

Global Software

## Microsoft Corp

Rating

### Outperform

Price Target


**660.00 USD** (647.00 OLD)


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## Microsoft: Are they overbuilding capacity?

One of the parts of the Microsoft bear case has been that it is massively spending cash to build AI capacity that will far outstrip demand. This past quarter's results incrementally assuaged that fear, but we continue to receive questions surrounding this concern. Today's note shows that 1) MSFT has added datacenter SQ FT slower than Cloud revenue; 2) MSFT has increased their future lease obligations, but it is spread over so many years that capacity will continue to grow at a benign rate; and 3) while MSFT has purchase obligations (mostly power and cooling but also hardware) on order for the next 12 months they have almost nothing beyond that. Even if AI demand were to stop Microsoft's future datacenter capacity could be shifted to supporting the growth of their existing CPU based Cloud business.

Simply stated Microsoft is not building too fast, but rather taking a surprisingly measured approach given the demand signals they are receiving and their ability to easily pivot facilities to meet demand (CPU or GPU). With capacity coming on-line quickly; hardware generally available as needed (even though some costs have gone up) the setup for the stock is really strong, and therefore we are raising our TP.

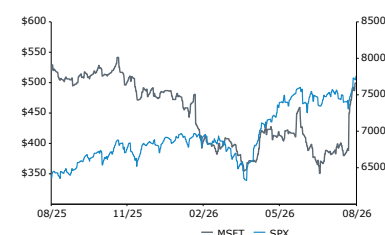
### Investment Implications

**Microsoft (MSFT, TP \$660, Outperform):** Microsoft is building flexible capacity and only buying server and related hardware to meet demand. With the future growth rate of datacenter capacity roughly in-line with the historical growth rate of their Cloud business and future lease obligations spread over as long as 20 years MSFT is not overbuilding datacenters. In addition, with no long term obligations to buy meaningful AI capacity Microsoft is procuring equipment to meet demand. Realizing that a meaningful part of the bear case is inaccurate, we strongly reiterate our Outperform rating and raise our target P/E multiple ½ turn to 27x, given what we learned.

|                        |                        |
|------------------------|------------------------|
| Close Date             | 7 Aug 2026             |
| MSFT Close Price (USD) | 499.99                 |
| Price Target (USD)     | 660.00                 |
| Upside/(Downside)      | 32%                    |
| 52-Week Range          | 553.72/349.20          |
| SPX                    | 7,757.64               |
| FYE                    | Jun                    |
| Div Yield              | 0.7%                   |
| Market Cap (USD) (B)   | 3,712.70               |
| EV (USD) (B)           | 3,764.67               |
| Performance            | YTD 1M 6M 12M          |
| Absolute (%)           | 3.4 28.6 24.6 (4.0)    |
| SPX (%)                | 13.3 3.4 11.9 22.4     |
| Relative (%)           | (9.9) 25.2 12.7 (26.4) |

Source: Bloomberg, Bernstein estimates and analysis.

Price Performance, 1YR



| Adjusted EPS | F26A  | F27E  | F28E  | Financials             | F26A    | F27E    | F28E    | CAGR  | Valuation Metrics | F26A | F27E | F28E |
|--------------|-------|-------|-------|------------------------|---------|---------|---------|-------|-------------------|------|------|------|
| MSFT (USD)   | 17.28 | 19.96 | 24.01 | Revenues (M)           | 331,839 | 392,630 | 466,335 | 18.5% | Adjusted P/E (x)  | 28.9 | 25.1 | 20.8 |
|              |       |       |       | Operating Earnings (M) | 155,237 | 187,110 | 222,918 | 19.8% | PEG Adjusted (x)  | 1.1  | 1.6  | 1.0  |
|              |       |       |       | Net Earnings (M)       | 128,786 | 148,728 | 179,591 | 18.1% | EV/Sales (x)      | 11.3 | 9.6  | 8.1  |
|              |       |       |       | Revenue/Share          | 44.52   | 52.68   | 62.34   | 18.3% | P/Sales (x)       | 11.2 | 9.5  | 8.0  |
|              |       |       |       | Operating Margin (%)   | 46.8    | 47.7    | 47.8    | --    | PEG Reported (x)  | 1.1  | 1.6  | 1.0  |
|              |       |       |       | Net Income Margin (%)  | 38.8    | 37.9    | 38.5    | --    | EV/EBIT (x)       | 24.3 | 20.1 | 16.9 |
|              |       |       |       | EPS Growth (%)         | 26.7    | 15.5    | 20.3    | --    | Div Yield (%)     | 0.7  | 0.8  | 0.9  |

Source: Bloomberg, Bernstein estimates and analysis.

See the Disclosure Appendix of this report for required disclosures, analyst certifications and other important information. Alternatively, visit our [Global Research Disclosure Website](#).

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## VALUATION COMPS TABLE

| 8/9/2026           |                | Net Cash Per Share |         | Free Cash Flow (LTM) |                | Revenue Growth | Valuation Multiples |                  |        |                   |           |
|--------------------|----------------|--------------------|---------|----------------------|----------------|----------------|---------------------|------------------|--------|-------------------|-----------|
|                    | Company        | Share Price        | \$      | % of Share Price     | Per Share (\$) | % Yield        | NTM (%)             | EV / NTM Revenue | P / FE | Price / FCF (LTM) | PEG Ratio |
| Bernstein Coverage | Adobe          | \$265.21           | (3.48)  | (1.3%)               | 24.86          | 9.4%           | 10.1%               | 3.9x             | 10.2x  | 10.3x             | 0.8x      |
|                    | Microsoft      | \$499.99           | (6.97)  | (1.4%)               | 8.99           | 1.8%           | 17.8%               | 9.6x             | 25.3x  | 55.4x             | 1.8x      |
|                    | Oracle         | \$147.02           | (46.51) | (31.6%)              | (8.13)         | N/A            | 33.0%               | 6.2x             | 18.2x  | N/A               | 3.2x      |
|                    | MongoDB        | \$398.80           | 28.66   | 7.2%                 | 7.15           | 1.8%           | 18.6%               | 9.6x             | 62.3x  | 54.3x             | 3.0x      |
|                    | Salesforce.com | \$192.74           | (32.98) | (17.1%)              | 15.67          | 8.1%           | 10.0%               | 4.0x             | 13.8x  | 10.8x             | 13.3x     |
|                    | HubSpot        | \$210.45           | 21.13   | 10.0%                | 12.64          | 6.0%           | 14.0%               | 2.4x             | 14.0x  | 15.9x             | 0.5x      |
|                    | SAP            | \$205.73           | 1.09    | 0.5%                 | 7.39           | 3.6%           | 11.5%               | 5.9x             | 23.2x  | 29.3x             | 1.4x      |
|                    | Snowflake      | \$330.49           | 0.54    | 0.2%                 | 3.43           | 1.0%           | 28.7%               | 17.7x            | 152.6x | 97.9x             | 2.9x      |
|                    | Quantinuum     | \$58.71            | 2.17    | 3.7%                 | (0.85)         | N/A            | 10.4%               | 529.9x           | N/A    | N/A               | N/A       |
|                    | Workday        | \$179.64           | 2.13    | 1.2%                 | 11.25          | 6.3%           | 11.1%               | 4.0x             | 16.1x  | 14.9x             | 1.1x      |
| Other Comp         |                |                    |         |                      |                |                |                     |                  |        |                   |           |
|                    | Autodesk       | \$249.08           | 0.93    | 0.4%                 | 12.75          | 5.1%           | 11.9%               | 6.2x             | 19.3x  | 19.3x             | 1.3x      |
|                    | ServiceNow     | \$124.88           | (3.64)  | (2.9%)               | 4.39           | 3.5%           | 20.0%               | 7.5x             | 27.4x  | 28.2x             | 1.3x      |
|                    | Amadeus        | \$66.46            | (7.15)  | (10.8%)              | 4.77           | 7.2%           | 8.6%                | 4.4x             | 15.6x  | 13.8x             | 1.5x      |
|                    | Datadog        | \$233.93           | 10.14   | 4.3%                 | 2.93           | 1.3%           | 24.4%               | 16.3x            | 86.4x  | 78.5x             | 6.5x      |

Source: Bloomberg, Bernstein analysis

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## DETAILS

There is a bear case roiling the valuations across the tech sector that AI datacenter capacity is being massively overbuilt. With Microsoft one of the main concerns has been that the company is over-investing in building capacity (datacenters and hardware) to meet AI demand that may never materialize. The relativity is quite different. While Microsoft is signing long-term leases the capacity is being added over the next 7 years under leases that range from 1 year to 20 years and can be used for growth of their existing Cloud or AI based on demand. Similarly, they are purchasing equipment to meet demand and most of their purchase commitments are for FY27 and range from power system to cooling systems all of which must be ordered in advance; electrical purchasing agreements; infrastructure services and datacenter hardware. In other words, while the numbers may look large given the time horizon and that most of what they are buying is non-AI specific the company has substantial flexibility to accelerate or decelerate adding capacity based on demand.

