From:
 Phil Spencer </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MICROSOFT.ONMICROSOFT.COM-55760-PHIL SPENCER>

 To:
 Sarah Bond; Tim Stuart

 CC:
 Haiyan Zhang

 Sent:
 7/29/2020 4:11:56 PM

 Subject:
 FW: Project Atom (ZeniMax)

 Attachments:
 Gaming CSA -- Strategic Framing Memo -- ZeniMax v12.docx; Project Atom Financial Materials.pptx

Just what was sent for this mornings call.



 From: Amy Hood <amyhood@microsoft.com>
 10/11/22
 CB

 Sent: Wednesday, July 29, 2020 6:53 AM
 10/11/22
 CB

 To: Satya Nadella <satyan@microsoft.com>
 CC: Phil Spencer <philsp@microsoft.com>; Marc Brown (CORPDEV) <marcb@microsoft.com>; Keith Dolliver (CELA) <keithd@microsoft.com>

 Subject: Fwd: Project Atom (ZeniMax)

For 8am. This is material team went thru with me yesterday.

Amy

From: Tim Stuart <<u>timstu@microsoft.com</u>> Sent: Monday, July 27, 2020 6:06:10 PM To: Amy Hood <<u>amyhood@microsoft.com</u>> Cc: Phil Spencer <<u>philsp@microsoft.com</u>>; Sarah Bond <<u>Sarah.Bond@microsoft.com</u>>; Bill Duff <<u>billduff@microsoft.com</u>>; Marc Brown (CORPDEV) <<u>marcb@microsoft.com</u>>; Ryan Cooper (CORPDEV) <<u>Cooper.Ryan@microsoft.com</u>> Subject: Project Atom (ZeniMax)

Amy – Tomorrow we have time with you to discuss the Project Atom (ZenimMax) acquisition. We will spend our time in the Atom Financial Materials deck, but I have also attached our draft board materials for reference as well.

For our acquisition thesis, we will land the following financial and strategic elements:

- Content catalog growth drives net new hours within Game Pass customer engagement
- Hours and subscribers are highly correlated and therefore growth in hours = growth in paying subscribers
- ZeniMax is critical to growing a strong overall catalog à driving more hours à converting into paid subscriber growth

Current valuation model is at \$10.5B, \$4.3B from operating cash flow + synergies and \$6.2B from terminal value. We will walk you through the key drivers, valuation scenarios, and financial outlook.

Thanks

### **File Provided Natively**

Project Atom Financial Materials.pptx

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# ZeniMax Media

July 2020



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### Acquisition Strategic Rationale

| Our<br>Strategy      | <ul> <li>Gaming presents a sizable market opportunity for Microsoft, nearly \$200 billion annually</li> <li>Our strategy, to extend our ecosystem across devices centered on the player, creates sustainable differentiation</li> <li>Xbox Game Pass, with nearly 15 million subscribers today, underpins this vision and positions Microsoft to pursue the potentially 250 million gaming subscribers in Xbox markets</li> </ul>   |
|----------------------|---|
| Current<br>Situation | <ul> <li>In subscriptions, scale is self-reinforcing; jumpstarting the virtuous cycle between content and subscribers is our imperative</li> <li>Xbox Game Pass faces increasing competition; our window to scale subscribers &amp; accelerate this virtuous cycle is narrowing</li> <li>Differentiated content—across console, PC, and cloud—is the primary lever to rapidly scale Xbox Game Pass; given the limited supply of games to "rent", ownership is our optimal strategy</li> </ul> |
| Our<br>Proposal      | <ul> <li>ZeniMax is a proven game developer &amp; publisher with owned franchises and strong performance on console and PC</li> <li>Acquiring ZeniMax would unlock nonlinear growth for Xbox Game Pass, establishing a long-term economic beachhead</li> <li>With Xbox Game Pass, Microsoft is best positioned to grow and realize financial return from ZeniMax's assets</li> </ul>  |

