# HERESEARCH HenryFund.Org

# **MICROSOFT CORPORATION (MSFT)**

October 12, 2023

#### Information Technology - Software

**Investment Thesis** 

#### **Drivers of Thesis**

- MSFT has been making significant investments into Al/generative Al and integrating it into their products. The generative Al is expected to grow at a CAGR of 42% over the next 10 years.
- With the acquisition of Activision-Blizzard (ATVI) expected to go through, we expect MSFT to greatly enhance the value proposition of the Xbox Game Pass, paired with increasing its market share in the gaming market.
- Microsoft's revenue is highly diversified, with exposure to multiple highgrowth industries, such as cloud computing, artificial intelligence, and gaming.

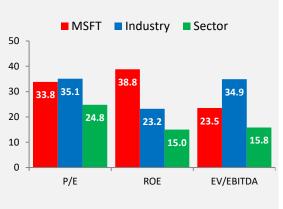
#### **Risks to Thesis**

- In the event of a recession, Microsoft may see lower IT spending, paired with lower demand for PCs, servers, and business spending, adversely affecting revenue.
- Microsoft is highly exposed to regulatory pressures, including AI, which may impact future acquisitions and adversely impact revenue, which may impact our forecast estimates.

Earnings Estimates							
Year	2021	2022	2023	2024E	2025E	2026E	
EPS	\$8.12	\$9.70	\$9.72	\$10.99	\$12.65	\$14.94	
HF est.				\$10.78	\$12.80	\$15.39	
growth	13.9%	39.5%	13.4%	6.5%	3.1%	17.6%	
12 Month Performance							



Stock Rating	BUY
Target Price	\$375-395
Henry Fund DCF	\$384
Henry Fund DDM	\$216
Relative Multiple	\$289
Price Data	
Current Price	\$331.16
52wk Range	\$213.43 – 366.78
Consensus 1yr Target	\$396.64
<b>Key Statistics</b>	
Market Cap (B)	\$2,435.0
Shares Outstanding (M)	7,430
Institutional Ownership	72.2%
Beta	1.03
Dividend Yield	0.90%
Est. 5yr Growth	13.4%
Price/Earnings (LTM)	33.8
Price/Earnings (FY1)	30.2
Price/Sales (Current)	11.6
Profitability	
Operating Margin	39.3%
Profit Margin	33.9%
Return on Assets (2023)	18.6%
Return on Equity (2023)	38.8%



**Company Description** 

Microsoft Corporation (MSFT) is a multinational technology corporation engaging in the development and support of software, services, devices, and solutions. MSFT's main products include the Windows line of operating systems and the Office 365 suite of software applications. Additionally, MSFT owns the cloud computing platform Azure as well as Xbox, LinkedIn, GitHub, Bing, and the Edge web browser. MSFT was founded in 1975 and is headquartered in Redmond, WA.

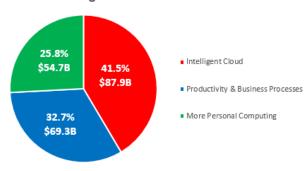


# Tippie College of Business

# **COMPANY DESCRIPTION**

Microsoft Corporation (MSFT) engages in the development and support of software, services, devices, and solutions<sup>4</sup>. The company operates across three main business segments: Productivity and Business Processes, Intelligent Cloud, and More Personal Computing. MSFT's main products and services include the Azure cloud computing platform, the Office 365 suite of software products, Xbox, LinkedIn, GitHub, Bing, and the Edge web browser.

**Business Segments % of Revenue FY 2023** 



Source: MSFT 10-K

Historically, MSFT's Intelligent Cloud segment has been growing to comprise a greater percentage of MSFT's total revenue, with 2020 onwards marking the point where a majority of MSFT's came from their Intelligent Cloud segment. This share has been largely taken from the More Personal Computing segment, which in FY 2019 was MSFT's largest revenue segment. We expect Intelligent Cloud to remain MSFT's primary source of revenue over our forecast horizon.

MSFT's business segments can be further decomposed into significant product and service offerings, which are highlighted below, including their contribution to MSFT's total revenue. Acronyms used are as follows:

PBC: Productivity & Business Processes

IC: Intelligent Cloud

MPC: More Personal Computing

Offering	Segment	% Total
Server Products & Cloud	IC	37.7%
Services		
Office Products & Cloud	PBC	23.0%
Services		
Windows	MPC	10.1%
Gaming	MPC	7.3%
LinkedIn	PBC	7.1%
Search and news advertising	MPC	5.8%
Enterprise Services	IC	3.6%
Devices	MPC	2.6%
Dynamics	PBC	2.6%
Other	N/A	0.1%

Source: MSFT 10-K

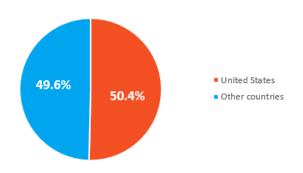
Over our 10-year forecast horizon, we opted to forecast based on MSFT's product and service offerings, which will be described under their respective business segments. For fiscal year 2024, we forecast in-line with management expectations, which are outlined under "Q4 FY 2023 Earnings Announcement". Additionally, in our forecasts, we aim to be in-line with management guidance, favoring optimism in the case of areas with strong growth, namely MSFT's server products given the strong growth in demand for cloud computing, as well as gaming in the short-term, through the anticipated Activision-Blizzard acquisition.

# **Geographic Business Segments**

MSFT reports across two key geographical segments: US and Other Countries. As of FY 2023, each geographical segment contributed roughly half to MSFT's overall revenues, with this trend holding historically. Given MSFT's significant international revenues, developments in regulations and operating environment outside of the U.S. will be important to monitor. While MSFT does not break these segments down further, China comprises less than 2% of MSFT's revenue<sup>3</sup>.



#### MSFT Geographic Business Segments FY 2023



Source: MSFT 10-K

# **Productivity and Business Processes**

MSFT's Productivity and Business Processes segment consists of products and services for MSFT's productivity, communication, and information services, spanning a variety of platforms<sup>1</sup>. This segment can be divided further into four sub-segments: Office Commercial, Office Consumer, LinkedIn, and Dynamics business solutions.

Office Commercial includes Office 365 subscriptions, as well as Office, Exchange, SharePoint, Microsoft Teams, Office 365 Security and Compliance, Microsoft Viva, and Microsoft 365 Copilot<sup>1</sup>. Growth in this area depends on MSFT's ability to reach new users in new markets paired with adding value to their current product and service offerings<sup>1</sup>. Revenue is mainly affected by continued installed base growth, average revenue per user expansion, and the continued shift from office licensed on-premises to Office 365<sup>1</sup>. Average revenue per user (APRU) has been increasing in recent years, increasing by 25.8% from end of FY 2019 to 2022 to \$128.21.

Office Consumer includes Microsoft 365 Consumer subscriptions, Office licensed on-premises, and other Office services<sup>1</sup>. Growth here is driven the same way as with Office Commercial, albeit with different user markets. Revenue is primarily affected by subscriptions, advertising, and sale of minutes for Skype, Outlook.com, and OneDrive<sup>1</sup>.

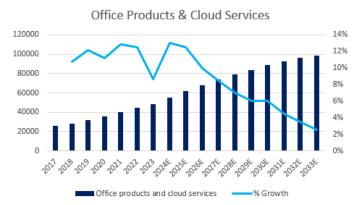
MSFT faces strong competition in the office software market, namely from software and global application vendors such as Apple, Cisco Systems, Meta, Google, Okta, Zoom, and others<sup>1</sup>.



#### **Office Products & Cloud Services**

(23.0% of revenue)

The global office software market is expected to grow at a CAGR of approximately 7% from 2023-2030, driven by factors such as rising IT spending, increased demand for cloud-based software and applications, and increasing number of business and startups<sup>6</sup>. We estimate a CAGR of 7.3% from 2023-2033 resulting from the drivers above on expectations that MSFT will continue to deliver growth in these areas.



Source: MSFT 10-K, HF estimates

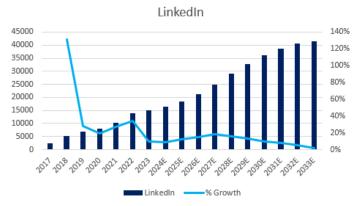
#### LinkedIn

(7.0% of revenue)

LinkedIn includes Talent Solutions, Marketing Solutions, Premium Subscriptions, and Sales Solutions<sup>1</sup>. Growth in this area will depend on MSFT's ability to increase LinkedIn's membership count and offering services to increase user engagement. Revenue for LinkedIn is driven demand from enterprises and professional organizations for Solutions and Premium subscriptions, as well as member engagement and quality of sponsored content delivered to those members<sup>1</sup>. LinkedIn's ad revenue is expected to reach \$10.35B in 2027, with a CAGR of 15.0%<sup>7</sup>, as the user base continues to grow and given LinkedIn's dominant market share as a professional services network, which we do not expect will change. We forecast a CAGR of 10.2% from 2023-2033, driven by expected ad revenue and increasing user growth, increased use of AI (such as AI-powered collaborative articles, LinkedIn's current fastest-growing traffic driver<sup>2</sup>), as well as expected recovery in advertising spend and hiring. Currently LinkedIn has 310 monthly active users, which is lower than major social media cites such as Facebook (2.9M), Instagram (1.4M), TikTok (1M), and Snapchat (557M). However, remains at the top of business/employment-focused social media.





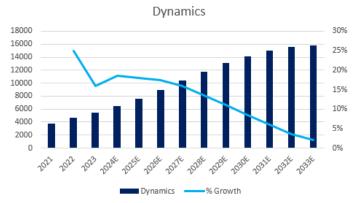


Source: MSFT 10-K, HF estimates

#### **Dynamics**

(2.6% of revenue)

Dynamics business solutions, including Dynamics 365, comprises a set of intelligent, cloud-based applications across ERP, CRM (including Customer Insights), Power Apps, and Power Automate, and on-premises ERM and CRM applications<sup>1</sup>. Revenue is driven by the number of users licensed and applications consumed, expansion of average revenue per user, and the continued shift to Dynamics 365<sup>1</sup>. Dynamics competes with other cloudbased and on-premises business solution providers, namely Oracle, Salesforce, and SAP1. The global enterprise resource planning (ERP) software market size is expected to grow at a CAGR of 11.0% from 2023-2030, driven by an increased need for operational efficiency in business processes, increasing demand for data-driven decisions, and rising adoption in mobile and cloud applications<sup>9</sup>. We forecast a CAGR of 12.8% for MSFT's Dynamics offering, given strong historical growth in this segment paired with MSFT's increased investment and presence in the cloud computing space.



Source: MSFT 10-K, HF estimates

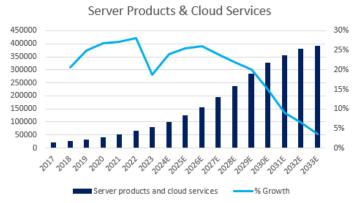
# **Intelligent Cloud**

The Intelligent Cloud segment consists of MSFT's public, private, and hybrid server products and cloud services that can power modern business and developers<sup>1</sup>, and is MSFT's largest revenue segment, comprising 41.5% of MSFT's FY 2023 total revenue. This segment primarily consists of two categories: server products and cloud services and enterprise services.

#### **Server Products & Cloud Services**

(37.7% of revenue)

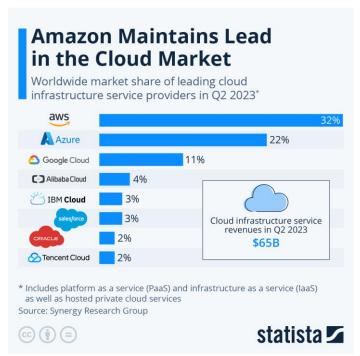
Server products and cloud services include Azure and other cloud services, SQL Server, Windows Server, Visual Studio, System Center, Related Client Access Licenses ("CALs"), Nuance, and GitHub. Azure is a significant offering for MSFT, contributing to over half of MSFT's \$110B cloud revenue in FY 2023, fueled by Azure OpenAl<sup>10</sup>. Azure revenue is primarily driven by infrastructure-as-a-service (laaS) and platform-as-a-service (PaaS) consumption-based services, as well as per user-based services.



Source: MSFT 10-K, HF estimates



Currently Azure is the second largest cloud infrastructure service provider, behind Amazon Web Services (AWS):

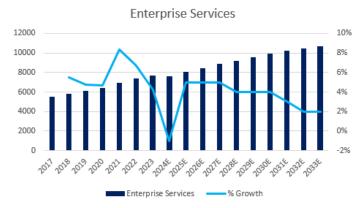


Source: Statista

#### **Enterprise Services**

(3.6% of revenue)

Enterprise services include Enterprise Support Services, Industry Solutions, and Nuance professional services, assisting customers in developing, maintaining, deploying, and managing Microsoft server solutions<sup>1</sup>. MSFT competes with a wide range of companies in this area, namely multinational consulting firms and small niche businesses focused on specific technologies. We expect this to grow at a CAGR of 2.9% over our forecast horizon, in-line with historical growth trends.