## PORTFOLIO MANAGER'S SUMMARY

Microsoft's stock was trending downward, but that started to reverse with the Q4 results and guidance. Even with the relatively large recent move the stock is still trading at a meaningful discount to its prior valuation multiple range. As will be discussed in this note, the Microsoft bear case is not only breaking, it is based in some ways on a misunderstanding of the story and the numbers. Today's note is going to show that:

1. Microsoft is adding capacity both for AI and non-AI businesses. Most of Microsoft's Cloud revenue ([Exhibit 6](#)) is coming from non-AI Azure and SaaS and those businesses are growing at a healthy rate. Nonetheless, AI while a smaller % of total revenue currently has a much lower margin which means that it still accounts for ~40% of Cloud COGs. Still, Microsoft's investments are not simply for AI, they are mostly for non-AI and that includes not just new capacity but replacing aging equipment every year.
2. Microsoft has been adding datacenter facilities (SQ FT) at a meaningfully lower rate than they are growing their Commercial Cloud business.
3. That Microsoft's future datacenter leases, when modeled on an annual cost of leasing basis, is growing slower than Microsoft's Commercial Cloud, no less Azure.
4. Microsoft's datacenters are designed for flexibility and can be a mix of CPU servers and GPU servers which means that as growth slows Microsoft will use their datacenters to meet Cloud demand. Interestingly enough, while investing heavily on AI they seemed to forget that the shift of on-premise servers to IaaS/PaaS is continuing and requiring growth in servers, storage etc.



5. Microsoft's FY27 hardware commitments include power systems, cooling systems, power and datacenter hardware (e.g. servers, networking equipment and storage) and therefore commitments for hardware are likely to be a fraction of the current purchase commitments. Once one considers that Microsoft is also continuing to grow their existing CPU based Cloud business and replacing existing hardware as it ages out, the amount of purchase commitments dedicated to GPUs is likely relatively small.
6. Future purchase commitments beyond FY27 are relatively small, and we believe are predominantly for power and cooling systems and possibly even power.

In other words, Microsoft is not overbuilding datacenters, even considering the substantial jump in CAPEX and additional leases.

Still there will continue to be concern, but we would recommend that investors remember that other than GPU servers everything else that Microsoft is building, leasing or buying can be used for the traditional Commercial Cloud business which has a long runway of growth ahead. In fact, we would argue that if a large Azure customer were to run into issues Microsoft can even pivot AI assets from them to 1) other customers and 2) Copilots and improving SaaS functionality. In other words, with investments not outgrowing historical norms, demand much higher than supply, and most of the investments usable across Commercial Cloud the downside risk here is minimal.

## WHAT IS THE BEAR CASE?

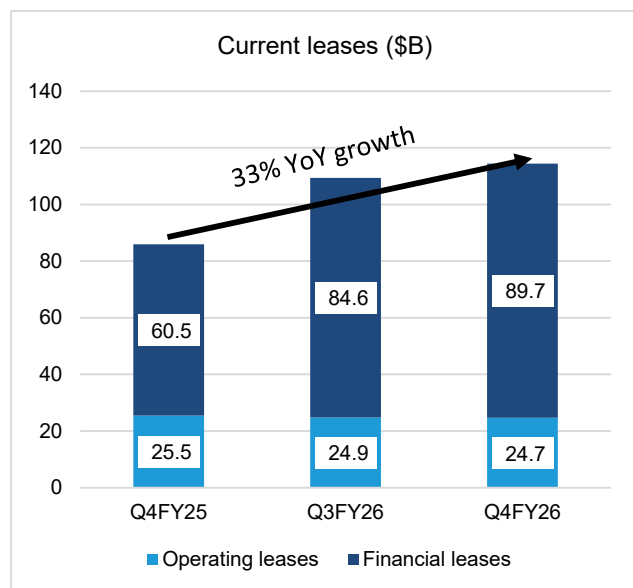
Why has there been concern surrounding Microsoft's lease liabilities and future obligations? Fundamentally investors worry about the return / margin / value Microsoft will capture from all the AI investment (datacenters and hardware). AI is a lower margin business for Microsoft but according to management every AI product's margins are improving, and we believe that will continue. Nonetheless, if the company is overbuilding as the bears are concerned, then a problem could be waiting on the horizon.

The company reports both their current leases, with some details on annual impact, and future lease obligations that have not started. Here are the high level numbers:

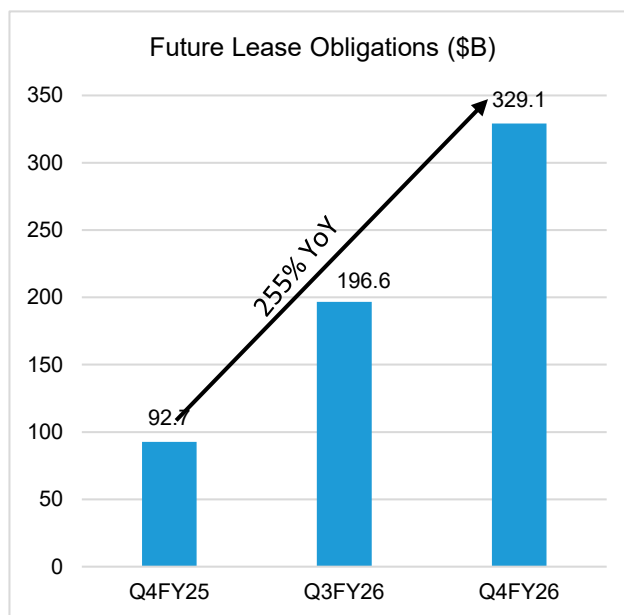
- The total dollar value of Microsoft's current leases has increased 33% YoY this year ([Exhibit 2](#))
- Future lease obligations increased 255% YoY ([Exhibit 3](#)) to reach \$329.1B.
- On the datacenter hardware side, Microsoft does not break down server / hardware obligations, but they give high level information on current year and future purchase commitments ([Exhibit 4](#)) which includes power systems (and probably electrical purchasing commitments), cooling system, non-facilities infrastructure, services, and compute hardware. For FY27, as of the end of FY26, Microsoft had \$169B in total purchase commitments. Beyond FY27 commitments, as of the end of FY26, total \$25.1B.

Those that are worried about the size of Microsoft's commitments add up total current leases + future lease obligations + purchase commitments. But as with so much the devil is in the detail and while the total numbers are large we believe that one should focus on the expense implications on an annual basis and look at those in comparison to the datacenter (CPU + GPU) capacity that Microsoft is able to deliver.

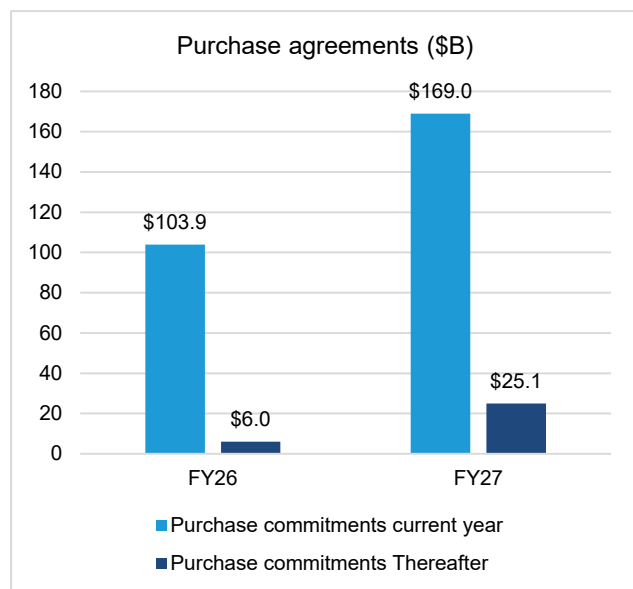
What that calculus misses is that 1) contract duration; 2) future lease obligations go-live over time; and 3) future purchase obligations (beyond 12 months) are small and 4) purchase commitments could be for operating expense items and not CAPEX. In addition, not all the leases will end up happening - one need only read the news to see that legal hurdles are increasing and construction is taking longer than contracted. The remainder of this note will try to place Microsoft's current and future obligations in perspective.

