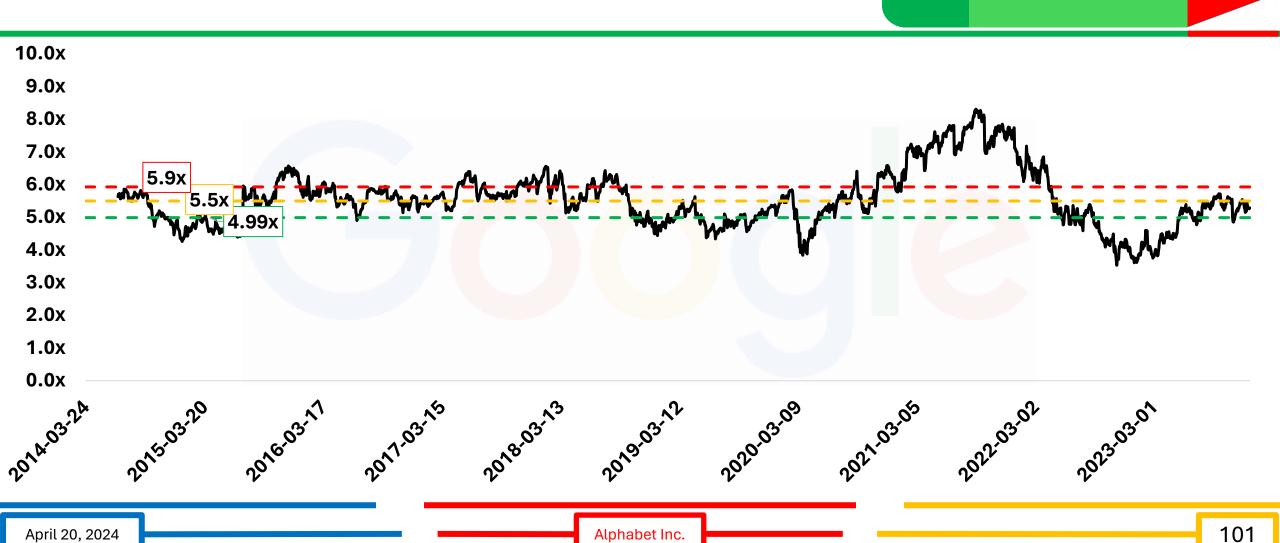




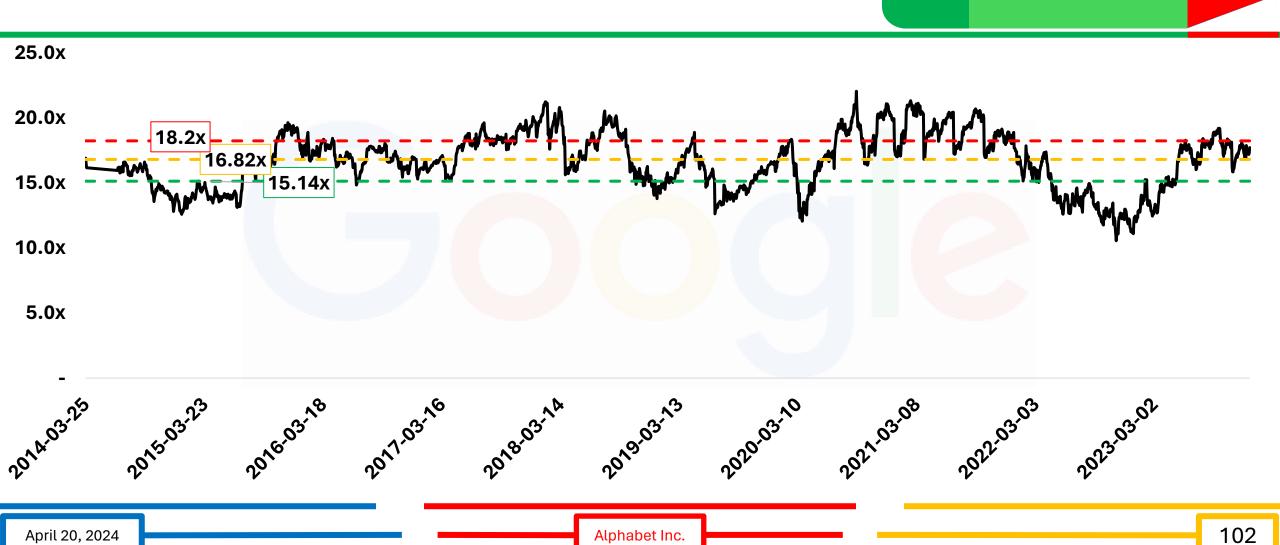
Value Bands & Intraportfolio



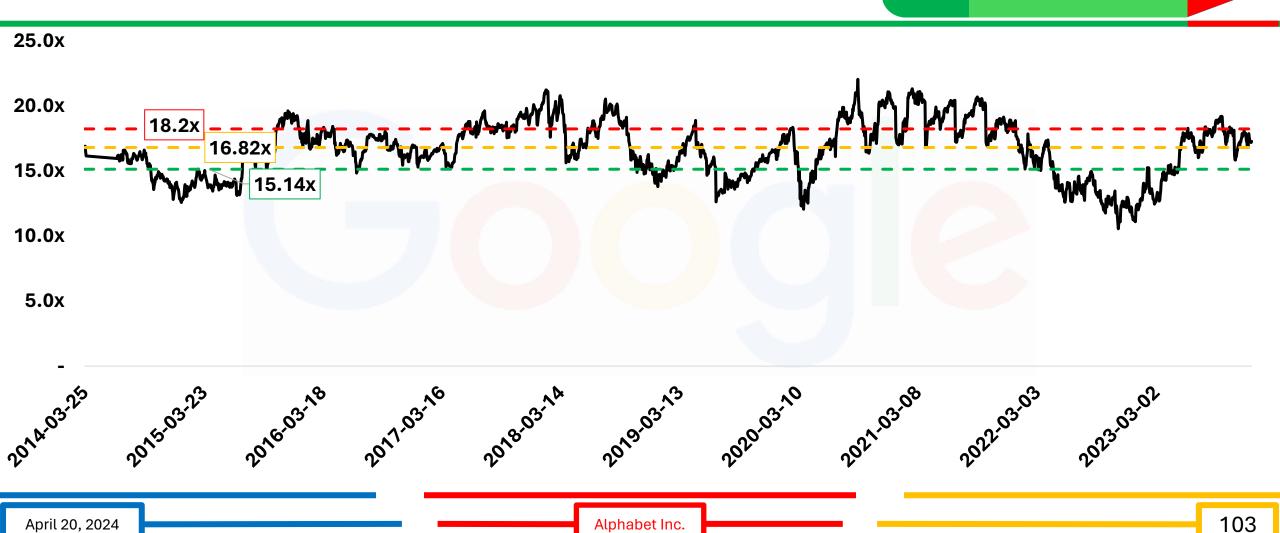