Source: MSFT 10-K, HF estimates



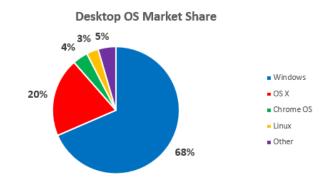
# **More Personal Computing**

The More Personal Computing segment consists of products and services more geared towards the enduser's experience with MSFT's technology. This segment consists of four categories: Windows, Devices, Gaming, and Search and news advertising.

#### **Windows**

(10.1% of revenue)

Windows includes Windows OEM, and Windows OEM revenue is significantly impacted by the number of OEM system licenses purchased by OEMs ("Original equipment manufacturers"), which they pre-install on the devices they sell<sup>1</sup>. Currently, among desktop PCs, Windows maintains a dominant market share at around 70%, with Apple's macOS having gained market share over the years, with around 20% market share<sup>7</sup>.

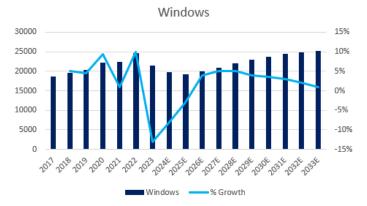


Source: StatCounter (Sep. 2023)

The global operating systems market is projected to grow at a CAGR of 1.7% through 2027, driven largely by demand for PCs and computer systems, though limited by the increased use of pirated versions of operating systems<sup>6</sup>. We forecast growth to grow at a 1.1% CAGR over our forecast horizon, given increased adoption of other operating systems as well as piracy impacting the operating systems market.





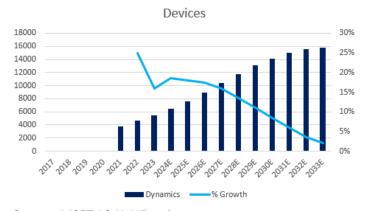


Source: MSFT 10-K, HF estimates

#### **Devices**

(2.6% of revenue)

Devices includes Surface, HoloLens, and PC accessories, with growth driven by total PC shipments, ability to attract new customers, MSFT's product roadmap, as well as the company's ability to expand into new categories<sup>1</sup>. In this area, MSFT faces competition from Apple and other computer, tablet, and hardware manufacturers<sup>1</sup>. From 2023-2027, PC devices ships are expected to grow at a CAGR of 1.9%, with recent downturn driven by high sales resulting from the COVID-19 pandemic. We forecast a CAGR of -4.1% over our forecast horizon, impacted by an expected mid-30s percentage decline in FY 2024 resulting from the overall PC market. We do expect this to increase in the future as shipments rebound.



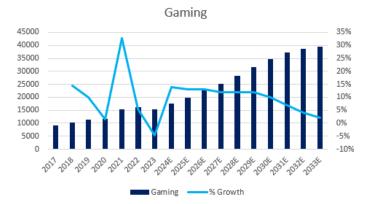
Source: MSFT 10-K, HF estimates

#### Gaming

(7.3% of revenue)

Gaming includes Xbox hardware and Xbox content and services, including Xbox Game Pass and other subscriptions, Xbox Cloud Gaming, advertising, third-party disc royalties, and other cloud services<sup>1</sup>. Xbox revenue is driven primarily by subscriptions and sales of

first and third-party content and advertising<sup>1</sup>. To expand in this area, MSFT is looking to increase the number of games available, increase the user base using Xbox enabled content, as well as providing exclusive content for gamers. A key development in this area is MSFT's planned acquisition of Activision-Blizzard, which we expect will go through given it has passed all regulatory hurdles, which would add major game franchises such as Call of Duty, Overwatch, World of Warcraft, Diablo, and Candy Crush to MSFT's ever-growing portfolio of games. However, MSFT faces strong competition in this area, namely against console platforms such as Nintendo and Sony, though we do not expect MSFT to lose market share against these two companies over our forecast horizon. This is driven by our belief that the Activision-Blizzard acquisition will go through, thereby expanding MSFT's portfolio of games paired with increased likelihood of further acquisitions going through, strong value proposition of the Xbox Game Pass, as well as the ability to effectively out-spend both Sony and Nintendo in the gaming space. We forecast this by including higherthan-consensus estimates in the near term for this segment.



Source: MSFT 10-K, HF estimates

#### **Search & News Advertising**

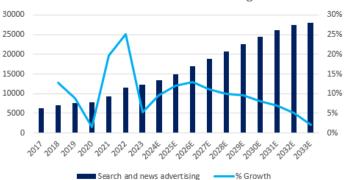
(5.8% of revenue)

Search and news advertising includes Bing, Microsoft News, Microsoft Edge, and third-party affiliates, with growth being driven mainly by MSFT's ability to attract new users, understand intent of searches, as well as matching intent with relevant content on advertising offerings<sup>1</sup>. MSFT faces strong competition in this area, namely from Google which holds an 80% market share in the online search market, as well as a wide array of websites, social platforms such as Meta, and other portals providing content and online offerings to endusers<sup>1</sup>.









Source: MSFT 10-K, HF estimates

# **Cost Structure Analysis**

The figure below shows MSFT's gross margin, operating margin, cost of revenue, and net margins over both the historical period and our forecast horizon:

MSFT Margins and COGS

80.0%

70.0%
60.0%
50.0%
40.0%
10.0%
10.0%

Total cost of revenue (excl. D&A) — Gross margin

Operating income (loss)

Net income (loss)

Source: MSFT 10-K, HF estimates

MSFT has experienced a generally upward trend in its margin, with slight fluctuation. We forecast these trends to continue moving forward and slightly increase as MSFT continues to scale and further integrate Al into its business offerings. In particular, as MSFT continues to scale, we applied a negative growth factor to operating expenses as a percent of total revenue, and expect this to decrease over our forecast horizon.

# **Debt Maturity Analysis**

The figure below shows MSFT's debt maturity schedule as of FY 2023:

**Five-Year Debt Maturity Schedule** 

Payment (\$M)
\$5,250
2,250
3,000
8,000
0
34,366
\$52,866

Source: MSFT 10-K

The figure below shows MSFT's bond rating relative to its peers in the Information Technology industry. S&P gives MSFT a rating of AAA, which is considered investment-grade. Among its peers, MSFT has the highest credit rating, with AAA, which is higher than that of US government debt. In addition, the size of MSFT's operating cash flow from the most recent fiscal year is \$87,582 million, indicating the company's ability to service their debt.

Company	Rating
Microsoft (MSFT)	AAA
Alphabet (GOOGL)	AA+
Amazon (AMZN)	AA
Apple (AAPL)	AA+
Meta Platforms (META)	AA-

Source: S&P Global

In terms of liquidity ratios, MSFT has a quick ratio of 1.75 and current ratio of 1.77 as of a fiscal year 2023. As a result of all these factors, we do not anticipate MSFT having issues repaying their debt.

#### **ESG Analysis**

ESG, standing for Environment, Social, and Governance, is a framework to assess the sustainability and ethical impact of companies based on those three metrics. We find MSFT to be well-positioned among its peers, having the lowest ESG risk rating of 15.06, or low. Among its immediate peer group, only MSFT and AAPL are considered to have low ESG risk ratings. A lower ESG risk rating considered to be better.

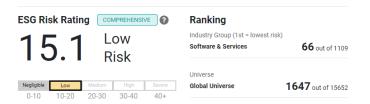
Company	ESG Risk Rating		
Microsoft (MSFT)	15.06	Low	
Alphabet (GOOGL)	24.04	Medium	
Amazon (AMZN)	30.61	High	
Apple (AAPL)	17.22	Low	
Meta Platforms (META)	34.08	High	

Source: Morningstar Sustainalytics





Financially, MSFT stands to gain from having a lower ESG risk rating, through improved investor perception, lower relative regulatory scrutiny, and assisting with long-term business sustainability. In addition, MSFT ranks highly in terms of ESG scores relative to its industry group and the global universe of companies covered by Morningstar:



Source: Morningstar Sustainalytics

This is driven by MSFT's progress towards its ESG initiatives in FY 2023, which include<sup>1</sup>:

- Overall emissions declined by 0.5%.
- Signed new power purchase agreements, bringing the total portfolio of carbon-free energy to over 13.5 gigawatts.
- Diverted 12,159 metric tons of solid waste from landfills and incinerators across their direct operational footprint.
- Protected 12,270 acres of land in Belize more than the 11,206 acres of land MSFT uses around the world.

### **RECENT DEVELOPMENTS**

# Q4 FY 2023 Earnings Announcement

MSFT announced their fourth quarter and annual earnings for FY 2023 on June 30, 2023. They reported an EPS of \$2.69 and revenue of \$55.49B, beating consensus estimates by 5.59% and 1.26%, respectively. This was primarily driven by growth in Microsoft cloud, up 27% in constant currency, accounting for \$110 billion in annual revenue<sup>2</sup>.

Looking forward, MSFT provided guidance lower than analysts' expectations, partially due to weakness in the Windows segment, as well as expectations that MSFT's AI services will impact the second half of FY 2024, as opposed to the first half. MSFT's expectations for FY 2024 for each of its offering segments are outlined below<sup>2</sup>. Relative to these estimates, we generally remain in-line, with a slightly lower forecast in server products and cloud services, given Azure is not the only product in that portfolio, as well as higher than consensus estimates for gaming, given that we anticipate the Activision-Blizzard merger to go through.

- LinkedIn: Low to mid-single digits growth, which is impacted by overall markets for recruiting and advertising, especially in the technology industry.
- Dynamics: Mid to high teens growth, driven by continued growth in Dynamics 365.
- Azure: 25-26%, driven by Office 365 momentum, and demand for cloud services.
- Enterprise services: Low to mid-single digit decline, with growth offset by a decline in Industry Solutions.
- Windows: Low to mid-teens decline, as there are no significant changes to PC demand environment, which has been on a downturn, paired with inventory build-up.
- Devices: mid-30s decline, due to overall PC environment and portfolio adjustments.
- Gaming: mid-single digits, driven by Xbox content and service offerings. We expect this to be higher over time, assuming the Activision-Blizzard acquisition is successful.
- Search and News advertising: mid-to-high single digit growth, resulting from continued volume strength, edge browser share gains, and continued investment into AI.

#### **COVID-19 Impact**

The COVID-19 pandemic had a significant impact on MSFT, with significantly increased demand for its cloud services, driven by enterprises' need to shift work remotely<sup>16</sup>. In addition, MSFT's Gaming segment saw strong growth as well, given increased usage resulting from COVID-19 stay-at-home orders<sup>3</sup>.

# **OpenAl Acquisition**

In January 2023, MSFT announced that it will be investing \$10B into OpenAl, a privately-held Al research and deployment company which owns ChatGPT, a large-language model-based chatbot which was at the time the fastest-growing software application in history<sup>16</sup>. We expect this to be very beneficial for MSFT in the long-term through integration with Azure and other offerings, with Azure powering all of OpenAl's workloads<sup>1</sup>. In addition, this technology can be integrated with Bing, MSFT's search engine, paired with potential billions in revenue per year, as Azure becomes increasingly used for Al development<sup>15</sup>. Per the current deal, MSFT will get a 75% share of OpenAl's profits until it makes back the money on its investment, after which MSFT will assume a 49% stake in the firm<sup>15</sup>.



# **Activision-Blizzard Acquisition**

On January 18, 2022, MSFT announced plans to acquire Activision Blizzard, Inc. (ATVI), a leading video game developing and publishing company, for an all-cash transaction valued at \$68.7B. In acquiring ATVI, MSFT will acquire large video game franchises such as Warcraft, Diablo, Overwatch, Call of Duty, and Candy Crush<sup>3</sup>, expanding MSFT's market share in the gaming space and increasing the value proposition of Xbox Game Pass. As it stands right now, the Activision-Blizzard deal is set to close October 13, 2023, after passing regulatory hurdles from the FTC and CMA regulatory agencies. Based on ATVI's latest financial reports, the company made \$7.52 billion, contributing to our above-consensus growth estimates. Currently, MSFT has only around \$34.4 billion in cash on its balance sheet, with \$76.5 billion in shortterm investments, and has currently not made any notes of debt financing for this acquisition.

#### **INDUSTRY TRENDS**

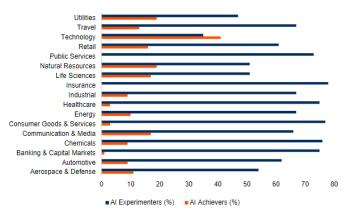
#### **Growth of AI and Generative AI**

Generative AI is a form of artificial intelligence which uses neural networks to generate new content based on a variety of user inputs, with inputs/outputs including text, images, sounds, 3D models, or other types of data<sup>22</sup>. By 2032, generative AI is poised to become a \$1.3T revenue market, with a CAGR of 42% over the next 10 years<sup>10</sup>, representing a major growth opportunity for companies that become major players in this market, such as Microsoft, Google, Nvidia, and Amazon. This growth is expected to be driven by rising demand for generative AI products, and its far-reaching applications including task automation, data analysis, increasing productivity, etc.<sup>12</sup>.

While AI adoption has grown across industries, they remain at different stages in terms of AI maturity, which can be approximated by the % of AI Achievers. Among firms marked as "AI Achievers", 30% of their revenue was the product of AI, on average<sup>12</sup>.