**EXHIBIT 2: The lease \$ value of current leases have increased 33% YoY as new datacenters go-live ...**

Source: Company reports, Bernstein analysis

**EXHIBIT 3: Microsoft's future lease obligations have increased through FY26, reaching \$329.1B**

Source: Company reports, Bernstein analysis

**EXHIBIT 4: Microsoft is not signing meaningful purchase obligations for power, cooling, hardware and other datacenter items for more than the upcoming year**

Source: Company reports, Bernstein analysis

## WHAT IS MICROSOFT SPENDING CAPEX AND LEASING DATACENTERS FOR?

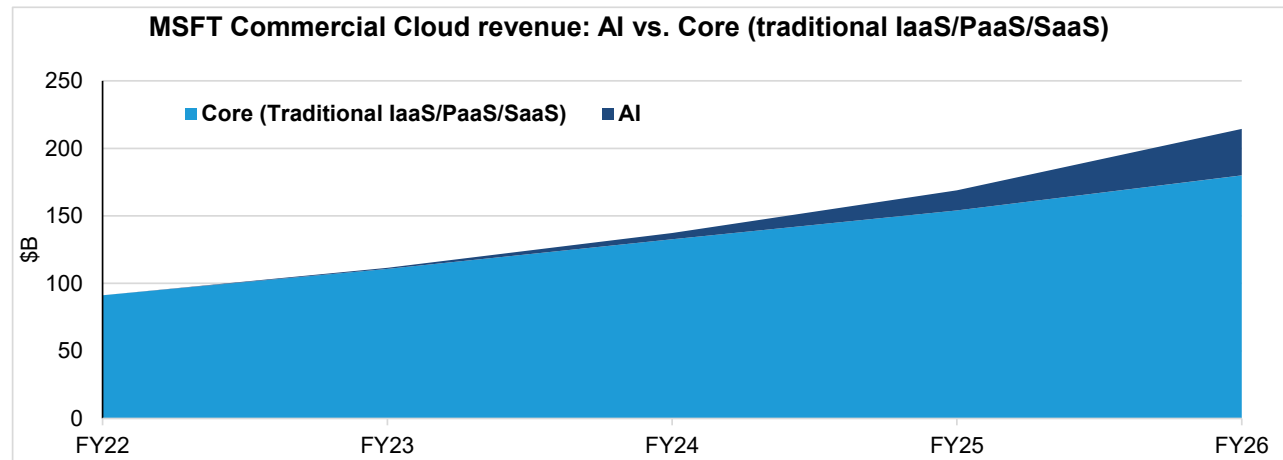
Everyone seems to be focused on how much Microsoft is spending on leases and hardware and assigning this spend to AI. This line of thought ignores the fact that Microsoft's Commercial Cloud revenue, in FY26, delivered \$214.4B growing 9% QoQ in Q4. While Microsoft has not stated how much of FY26 revenue came from AI (Copilots and Azure AI) we know that the AI ARR was \$37B as of Q3 FY26, and we can estimate the commercial Cloud ARR at that time (~\$218B). Leveraging our estimated Microsoft' AI gross margin of ~27% we can estimate that AI could be as much as 40% of COGs exiting Q3 ([Exhibit 7](#)). Note that

management has said that the gross margins for each of Microsoft AI products have been increasing QoQ so over time while AI becomes a larger percentage of revenue it will be much more slowly increasing as a percentage of COGs.

This would argue that ~40% of leases and hardware purchases are for AI but in fact Microsoft has been investing to rebuild datacenters for mixed use and has been replacing servers and other hardware as they age out, so the percentage could be incrementally smaller. One also needs to take into account the fact that SaaS AI is driving CPU revenue and as production enterprise inferencing continues to grow the pull through will increase.

Still, with Azure non-AI growing, SaaS growing and AI driving non-AI workload growth one should not use simply CAPEX, leases, or purchase commitments as a proxy for AI investment.

#### EXHIBIT 5: AI is ~16-17% of MSFT's Commercial Cloud revenue in FY26



Source: Company reports, Bernstein estimates and analysis

#### EXHIBIT 6: AI was ~17% of Microsoft's Commercial Cloud ARR as of Q3 FY26

As of Q3 FY26

|                                      |     |
|--------------------------------------|-----|
| Microsoft Commercial Cloud ARR (\$B) | 218 |
| Microsoft AI ARR (\$B)               | 37  |
| AI as % of Cloud revenue             | 17% |

Source: Company reports, Bernstein analysis and estimates

#### EXHIBIT 7: Given the lower margin of MSFT's AI revenue, at this time, we estimate that AI could account for as much as 40% of Commercial Cloud COGs and therefore leases as of Q3 FY26

|                           |     |
|---------------------------|-----|
| Microsoft AI ARR (\$B)    | 37  |
| Estimated AI Gross margin | 27% |
| COGs (\$B)                | 27  |

|                                  |     |
|----------------------------------|-----|
| Microsoft Commercial Cloud (\$B) | 218 |
| Commercial Cloud gross margins   | 69% |
| COGs                             | 68  |

|                                    |     |
|------------------------------------|-----|
| % of Commercial Cloud COGs from AI | 40% |
|------------------------------------|-----|

Source: Company reports, Bernstein analysis and estimates

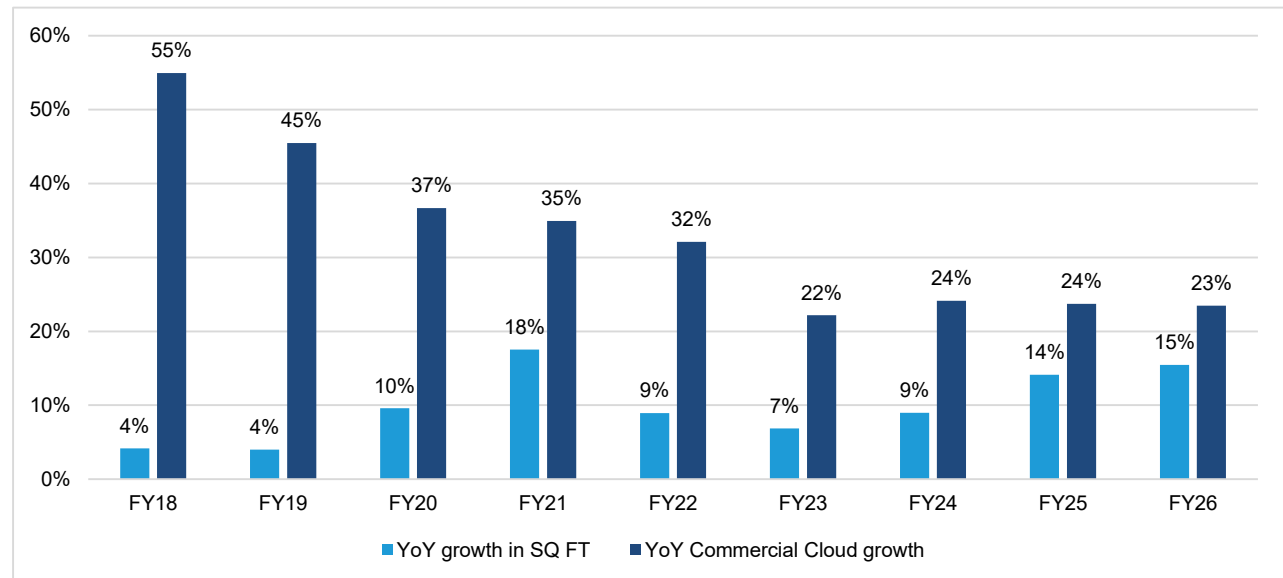
## HOW HAS MICROSOFT'S DATACENTER CAPACITY GROWN?

We start with the question of how much has Microsoft been increasing the size of their datacenters. While the company does not disclose how many SQ FT make up their datacenters (or any equivalent number) they supply in the 10Ks the total SQ FT leased and owned. Initially the SQ FT were primarily Microsoft's corporate offices, stores and other similar location but as Microsoft built out Commercial Cloud (Azure, Office 365 etc.) that shifted to mostly datacenters. Since Microsoft is not aggressively adding to the office facilities, stores (which have shrunk over time) and other facilities which make the rate of total growth is a relatively good proxy for the Cloud datacenter build-out.