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### ZeniMax Media Overview

#### **Company Overview**

- Major developer of AAA cross-platform, action, and fantasy RPG titles such as Fallout, The Elder Scrolls, DOOM, and Wolfenstein
- Headquarters: Rockville, MD; studio offices in Sweden, France, Japan, Canada, and throughout the United States
- Founded: 1986 (current ZeniMax structure formed in May 1999)
- Key People: Robert Altman (Founder, Chairman and CEO), Todd Howard (Bethesda Executive Producer), Todd Vaughn (SVP Product Development), James Leder (President and COO)
- Employees: 2,379 (75% R&D, 15% G&A, 10% S&M)
- Ownership: Providence Equity Partners (34%), employees (24%), Robert Altman (17%), Series A and B investors (11%), founders (7%), board (4%) and all others (3%)
- Funding: ~\$460M in total, most recently \$450M from Providence Equity Partners (\$150M in Sep 2010 and \$300M in Oct 2007). Previously raised ~\$10M in 1999, 2000 and 2001.
- Xbox Live Engagement: ~4M unique users played an average of ~12 hours / month in CY19
- Game Catalog generates over \$135M of annual revenue; includes The Elder Scrolls: Skyrim and Fallout 4

#### **Key Developments**

- Recent Major Title Releases: Fallout 76 (2018; underperformed), The Elder Scrolls: Blades (2019), Rage 2 (2019), Wolfenstein: Youngblood (2019), Wolfenstein: Cyberpilot (2019), and DOOM Eternal (2020)
- Planned Major Title Releases: Starfield (2021), Fallout 3 Remaster (2024) and The Elder Scrolls VI (2024)
- Acquisitions: Alpha Dog Games (mobile developer; closed 2019), Roundhouse Studios (developer; 2019), Escalation Studios (developer; 2017), Machinegames (developer; 2010), Arkane Studios (developer; 2010), id Software (Quake developer; 2009). Acquisition prices all undisclosed.

Source: Company Presentation, Pitchbook, Company website, 451 Group

(1) GAAP financials, including SBC and adjusted for capitalized R&D for consistency with Microsoft accounting practices.

#### **Financial Overview**

| Andyaraday Budi<br>4 Milay           |             |                |               |            |              |                    |                    |             |
|--------------------------------------|-------------|----------------|---------------|------------|--------------|--------------------|--------------------|-------------|
| % Growth                             |             | (23%)          | <b>5%</b>     | <b>62%</b> | <b>19%</b>   | (11%)              | <b>12%</b>         | <b>6</b> 6% |
| <b>Gaus Pall</b><br>% Margin         | <b>8</b> 2% | <b>76%</b>     | <b>73%</b>    | 83%        | <b>8</b> 5%  | <b>8</b> 4%        | <b>8</b> 2%        | <b>8</b> 5% |
| <b>Mangin</b> Ó Margin               | <b>9%</b>   | (15%)          | <b>(11%</b> ) | 15%        | <b>199</b> % | 31%                | 31%                | <b>50%</b>  |
|                                      | 11%         | (7)            |               |            | <b>4</b> 1%  | <b>4400</b><br>34% | <b>3</b> 3%        | <b>5</b> 1% |
| % Margin<br>Stock-Based Compensation | \$5         | (13%)<br>\$2   | (7%)<br>\$2   | \$5        | 41%<br>\$4   | \$3                | 33 <i>%</i><br>\$1 | \$1%        |
| % Margin                             | <b>12%</b>  | (1 <i>3%</i> ) | (7%)          | <b>18%</b> | <b>4</b> 1%  | <b>3</b> 4%        | <b>3</b> 3%        | <b>5</b> 1% |

\$724M of cash and no debt as of 5/31/20

## ZeniMax Media Portfolio Overview

| Studio                   | Location                                  | Full-Time<br>Employees | Franchise / IP               | LTD Units        | Commentary  |
|--------------------------|---|------------------------|------------------------------|------------------|---|
| Bethesda Game<br>Studios | Rockville, MD<br>Austin, TX<br>Dallas, TX | 431                    | Fallout                      | 55M              | Dystopian future role-playing game  |
|                          |   |                        |                              | 54M              | Fantasy role-playing game   |
|                          |   |                        | state and a                  | N/A              | New space-based role-playing game   |
|                          |   |                        | <b>D P P P P P P P P P P</b> | N/A              | New franchise based on Indiana Jones character                                    |
| ZeniMax Online           | Hunt Valley, MD                           | 381                    | The Gilder Scrolls           | 15M              | Online multiplayer role-playing game  |
| Machine Games            | Uppsala, Sweden                           | 130                    | Waltenstein                  | 9M               | Reboot of 1990's classic shooter  |
| id Software              | Richardson, TX                            | 230                    | DOCM                         | 10M              | Reboot of 1990's classic Acquired in 2009 shooter                                 |
|                          |   |                        | φυακέ                        | <5M              |   |
| Tango Gameworks          | Tokyo, Japan                              | 89                     | THE EVIL WITHIN              | <5M              | Japanese survival horror games  |
| Arkane Studios           | Austin, TX /<br>Lyon, France              | 241                    | "DEATHLOOP"                  | Not yet released | New "immersive simulation"  |
| Roundhouse Studios       | Madison, WI                               | 41                     | PREY                         | <5M              | Acquired in November 2019   |
| Alpha Dog Games          | Halifax, NS                               | 15                     |                              | N/A              | Acquired in October 2019  |
| Bethesda Softworks       | Rockville, MD<br>Montreal, QC             | 505                    | Corporate / Publishing       | N/A              | Leadership, Marketing, PR, Sales, Bethesda.net, IT,<br>Operations, Finance, Legal |