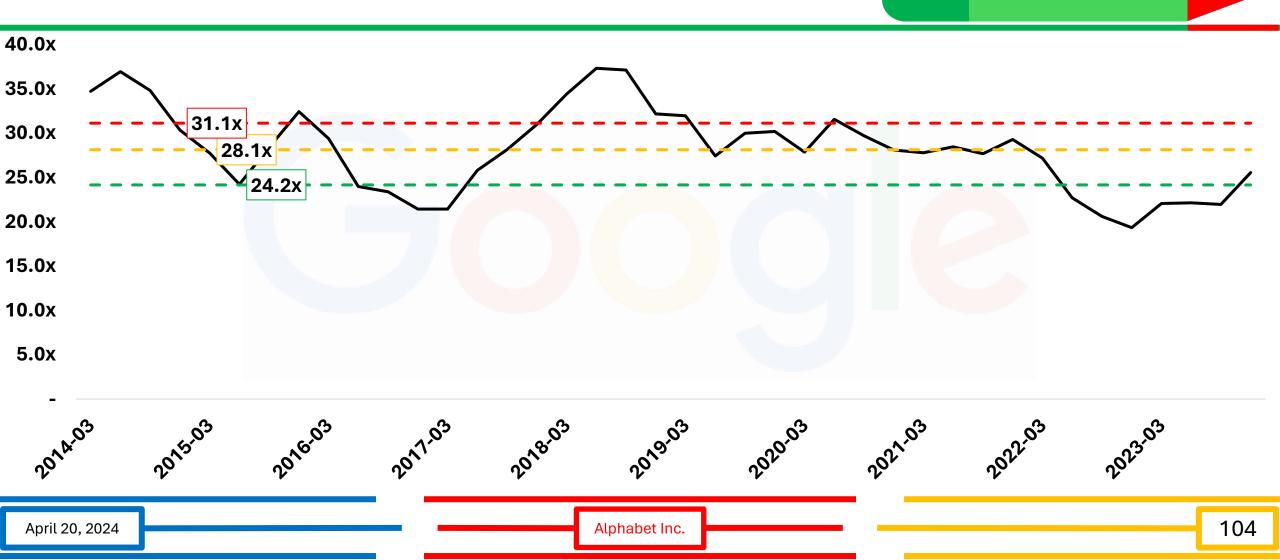




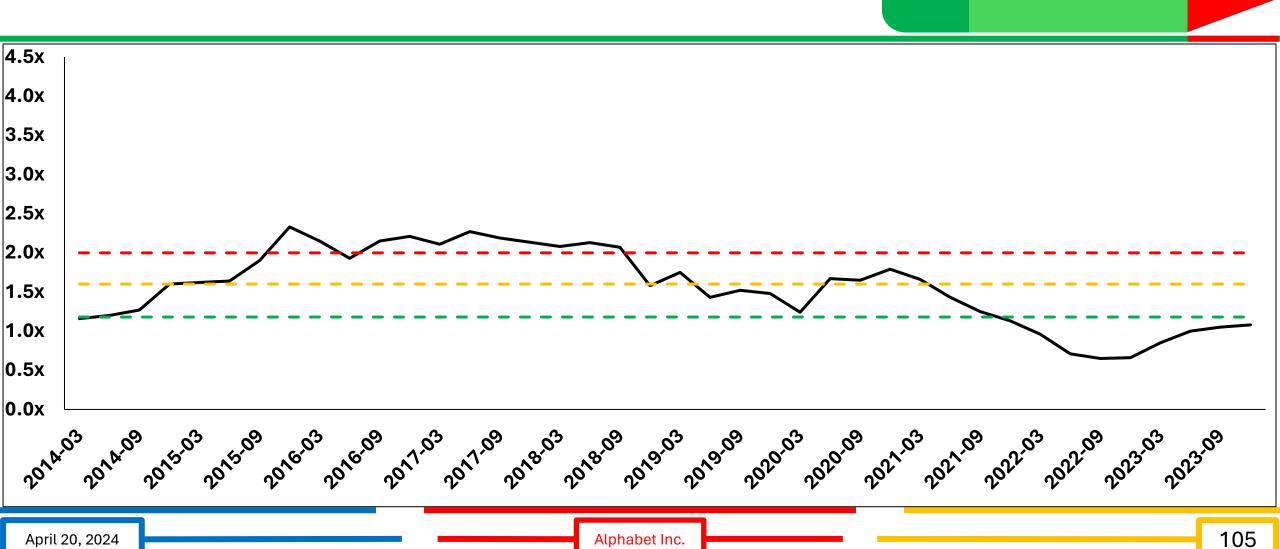
Enterprise Value-to-EBITDA