Source: CFRA, Accenture

Ultimately, we believe these trends will be a significant tailwind for MSFT, given their significant investment in this area and integration into their product offerings. These contribute to our overall optimistic revenue assumptions for areas in MSFT incorporating AI solutions.

#### **Growth of Cloud Computing**

Cloud computing refers to the delivery of computing services, such as servers, storage, databases, networking, etc. over the internet (or the "cloud"), which allows for companies to lower their operating costs, increase efficiency<sup>3</sup>, and allows for companies to more easily facilitate remote or hybrid work models.

The global cloud computing market is expected to grow at a CAGR of 14.1%, driven by demand for cloud computing to improve business processes, increasing need for hybrid work models<sup>9</sup>, as well as other benefits including high performance, security, and ease of scalability<sup>3</sup>.

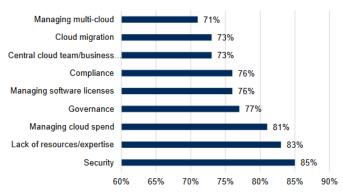
For MSFT, this is expected to greatly benefit Azure, which we factor into our server products and cloud services segment.

# **Focus on Cybersecurity**

As shown by the figure below, cybersecurity is at the top in terms of challenges facing organizations across a variety of industries in the cloud<sup>12,17</sup>. Cyberattacks can be very costly for organizations, with data breaches costing an average of \$4.45M globally (a 15% increase over 3 years)<sup>18</sup>, with cybercrime estimated to cost \$13.8T by 2028<sup>7</sup>.



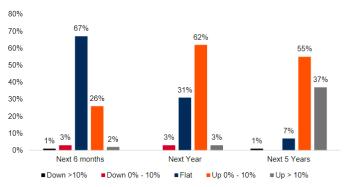
TOP CLOUD CHALLENGES FOR ALL ORGANIZATIONS



Source: Flexera

As shown in the figure below, among IT executives, the far majority are expecting to spend on cybersecurity in both the short and long-term.

EXPECTED CLOUD SOFTWARE SPENDING IN SECURITY



Source: CFRA, Battery's 2022 Cloud Software Spending Survey.

Source: CFRA

#### **MARKETS AND COMPETITION**

#### **Metric Comparisons**

For the Market Valuation and Dividend Yield metrics, we use the most recent available figures relative to our report date. For the profitability ratios, while MSFT has reported FY 2023 figures, we opt to use FY 2022 figures to create a fair comparison between all firms. As of this report, only MSFT has reported FY 2023 figures. From these figures, we can note that relative to its peers, MSFT maintains a higher operating and net margin, as well as a positive dividend yield, indicating higher profitability relative to competitors.



#### **Market Valuation & Dividend Yield**

Company	Market Cap (B)	P/E (LTM)	Div. Yield
MSFT	2,435.0	33.8	0.9%
GOOGL	1,739.0	29.1	0.0%
AMZN	1,331.7	103.2	0.0%
AAPL	2,796.2	30.1	0.5%
META	809.7	36.7	0.0%

Source: FactSet

#### **Profitability Ratios**

Company	Oper. Margin	Net Margin	ROA (%)	ROE (%)
MSFT	42.1%	36.7%	20.8%	47.2%
GOOGL	25.9%	21.4%	16.6%	23.6%
AMZN	2.6%	-0.5%	-0.6%	-1.9%
AAPL	30.3%	25.3%	28.4%	175.5%
META	28.8%	19.9%	13.2%	18.5%

Source: FactSet

# Alphabet, Inc. (GOOGL)

Alphabet, Inc. (GOOGL) is an American multinational technology conglomerate holding company, with Google as a wholly owned subsidiary, generating 99% of Alphabet's revenue<sup>8</sup>. The company engages primarily in the business of delivering online advertising, cloud-based solutions providing enterprise customers with infrastructure and platform services, and provision of communication and collaboration tools. The company operates across three business segments: Google Services, Google Cloud, and Other Bets<sup>4</sup>. Alphabet was founded by Larry Page and Sergey Brin in 2015, with Google being founded in 1998, and is headquartered in Mountain View, CA.

Currently, Alphabet dominates the online search market with over 80% market share, with MSFT's Bing being second at only 9.19%<sup>7</sup>. While we expect MSFT to gain some market share with its investment into generative Al in Bing, we do not expect this to threaten Alphabet's market leadership in the online search market.

# Amazon.com, Inc. (AMZN)

Amazon.com, Inc. (AMZN) is a multinational technology company engaging in the provision of online retail shopping services<sup>4</sup> and is one the highest-grossing e-commerce aggregators<sup>5</sup>. The company operates through three business segments: Online Stores, Third-party Seller Services, and Amazon Web Services (AWS). AMZN was



Tippie
College of
Business
The University of lowa

founded by Jeff Bezos in 1994, and is headquartered in Seattle, WA.

MSFT's Azure competes against AMZN's AWS in the cloud infrastructure services market, with AWS holding majority market share with 32% against Azure's 23% as of Q4 2022<sup>7</sup>. We expect AWS and Azure to gradually gain market share in this market from other, smaller cloud service providers as both services continue to incorporate AI in their offerings.

# Apple, Inc. (AAPL)

Apple, Inc. (AAPL) is a multinational technology company engaging in the design, manufacture, and sale of smartphones, personal computers, tablets, wearables and accessories, and other related services<sup>4</sup>. The company operates across four business segments: iPhone, Services, Wearables, Home & Accessories, and Other. AAPL was founded by Steve Wozniak, Steve Jobs, and Ronald Wayne in 1976 and is headquartered in Cupertino, CA<sup>4</sup>.

MSFT competes against AAPL in the software, hardware, and gaming spaces. Specifically, Apple's software products which compete against MSFT's office software, Apple's gaming platform, and macOS which competes against Windows. In this area, macOS has made slight market share gains, though Windows remains the dominant operating system in the desktop PC market, which we expect will hold over our forecast horizon.

# Meta Platforms, Inc. (META)

Meta Platforms (META), formerly known as Facebook, is a multinational American technology conglomerate engaging in the development of social media applications<sup>4</sup>. The company operates across two business segments: Family of Apps and Reality Labs. Meta was founded by Mark Zuckerberg, Dustin Moskovitz, Chris Hughes, and Eduardo Saverin in 2004 and is headquartered in Menlo Park, CA.

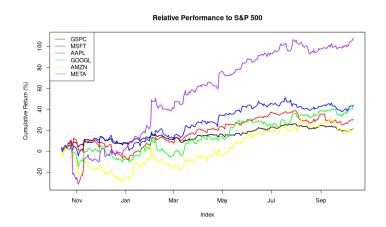
In February 2023, Zuckerberg announced that 2023 would be the "year of efficiency" for Meta following a round of layoffs, which refers to Meta's initiative towards restructuring parts of the company to achieve leaner operations, paired with significant investments into Al for use in Meta's products<sup>14</sup>. So far, these efforts have proven successful, given Meta's stronger than expected Q2 earnings and guidance, return on investments in Al,

rebound in online advertising, as well as rising monetization of Reels, Meta's TikTok competitor<sup>15</sup>.

MSFT competes with Meta with the communications tools they provide, social platforms, AI solutions, and in the gaming space via the metaverse<sup>1</sup>.

#### **Relative Performance**

Over a one-year period (10/12/2022 – 10/12/2023), MSFT outperformed both the market and most of its peer group, beaten only by META over this period, shown in the figure below. It should be noted that relative performance depends significantly on the timeframe used, so this should not be used as the sole indicator of MSFT's competitive positioning and overall performance.



Source: Yahoo Finance, quantmod R package

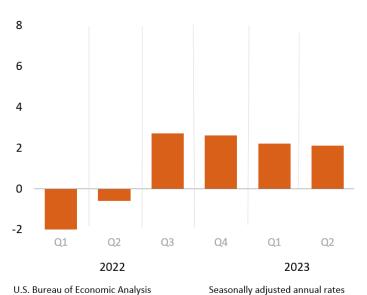
#### **ECONOMIC OUTLOOK**

#### **Real GDP Outlook**

In Q1 and Q2 of 2023, the real gross domestic product (GDP), increased at an annual report of 2.2% and 2.1%, respectively. Looking forward, the Conference Board forecasts real GDP growth to be 3.6% and 1.0% in Q3 and Q4 2023, respectively, then becoming negative in the first half 2024.



Real GDP: Percent change from preceding quarter

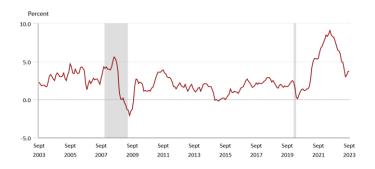


Source: U.S. Bureau of Economic Analysis

A slowing GDP would have an adverse effect on MSFT, as this would result in lower IT spending, paired with lower demand for PCs, servers, and business spending, adversely affecting revenue<sup>1</sup>. However, MSFT has stated that they have accounted for a potential slowdown, so we opt to use management expectations for forecasting in the short-term.

#### Fed Funds Rate & Inflation

The Fed Funds rate has ripple effects throughout the economy, impacting longer-term interest rates, such as mortgages, loans, and savings, which significantly impact consumer wealth and confidence. As for inflation, the US CPI has increased by 0.7% from 3.0% to 3.7% from June to September 2023.



Source: U.S. Bureau of Labor Statistics

As for Fed Funds rate hikes, consensus is pointing towards an end to further rate hikes, with rate cuts expected in 2024<sup>23</sup>. We expect interest rates to remain



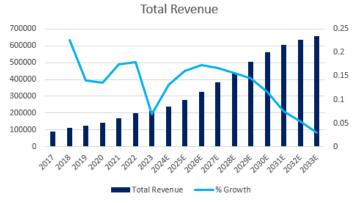
higher for longer as the inflation rate approaches the Fed's 2% target.

A regime of higher interest rates would have a negative impact on MSFT, due to increased borrowing costs, reduced consumer spending, as well as lower IT spending/business investment.

#### **VALUATION**

#### **Revenue Growth**

Our growth assumptions are based on MSFT's different offering segments with a forecasted CAGR of 11.1%. For FY 2024, we forecast revenue growth in-line with management expectations for growth or decline per offering segment. Our largest growth expectations come from the server products and cloud services segment, largely driven by growth in Azure, cloud, and Al integration. Historical revenue growth and our estimates are shown in the figure below:



Source: MSFT 10-K. HF Estimates

# **Earnings Estimates**

Compared to consensus estimates, we forecast generally than consensus expected earnings for 2024 and 2025, which we believe are driven by MSFT's strong server products offerings, continued incorporation of OpenAl's offerings into MSFT products, and expected growth from the Activision-Blizzard acquisition. For 2023, our consensus is slightly lower, as we use management guidance as a benchmark, though we are more optimistic in our forecasts.

# **WACC** Assumptions

We calculated a weighted average cost of capital (WACC) of 9.63% for MSFT, below the consensus estimate of 10.0%. This largely due to our differing assumption for





beta, which is lower than the 3yr adjusted used by FactSet. For this calculation, we used the following assumptions:

**Risk-Free Rate:** We used 4.63%, the 10-year US Treasury bond yield as of October 1, 2023.

**Beta:** We used 1.03, equal to the average of 5-year monthly beta, and 1, 2, and 3 weekly beta estimates for MSFT.

**Equity Risk Premium:** We used the Henry Fund consensus estimate of 5.00%.

**Pre-tax Cost of Debt:** We used 4.61%, equal to FactSet's estimate based on bond securities MSFT has issued.

**Tax Rate:** We used 20.8% for our forecast horizon, equal to the implied marginal tax rate of FY 2023.

We opted to use the book value of debt as a proxy for the market value of debt, given the difficulty of accurately estimating this value for MSFT.

# DCF / Economic Profit (EP)

Our discounted cash flow (DCF) and economic profit (EP) models both yielded an implied price today of \$384.30, representing an upside of 16% from the current price. We opt to use this as our primary model driving our recommendation, as the model considers more company-specific factors and allows us to incorporate growth assumptions per offering segment. Our assumption for CV growth of NOPLAT is 3.75%, equal to our final year NOPLAT growth rate.

# Relative Valuation (P/E and PEG)

For our relative valuation models, we considered MSFT's primary competitors in the Information Technology industry, as well as firms where MSFT notes they compete against for their main products. For this model, it is important to note that MSFT has reported figures for 2023, while other companies in its competitive set have not.

Our relative P/E valuation models yielded an implied price today of \$276.87 and \$252.79 based on forecasted 2023 and 2024 EPS figures, implying that it is overvalued relative to its peers. However, given how other companies have yet to report their 2023 figures, as well as the differences in business models and exposures

among each company, we do not believe these prices accurately reflect MSFT's intrinsic price.

# **Dividend Discount Model (DDM)**

Our dividend discount model (DDM) yielded an implied price of \$216.38, representing a baseline for the stock price based on the company's dividend payments. As MSFT has been growing their dividend over our historical period, we estimate dividend growth to be 10.1%, equal to the 3-year historical average. However, we do not believe this accurately reflects MSFT's intrinsic value, as it fails to consider other company-specific growth factors.