Looking at the last 8 years of data we find that Microsoft's total SQ FT (owned and lease) has grown slower than Microsoft's Commercial Cloud revenue ([Exhibit 8](#)) even in FY26. Meanwhile, leased SQ FT has grown faster than owned ([Exhibit 9](#)). It is important to note that the percentage of SQ FT owned by Microsoft versus leased is important in this discussion since the cost

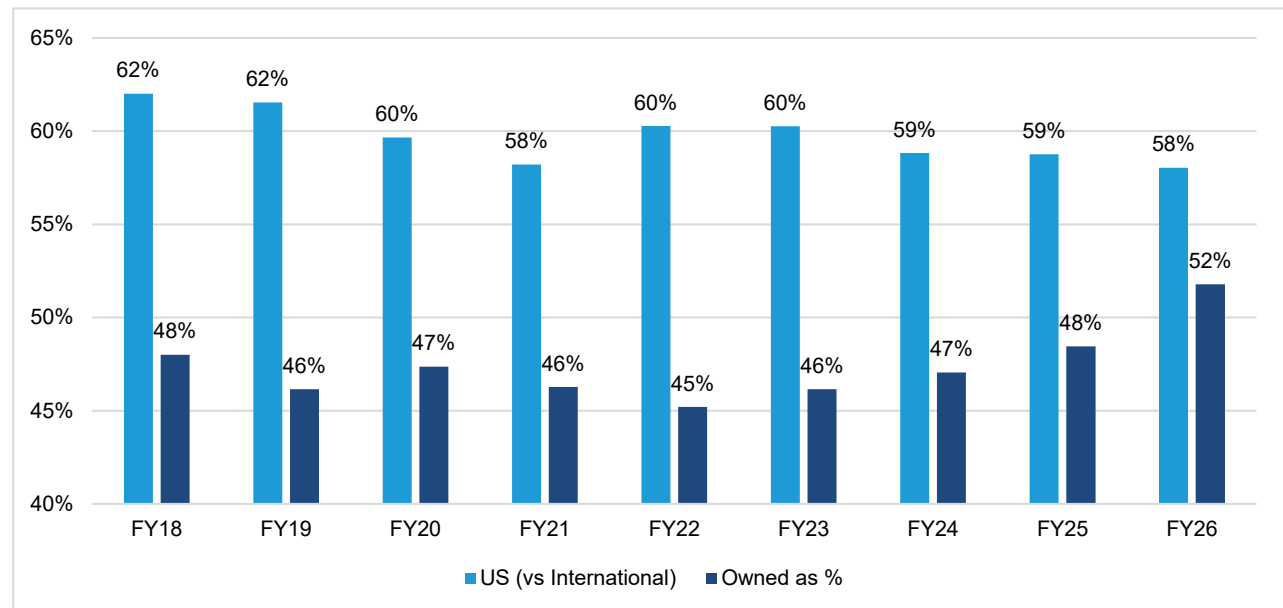
of purchasing / building these facilities are already on the balance sheet and that the cost of maintaining and operating ~ ½ of the datacenters is relatively small, even considering the recent investments in improving datacenters to supply mixed (CPU and GPU) servers.

**EXHIBIT 8: Microsoft has been growing total SQ FT slower than Commercial Cloud revenue, even with the AI buildout**



Source: Company Reports, Bernstein analysis

**EXHIBIT 9: Meanwhile, the % owned has decreased as the % in international locations has increased**



Source: Company reports, Bernstein analysis

## UNDERSTANDING CURRENT LEASE LIABILITIES

Next we turn to Microsoft's existing (as of the end of FY26) current lease liabilities. To understand what is really going on we believe one needs to understand that Microsoft's current leases, which added up to \$114.4B in Q4FY26, are in fact spread over 13 years ([Exhibit 10](#)). If we break down the leases on an annual expense basis the payments due to existing leases in fact do not

meaningful increase between now and FY31 and based purely on current leases likely decrease over time thereafter.

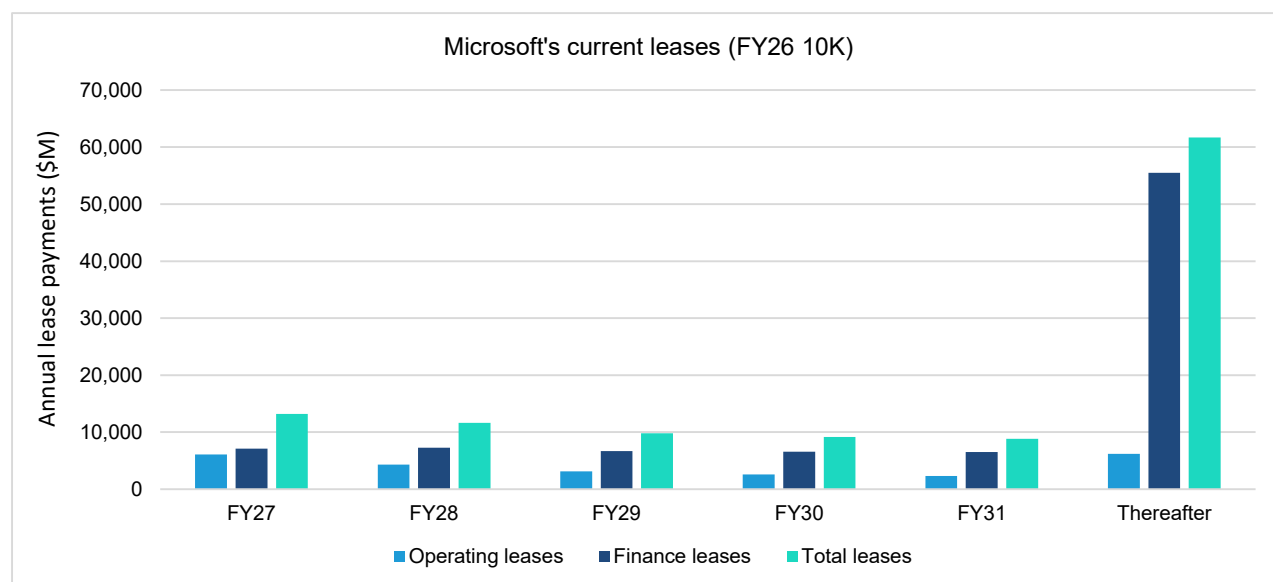
Microsoft has two types of current leases:

- Operating leases which have a weighted average Remaining Lease Term of 6 years
- Finance leases which have a weighted average Remaining Lease Term of 13 years

The original lease terms for each category would have to be at least 1 year longer given this data is based on all the existing leases signed by Microsoft. Fortunately Microsoft supplies the breakdown of how much of the current lease obligation will be realized as an expense over the next 5 years and how much thereafter ([Exhibit 10](#)).

Therefore, while the total obligation of \$114.4B is large the annual payments of \$13.2B in FY27 and decreasing thereafter is not going to be meaningful more than what Microsoft has been paying for leases already (more on this in later in the note).

#### EXHIBIT 10: Microsoft's current liabilities add up to \$114.4B spread over 13 years



Source: Company reports, Bernstein analysis

As discussed in our [Q4FY26 earnings](#) report, Microsoft has increased the useful life of datacenters from 15 years to 25 years which has an impact on future finance leases and owned datacenters.) While this shifts some future finance leases to operating leases and may extend the useful life of new datacenters (which would amortize the construction investment over a longer period of time) it will not change how much Microsoft will be paying on an annual basis in leases, just how that the obligations are categorized on the balance sheet.

## UNDERSTANDING FUTURE LEASE OBLIGATIONS

If the current lease payments are manageable and in fact decreasing each year then where is the concern?

We believe that it is mostly when one considers future lease obligations. Microsoft, in its 10-Qs and 10-Ks, details future lease obligations. In their FY 2026 10K states that:

*“As of June 30, 2026, we had additional leases, primarily for datacenters, that had not yet commenced of 329.1 billion, with some arrangements subject to certain contractual conditions being met. These leases will commence between fiscal year 2027 and fiscal year 2033 with lease terms of 1 year to 20 years.”*

We believe there are two parts to the concerns:



1. Leases that have been signed but not commenced grew substantial from the end of FY25 to the end of FY26 ([Exhibit 3](#)) reaching \$329.1B or 255% YoY.
2. Current obligations are \$114.4B but the additional, not yet commenced leases are almost 3x the size at \$329.1B

To understand what Microsoft is doing one needs to drill into the details and more specifically two time horizons:

- **Additional datacenters go live over the next 7 years:** These facilities will be turned over to Microsoft, and become a lease obligation between 2027 and 2033.
- **Lease contract obligations can be as long as 20 years:** The lease terms are 1 to 20 years.