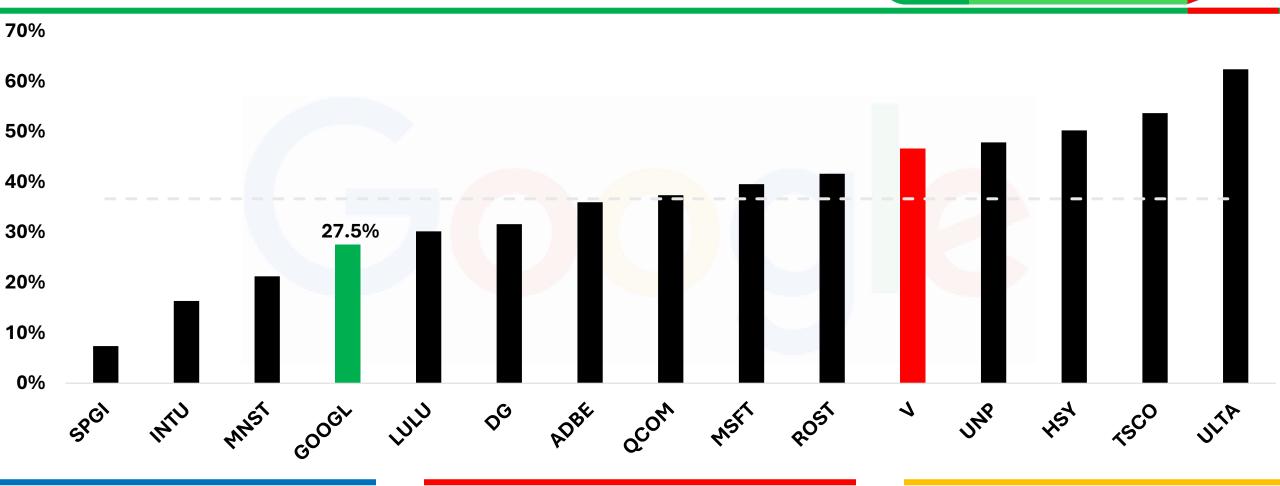




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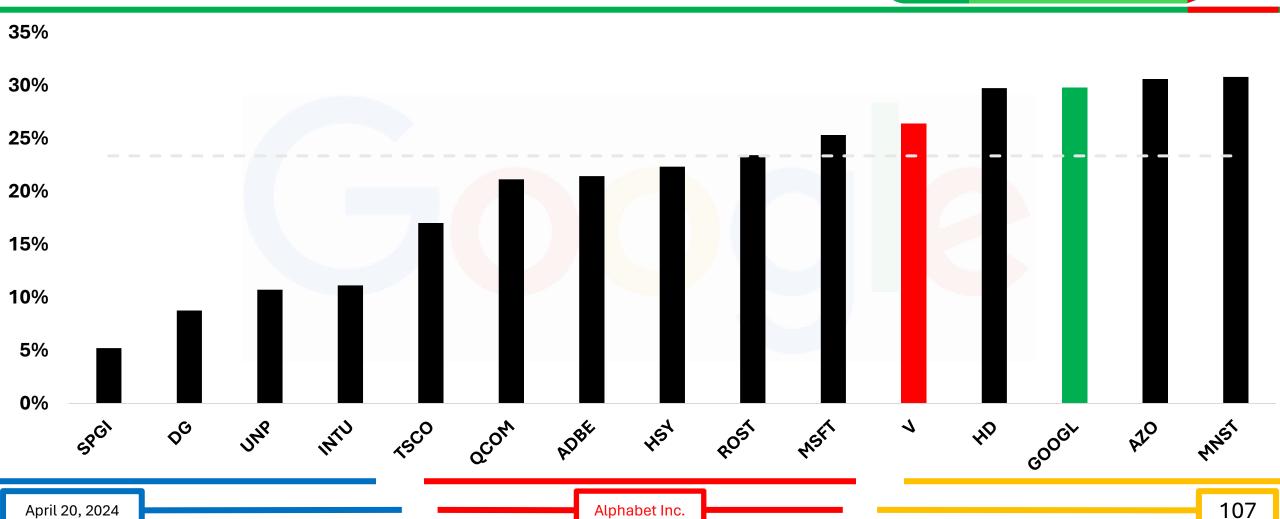
Value Bands & Intraportfolio