In this area, we forecast our share repurchases to be \$4 billion per year, based on historical repurchases and MSFT's \$60 billion share repurchase program.

# **KEYS TO MONITOR**

For MSFT, keys to monitor will be their continued investment into and utilization of generative AI, future of their Gaming segment and offerings if the acquisition of Activision-Blizzard is successful, growth in industries MSFT is exposed to, the broader macroenvironment environment, and regulatory pressures.

Beginning with generative AI, developments in this and the broader AI space will be important to monitor given MSFT's significant investment in this area and integration into product offerings. If growth fails to materialize in this area, MSFT would be significantly adversely affected.

Regarding the Activision-Blizzard acquisition, as of this report, we expect this to go through without any further challenges. As such, how Xbox utilizes the gaming franchises acquired from this acquisition will be important to monitor, given the significant size of the acquisition.

Given MSFT's exposure to a variety of industries (including the broader software market, cloud computing, etc.), how these industries develop will be important to monitor. Fortunately for MSFT, we expect these industries to experience strong growth over our forecast horizon.

As for the macroeconomic environment, a recession would likely lead to decreased IT/business spending, decreased consumer spending, which would have an adverse impact on MSFT's revenue.



Tippie
College of
Business
The University of lowa

Lastly, the regulatory environment, both in the U.S. and internationally, will be important to monitor. Regulatory developments may impact MSFT's ability to make acquisitions in the future,

**Summary** 

We recommend a BUY rating for MSFT, with a target price range of \$375-395 representing a current upside of up to 19% from the current price of \$331.16. Given MSFT's significant investment into AI, the expected successful acquisition of Activision-Blizzard, and exposure to several high-growth industries, we expect MSFT to be able to deliver strong growth in the future.

**REFERENCES** 

- 1. Microsoft 10-K
- 2. Microsoft Earnings
- 3. Microsoft
- 4. FactSet
- 5. Morningstar
- 6. Research and Markets
- 7. Statista
- 8. Morningstar
- 9. Grand View Research
- 10. Bloomberg Intelligence
- 11. S&P Global
- 12. CFRA July 2023 Software Industry Survey
- 13. Accenture
- 14. Meta
- **15. CNBC**
- 16. Reuters
- 17. Flexera
- 18. IBM
- 19. U.S. Bureau of Economic Analysis
- 20. U.S. Bureau of Labor Statistics
- 21. The Conference Board
- 22. Nvidia
- 23. CME Group

#### **DISCLAIMER**

Henry Fund reports are created by graduate students in the Applied Securities Management program at the University of Iowa's Tippie College of Business. These reports provide potential employers and other interested parties an example of the analytical skills, investment knowledge, and communication abilities of our students. Henry Fund analysts are not registered investment advisors, brokers or licensed financial professionals. The investment opinion contained in this report does not represent an offer or solicitation to buy or sell any of the aforementioned securities. Unless otherwise noted, facts and figures included in this report are from publicly available sources. This report is not a complete compilation of data, and its accuracy is not guaranteed. From time to time, the University of Iowa, its faculty, staff, students, or the Henry Fund may hold an investment position in the companies mentioned in this report.



Sensitivity Tables

Risk-free rate

CV Growth of NOPLAT

Beta 384.30 0.97 0.99 1.01 1.03 1.05 1.07 1.09 398.43 384.30 4.33% 429.86 421.57 413.58 405.88 391.25 4.43% 421.57 413.58 405.87 398.43 391.25 384.30 377.58 4.53% 413.58 405.87 398.43 391.24 384.30 377.58 371.08 4.63% 405.87 398.43 391.24 384.30 377.58 371.08 364.79 4.73% 398.43 391.24 384.30 377.58 371.08 364.79 358.70 358.70 4.83% 391.24 384.30 377.58 371.08 364.79 352.79 377.58 358.70 4.93% 384.29 371.08 364.79 352.79 347.07

				Pre-t	ax cost of o	debt		
	384.30	4.31%	4.41%	4.51%	4.61%	4.71%	4.81%	4.91%
E	4.25%	445.47	445.28	445.09	444.90	444.71	444.53	444.34
<u>Ē</u>	4.50%	423.31	423.14	422.97	422.79	422.62	422.45	422.28
ren	4.75%	403.15	402.99	402.84	402.68	402.52	402.36	402.21
ξ.	5.00%	384.73	384.59	384.44	384.30	384.15	384.01	383.86
Equity Risk Premium	5.25%	367.84	367.71	367.57	367.44	367.31	367.17	367.04
튄	5.50%	352.29	352.17	352.05	351.92	351.80	351.68	351.55
ω.	5.75%	337.94	337.83	337.71	337.60	337.48	337.37	337.25

	ROI assumption						
384.30	2.43%	3.43%	4.43%	5.43%	6.43%	7.43%	8.43%
1.16%	308.01	307.45	306.84	306.20	305.51	304.77	303.98
2.16%	331.86	331.24	330.58	329.87	329.11	328.30	327.43
3.16%	363.08	362.39	361.65	360.86	360.01	359.10	358.13
4.16%	405.72	404.93	404.09	403.18	402.21	401.17	400.05
5.16%	467.43	466.51	465.51	464.44	463.29	462.06	460.74
6.16%	564.73	563.58	562.34	561.01	559.58	558.04	556.40
7.16%	740.81	739.25	737.58	735.78	733.85	731.76	729.53

	Tippie College o Business
THE UNI	VERSITY OF IOW

				Normal	Cash Est. %	6 Sales		
	384.30	5.5%	6.0%	6.5%	7.0%	7.5%	8.0%	8.5%
Est.	2.00%	385.80	385.35	384.89	384.43	383.98	383.52	383.07
ou	2.10%	385.76	385.30	384.84	384.39	383.93	383.48	383.02
Inflation	2.20%	385.71	385.26	384.80	384.34	383.89	383.43	382.97
重	2.30%	385.67	385.21	384.75	384.30	383.84	383.39	382.93
56+	2.40%	385.62	385.16	384.71	384.25	383.80	383.34	382.88
20.	2.50%	385.58	385.12	384.66	384.21	383.75	383.29	382.84
	2.60%	385.53	385.07	384.62	384.16	383.71	383.25	382.79
FY 2026+								

				Forecaste	d Effective	Tax Rate		
	384.30	19%	21%	23%	25%	27%	29%	31%
	14.80%	412.26	412.26	412.26	412.26	412.26	412.26	412.26
ate	16.80%	402.95	402.95	402.95	402.95	402.95	402.95	402.95
×	18.80%	393.63	393.63	393.63	393.63	393.63	393.63	393.63
pô.	20.80%	384.30	384.30	384.30	384.30	384.30	384.30	384.30
F. Marg. Tax Rate	22.80%	374.96	374.96	374.96	374.96	374.96	374.96	374.96
2	24.80%	365.61	365.61	365.61	365.61	365.61	365.61	365.61
_	26.80%	356.26	356.26	356.26	356.26	356.26	356.26	356.26