To understand what is happening we need to make some assumptions since the company is not supplying details on:

- Do the additional leases spread evenly over the 7-year period of time
- Are all the future leases for datacenters (they could be for other parts of the business or general operations)
- What is the weighted average contract duration;

If we spread the lease go-lives even across the 7-year period of FY27 to FY33 the annual increase in lease obligations would be \$47B. We can then create a sensitivity analysis ([Exhibit 11](#)) showing how much of the \$329.1 converts into lease obligations yearly from FY27 to FY33 and how much thereafter.

If we assume that these are datacenter facilities leases similar to those we discussed in last year's expert call ([Global Software: What is in a Datacenter contract? Key takeaways from discussion with a legal expert](#)) we can assume these are probably mid-teens initial contracts durations with multiple 5-year renewal options. But what is interesting is that Microsoft says these future leases can be anywhere from 1 to 20 years<sup>1</sup> Some are likely specialized capacity agreements and neoclouds at the low end of the range while there is likely only a few really long term commitments.

For the purposes of this discussion we are going to focus on 12-15 year weighted average contract durations for the future lease obligations. It is also possible the average weighted contract duration is shorter as Microsoft has signed agreements with neoclouds and recently with Amazon ([Link](#)).

**EXHIBIT 11: Ramping the contract go-lives over 7 years and estimating an average weighted contract duration we can estimate the additional lease obligations**

|            | Average weighted lease duration |       |       |       |       |       |       |       |       |       |       |
|------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 10                              | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |
| 2027       | 4.7                             | 4.3   | 3.9   | 3.6   | 3.4   | 3.1   | 2.9   | 2.8   | 2.6   | 2.5   | 2.4   |
| 2028       | 9.4                             | 8.5   | 7.8   | 7.2   | 6.7   | 6.3   | 5.9   | 5.5   | 5.2   | 4.9   | 4.7   |
| 2029       | 14.1                            | 12.8  | 11.8  | 10.8  | 10.1  | 9.4   | 8.8   | 8.3   | 7.8   | 7.4   | 7.1   |
| 2030       | 18.8                            | 17.1  | 15.7  | 14.5  | 13.4  | 12.5  | 11.8  | 11.1  | 10.4  | 9.9   | 9.4   |
| 2031       | 23.5                            | 21.4  | 19.6  | 18.1  | 16.8  | 15.7  | 14.7  | 13.8  | 13.1  | 12.4  | 11.8  |
| 2032       | 28.2                            | 25.6  | 23.5  | 21.7  | 20.1  | 18.8  | 17.6  | 16.6  | 15.7  | 14.8  | 14.1  |
| 2033       | 32.9                            | 29.9  | 27.4  | 25.3  | 23.5  | 21.9  | 20.6  | 19.4  | 18.3  | 17.3  | 16.5  |
| Thereafter | 197.5                           | 209.4 | 219.4 | 227.8 | 235.1 | 241.3 | 246.8 | 251.7 | 256.0 | 259.8 | 263.3 |

Source: Company reports, Bernstein analysis and estimates

Adding up the existing lease obligations ([Exhibit 10](#)) with the estimated weighted average contract duration for the leases that have not commenced we can estimate the annual payments ([Exhibit 12](#)) and the YoY growth rate that would currently happen if:

<sup>1</sup> This is down from the May 2026 10-K which stated 1 year to 21 years. It is possible a 21 year contract went live or it is possible that the duration changed / was wrong in the filing.

- All the future obligations go-live evenly in FY27-FY33. It is quite likely they do not go-live uniformly, but this is as good an assumption as we can make right now
- The weighted average contract duration is 12–15 years
- None of the existing leases renew for additional periods of time.

We can see a major jump in YoY lease payment growth and therefore likely SQ FT in FY27. While it is likely that the go-live distribution is not uniform, a large YoY jump would mean that Microsoft is gaining a lot more powered SQ FT which would mean that 1) Cloud would accelerate and 2) the demand / supply inequality would mostly disappear.

**EXHIBIT 12: Combining the current annual lease obligations (\$B) with our estimated future annual obligations we can model total lease obligations thru FY31 ...**

|       | 12 yrs | 13 yrs | 14 yrs | 15 yrs |
|-------|--------|--------|--------|--------|
| FY25A | 13.9   | 13.9   | 13.9   | 13.9   |
| FY27E | 17.1   | 16.8   | 16.6   | 16.3   |
| FY28E | 19.5   | 18.9   | 18.3   | 17.9   |
| FY29E | 21.6   | 20.7   | 19.9   | 19.2   |
| FY30E | 24.9   | 23.6   | 22.6   | 21.7   |
| FY31E | 28.8   | 27.3   | 26.0   | 24.9   |

Source: Bernstein analysis and estimates

**EXHIBIT 13: ... and the YoY growth rate in lease expenses as well as an average growth rate which would be relatively in-line with historical norms**

|         | 12 yrs | 13 yrs | 14 yrs | 15 yrs |
|---------|--------|--------|--------|--------|
| FY27E   | 23%    | 21%    | 19%    | 17%    |
| FY28E   | 14%    | 12%    | 11%    | 10%    |
| FY29E   | 11%    | 10%    | 8%     | 7%     |
| FY30E   | 15%    | 14%    | 14%    | 13%    |
| FY31E   | 16%    | 15%    | 15%    | 14%    |
| Average | 16%    | 14%    | 13%    | 12%    |

Source: Bernstein analysis and estimates

## ARE THESE OBLIGATIONS NON-CANCELABLE AND GUARANTEED?

If we look at the wording that Microsoft uses in the 10-Qs and 10-K we find two interesting points:

1. Microsoft states that “*some arrangements subject to certain contractual conditions being met*”. In other words, not all of the \$329.1B will convert into current obligations due to contractual conditions not being met. One need only read the news articles to see that datacenters are being delayed and / or construction halted due to a wide range of issues including an increasing focus at the state and local level on halting local datacenter construction.
2. Microsoft does not define these leases as unconditional or non-cancelable which means that in addition to cancellation due to cause there are likely, at least in some of these agreements the right for Microsoft to cancel for a termination fee.

We therefore believe that not all of these not yet commenced additional leases will convert into expenses which would mean that annual lease expenses would likely grow slower.

## WHAT ABOUT MICROSOFT OWNED DATACENTERS?

We have no way, at this time, to estimate how much owned datacenters SQ FT will increase but given the relatively small future construction commitments we would suspect that owned as a percentage of total will continue to decrease at least near term. This would both allow Microsoft to focus on delivering Cloud capacity and also decrease upfront cash payments for purchasing land and building datacenters as the company spend aggressively on adding capacity to meet demand. Long term we would expect them to return to building more of their datacenters.

## WHY ARE DOLLAR SPENT GROWING FASTER THAN SQ FT?

When we turn to the dollars spent on leases, which are spent predominantly on datacenters, we find that the dollars spent have increased much faster recently than SQ FT at 33% YoY from FY25 to FY26 ([Exhibit 2](#)). While we don't have an exact answer we believe there are 3 reasons:

1. The cost of mixed use datacenters (capable of supporting any proportion of GPU AI servers and traditional CPU servers) are more expensive than traditional CPU only datacenters due at a minimum to power and cooling requirements.

2. Demand for powered datacenters located close to demand has increased and likely driven up the cost for Microsoft (and the rest of the world) for datacenters.
3. In addition, impacting CAPEX is the rebuilding of existing datacenter to support mixed use which has been ongoing since 2019. We suspect that these costs have increased CAPEX and will continue for a while but given the step-down in CAPEX allocated to land, building and **improvement** is shrinking this headwind likely peaked if not is turning a corner.

While CAPEX has been growing fast and the company has accelerated their commitments to future leases (with the vast majority most likely for datacenters), the underlying story is in fact far better than the high level numbers would lead one to believe. In fact, we would argue that Microsoft has been very thoughtful in the growth of current liabilities and future commitments.