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Value Bands & Intraportfolio

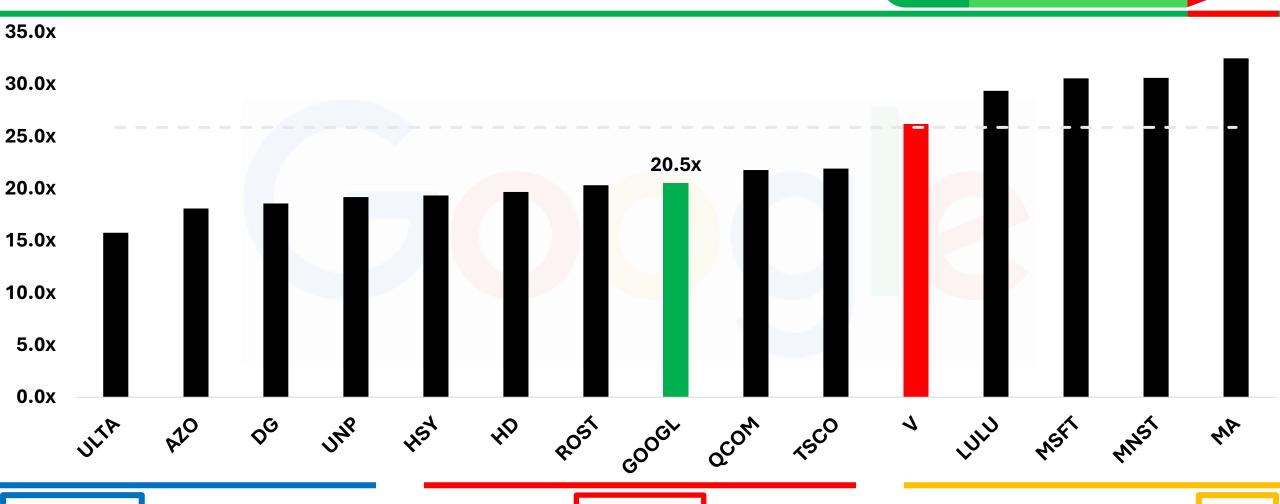




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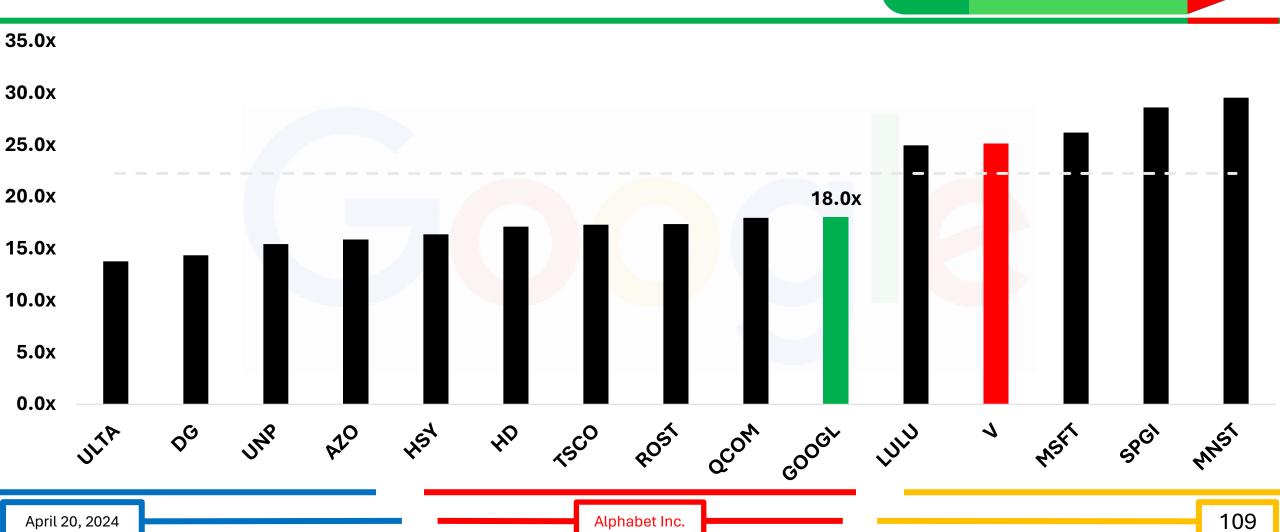
Value Bands & Intraportfolio

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Value Bands & Intraportfolio