# Microsoft Corporation (MSFT) Revenue Decomposition

McGrowth         27.1 M         28.1 M         18.7 M         24.0 M         25.5 M         26.0 M         22.0 M         20.0 M         15.0 M         9.0 M         6.5 M         3           M of Total Revenue         31.3 M         34.0 M         37.7 M         41.3 M         44.7 M         51.0 M         51.0 M         56.4 M         58.1 M         58.9 M         59.6 M         39.0 M           Office products and cloud services         13897         44862         48728         55.03 G         61.9 M         51.0 M         8.5 M         7.0 M         6.0 M         6.0 M         4.5 M         3.5 M         2.2 M           W of Total Revenue         23.7 M         22.6 M         22.5 M         10.0 M         8.5 M         7.0 M         6.0 M         4.5 M         3.5 M         2.5 M         10.0 M         8.5 M         7.0 M         6.0 M         4.0 M         3.5 M         2.2 M         11.3 M         12.2 M         11.3 M         12.2 M         11.3 M         12.2 M         11.3 M         12.2 M         10.1 M         8.3 M         6.0 M         4.0 M         3.5 M         4.0 M         3.5 M         2.0 M         2.0 M         4.0 M         3.3 M         4.0 M         3.0 M         2.0 M         4.0 M         3.0 M	Fiscal Years Ending Dec. 31	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033
Seconds														
Section   13.50   3.60   3.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.77   4.13   4.17   4.15   4.17   4.15   4.17   4.15   4.17   4.15   4.17   4.15   4.17   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.15   4.1														39331
08/07/2 448/2 472/8 500/0 614/0 614/0 729/2 729/0 838/4 8886 928/8 9218 9218 936/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 660/8 6														3.5
Memory   12.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.5%   22.														59.99
Sof Treat Revenue   23.7%   22.8%   23.0%   22.0%   22.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23.0%   23														9853
Medeone   2248   24732   21507   19786   19183   19961   2009   22007   22887   23688   24398   24886   2488   2508   2508   2608   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   2408   240								0.1000	2.000	01070	0.000		21272	2.5
S. Generh														15.09
Set   Total Revenue														2513
Garring (1370 16200 15466 17011 19923 22513 22014 21010 34793 37228 39717 3971 3971 3971 3971 3971 3971 397	% Growth	0.9%	10.0%		-8.0%			5.0%				3.0%	2.0%	1.09
S. Gonoch   S. 2.88   S. 6.9   4.79   3.400   21.00   21.00   12.00   12.00   12.00   20.00   7.00   4.00   2.00   1.00   7.00   4.00   2.00   1.00   7.00   4.00   2.00   1.00   7.00   4.00   2.00   1.00   7.00   4.00   2.00   1.00   7.00   4.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00	% of Total Revenue	13.4%	12.5%	10.1%	8.3%	6.9%	6.1%	5.5%	5.0%	4.5%	4.2%	4.0%	3.9%	3.89
N. of Total Revenue	Garning	15370	16230	15466	17631	19923	22513	25215	28241	31630	34793	37228	38717	3949
Linkedfin (1928) 13816   15146   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145   15145	% Growth	32.8%	5.6%	-4.7%	14.0%	13.0%	13.0%	12.0%	12.0%	12.0%	10.0%	7.0%	4.0%	2.09
No Control	% of Total Revenue	9.1%	8.2%	7.3%	7.4%	7.2%	6.9%	6.6%	6.4%	6.3%	6.2%	6.1%	6.1%	6.09
No of Total Revenue	LinkedIn	10289	13816	15145	16432	18404	21165	24975	28970	32737	36010	38711	40647	4145
Search and news advertising	% Grawth	27.4%	34.3%	9.6%	8.5%	12.0%	15.0%	18.0%	16.0%	13.0%	10.0%	7.5%	5.0%	2.09
Search and news advertising	% of Total Revenue	6.1%	7.0%	7.1%	6.9%	6.6%	6.5%	6.6%	6.6%	6.5%	6.4%	6.4%	6.4%	6.39
Mile														2799
No froid Revenue														2.0%
Interprine Services   6943   7407   7722   7445   8027   8418   8850   9204   9572   9955   10533   10459   1050   106000000000000000000000000000000000														4.3%
Microarch   8,3%   6,7%   4,3%   -1,0%   5,0%   5,0%   5,0%   4,0%   4,0%   4,0%   3,0%   2,0%   2,0     2,0     2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%   2,0%														10668
No Froat Revenue														2.0%
Devices   174.3   7306   5521														1.6%
Microarch   10.68   2.88   2.44   2.50   7.08   4.08   0.08   2.09   3.58   3.08   2.58   2.07   2.09   0.09   0.08   0.08   0.78   0.78   0.78   0.78   0.78   0.78   0.78   0.78   0.78   0.78   0.08   0.08   0.78   0.78   0.78   0.78   0.78   0.08   0.08   0.08   0.78   0.78   0.78   0.78   0.08   0.08   0.08   0.08   0.78   0.78   0.78   0.78   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0.08   0														4266
No froat Revenue   4.2%   3.7%   2.6%   1.7%   1.4%   1.1%   1.0%   0.9%   0.8%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0.7%   0														1.5%
Dynamics   1754   4687   5487   6443   7003   8933   10362   11761   13055   14165   1915   1540   1550   1560   1570   1560   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570   1570														0.6%
Microarch   24.9%   16.0%   12.5%   16.0%   12.5%   16.0%   12.5%   16.0%   12.5%   16.0%   12.5%   16.0%   12.5%   10.0%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.5%   2.														15851
No find Revenue   2,2%   2,6%   2,5%   2,7%   2,7%   2,7%   2,7%   2,7%   2,5%   2,5%   2,5%   2,5%   2,6%   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %   2,5 %		3734												2.0%
Other		2.20/												
Microwarth   99.11   22.5%   27.0%   24.8%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%   25.5%														2.4%
Mode   Countries														1
Total Revenue 16688 198270 211915 2383.0 278485 336649 381273 440983 504952 563329 05591 638062 656													201010	-25.5%
## Growth   17.5%   18.0%   6.9%   13.2%   16.1%   17.3%   16.7%   15.7%   14.5%   11.6%   7.5%   5.4%   2.8%   1.6%   7.5%   5.4%   2.8%   1.6%   7.5%   5.4%   2.8%   1.6%   7.5%   5.4%   2.8%   1.6%   7.5%   1.6%   7.5%   5.4%   2.8%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   1.6%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.5%   7.														0.0%
Revenue by Business Segment:														65673
Intelligent Cloud 60080 75251 87907 60000h 42.2% 25.3% 16.8% 50 of Total Revenue 35.7% 38.0% 41.5% 16.8% 50 of Total Revenue 35.7% 38.0% 41.5% 60000h 16.2% 32.7% 50 of Total Revenue 32.1% 32.0% 32.7% 50 of Total Revenue 32.1% 32.0% 32.7% 50 of Total Revenue 32.2% 30.1% 50 of Total Revenue 30 of Total Revenue	% Grawth	17.5%	18.0%	6.9%	13.2%	16.1%	17.3%	16.7%	15.7%	14.5%	11.6%	7.5%	5.4%	2.9%
Intelligent Cloud  % Growth  % Growth  % Growth  % Growth  % Of Total Revenue  35.7%  38.0%  41.5%  Productively & Business Processes  39.15 (3364)  40.27%  More Personal Computing  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093  54.093	Danasa ku Businesa Samuesta													
% Growth         24.2%         25.3%         16.8%           % of Total Revenue         35.7%         38.0%         41.5%           % Growth         16.2%         17.5%         9.3%           % of Total Revenue         32.1%         32.0%         32.7%           More Personal Computing         54093         59655         54734           % Growth         12.1%         10.3%         -8.2%           % of Total Revenue         32.2%         30.1%         25.8%           Total Revenue         18088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.8%         19.4%         6.5%           % Growth         14.8%         19.4%         6.5%           % Growth         19.5%         50.4%           Other Countries         84135         98052         105.171           % Growth         20.4%         16.5%         7.3%           % Growth         17.5%         18.0%         6.9%           Revenue Type           Frodat         <		conen	20201	97007										
% of Total Revenue         35.7%         38.0%         41.5%           Productivity & Business Processes         53915         63346         69274           % Growth         16.2%         17.5%         9.3%           % of Total Revenue         32.1%         32.0%         32.7%           More Personal Computing         5403         595.5         54734           % of Total Revenue         12.1%         10.3%         -8.2%           % of Total Revenue         18088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment         Winter Segment         8.0%         6.5%           United States         8.9353         100218         106744           % of Total Revenue         4.9.9%         50.5%         50.4%           Other Countries         8135         98052         105171           % Growth         20.4%         16.5%         7.3%           % of Total Revenue         50.1%         49.5%         7.3%           % of Total Revenue         50.1%         49.5%         6.5%           Revenue by Revenue Type         7.074         7.2732         64699           % Growth         4.5% <td></td>														
Productivity & Business Processes         53915         63364         69274           % Growth         16.2%         17.5%         9.3%           % of Total Revenue         32.1%         32.0%         32.7%           More Personal Computing         54093         56655         54734           % Growth         12.1%         10.3%         -8.2%           % Of Total Revenue         32.2%         30.1%         25.8%           Total Revenue         16.088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.5%         19.4%         6.5%           % of Total Revenue         49.9%         50.5%         50.4%           Other Countries         81135         98052         105171           % Growth         20.4%         49.5%         49.6%           Total Revenue         50.1%         49.5%         49.6%           Total Revenue         17.5%         18.0%         6.9%           Revenue Type           Product         71074         72732         6469														
% Growth     16.2%     17.5%     9.3%       % of Total Revenue     32.7%     32.0%     32.7%       More Personal Computing     54093     59655     54734       % Growth     12.1%     10.3%     48.2%       % of Total Revenue     32.2%     30.1%     25.8%       Total Revenue     168088     198270     211915       % Growth     17.5%     18.0%     6.5%       Revenue by Geographic Segment     83953     100218     106744       Wind States     83953     100218     106744       % Growth     14.8%     19.4%     6.5%       % of Total Revenue     49.9%     50.5%     50.4%       Other Countries     84135     98052     105171       % Growth     20.4%     16.5%     7.3%       % of Total Revenue     50.1%     49.5%     49.6%       Total Revenue     168088     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue by Revenue Type       Product     71074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % Growth     42.3%     36.7%     30.5%       % Growth     29.4%     17.3%     71.216														
% of Total Revenue         32.1%         32.0%         32.7%           More Personal Computing         \$4993         \$9655         \$4774           % Growth         12.1%         10.3%         *8.2%           % of Total Revenue         12.2%         30.1%         25.8%           Total Revenue         18.088         198.270         211915           % Growth         17.5%         18.0%         6.5%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.8%         19.4%         6.5%           % of Total Revenue         49.9%         50.5%         50.4%           Other Countries         84135         38052         105171           % Growth         20.4%         16.5%         7.3%           % of Total Revenue         50.1%         49.5%         49.6%           Total Revenue         180.88         198.270         211915           % Growth         4.5%         2.3%         -11.0%           % Growth         4.5%         2.3%         -11.0%           % Growth         4.5%         2.3%         -11.0%           % Growth         4.5%														
More Personal Computing         54093         59655         54734           % Growth         12.1%         10.3%         -8.2%           % of Total Revenue         168088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.8%         19.4%         6.5%           % Growth         49.9%         50.5%         50.4%           Other Countries         84135         98052         105171           % Growth         20.4%         16.5%         7.3%           % of Total Revenue         50.1%         49.5%         49.6%           Total Revenue         168088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Revenue Type         7         72732         64699           % Growth         4.5%         2.3%         -11.0%           % Growth         42.3%         36.7%         30.5%           Service & other revenue         9.0%         17.236         64699           % Growth         42.3%														
% Growth       12.1%       10.3%       -8.2%         % of Total Revenue       32.2%       30.1%       25.8%         K Growth       17.5%       18.0%       6.5%         K Growth       17.5%       18.0%       6.5%         K Growth       14.8%       19.4%       6.5%         % Growth       49.9%       50.5%       50.4%         Other Countries       8135       98052       105171         % Growth       20.4%       16.5%       7.3%         % of Total Revenue       50.1%       49.5%       7.3%         % of Total Revenue       168088       198270       211915         % Growth       17.5%       18.0%       6.9%         Revenue Type         Product       71074       72732       64699         % Growth       4.5%       2.3%       -11.0%         % Growth       4.5%       2.3%       -11.0%         % Growth       9.0       4.25%       3.05%         Service & other revenue       97014       12538       117.2%         % Growth       29.4%       29.4%       17.3%         % Growth       29.4%       29.4%       17.3%         % G														
% of Total Revenue         32.2%         30.1%         25.8%           Total Revenue         168088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.8%         19.4%         6.5%           % Growth         49.9%         50.5%         50.4%           Other Countries         81355         98052         105171           % Growth         20.4%         16.5%         7.3%           % Growth         20.4%         16.5%         7.3%           % Growth         17.5%         18.0%         6.9%           Total Revenue         50.1%         49.5%         49.6%           Total Revenue Type           Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         97014         125538         147216														
Total Revenue         168088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Geographic Segment           United States         83953         100218         106744           % Growth         14.8%         19.4%         6.5%           % of Total Revenue         49.9%         50.5%         50.4%           Other Countries         84135         98052         105171           % Growth         20.4%         16.5%         7.3%           % of Total Revenue         50.1%         49.5%         49.6%           Total Revenue         18088         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue Type           Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         42.3%         36.7%         30.5%           Service & other revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         66.5%														
Revenue by Geographic Segment     83953     100218     106744       % Growth     14.8%     19.4%     6.5%       % of Total Revenue     49.9%     50.5%     50.4%       Other Countries     81135     98052     105171       % of Total Revenue     50.1%     49.5%     49.6%       % of Total Revenue     50.1%     49.5%     49.6%       Total Revenue     168088     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue by Revenue Type       Product     71074     72732     64699       % of Total Revenue     4.5%     2.3%     +11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     12558     147216       % crowth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915														
Revenue by Geographic Segment														
United States 83953 100218 106744 % Growth 14.8% 19.4% 6.5% % of Total Revenue 49.9% 50.5% 50.4%  Other Countries 84135 98052 105171 % Growth 20.4% 16.5% 7.3% % of Total Revenue 50.1% 49.5% 49.6%  Total Revenue 168088 198270 211915 % Growth 17.5% 18.0% 6.9%  Revenue by Revenue Type  Product 71074 72732 64699 % Growth 4.5% 2.3% -11.0% % of Total Revenue 42.3% 36.7% 30.5%  Service & other revenue 97014 125538 147216 % Growth 29.4% 29.4% 17.3% % of Total Revenue 57.7% 63.3% 69.5%  Total Revenue 69.6%  Service & other revenue 97014 125538 147216 % Growth 29.4% 29.4% 17.3% % of Total Revenue 57.7% 63.3% 69.5% Total Revenue 168088 198270 211915	% Growth	17.5%	18.0%	6.9%										
United States 83953 100218 106744 % Growth 14.8% 19.4% 6.5% % of Total Revenue 49.9% 50.5% 50.4%  Other Countries 84135 98052 105171 % Growth 20.4% 16.5% 7.3% % of Total Revenue 50.1% 49.5% 49.6%  Total Revenue 168088 198270 211915 % Growth 17.5% 18.0% 6.9%  Revenue by Revenue Type  Product 71074 72732 64699 % Growth 4.5% 2.3% -11.0% % of Total Revenue 42.3% 36.7% 30.5%  Service & other revenue 97014 125538 147216 % Growth 29.4% 29.4% 17.3% % of Total Revenue 57.7% 63.3% 69.5%  Total Revenue 69.6%  Service & other revenue 97014 125538 147216 % Growth 29.4% 29.4% 17.3% % of Total Revenue 57.7% 63.3% 69.5% Total Revenue 168088 198270 211915	B													
% Growth     14.8%     19.4%     6.5%       % of Total Revenue     49.9%     50.5%     50.4%       Other Countries     84135     98052     105171       % Growth     20.4%     16.5%     7.3%       % of Total Revenue     50.1%     49.5%     48.6%       Total Revenue     16808     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue Type       Product     71074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % of Total Revenue     97014     125538     147216       % Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915			100010	10071										
% of Total Revenue     49.9%     50.5%     50.4%       Other Countries     81135     98052     105171       % Growth     20.4%     16.5%     7.3%       % of Total Revenue     50.1%     49.5%     48.6%       Total Revenue     16808     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue by Revenue Type       Product     71074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915														
Other Countries     84135     98052     105171       % of Total Revenue     20.4%     16.5%     7.3%       % of Total Revenue     168088     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue Type       Product     71074     72732     64699       % of Total Revenue     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % of Total Revenue     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915														
% Growth     20.4%     16.5%     7.3%       % of Total Revenue     50.1%     49.5%     48.6%       Total Revenue     16808     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue Type       Product     71074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915														
% of Total Revenue     50.1%     49.5%     49.6%       Total Revenue     168088     198270     211915       % Growth     17.5%     18.0%     6.9%       Revenue Type       Product     71.074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     16808     198270     211915														
Total Revenue         16808         198270         211915           % Growth         17.5%         18.0%         6.9%           Revenue by Revenue Type           Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         42.3%         36.7%         30.5%           Service & other revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         168088         188270         211915														
Revenue by Revenue Type       Product     71074     72732     64699       % Growth     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     168088     198270     211915														
Revenue Type           Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         42.3%         36.7%         30.5%           Service & other revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         16808         198270         211915	Total Revenue	168088	198270	211915										
Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         42.3%         36.7%         30.5%           Service & other revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         168088         198270         211915	% Growth	17.5%	18.0%	6.9%										
Product         71074         72732         64699           % Growth         4.5%         2.3%         -11.0%           % of Total Revenue         42.3%         36.7%         30.5%           Service & other revenue         97014         125538         147216           % Growth         29.4%         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         168088         198270         211915														
% Growth     4.5%     2.3%     -11.0%       % of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     16808     198270     211915														
% of Total Revenue     42.3%     36.7%     30.5%       Service & other revenue     97014     125538     147216       % Growth     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     16808     198270     211915														
Service & other revenue         97014         125538         147216           % Growth         29.4%         17.3%           % of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         168088         198270         211915														
% Growth     29.4%     29.4%     17.3%       % of Total Revenue     57.7%     63.3%     69.5%       Total Revenue     16808     198270     211915														
% of Total Revenue         57.7%         63.3%         69.5%           Total Revenue         168088         198270         211915	Service & other revenue	97014		147216										
Total Revenue 168088 198270 211915		29.4%	29.4%											
Total Revenue 168088 198270 211915	% of Total Revenue	57.7%	63.3%	69.5%										
	Total Revenue			211915										