## MICROSOFT'S HARDWARE COMMITMENTS

Turning next to the last and in some ways most impactful part of spending to add capacity to support Cloud and AI - hardware spending.

In the FY25 and FY26 10Ks Microsoft details "Purchase commitments primarily relate to datacenters and include open purchase orders and take-or-pay contracts that are not presented as construction commitments". These commitments are related to semiconductors, networking equipment, power systems, cooling equipment, power, and other key components of their datacenters.

If we look at the last two 10Ks we find that:

- For FY26 (as of the end of FY25) Microsoft had \$103.9B. For FY27 and beyond Microsoft's purchase commitments were \$6.0B.
- For FY27 (as of the end of FY26) Microsoft had \$169B. For FY28 and beyond Microsoft's purchase commitments were \$25.0B.

In other words, Microsoft is obligating itself for the hardware, infrastructure equipment, power systems and power itself for the next 12 months and has no meaningful commitments beyond that. This would explain why Microsoft announced in Q3FY26 a substantial increase in CAPEX due to hardware price increases - they had no locked-in long-term agreements for hardware components.

We would expect that the quadrupling of purchase commitments beyond 12 months is to lock-in key components (including power and cooling systems) and while it could be for server hardware we believe it for much more than server components.

This would mean that if AI was the bubble that some argue then Microsoft may be stuck with datacenters but not AI specific hardware, which is the far larger cost of AI. The datacenter space could then be repositioned for Microsoft's Cloud and internal use within a couple of years (canceling/ not renewing neocloud contracts, not renewing existing datacenter leases etc.) or subleasing to others for Cloud usage.

## WHAT WOULD MICROSOFT DO IF SUPPLY OUTSTRIPS DEMAND?

One of the key concerns that investors have relating to Microsoft (beyond CAPEX growth, which was partially answered with the Q4 guidance) is what would happen if AI supply suddenly was far greater than supply. Whether this was caused by "AI is a bubble" or a major customer having a problem meeting their non-cancelable contractual commitments, the problem is roughly the same with a global bubble worse of course. We believe that the company has built with flexibility in mind and with datacenters SQ FT capable of being used either for CPU or GPU and the decision made at the last minute they can shift new capacity around. They can also delay owned datacenters from coming on-line, cancel lease commitments (even if small fees are required) or even turn the lights off if needed (which would have a relatively small impact on margins and cash).

Amy Hood, in response to our question on the Q4FY26 earnings call laid out many of the components to the answer:

- "... currently, the situation is obviously that demand exceeds available supply in a sort of relatively extreme moment"

- “a lot of the expense, especially you see it in CAPEX, you've seen our CAPEX really pivot toward what I would call and do call short-lived assets,”
- “if the demand environment changes, you just slow down what is in fact the largest component, right, and the driver of COGS”
- “[leases are] a smaller percentage of the overall cost structure... timing can be changed on much of that, especially on the builds or you can stagger the timing of the build-out of ... some of the GPUs and CPUs that you plan to put in.”

In other words, Microsoft has enormous flexibility in how the time and leverage the long-term assets they buy / build and the hardware that they purchase more on demand than in advance. Adding to their own supply side flexibility is the fact that they have a diverse book of business by geo, by segment, by industry. As Amy said: “when you have the ability to late bind some of the more expensive components in short term, you have a big book of business that's flexible.”

**The bottom line is that hardware CAPEX, which is currently the biggest component of the CAPEX and the COST is not a long term contracted expense and Microsoft can be incredibly flexible with this. Then combine this with a reasonable mid-teens growth of long-term lease expenses and Microsoft's strong balance and core Cloud portfolio - we believe Microsoft will not be in an over-leveraged position.**

## APPENDIX - FINANCIAL FORECASTS

## EXHIBIT 14: MSFT Income Statement

\$ Millions &amp; Pro Forma, except otherwise noted

| <b>Income Statement (PF)</b>             | <b>FY2024</b>  | <b>FY2025</b>  | <b>FY2026</b>  | <b>FY2027E</b> | <b>FY2028E</b> | <b>Q127E</b>  | <b>Q227E</b>  | <b>Q327E</b>  | <b>Q427E</b>  |
|------------------------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Revenue                                  | 245,122        | 281,724        | 331,839        | 392,630        | 466,335        | 91,475        | 95,942        | 98,608        | 106,605       |
| Cost of revenue                          | 74,114         | 87,831         | 106,374        | 129,704        | 158,894        | 30,010        | 32,149        | 32,821        | 34,723        |
| Gross Profit                             | 171,008        | 193,893        | 225,465        | 262,926        | 307,441        | 61,464        | 63,793        | 65,787        | 71,882        |
| Research and development                 | 29,510         | 32,488         | 35,562         | 39,037         | 43,331         | 8,879         | 9,354         | 9,807         | 10,997        |
| Sales and marketing                      | 24,456         | 25,654         | 26,710         | 28,046         | 31,411         | 6,003         | 6,913         | 7,155         | 7,975         |
| General and administrative               | 7,609          | 7,223          | 7,956          | 8,734          | 9,782          | 1,969         | 2,125         | 2,124         | 2,516         |
| Goodwill impairment / Employee severance | -              | -              | -              | -              | -              | -             | -             | -             | -             |
| <b>Total opex &amp; COGS</b>             | <b>135,689</b> | <b>153,196</b> | <b>176,602</b> | <b>205,520</b> | <b>243,418</b> | <b>46,861</b> | <b>50,542</b> | <b>51,906</b> | <b>56,210</b> |
| <b>Operating income</b>                  | <b>109,433</b> | <b>128,528</b> | <b>155,237</b> | <b>187,110</b> | <b>222,918</b> | <b>44,614</b> | <b>45,400</b> | <b>46,702</b> | <b>50,395</b> |
| Other income                             | (1,646)        | (4,901)        | 4,145          | (1,200)        | (1,200)        | (300)         | (300)         | (300)         | (300)         |
| <b>EBT</b>                               | <b>107,787</b> | <b>123,627</b> | <b>159,382</b> | <b>185,910</b> | <b>221,718</b> | <b>44,314</b> | <b>45,100</b> | <b>46,402</b> | <b>50,095</b> |
| Taxes                                    | 19,651         | 21,795         | 30,596         | 37,182         | 42,126         | 8,863         | 9,020         | 9,280         | 10,019        |
| <b>Net income (PF)</b>                   | <b>88,136</b>  | <b>101,832</b> | <b>128,786</b> | <b>148,728</b> | <b>179,591</b> | <b>35,451</b> | <b>36,080</b> | <b>37,121</b> | <b>40,076</b> |
| Basic EPS (\$)                           | 11.86          | 13.70          | 17.34          | 20.00          | 24.07          | 4.77          | 4.85          | 4.99          | 5.38          |
| <b>Diluted EPS (\$, PF)</b>              | <b>11.80</b>   | <b>13.64</b>   | <b>17.28</b>   | <b>19.96</b>   | <b>24.01</b>   | <b>4.76</b>   | <b>4.84</b>   | <b>4.98</b>   | <b>5.37</b>   |
| Basic share count (M)                    | 7,431          | 7,433          | 7,429          | 7,435          | 7,463          | 7,428         | 7,432         | 7,436         | 7,444         |
| Diluted share count (M)                  | 7,468          | 7,465          | 7,453          | 7,453          | 7,480          | 7,443         | 7,452         | 7,453         | 7,461         |
| <b>Key ratios (PF)</b>                   |                |                |                |                |                |               |               |               |               |
| Gross margin                             | 69.8%          | 68.8%          | 67.9%          | 67.0%          | 65.9%          | 67.2%         | 66.5%         | 66.7%         | 67.4%         |
| R&D as % of sales                        | 12.0%          | 11.5%          | 10.7%          | 9.9%           | 9.3%           | 9.7%          | 9.8%          | 9.9%          | 10.3%         |
| S&M as % of sales                        | 10.0%          | 9.1%           | 8.0%           | 7.1%           | 6.7%           | 6.6%          | 7.2%          | 7.3%          | 7.5%          |
| G&A as % of sales                        | 3.1%           | 2.6%           | 2.4%           | 2.2%           | 2.1%           | 2.2%          | 2.2%          | 2.2%          | 2.4%          |
| Operating margin                         | 44.6%          | 45.6%          | 46.8%          | 47.7%          | 47.8%          | 48.8%         | 47.3%         | 47.4%         | 47.3%         |
| Tax rate                                 | 18.2%          | 17.6%          | 19.2%          | 20.0%          | 19.0%          | 20.0%         | 20.0%         | 20.0%         | 20.0%         |
| Net margin                               | 36.0%          | 36.1%          | 38.8%          | 37.9%          | 38.5%          | 38.8%         | 37.6%         | 37.6%         | 37.6%         |
| <b>YoY change</b>                        |                |                |                |                |                |               |               |               |               |
| Revenue                                  | 16%            | 15%            | 18%            | 18%            | 19%            | 17.8%         | 18.0%         | 19.0%         | 18.4%         |
| Cost of revenue                          | 13%            | 19%            | 21%            | 22%            | 23%            | 24.8%         | 23.8%         | 22.3%         | 17.6%         |
| Gross Profit                             | 17%            | 13%            | 16%            | 17%            | 17%            | 14.6%         | 15.4%         | 17.4%         | 18.8%         |
| R&D                                      | 9%             | 10%            | 9%             | 10%            | 11%            | 9.0%          | 10.0%         | 10.0%         | 10.0%         |
| S&M                                      | 7%             | 5%             | 4%             | 5%             | 12%            | 5.0%          | 5.0%          | 5.0%          | 5.0%          |
| G&A                                      | 19%            | -5%            | 10%            | 10%            | 12%            | 9.0%          | 10.0%         | 10.0%         | 10.0%         |
| Operating income                         | 22%            | 17%            | 21%            | 21%            | 19%            | 17.5%         | 18.6%         | 21.6%         | 24.1%         |
| Net income                               | 20%            | 16%            | 26%            | 15%            | 21%            | 15.0%         | 16.9%         | 16.8%         | 13.6%         |
| EPS - diluted                            | 20%            | 16%            | 27%            | 15%            | 20%            | 15.3%         | 17.0%         | 16.6%         | 13.3%         |