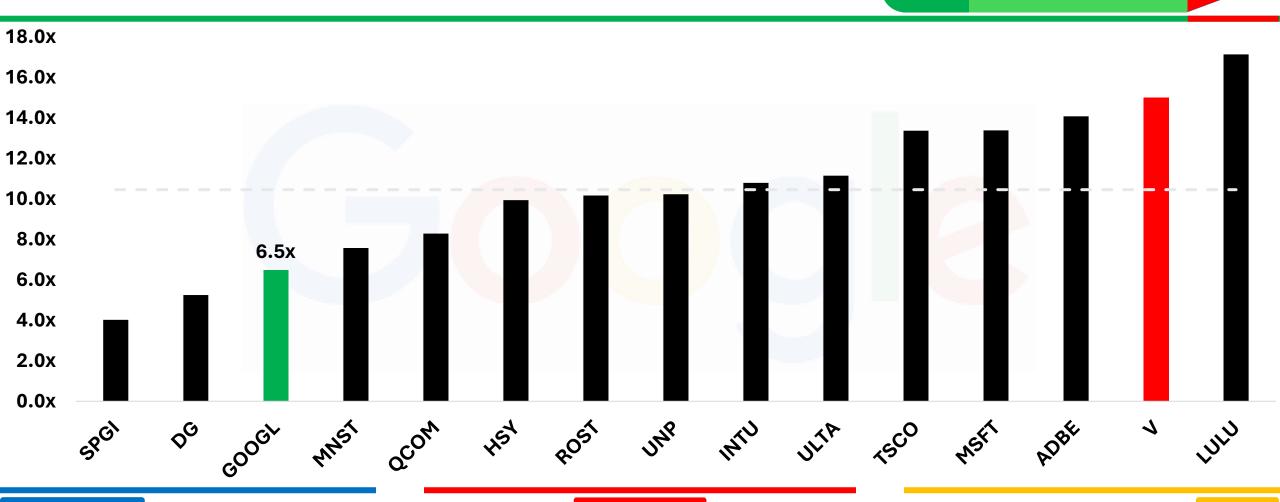




April 20, 2024

Value Bands & Intraportfolio

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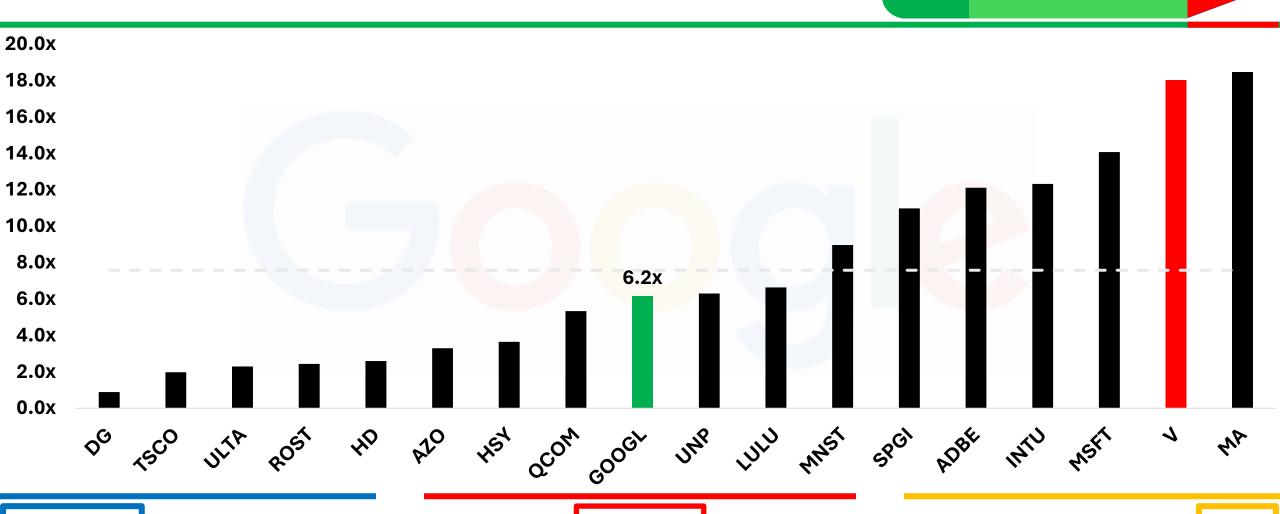
Alphabet Inc.