Microsoft Corporation (MSFT) Income Statement

Fiscal Years Ending Dec. 31	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Total revenue	168088	198270	211915	239830	278485	326649	381273	440983	504952	563329	605591	638062	656731
Total cost of revenue (excl. D&A)	40546	48190	52002	58332	67919	79757	92939	107572	123185	137387	147719	155637	160183
Depreciation & amortization	11686	14460	13861	19524	20655	21470	22097	22705	24939	23375	23865	24266	24595
Depreciation expense	9300	12600	11000	17161	18774	20089	21168	22053	22779	23375	23865	24266	24595
Amortization expense	2386	1860	2861	2363	1881	1381	929	652	2160	0	0	0	0
Gross margin	115856	135620	146052	161975	189911	225423	266238	310706	356827	402567	434007	458160	471952
Research & development	20716	24512	27195	29695	34534	40547	46799	53972	61532	68224	73015	76546	78375
Sales & marketing	20117	21825	22759	25471	28394	32469	36939	41429	46164	50085	52322	53610	53647
General & administrative	5107	5900	7575	7512	8808	10532	11856	13680	15565	17104	18241	19032	19374
Operating income (loss)	69916	83383	88523	99297	118175	141875	170644	201624	233566	267155	290430	308972	320555
Other income (expense), net	1186	333	788	996	886	1203	1400	1549	1830	2030	2168	2298	2361
Income (loss) before income taxes	71102	83716	89311	100292	119061	143078	172044	203173	235396	269185	292598	311271	322917
Provision (benefit) for income taxes	9831	10978	16950	20861	24765	29760	35785	42260	48962	55990	60860	64744	67167
Net income (loss)	61271	72738	72361	79432	94296	113318	136259	160913	186433	213194	231737	246527	255750
Weighted average shares outstanding - basic	7547	7496	7446	7436	7450	7472	7494	7517	7541	7565	7590	7616	7642
Year end shares outstanding	7519	7464	7432	7,440	7,461	7,483	7,505	7,529	7,553	7,577	7,603	7,629	7,655
Net earnings (loss) per share - basic	8.12	9.7	9.72	10.68	12.66	15.17	18.18	21.41	24.72	28.18	30.53	32.37	33.47
Cash dividends declared per common share	2.24	2.48	2.72	3.00	3.30	3.63	4.00	4.40	4.85	5.33	5.87	6.46	7.11





Microsoft Corporation (MSFT)
Balance Sheet

Fiscal Years Ending Dec. 31	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Cash & cash equivalents	14224	13931	34704	100604	177094	282409	416961	560028	772506	969245	1171506	1379323	1584017
Short-term investments	116110	90826	76558	80715	85098	89719	94590	99727	105142	110851	116870	123216	129907
Accounts receivable, net	38043	44261	48688	54307	63070	74331	86482	100082	114680	127854	137474	144857	149077
Inventories	2636	3742	2500	3706	4281	4641	5723	6555	7420	8369	8966	9434	9730
Other current assets	13393	16924	21807	22991	24240	25556	26943	28406	29949	31575	33290	35097	37003
Total current assets	184406	169684	184257	262322	353783	476655	630700	794798	1029696	1247895	1468105	1691928	1909734
Property & Equipment, gross	111066	134058	163892	190045	216146	242248	268349	294451	320552	346654	372755	398857	424958
Accumulated depreciation	51351	59660	68251	85412	104186	124275	145442	167495	190274	213650	237514	261780	286376
Property & equipment, net	59715	74398	95641	104633	111960	117973	122907	126955	130278	133004	135241	137076	138582
Operating lease right-of-use assets	11088	13148	14346	15695	16794	17696	18436	19043	19541	19950	20286	20561	20787
Equity investments	5984	6891	9879	7997	8704	9341	9152	9558	9858	10039	10351	10630	10902
Goodwill	49711	67524	67886	67886	67886	67886	67886	67886	67886	67886	67886	67886	67886
Intangible assets, net	7800	11298	9366	7003	5122	3741	2812	2160	0	0	0	0	0
Other long-term assets	15075	21897	30601	32263	34014	35861	37809	39862	42026	44308	46714	49251	51925
Total assets	333779	364840	411976	497798	598263	729153	889701	1060262	1299285	1523083	1748583	1977332	2199816
Accounts payable	15163	19000	18095	21699	25221	29009	34295	39589	45199	50556	54307	57199	58901
Current portion of long-term debt	8072	2749	5247	5250	2250	3000	8000	0	34366	34366	34366	34366	34366
Accrued compensation	10057	10661	11009	13235	14936	17505	20641	23719	27185	30375	32610	34372	35384
Short-term income taxes	2174	4067	4152	5817	6906	8299	9979	11784	13653	15613	16971	18054	18730
Short-term unearned revenue	41525	45538	50901	57313	65801	77900	90709	104759	120171	133970	144002	151772	156186
Other current liabilities	11666	13067	14745	16380	18917	22408	26031	30105	34529	38480	41373	43603	44868
Total current liabilities	88657	95082	104149	119693	134030	158122	189656	209957	275103	303360	323629	339365	348435
Long-term debt	50074	47032	41990	42411	45037	47845	50675	53672	56503	59364	61672	63627	65114
Long-term income taxes	27190	26069	25560	33085	36208	42310	50518	57628	66099	73999	79321	83638	86124
Long-term unearned revenue	2616	2870	2912	3500	3974	4639	5473	6295	7209	8057	8651	9117	9386
Deferred income taxes	198	230	433	435	437	439	441	443	446	448	450	452	454
Operating lease liabilities	9629	11489	12728	13925	14900	15700	16357	16895	17337	17700	17998	18242	18443
Other long-term liabilities	13427	15526	17981	19429	22666	26922	31114	36075	41377	46072	49564	52230	53740
Total liabilities	191791	198298	205753	232478	257252	295976	344235	380965	464076	509000	541285	566670	581696
Common stock & paid-in capital	83111	86939	93718	103679	113641	123602	133564	143525	153487	163448	173410	183371	193333
Retained earnings (accumulated deficit)	57055	84281	118848	167984	233714	315917	418245	542115	688066	856977	1040231	1233634	1431131
Accumulated other comprehensive income (loss)	1822	-4678	-6343	-6343	-6343	-6343	-6343	-6343	-6343	-6343	-6343	-6343	-6343
Total stockholders' equity (deficit)	141988	166542	206223	265320	341012	433177	545466	679297	835210	1014082	1207298	1410662	1618121
Total Liabilities and stockholder's equity	333779	364840	411976	497798	598263	729153	889701	1060262	1299285	1523083	1748583	1977332	2199816





Historical Cash Flow Statement

Fiscal Years Ending Dec. 31	2017	2018	2019	2020	2021	2022	2023
Net income (loss)	21204	16571	39240	44281	61271	72738	72361
Depreciation, amortization, & other adjustments	8778	10261	11682	12796	11686	14460	13861
Stock-based compensation expense	3266	3940	4652	5289	6118	7502	9611
Net recognized losses (gains) on investments & derivatives	-2073	-2212	-792	-219	-1249	-409	196
Deferred income taxes	-3296	-5143	-6463	11	-150	-5702	-6059
Deferral of unearned revenue	67711	-	-	-	-	-	
Recognition of unearned revenue	-57735	-	_	-	-	_	
Accounts receivable	-925	-3862	-2812	-2577	-6481	-6834	-4087
Inventories	50	-465	597	168	-737	-1123	1242
Other current assets	1066	-952	-1718	-2330	-932	-709	-1991
Other long-term assets	-539	-285	-1834	-1037	-3459	-2805	-2833
Accounts payable	81	1148	232	3018	2798	2943	-2721
Unearned revenue		5922	4462	2212	4633	5109	5535
Income taxes		18183	2929	-3631	-2309	696	-358
Other current liabilities	386	798	1419	1346	4149	2344	2272
Other long-term liabilities	1533	-20	591	1348	1402	825	553
Net cash flows from operating activities	39507	43884	52185	60675	76740	89035	87582
Repayments of debt	-7922	-10060	-4000	-5518	-3750	-9023	-2750
Common stock issued	772	1002	1142	1343	1693	1841	1866
Common stock repurchased	-11788	-10721	-19543	-22968	-27385	-32696	-22245
Common stock cash dividends paid	-11845	-12699	-13811	-15137	-16521	-18135	-19800
Other financing activities, net	-190	-971	-675	-334	-769	-863	-1006
Net cash flows from financing activities	8408	-33590	-36887	-46031	-48486	-58876	-43935
Additions to property & equipment	-8129	-11632	-13925	-15441	-20622	-23886	-28107
Acquisition of companies, net of cash acquired, & purchases of intangible & other assets	-25944	-888	-2388	-2521	-8909	-22038	-1670
Purchases of investments	-176905	-137380	-57697	-77190	-62924	-26456	-37651
Other investing activities, net	-	-	-	-1241	-922	-2825	-3116
Maturities of investments	28044	26360	20043	66449	51792	16451	33510
Sales of investments	136350	117577	38194	17721	14008	28443	14354
Securities lending payable	-197	-98	-	-	_	-	
Net cash flows from investing activities	-46781	-6061	-15773	-12223	-27577	-30311	-22680
Effect of foreign exchange rates on cash & cash equivalents	19	50	-115	-201	-29	-141	-194
Net change in cash & cash equivalents	1153	4283	-590	2220	648	-293	20773
Cash & cash equivalents, beginning of period	6510	7663	11946	11356	13576	14224	13931
	7663	11946					





# Microsoft Corporation (MSFT) Forecasted Cash Flow Statement

Fiscal Years Ending Dec. 31	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Cash Flow at Beginning of Period	34704	100604	177094	282409	416961	560028	772506	969245	1171506	1379323
Net Income	79432	94296	113318	136259	160913	186433	213194	231737	246527	255750
Adjustments to reconcile net income to cash from operating activities:										
Depreciation, amortization, and other	19524	20655	21470	22097	22705	24939	23375	23865	24266	24595
Changes in Operating Activities:										
Accounts Receivable, net	-5619	-8763	-11261	-12151	-13600	-14598	-13175	-9620	-7383	-4220
Inventories	-1206	-576	-359	-1082	-832	-865	-949	-597	-468	-296
Other current assets	-1184	-1248	-1316	-1388	-1463	-1542	-1626	-1715	-1808	-1906
Other long-term assets	-1662	-1752	-1847	-1947	-2053	-2164	-2282	-2406	-2537	-2674
Accounts Payable	3604	3522	3789	5286	5294	5610	5357	3751	2891	1703
Accrued compensation	2226	1702	2569	3136	3078	3466	3189	2235	1762	1012
Short-term unearned revenue	6412	8488	12099	12809	14050	15411	13799	10032	7770	4414
Short-term Income taxes	1665	1089	1393	1680	1806	1869	1960	1358	1083	675
Other current liabilities	1635	2537	3492	3623	4074	4424	3951	2893	2229	1266
Long-term unearned revenue	588	474	665	834	822	914	848	594	466	269
Deferred income taxes	2	2	2	2	2	2	2	2	2	2
Long-term income taxes	7525	3122	6103	8208	7110	8471	7900	5322	4317	2486
Operating right-of-use assets	-1349	-1099	-902	-740	-607	-498	-409	-336	-275	-226
Operating lease liabilities	1197	975	800	657	539	442	363	298	244	200
Other long-term liabilites	1448	3237	4256	4193	4960	5303	4695	3492	2666	1509
Net cash from operations	114237	126661	154269	181475	206797	237618	260193	270907	281752	284561
Changes in Financing Activities:										
Common stock and additional paid-in capital	9961	9961	9961	9961	9961	9961	9961	9961	9961	9961
Accumulated other comprehensive income	0	0	0	0	0	0	0	0	0	0
Current portion of long-term debt	3	-3000	750	5000	-8000	34366	0	0	0	C
Long-term debt	421	2626	2808	2831	2996	2832	2861	2308	1955	1487
Dividends Paid	-22296	-24566	-27115	-29931	-33043	-36483	-40283	-44483	-49124	-54253
Share Repurchases	-8000	-4000	-4000	-4000	-4000	-4000	-4000	-4000	-4000	-4000
Net cash from financing activities	-19910	-18979	-17595	-16139	-32086	6677	-31461	-36214	-41208	-46804
Changes in Investing Activities:										
Property and equipment, gross	-26153	-26102	-26102	-26102	-26102	-26102	-26102	-26102	-26102	-26102
Equity and other investments	1882	-707	-637	189	-406	-300	-182	-312	-20102	-20102
Short-term investments	-4157	-4383	-4621	-4872	-5136	-5415	-5709	-6019	-6346	-6691
Net cash from investing activities	-28427	-31192	-31359	-30784	-31644	-31817	-31992	-32433	-32727	-33064
	20-727			20.04	220-4			22.23	22.27	52504
Cash and cash equivalents, end of period	100604	177094	282409	416961	560028	772506	969245	1171506	1379323	1584017