Source: Company reports, Bernstein estimates and analysis

## EXHIBIT 15: MSFT Cash Flow Statement

\$ Millions &amp; GAAP, except otherwise noted

| <b>Cash Flow Statement</b>                                       | <b>FY2024</b>   | <b>FY2025</b>   | <b>FY2026</b>    | <b>FY2027E</b>   | <b>FY2028E</b>   | <b>Q127E</b>    | <b>Q227E</b>    | <b>Q327E</b>    | <b>Q427E</b>    |
|------------------------------------------------------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Net income                                                       | 88,136          | 101,832         | 133,749          | 148,728          | 179,591          | 35,451          | 36,080          | 37,121          | 40,076          |
| Adjustments to reconcile net income to net cash from operations: |                 |                 |                  |                  |                  |                 |                 |                 |                 |
| Depreciation, amortization, and other                            |                 |                 |                  |                  |                  |                 |                 |                 |                 |
| noncash items                                                    | 22,287          | 34,153          | 43,448           | 52,323           | 75,006           | 11,105          | 12,401          | 13,716          | 15,100          |
| Stock-based compensation                                         | 10,734          | 11,974          | 12,405           | 13,124           | 14,558           | 2,995           | 3,211           | 3,263           | 3,655           |
| Deferred income taxes                                            | (4,738)         | (7,056)         | 14,189           | (1,581)          | (3,197)          | (304)           | (362)           | (415)           | (500)           |
| Deferral of unearned revenue, net                                | 5,348           | 5,438           | 9,361            | 9,651            | 11,303           | (8,233)         | (3,838)         | (4,930)         | 26,651          |
| Changes in operating assets and liabilities:                     | (3,524)         | (10,788)        | (14,256)         | (15,655)         | (21,525)         | 12,042          | 2,795           | (8,342)         | (22,151)        |
| Other                                                            | 305             | 609             | (15,961)         | -                | -                | -               | -               | -               | -               |
| <b>Net cash provided by operating activities</b>                 | <b>118,548</b>  | <b>136,162</b>  | <b>182,935</b>   | <b>206,590</b>   | <b>255,736</b>   | <b>53,057</b>   | <b>50,288</b>   | <b>40,413</b>   | <b>62,832</b>   |
| Capex                                                            | (44,477)        | (64,551)        | (115,948)        | (188,016)        | (201,044)        | (45,004)        | (45,737)        | (47,971)        | (49,304)        |
| Acquisitions, net of cash                                        | (69,132)        | (5,978)         | (1,743)          | -                | -                | -               | -               | -               | -               |
| Purchase of securities, net (sale)                               | 34,371          | 27,705          | 36,542           | 19,523           | (13,343)         | 7,461           | 3,606           | 13,581          | (5,126)         |
| Securities lending payable                                       | -               | -               | -                | -                | -                | -               | -               | -               | -               |
| <b>Net cash used in investing activities</b>                     | <b>(96,970)</b> | <b>(72,599)</b> | <b>(139,500)</b> | <b>(168,493)</b> | <b>(214,387)</b> | <b>(37,542)</b> | <b>(42,131)</b> | <b>(34,390)</b> | <b>(54,430)</b> |
| Net borrowing                                                    | 575             | (8,962)         | (3,000)          | -                | -                | -               | -               | -               | -               |
| Share repurchase                                                 | (17,254)        | (18,420)        | (22,271)         | (11,134)         | (6,489)          | (3,944)         | (2,907)         | (2,829)         | (1,454)         |
| Dividends                                                        | (21,771)        | (24,082)        | (26,445)         | (29,094)         | (32,122)         | (6,760)         | (7,440)         | (7,443)         | (7,451)         |
| Other                                                            | 693             | (235)           | (830)            | 1,958            | 1,961            | 502             | 456             | 505             | 496             |
| <b>Net cash used in financing</b>                                | <b>(37,757)</b> | <b>(51,699)</b> | <b>(52,546)</b>  | <b>(38,270)</b>  | <b>(36,649)</b>  | <b>(10,202)</b> | <b>(9,892)</b>  | <b>(9,768)</b>  | <b>(8,409)</b>  |
| Effect of exchange rates on cash and cash equivalents            | (210)           | 63              | (196)            | -                | -                | -               | -               | -               | -               |
| <b>Net change in cash and cash equivalents</b>                   | <b>(16,389)</b> | <b>11,927</b>   | <b>(9,307)</b>   | <b>(174)</b>     | <b>4,700</b>     | <b>5,312</b>    | <b>(1,734)</b>  | <b>(3,745)</b>  | <b>(7)</b>      |
| Cash and cash equivalents at beginning of period                 | 34,704          | 18,315          | 30,242           | 20,935           | 20,761           | 20,935          | 26,247          | 24,513          | 20,768          |
| Cash and cash equivalents at end of period                       | 18,315          | 30,242          | 20,935           | 20,761           | 25,461           | 26,247          | 24,513          | 20,768          | 20,761          |

Source: Company reports, Bernstein estimates and analysis

## BERNSTEIN TICKER TABLE

| Ticker           | Rating | Cur | 7 Aug 2026       | Price<br>Target | TTM<br>Rel.<br>Perf. | Adjusted EPS |       |       |       | Adjusted P/E (x) |       |       |
|------------------|--------|-----|------------------|-----------------|----------------------|--------------|-------|-------|-------|------------------|-------|-------|
|                  |        |     | Closing<br>Price |                 |                      | Cur          | 2026A | 2027E | 2028E | 2026A            | 2027E | 2028E |
| MSFT (Microsoft) | O      | USD | 499.99           | <b>660.00</b>   | (26.4)%              | USD          | 17.28 | 19.96 | 24.01 | 28.9             | 25.1  | 20.8  |
| OLD              |        |     |                  | 647.00          |                      |              |       |       |       |                  |       |       |
| SPX              |        |     | 7,757.64         |                 |                      |              |       |       |       |                  |       |       |

## PRICE TARGET CHANGE IN BOLD

O - Outperform, M - Market-Perform, U - Underperform, NR - Not Rated, CS - Coverage Suspended

Source: Bloomberg, Bernstein estimates and analysis.

## DISCLOSURE APPENDIX

**I. REQUIRED DISCLOSURES**

References to "Bernstein" or the "Firm" in these disclosures relate to the following entities: Bernstein Institutional Services LLC (April 1, 2024 onwards), Sanford C. Bernstein & Co., LLC (pre April 1, 2024), Bernstein Autonomous LLP, BSG France S.A. (April 1, 2024 onwards), Sanford C. Bernstein (Hong Kong) Limited 盛博香港有限公司, Sanford C. Bernstein (Canada) Limited, Sanford C. Bernstein (India) Private Limited (SEBI registration no. INH000006378), Sanford C. Bernstein (Singapore) Private Limited, Sanford C. Bernstein Japan KK (サンフォード・C・バーンスタイン株式会社) and analysts employed by Société Générale Africa Technologies & Services to produce Bernstein research under a Global Services Agreement in place between Bernstein and Société Générale.