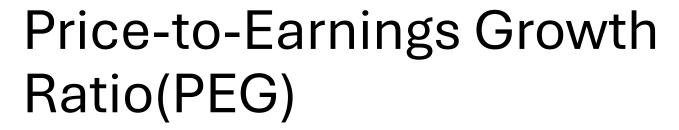
April 20, 2024

Value Bands & Intraportfolio

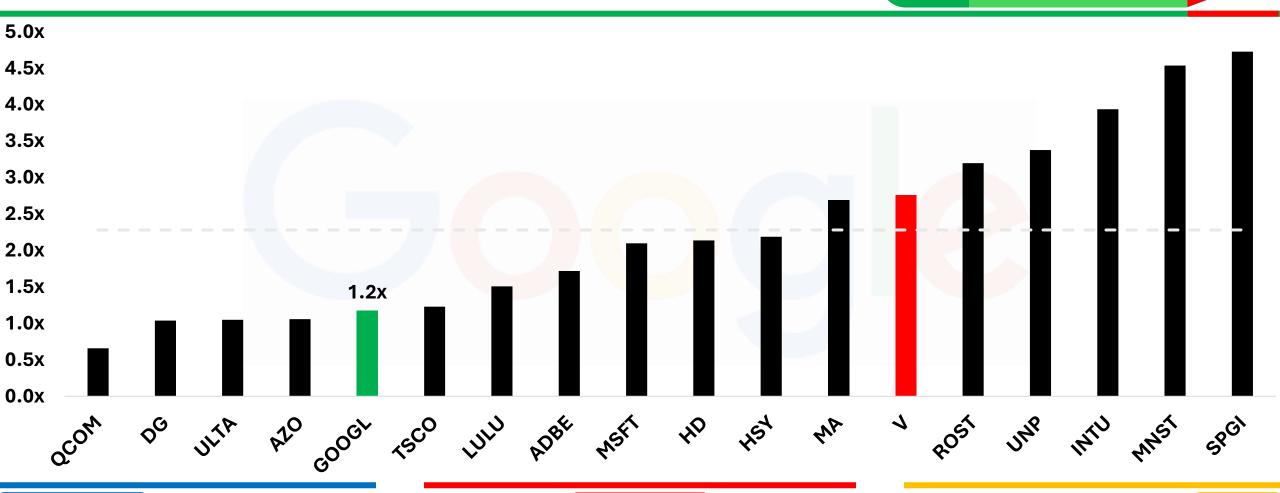
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Alphabet Inc.



Value Bands & Intraportfolio



April 20, 2024

Alphabet Inc.

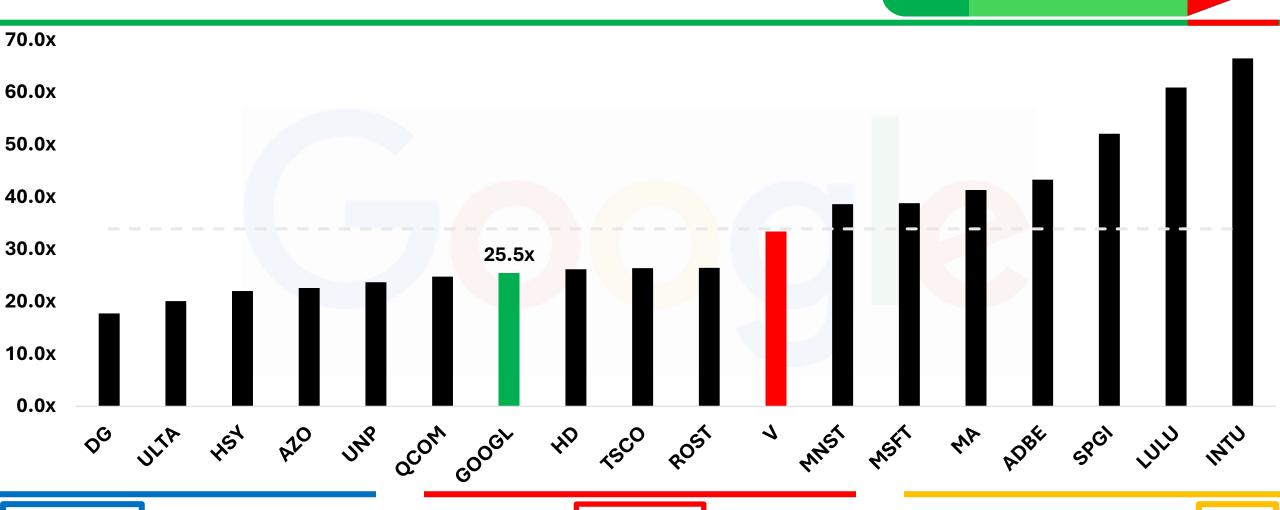
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April 20, 2024

Value Bands & Intraportfolio

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Alphabet Inc.





Valuation & Conclusion



Enrique Alvarado

EPS Growth Rate Inputs

Valuation & Conclusion

	Revenue	Net Margin	Share Repurchases	EPS Growth Rate
Bear	9%	0.5%	1.5%	<mark>11%</mark>
Base	10%	1%	2%	<mark>13%</mark>
Bull	11%	1.5%	2.5%	<mark>15%</mark>