Microsoft Corporation (MSFT)
Common Size Income Statement

Fiscal Years Ending Dec. 31	2020	2021	2022	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Total revenue	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total cost of revenue (excl. D&A)	23,3%	24.1%	24.3%	24.5%	24.3%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%	24.4%
Depreciation & amortization	8.9%	7.0%	7.3%	6.5%	8.1%	7.4%	6.6%	5.8%	5.1%	4.9%	4.1%	3.9%	3.8%	3.7%
Depreciation expense	7.5%	5.5%	6.4%	5.2%	7.2%	6.7%	6.1%	5.6%	5.0%	4.5%	4.1%	3.9%	3.8%	3.7%
Amortization expense	1.5%	1.4%	0.9%	1.4%	1.0%	0.7%	0.4%	0.2%	0.1%	0.4%	0.0%	0.0%	0.0%	0.0%
Gross margin	67.8%	68.9%	68.4%	68.9%	67.5%	68.2%	69.0%	69.8%	70.5%	70.7%	71.5%	71.7%	71.8%	71.9%
Research & development	13.5%	12.3%	12.4%	12.8%	12.4%	12.4%	12.4%	12.3%	12.2%	12.2%	12.1%	12.1%	12.0%	11.9%
Sales & marketing	13.7%	12.0%	11.0%	10.7%	10.6%	10.2%	9.9%	9.7%	9.4%	9.1%	8.9%	8.6%	8.4%	8.2%
General & administrative	3.6%	3.0%	3.0%	3.6%	3.1%	3.2%	3.2%	3.1%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%
Operating income (loss)	37.0%	41.6%	42.1%	41.8%	41.4%	42.4%	43.4%	44.8%	45.7%	46.3%	47.4%	48.0%	48.4%	48.8%
Other income (expense), net	0.1%	0.7%	0.2%	0.4%	0.4%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
Income (loss) before income taxes	37.1%	42.3%	42.2%	42.1%	41.8%	42.8%	43.8%	45.1%	46.1%	46.6%	47.8%	48.3%	48.8%	49.2%
Provision (benefit) for income taxes	6.1%	5.8%	5.5%	8.0%	8.7%	8.9%	9.1%	9.4%	9.6%	9.7%	9.9%	10.0%	10.1%	10.2%
Net income (loss)	31.0%	36.5%	36.7%	34.1%	33.1%	33.9%	34.7%	35.7%	36.5%	36.9%	37.8%	38.3%	38.6%	38.9%





# Microsoft Corporation (MSFT) Common Size Balance Sheet

Fiscal Years Ending Dec. 31	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Cash & cash equivalents	8.5%	7.0%	16.4%	41.9%	63.6%	86.5%	109.4%	127.0%	153.0%	172.1%	193.4%	216.2%	241.2%
Short-term investments	69.1%	45.8%	36.1%	33.7%	30.6%	27.5%	24.8%	22.6%	20.8%	19.7%	19.3%	19.3%	19.8%
Accounts receivable, net	22.6%	22.3%	23.0%	22.6%	22.6%	22.8%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%
Inventories	1.6%	1.9%	1.2%	1.5%	1.5%	1.4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Other current assets	8.0%	8.5%	10.3%	9.6%	8.7%	7.8%	7.1%	6.4%	5.9%	5.6%	5.5%	5.5%	5.6%
Total current assets	109.7%	85.6%	86.9%	109.4%	127.0%	145.9%	165.4%	180.2%	203.9%	221.5%	242.4%	265.2%	290.8%
Property & equipment, net	35.5%	37.5%	45.1%	43.6%	40.2%	36.1%	32.2%	28.8%	25.8%	23.6%	22.3%	21.5%	21.1%
Operating lease right-of-use assets	6.6%	6.6%	6.8%	6.5%	6.0%	5.4%	4.8%	4.3%	3.9%	3.5%	3.3%	3.2%	3.2%
Equity investments	3.6%	3.5%	4.7%	3.3%	3.1%	2.9%	2.4%	2.2%	2.0%	1.8%	1.7%	1.7%	1.7%
Goodwill	29.6%	34.1%	32.0%	28.3%	24.4%	20.8%	17.8%	15.4%	13.4%	12.1%	11.2%	10.6%	10.3%
Intangible assets, net	4.6%	5.7%	4.4%	2.9%	1.8%	1.1%	0.7%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Other long-term assets	9.0%	11.0%	14.4%	13.5%	12.2%	11.0%	9.9%	9.0%	8.3%	7.9%	7.7%	7.7%	7.9%
Total assets	198.6%	184.0%	194.4%	207.6%	214.8%	223.2%	233.3%	240.4%	257.3%	270.4%	288.7%	309.9%	335.0%
Accounts payable	9.0%	9.6%	8.5%	9.0%	9.1%	8.9%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%
Current portion of long-term debt	4.8%	1.4%	2.5%	2.2%	0.8%	0.9%	2.1%	0.0%	6.8%	6.1%	5.7%	5.4%	5.2%
Accrued compensation	6.0%	5.4%	5.2%	5.5%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%
Short-term income taxes	1.3%	2.1%	2.0%	2.4%	2.5%	2.5%	2.6%	2.7%	2.7%	2.8%	2.8%	2.8%	2.9%
Short-term unearned revenue	24.7%	23.0%	24.0%	23.9%	23.6%	23.8%	23.8%	23.8%	23.8%	23.8%	23.8%	23.8%	23.8%
Other current liabilities	6.9%	6.6%	7.0%	6.8%	6.8%	6.9%	6.8%	6.8%	6.8%	6.8%	6.8%	6.8%	6.8%
Total current liabilities	52.7%	48.0%	49.1%	49.9%	48.1%	48.4%	49.7%	47.6%	54.5%	53.9%	53,4%	53.2%	53.1%
Long-term debt	29.8%	23.7%	19.8%	17.7%	16.2%	14.6%	13.3%	12.2%	11.2%	10.5%	10.2%	10.0%	9.9%
Long-term income taxes	16.2%	13.1%	12.1%	13.8%	13.0%	13.0%	13.2%	13.1%	13.1%	13.1%	13.1%	13.1%	13.1%
Long-term unearned revenue	1.6%	1.4%	1.4%	1.5%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%
Deferred income taxes	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Operating lease liabilities	5.7%	5.8%	6.0%	5.8%	5.4%	4.8%	4.3%	3.8%	3.4%	3.1%	3.0%	2.9%	2.8%
Other long-term liabilities	8.0%	7.8%	8.5%	8.1%	8.1%	8.2%	8.2%	8.2%	8.2%	8.2%	8.2%	8.2%	8.2%
Total liabilities	114.1%	100.0%	97.1%	96.9%	92.4%	90.6%	90.3%	86.4%	91.9%	90.4%	89.4%	88.8%	88.6%
Common stock & paid-in capital	49.4%	43.8%	44.2%	43.2%	40.8%	37.8%	35.0%	32.5%	30.4%	29.0%	28.6%	28.7%	29.4%
Retained earnings (accumulated deficit)	33.9%	42.5%	56.1%	70.0%	83.9%	96.7%	109.7%	122.9%	136.3%	152.1%	171.8%	193.3%	217.9%
Accumulated other comprehensive income (loss)	1.1%	-2.4%	-3.0%	-2.6%	-2.3%	-1.9%	-1.7%	-1.4%	-1.3%	-1.1%	-1.0%	-1.0%	-1.0%
Total stockholders' equity (deficit)	84.5%	84.0%	97.3%	110.6%	122.5%	132.6%	143.1%	154.0%	165.4%	180.0%	199.4%	221.1%	246.4%
Total Liabilities and stockholder's equity	198.6%	184.0%	194.4%	207.6%	214.8%	223.2%	233.3%	240.4%	257.3%	270.4%	288.7%	309.9%	335.0%





# Microsoft Corporation (MSFT) Value Driver Estimation

Fiscal Years Ending Dec. 31	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
NOPLAT:													
Total revenue	168088	198270	211915	239830	278485	326649	381273	440983	504952	563329	605591	638062	656731
Less: Total cost of revenue	40546	48190	52002	58332	67919	79757	92939	107572	123185	137387	147719	155637	160183
Less: Depreciation expense	9300	12600	11000	17161	18774	20089	21168	22053	22779	23375	23865	24266	24595
Less: Amortization Expense	2386	1860	2861	2363	1881	1381	929	652	2160	0	0	0	0
Less: Research and development	20716	24512	27195	29695	34534	40547	46799	53972	61532	68224	73015	76546	78375
Less: Sales and marketing	20117	21825	22759	25471	28394	32469	36939	41429	46164	50085	52322	53610	53647
Less: General and Administrative	5107	5900	7575	7512	8808	10532	11856	13680	15565	17104	18241	19032	19374
Plus: Implied interest on operating leases	404	511	606	661	724	774	816	850	878	901	920	935	948
EBITA	69916	83383	88523	99297	118175	141875	170644	201624	233566	267155	290430	308972	320555
Implied Marginal Tax Rate	19.70%	21.10%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%	20.80%
Adjusted Taxes													
Provision for income taxes	9831	10978	16950	20861	24765	29760	35785	42260	48962	55990	60860	64744	67167
Plus: Tax Shield on other income (expense)	234	70	164	207.08521	184.38035	250.32123	291,2773	322.26632	380.5789	422.20498	450.95628	478.08533	491.10603
Plus: Tax Shield on implied interest on operating leases	79	108	126	138	150	161	170	177	183	187	191	195	197
Total Adjusted Taxes	10144	11156	17240	21205	25100	30172	36246	42759	49526	56600	61503	65417	67855
Change in Deferred Taxes	6	-32	-203	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
NOPLAT	59778	72195	71080	78089	93073	111701	134395	158863	184039	210553	228925	243553	252698
and the States													
Invested Capital (IC):						22054	2.5700	20005	25.470	20504	43550		
Plus: Normal Cash	11810	13931	14890	16851	19567	22951	26789	30985	35479	39581	42550	44832	46144
Plus: Accounts receivable, net of doubtful accounts	38043	44261	48688	54307	63070	74331	86482	100082	114680	127854	137474	144857	149077
Plus: Inventories	2636	3742	2500	3706	4281	4641	5723	6555	7420	8369	8966	9434	9730
Plus: Other current assets	13393	16924	21807	22991	24240	25556	26943	28406	29949	31575	33290	35097	37003
Less: Accounts Payable	15163	19000	18095	21699	25221	29009	34295	39589	45199	50556	54307	57199	58901
Less: Accrued compensation	10057	10661	11009	13235	14936	17505	20641	23719	27185	30375	32610	34372	35384
Less: Income taxes	2174	4067	4152	5817	6906	8299	9979	11784	13653	15613	16971	18054	18730
Less: Short-term unearned revenue	41525	45538	50901 14745	57313	65801 18917	77900 22408	90709	104759	120171	133970 38480	144002	151772 43603	156186 44868
Less: Other current liabilities  Net Operating Working Capital	11666 -14703	13067 -13475	-11017	16380 -16588	-20622	-27643	26031 -35718	30105 -43929	34529 - <b>53210</b>	-61614	41373 -66984	-70778	-72115
Net Operating Working Capital	-14/05	-154/5	-1101/	-10088	-20022	-2/043	-33/18	-43929	-33210	-01014	-00984	-/0//8	-/2115
Plus: Property and equipment, net accumulated depreciation	59715	74398	95641	104633	111960	117973	122907	126955	130278	133004	135241	137076	138582
Plus: Operating lease right-of-use assets	11088	13148	14346	15695	16794	17696	18436	19043	19541	19950	20286	20561	20787
Plus: Intangible assets, net	7800	11298	9366	7003	5122	3741	2812	2160	0	0	0	0	0
Plus: Other long-term assets	15075	21897	30601	32263	34014	35861	37809	39862	42026	44308	46714	49251	51925
Less: Long-term income taxes	27190	26069	25560	33085	36208	42310	50518	57628	66099	73999	79321	83638	86124
Less: Long-term unearned revenue	2616	2870	2912	3500	3974	4639	5473	6295	7209	8057	8651	9117	9386
Invested Capital (IC)	49169	78327	110465	106420	107087	100679	90254	80168	65327	53591	47285	43355	43669
Free Cash Flow (FCF):													
NOPLAT	59778	72195	71080	78089	93073	111701	134395	158863	184039	210553	228925	243553	252698
Change in IC	28863	29158	32138	-4045	667	-6408	-10425	-10086	-14841	-11735	-6307	-3930	314
FCF	30915	43037	38942	82134	92406	118109	144820	168949	198880	222288	235232	247483	252384
Return on Invested Capital (ROIC):													
NOPLAT	59778	72195	71080	78089	93073	111701	134395	158863	184039	210553	228925	243553	252698
Beginning IC	20307	49169	78327	110465	106420	107087	100679	90254	80168	65327	53591	47285	43355
ROIC	294.4%	146.8%	90.7%	70.7%	87.5%	104.3%	133.5%	176.0%	229.6%	322.3%	427.2%	515.1%	582.9%
Economic Profit (EP):													
Economic Profit (EP): Beginning IC	20307	49169	78327	110465	106420	107087	100679	90254	80168	65327	53591	47285	43355
• •	20307 284.7%	49169 137.2%	78327 81.1%	110465 61.1%	106420 77.8%	107087 94.7%	100679 123.9%	90254 166.4%	80168 219.9%	65327 312.7%	53591 417.5%	47285 505.4%	43355 573.2%