Bernstein is part of a joint venture between Société Générale (SG) and AllianceBernstein, L.P. (AB). Unless specifically noted otherwise, for purposes of these disclosures, references to Bernstein's "affiliates" relate to both SG and AB and their respective affiliates.

**VALUATION METHODOLOGY****Microsoft Corp**

We value Microsoft shares based on our estimate for 12-month forward NOPLAT per share in 1 year's time (\$24.2), and apply a P/FE multiple of 27x. We then add back in the net cash per share, discounted at 15% to account for potential tax costs and other "friction" to repatriate all cash (\$7.13 per share), arriving at price target of \$660.

**RISKS****Microsoft Corp**

Risks to our price target for MSFT include: a decreased demand for Azure PaaS/IaaS; increased Cloud cybersecurity concerns that impact Cloud demand; lower than forecast sales of Microsoft SaaS offerings; increased competitive pricing pressure on IaaS; increased competition in the Office market; decreased PC sales; increased pirating of the company's software, especially Windows and Office; increased functionality in the virtualization layer that limits the need for Windows server on VMs; decreased monetization of Microsoft's online offerings especially Bing; failure to increase international market share of Bing; lower than forecast sales for Xbox products and services; decreases in Windows sales.

**RATINGS DEFINITIONS, BENCHMARKS AND DISTRIBUTION****EQUITY RATINGS DEFINITIONS****Bernstein brand**

The Bernstein brand rates stocks based on forecasts of relative performance for the next 12 months versus the S&P 500 for stocks listed on the U.S. and Canadian exchanges, versus the Bloomberg Europe Developed Markets Large and Mid Cap Price Return Index EUR (EDME) for stocks listed on the European exchanges and emerging markets exchanges outside of the Asia Pacific region, versus the Bloomberg Japan Large and Mid Cap Price Return Index USD (JPL) for stocks listed on the Japanese exchanges, and versus the Bloomberg Asia ex-Japan Large and Mid Cap Price Return Index (ASIAX) for stocks listed on the Asian (ex-Japan) exchanges -unless otherwise specified.

The Bernstein brand has three categories of ratings:

- Outperform: Stock will outpace the market index by more than 15 pp
- Market-Perform: Stock will perform in line with the market index to within +/- 15 pp
- Underperform: Stock will trail the performance of the market index by more than 15 pp

Coverage Suspended: Coverage of a company under the Bernstein research brand has been suspended. Ratings and price targets are suspended temporarily, are no longer current, and should therefore not be relied upon.

Not Rated: A rating assigned when the stock cannot be accurately valued, or the performance of the company accurately predicted, at the present time. The covering analyst may continue to publish research reports on the company to update investors

on events and developments.

Not Covered (NC) denotes companies that are not under coverage.

Bernstein brand stock ratings are based on a 12-month time horizon.

### **Autonomous brand – common stocks**

The Autonomous brand rates common stocks as indicated below. As our benchmarks we use the Bloomberg Europe 600 Financials Price Return Index (E600BK) and Bloomberg Europe Dev Mkt Financials Large and Mid Cap Price Ret Index EUR (EDMFI) index for developed European banks and Payments, the Bloomberg Europe 600 Insurance Price Return Index (E600IN) for European insurers, the S&P 500 and S&P Financials for US banks and Payments coverage, S5LIFE for US Insurance, the S&P Insurance Select Industry (SPSIINS) for US Non-Life Insurers coverage, the Bloomberg Emerging Markets Financials Large, Mid and Small Cap Price Return Index (EMLSF) for emerging market banks and insurers and Payments, and the Bloomberg Japan Financials Large & Mid Cap Price Return Index (JPFILM) for Japanese Financials. Ratings are stated relative to the sector (not the market).

The Autonomous brand has three categories of common stock ratings:

- Outperform (OP): Stock will outpace the relevant index by more than 10 pp
- Neutral (N): Stock will perform in line with the market index to within +/- 10 pp
- Underperform (UP): Stock will trail the performance of the relevant index by more than 10 pp

Coverage Suspended: Coverage of a company under the Autonomous research brand has been suspended. Ratings and price targets are suspended temporarily, are no longer current, and should therefore not be relied upon.

Not Rated: A rating assigned when the stock cannot be accurately valued, or the performance of the company accurately predicted, at the present time. The covering analyst may continue to publish research reports on the company to update investors on events and developments.

Those denoted as 'Feature' (e.g., Feature Outperform FOP, Feature Under Outperform FUP) are our core ideas.

Not Covered (NC) denotes companies that are not under coverage.

Autonomous brand common stock ratings are based on a 12-month time horizon.

### **Autonomous brand – preferred stocks**

The Autonomous brand has three categories of preferred stock ratings:

- Outperform (OP): The total return of the preferred instrument is expected to outperform preferred securities of other issuers operating in similar sectors or rating categories over the next six months.
- Neutral (N): The total return of the preferred instrument is expected to perform in line with preferred securities of other issuers operating in similar sectors or rating categories over the next six months.
- Underperform (UP): The total return of the preferred instrument is expected to underperform preferred securities of other issuers operating in similar sectors or rating categories over the next six months.

Autonomous preferred stock ratings are based on a 6-month time horizon.

## **AUTONOMOUS CREDIT RESEARCH**

Where this report contains investment recommendations for credit instruments, as defined in article 3(1)(35) of the Market Abuse Regulation, the information below is presented to comply with its disclosure requirements.

The report may also include reference(s) to published opinions by other Autonomous or Bernstein analysts covering the equity securities of the issuer(s) referenced herein. Please note an investment recommendation for credit instruments published by the author(s) of this report may differ from the published view of the analyst covering equity securities for the issuer(s) contained in this report and vice versa.



## CREDIT RATINGS DEFINITIONS

The Autonomous brand has three categories of credit ratings:

- **Credit Outperform (C-OP):** The total return of the Reference Credit Instrument is expected to outperform the credit spread of bonds of other issuers operating in similar sectors or rating categories over the next six months.
- **Credit Neutral (C-N):** The total return of the Reference Credit Instrument is expected to perform in line with the credit spread of bonds of other issuers operating in similar sectors or rating categories over the next six months.
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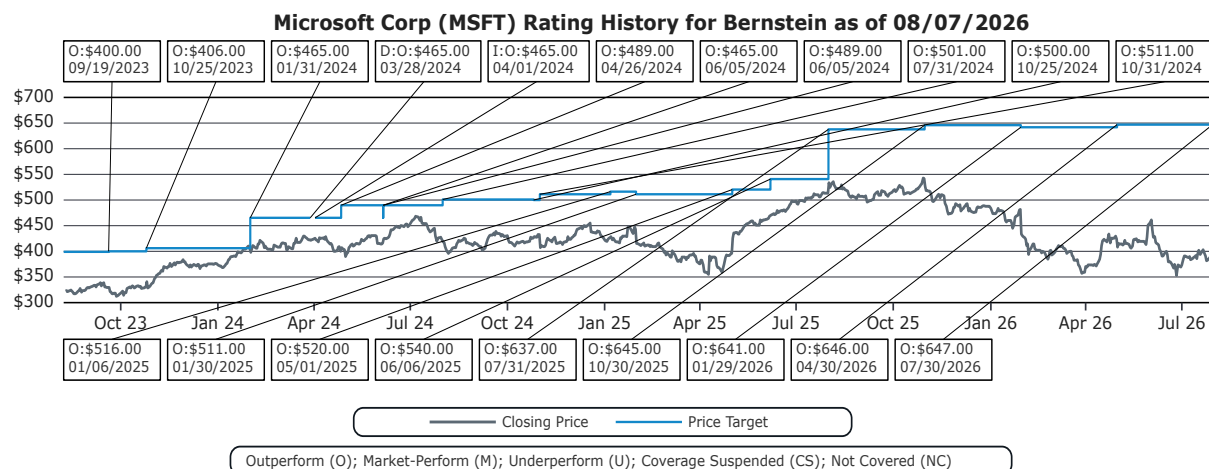
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