5 Year Discounted Cash Flow

Valuation & Conclusion

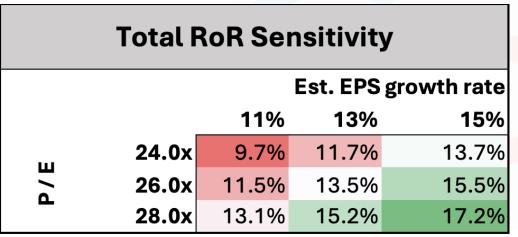
Ticker:	GOOGL											
Price:	\$147.60		5 Year Di	scounted	Cash F	low						
									Total Return			Annual
								P/E	Price	PV	5 YR Return	Return
		Current	2023	2024	2025	2026	2027	24.0x	\$234.56	\$139.20	58.9%	9.7%
Bear	EPS	\$5.80	\$6.44	\$7.15	\$7.93	\$8.80	\$9.77	26.0x	\$254.11	\$150.80	72.2%	11.5%
			11%	11%	11%	11%	11%	28.0x	\$273.65	\$162.40	85.4%	13.1%
		_						04.0		4		
Base		Current	2023	2024	2025	2026	2027	24.0x 26.0x	\$256.47	\$152.20	73.8%	11.7%
base	EPS	\$5.80	\$6.55 13%	\$7.41 <i>13</i> %	\$8.37 13%	\$9.46	\$10.69 <i>13%</i>	28.0x	\$277.84	\$164.88 \$177.57	88.2%	13.5% 15.2%
			13%	13%	13%	13%	13%	28.00	\$299.21	\$177.57	102.7%	15.2%
		Cumant	2022	2024	2025	2026	2027	24.0x	\$270.00	\$100.10	90.704	42.70/
Bull	EPS	<u>Current</u> \$5.80	2023 \$6.67	2024 \$7.67	2025 \$8.82	2026 \$10.14	2027 \$11.67	26.0x	\$279.98 \$303.31	\$166.16 \$180.00	89.7% 105.5%	13.7% 15.5%
Suu		φ3.60	15%	15%	φ6.62 15%	15%	15%	28.0x	\$326.64	\$193.85	121.3%	17.2%
			1070	1070	1070	1070	1070		ψ020.04	ψ150.00	121.070	17.270

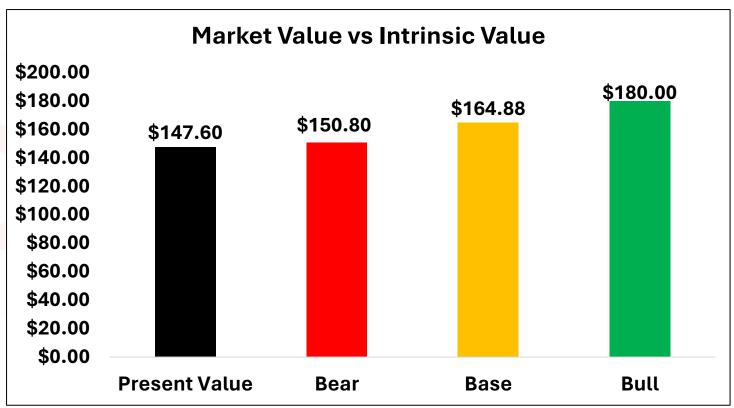
Discount rate:

11%

Expected Rate of Return

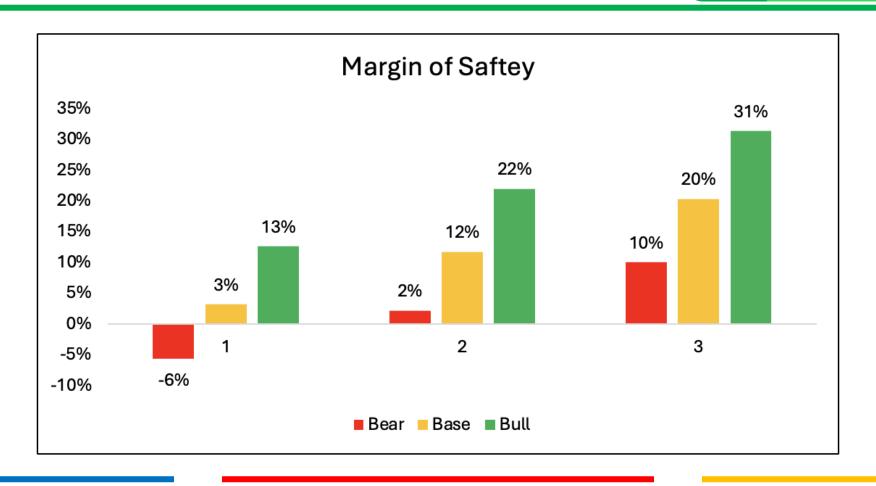
Valuation & Conclusion





Margin of Safety

Appendix



Conclusion

Valuation & Conclusion

- Battle tested, wide-moat company with growing revenue streams
- Predictable & Consistent
- Recommendation:
 - Limit order for 350 shares at Market Price
 - Moves Google from 12.8% to a 15% weighting in our portfolio