Weighted Average Cost of Capital (WACC) Estimation

	Estimated WACC	9.63%
larket Value of the Firm	2,527,400.36	100.00%
MV of Total Debt	61,583.00	2.44%
PV of Operating Leases	14346	
Current Portion of LTD	5247	
Long-Term Debt	41990	
arket Value of Debt:		
MV of Equity	2,465,817.36	97.56%
Current Stock Price	\$331.16	
Total Shares Outstanding	7446	
larket Value of Common Equity:		MV Weights
After-Tax Cost of Debt	3.65%	
Marginal Tax Rate	21%	
Pre-Tax Cost of Debt	4.61%	FactSet estimate, derived from outstanding bonds
Implied Default Premium	-0.02%	
Risk-Free Rate	4.63%	US 10 Year Treasury as of 10/1/2023
ost of Debt:		
Cost of Equity	9.78%	
Equity Risk Premium	5.00%	HF consensus estimate
Beta	1.03	Avg. of 5yr monthly beta and 1,2,3 weekly betas
Risk-Free Rate	4.63%	US 10 Year Treasury as of 10/1/2023
ost of Equity:		ASSUMPTIONS:





Discounted Cash Flow (DCF) and Economic Profit (EP) Valuation Models

Key Inputs:

CV Growth of NOPLAT 3.75%
CV Year ROIC 582.86%
WACC 9.63%
Cost of Equity 9.78%

Fiscal Years Ending Dec. 31	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
DCF Model:										
Free Cash Flow (FCF)	82134	92406	118109	144820	168949	198880	222288	235232	247483	252384
Continuing Value (CV)										4273661
PV of FCF	74919	76886	89639	100258	106688	114557	116794	112738	108191	1868300
Value of Operating Assets:	2768969									
Non-Operating Adjustments										
Plus: Excess Cash	19814									
Plus: ST Investments	76558									
Plus: Equity Investments	9879									
Less: Current portion of LT Debt	-5247									
Less: Operating Lease Liab.	-12728									
Less: Long-term debt	-41990									
Less: PV of operating leases	-606									
Less: Long-term tax payable	-25560									
Less: ESOP	-1199									
Value of Equity	2787890									
Shares Outstanding	7432									
Intrinsic Value of Last FYE	\$ 375.12									
Implied Price as of Today	\$ 384.30									
EP Model:										
Economic Profit (EP)	67452	82825	101389	124700	150172	176319	204262	223764	239000	248523
Continuing Value (CV)										4230306
PV of EP	61527	68914	76949	86329	94830	101561	107322	107242	104483	1849346
Total PV of EP	2658504									
Invested Capital (last FYE)	110465									
Value of Operating Assets:	2768969									
Non-Operating Adjustments										
Plus: Excess Cash	19814									
Plus: ST Investments	76558									
Plus: Equity Investments	9879									
Less: Current portion of LT Debt	-5247									
Less: Operating Lease Liab.	-12728									
Less: Long-term debt	-41990									
Less: PV of operating leases	-606									
Less: Long-term tax payable	-25560									
Less: ESOP	-1199									
Value of Equity	2787890									
Shares Outstanding	7432									
Intrinsic Value of Last FYE	\$ 375.12									
Implied Price as of Today	\$ 384.30									





Dividend Discount Model (DDM) or Fundamental P/E Valuation Model

Fiscal Years Ending Dec. 31	2024E		2025E	2026E		2027E	2028E	2029E		2030E	2031E	2032E		2033E
EPS	\$ 10.68	\$	12.66	\$ 15.17 \$	ò	18.18	\$ 21.41	\$ 24.72	\$	28.18	\$ 30.53	\$ 32.37	\$	33.47
Key Assumptions														
CV growth of EPS	3.39%													
CV Year ROE	18.13%													
Cost of Equity	9.78%													
Future Cash Flows P/E Multiple (CV Year) EPS (CV Year)													Ś	12.72 33.47
Future Stock Price													_	425.74
Dividends Per Share	3.00		3.30	3.63		4.00	4.40	4.85		5.33	5.87	6.46		7.11
Discounted Cash Flows	3.01		3.02	3.02		3.03	3.04	3.05	Т	3.06	3.06	3.07	\$	183.85
Intrinsic Value as of Last FYE Implied Price as of Today	\$ 211.21 216.38	1												





\$331.16 \$9.72 \$10.68 34.1 31.0 14.4 2.4 2.2

#### Microsoft Corporation (MSFT)

Relative Valuation Models

			EPS	EPS			Est. Syr		
Ticker	Company	Price	2023E	2024E	P/E 23	P/E 24	EPS gr.	PEG 23	PEG 24
AAPL	Apple Inc.	\$177.49	\$6.06	\$6.55	29.29	27.10	7.4	3.96	3.66
AMZN	Amazon.com, Inc	\$127.96	\$2.21	\$3.16	57.90	40.49	49.8	1.16	0.81
GOOGL	Alphabet Inc.	\$137.58	\$5.68	\$6.72	24.22	20.47	18.4	1.32	1.11
IBM	International Business Machines Corporation	\$142.03	\$9.57	\$10.06	14.84	14.12	3.4	4.37	4.15
META	Meta Platforms Inc.	\$315.43	\$13.47	\$16.83	23.42	18.74	31.8	0.74	0.59
ORCL	Oracle Corporation	\$109.96	\$5.56	\$6.25	19.78	17.59	10.9	1.82	1.62
CRM	Salesforce, Inc.	\$207.36	\$8.02	\$9.37	25.86	22.13	26.4	0.98	0.84
INTU	Intuit	\$533.30	\$16.37	\$18.60	32.58	28.67	14.7	2.22	1.95
			Д	werage	28.48	23.67		2.07	1.84
				_			_		

Implied Relative Value:

MSFT Microsoft Corporation (MSFT)

P/E (EPS23)	\$ 276.87
P/E (EPS24)	\$ 252,79
PEG (EPS23)	\$ 289.72
PEG (EPS24)	\$ 283.46





# Microsoft Corporation (MSFT) Key Management Ratios

Fiscal Years Ending Dec. 31	2017	2018	2019	2020	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	2032E	2033E
Liquidity Ratios:																	
Current Ratio (CA/CL)	2.48	2.90	2.53	2.52	2.08	1.78	1.77	2.19	2.64	3.01	3.33	3.79	3.74	4.11	4.54	4.99	5.48
Quick Ratio (CA - Inv) / CL	2.44	2.86	2.50	2.49	2.05	1.75	1.75	2.16	2.61	2.99	3.30	3.75	3.72	4.09	4.51	4.96	5.45
Cash Ratio (Cash + Mkt. Sec.) / CL	2.06	2.29	1.93	1.89	1.47	1.10	1.07	1.51	1.96	2.35	2.70	3.14	3.19	3.56	3.98	4.43	4.92
Asset-Management Ratios:																	
Asset Turnover (Net Sales / Avg. Total Assets)		0.96	1.02	1.11	1.20	1.26	1.30	1.24	1.11	0.96	0.81	0.00	0.00	0.00	0.00	0.00	0.00
Inventory Turnover (COGS / Avg. Inv)		11.60	13.22	16.82	17.90	15.11	16.66	18.80	17.01	17.88	17.93	17.52	17.63	17.40	17.04	16.92	16.72
Accounts Receivable Turnover (Sales / Avg. AR)		4.77	4.49	4.65	4.80	4.82	4.56	4.66	4.75	4.75	4.74	4.73	4.70	4.65	4.56	4.52	4.47
Financial Leverage Ratios:																	
Debt-to-Equity Ratio (ST debt + LT debt / TSE)	1.07	0.92	0.71	0.54	0.41	0.30	0.23	0.18	0.14	0.12	0.11	0.08	0.11	0.09	0.08	0.07	0.06
Debt-to-Asset Ratio (ST debt + LT debt / Assets)	0.32	0.29	0.25	0.21	0.17	0.14	0.11	0.10	0.08	0.07	0.07	0.05	0.07	0.06	0.05	0.05	0.05
Profitability Ratios:																	
Return on Equity (NI/Beg TSE)		22.9%	47.4%	43.3%	51.8%	51.2%	43.4%	38.5%	35.5%	33.2%	31.5%	29.5%	27.4%	25.5%	22.9%	20.4%	18.1%
Return on Assets (NI / Total Assets)	8.8%	6.4%	13.7%	14.7%	18.4%	19.9%	17.6%	16.0%	15.8%	15.5%	15.3%	15.2%	14.3%	14.0%	13.3%	12.5%	11.6%
Operating Profit Margin (Opr. Profit / Sales)	24.8%	31.8%	34.1%	37.0%	41.6%	42.1%	41.8%	41.4%	42.4%	43.4%	44.8%	45.7%	46.3%	47.4%	48.0%	48.4%	48.8%
Net Profit Margin (Net Income / Sales)	23.6%	15.0%	31.2%	31.0%	36.5%	36.7%	34.1%	33.1%	33.9%	34.7%	35.7%	36.5%	36.9%	37.8%	38.3%	38.6%	38.9%
Payout Policy Ratios:																	
Dividend Payout Ratio (Dividend/EPS)	56.9%	78.1%	36.0%	35.1%	27.6%	25.6%	28.0%	28.1%	26.1%	24.0%	22.0%	20.6%	19.6%	18.9%	19.2%	20.0%	21.2%
Total Payout Ratio ((Divs. + Repurchases)/NI)	111.5%	141.3%	85.0%	86.1%	71.7%	69.9%	58.1%	28.1%	26.1%	23.9%	22.0%	20.5%	19.6%	18.9%	19.2%	19.9%	21.2%





Present Value of Operating Lease Obligations

Fiscal Years Ending Dec. 31	2016	2017	2018	2019	2020
Year 1	360.0	370.0	380.0	390.0	400.0
Year 2	310.0	320.0	330.0	340.0	350.0
Year 3	255.0	260.0	265.0	270.0	275.0
Year 4	205.0	210.0	215.0	220.0	225.0
Year 5	124.0	128.0	132.0	136.0	140.0
Thereafter	350.0	360.0	370.0	380.0	390.0
Total Minimum Payments	1604.0	1648.0	1692.0	1736.0	1780.0
Less: Cumulative Interest	227.2	233.4	239.6	245.7	251.9
PV of Minimum Payments	1376.8	1414.6	1452.4	1490.3	1528.1
Implied Interest in Year 1 Payment		63.5	65.2	67.0	68.7
Pre-Tax Cost of Debt	4.61%	4.61%	4.61%	4.61%	4.61%
Years Implied by Year 6 Payment	2.8	2.8	2.8	2.8	2.8
Expected Obligation in Year 6 & Beyond	124	128	132	136	140
Present Value of Lease Payments					
PV of Year 1	344.1	353.7	363.3	372.8	382.4
PV of Year 2	283.3	292.4	301.6	310.7	319.8
PV of Year 3	222.8	227.1	231.5	235.9	240.2
PV of Year 4	171.2	175.4	179.5	183.7	187.9
PV of Year 5	99.0	102.2	105.4	108.6	111.8
PV of 6 & beyond	256.5	263.9	271.2	278.6	286.0
Capitalized PV of Payments	1376.8	1414.6	1452.4	1490.3	1528.1





Effects of ESOP Exercise and Share Repurchases on Common Stock Account and Number of Shares Outstanding

Number of Options Outstanding (shares): 96
Average Time to Maturity (years): 3.00
Expected Annual Number of Options Exercised: 32

Current Average Strike Price: \$ 311.30
Cost of Equity: 9.78%
Current Stock Price: \$331.16

Fiscal Years Ending Dec. 31	2024E		2025E	2026E	2027E	2028E		2029E	1	2030E	2031E	2032E	2033E
Increase in Shares Outstanding:	32		32	32	32	32		32		32	32	32	32
Average Strike Price:	\$ 311.30	\$ 3	311.30 \$	311.30	\$ 311.30 \$	311.30	\$ 3	311.30 \$	3:	11.30	\$ 311.30 \$	311.30	\$ 311.30
Increase in Common Stock Account:	9,961		9,961	9,961	9,961	9,961		9,961	9	9,961	9,961	9,961	9,961
Share Repurchases (\$)	8,000		4,000	4,000	4,000	4,000		4,000		4,000	4,000	4,000	4,000
Expected Price of Repurchased Shares:	\$ 331.16	\$ 3	360.56 \$	392.58	\$ 427.44 \$	465.39	\$ 5	506.71 \$	55	51.70	\$ 600.68 \$	654.02	\$ 712.09
Number of Shares Repurchased:	24		11	10	9	9		8		7	7	6	6
Shares Outstanding (beginning of the year)	7,432		7,440	7,461	7,483	7,505		7,529		7,553	7,577	7,603	7,629
Plus: Shares Issued Through ESOP	32		32	32	32	32		32		32	32	32	32
Less: Shares Repurchased in Treasury	24		11	10	9	9		8		7	7	6	6
Shares Outstanding (end of the year)	7,440		7,461	7,483	7,505	7,529		7,553		7,577	7,603	7,629	7,655





Valuation of Options Granted under ESOP

Current Stock Price\$331.16Risk Free Rate4.63%Current Dividend Yield0.90%Annualized St. Dev. of Stock Returns25.10%

Range of Outstanding Options	Number of Shares	Average Exercise Price	Average Remaining Life (yrs)	B-S Option Price	Value of Options Granted
Range 1	5,007,656	287.97	3.00	\$ 93.01	\$ 465,754,237
Range 2	5,355,638	314.26	3.00	\$ 79.23	\$ 424,325,025
Range 3	4,416,960	334.15	3.00	\$ 69.96	\$ 309,009,630
Total	14,780,254 \$	311.30	3.00	\$ 87.15	\$ 1,199.09