Question & Answer Session

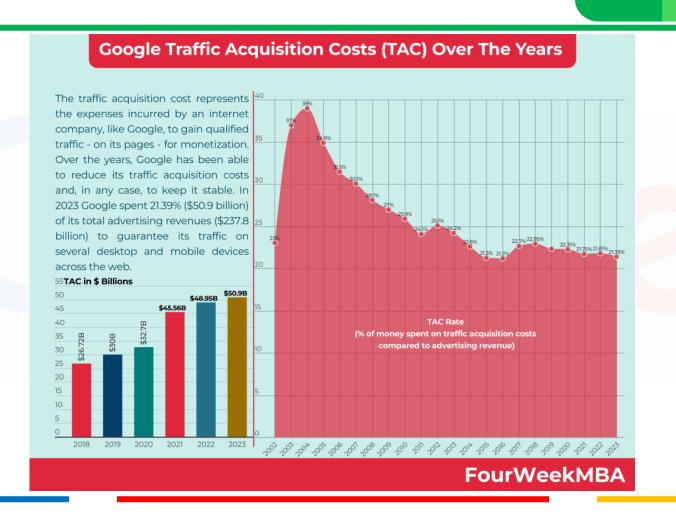








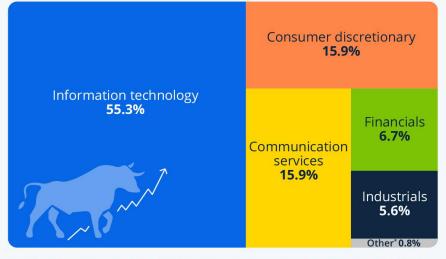
TAC Rate Since 2002



Appendix

Al-Powered Tech Boom Fuels 2023 Stock Market Rally

Sector contributions to the total return of the S&P 500 in 2023



* Incl. real estate, materials, health care, consumer staples, energy and utilities Source: Howard Silverblatt, S&P Dow Jones Indices









Project Nimbus



- Project Nimbus is a software Israeli Government and Military
- Ran on Google Cloud and AWS
- Controversial usage in Gaza conflict causing protests both inside and outside of the company
- Google Fired Employees over protests possibly violating
- The terms Israel set for the project contractually forbid Amazon and Google from halting services due to boycott pressure. The tech companies are also forbidden from denying service to any government entities

Apple and Google AI Partnership Under Discussion

- There are rumors that Apple might be partnering with Google to leverage its Gemini AI product for Apple's iPhone and iPad software.
- The potential deal with Google would involve licensing Gemini's features to enhance Apple's Al generation capabilities, focusing on text-based and image-based information.
- Google's Gemini AI system, known for its multimodal capabilities, allows for processing both text and image-based data, making it more advanced than traditional text-based chatbots.

Al Flood Prediction

Appendix

- Google offers Flood Hub, a tool predicting flood risk in local areas for the upcoming week using public data and sending warnings to authorities and organizations.
- Flood Hub covers over 80 countries, including the US, serving 2,000 sites with over 460 million residents receiving alerts via Google Search, Google Maps, and Android notifications.
- Google's flood prediction started in India's flood-prone region, utilizing historical data, river levels, and terrain for forecasting, expanding to more areas and enhanced with AI collaborations.
- Advances in AI have enabled better flood predictions even in areas lacking streamflow data, aiming to increase coverage across Africa, aligning with European standards, and extend predictions to various flood types like flash floods and urban floods.

More iPhone features come to Android, Google Pixel market share increasing

- Google is bringing satellite messaging to Android 15
- Improvements to the Wallet App that may make it easier to switch
- Google has plans for key apps across the Android user experience.
 Making the switch more lucrative for many iPhone users, especially those disgruntled with Apple's recent actions.
- New sales figures reveal that Google Pixel's market share is nearing 5% in the US. This is strong growth despite an overall drop in sales of almost 14%.

Google's plan to end Email Spam

- Gmail's AI protections stop more than 99.9% of spam, phishing and malware-carrying emails from reaching users' inboxes. But they want to do better.
- Google has been making it explicit since October 2023 that new email sender authentication rules will result in some messages to Gmail accounts being rejected and bounced back to the sender en masse.
- Companies have 10 Days To Comply with the new rules and starting in April 2024 Google will rejecting non-compliant traffic
- Some of the rules include the requirement for bulk senders to authenticate their emails, allow for easy unsubscription and to stay under a reported spam threshold

Growth Rate Drivers

Appendix

Growth Rate Drivers												
		2023-01		2024		2025		2026		2027		2028
Revenue	\$	8,111	\$	8,840	\$	9,636	\$	10,503	\$	11,449	\$	12,479
Growth Estimate				9.0%		9.0%		9.0%		9.0%		9.0%
Operating Income	\$	2,016	\$	2,217	\$	2,439	\$	2,683	\$	2,951	\$	3,246
Growth Estimate				10.0%		10.0%		10.0%		10.0%		10.0%
Operating Margin		24.9%		25.1%		25.3%		25.5%		25.8%		26.0%
Pre-Tax Income	\$	1,562.15	\$	1,718.37	\$	1,890.20	\$	1,890.20	\$	2,079.22	\$	2,287.14
Growth Estimate				10.0%		10.0%		0.0%		10.0%		10.0%
Pre-Tax Income Margin		19.3%		19.4%		19.6%		18.0%		18.2%		18.3%
Tax Rate		36.0%		24.0%		24.0%		24.0%		24.0%		24.0%
Net Income	\$	1,001	\$	1,306	\$	1,437	\$	1,437	\$	1,580	\$	1,738
Shares Outstanding		126.8		129.3		131.9		134.5		137.2		140.0
Buyback Rate		-3.3%		2.0%		2.0%		2.0%		2.0%		2.0%
EPS	\$	7.86	\$	10.10	\$	10.89	\$	10.68	\$	11.52	\$	12.42
5 Year CAGR		10%										