Unit sales estimated from ZeniMax corporate press releases / interviews, financial disclosures, Superdata, NPD, GSD, GfK

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Slide 4 Notes

## Integration Principles

### Organization, Culture and Leadership

- We plan to leave the company intact; ZeniMax's leadership will report to Phil Spencer, EVP of Gaming
- Retain all of ZeniMax's offices and development teams in existing locations
- Rationalize relevant SG&A and integrate key compliance functions into Microsoft (Treasury, Audit, Tax, Legal, Corporate Affairs, etc.)

### Portfolio and Go-to-Market

- Continue developing all acquired games and franchises, and continue selling on all relevant platforms (e.g., Android, iOS, PlayStation, Steam, Switch, Windows, Xbox, etc.)
- Launch all acquired games and franchises (rights permitting) with subscription exclusivity into Xbox Game Pass on console, PC, and cloud; future releases would ship into the service on a "dayand-date" basis.

## Buy Case Key Assumptions (1 of 2)

| Category             |                             | Variable                             | Assumption  | Commentary / Benchmark  |
|----------------------|-----------------------------|--------------------------------------|---|---|
| Existing<br>Business | Tentpole<br>Franchises      | The Elder Scrolls VI performance     | 40M units @ \$60<br>Releases in FY24 and FY29                   | <ul> <li>Units: Latest release (2011) shipped &gt;40M LTD</li> <li>Price: Based on Xbox console historical performance (\$55 base game, \$5/unit of post-sale monetization)</li> </ul>  |
|                      |                             | Fallout 5 performance                | 25M units @ \$71<br>Releases in FY21, FY22, FY24 and FY28       | <ul> <li>Units: Latest release (2015) shipped ~25M LTD</li> <li>Price: Based on Xbox console historical performance (including \$55 base game, \$16/unit of post-sale monetization)</li> </ul>  |
|                      |                             | Starfield performance                | 25M units @ \$60<br>Releases in FY21, FY25, and FY29            | <ul> <li>Units: Based on recent title performance from Fallout and The Elder<br/>Scrolls franchises</li> <li>Price: In line with Fallout and The Elder Scrolls historical performance<br/>(including \$55 base game, \$5/unit of post-sale monetization)</li> </ul> |
|                      | Complementary<br>Franchises | Percent of Tentpole Revenue          | 24%   | <ul> <li>Based on Xbox console historical performance</li> <li>Franchises include: DOOM, Ghostwire, Deathloop, Indiana Jones, and several new IP projects</li> </ul>  |
|                      | Other Revenue               | Free-to-Play                         | Management Forecast through FY24;<br>8% Growth FY25-FY30        | Assumed 8% growth rate consistent with projected industry growth <sup>1</sup>   |
|                      |                             | Back Catalog                         | Management Forecast through FY24;<br>(15%) Growth FY25-FY30     | Growth consistent with management forecast and trend that back     catalog revenue will steadily decline YoY  |
|                      | Expenses                    | COGS                                 | 16% of revenue  | • Tentpole and complementary COGS at management forecasted % of revenue through FY24; held at the average % of revenue FY25-FY30.   |
|                      |                             | ZeniMax headcount                    | 2,379 FTEs +3% R&D / year<br>CPH of ~\$180K in FY21, +3% / year | <ul><li>ZeniMax currently has 2,379 FTEs, with 1,789 in R&amp;D</li><li>CPH based on recently acquired LI studios</li></ul>   |
|                      |                             | Non-People S&M Expense Growth (CAGR) | 8%  | Management forecast assumes 13% CAGR; our reduced expense growth reflects efficiencies from combined operations   |

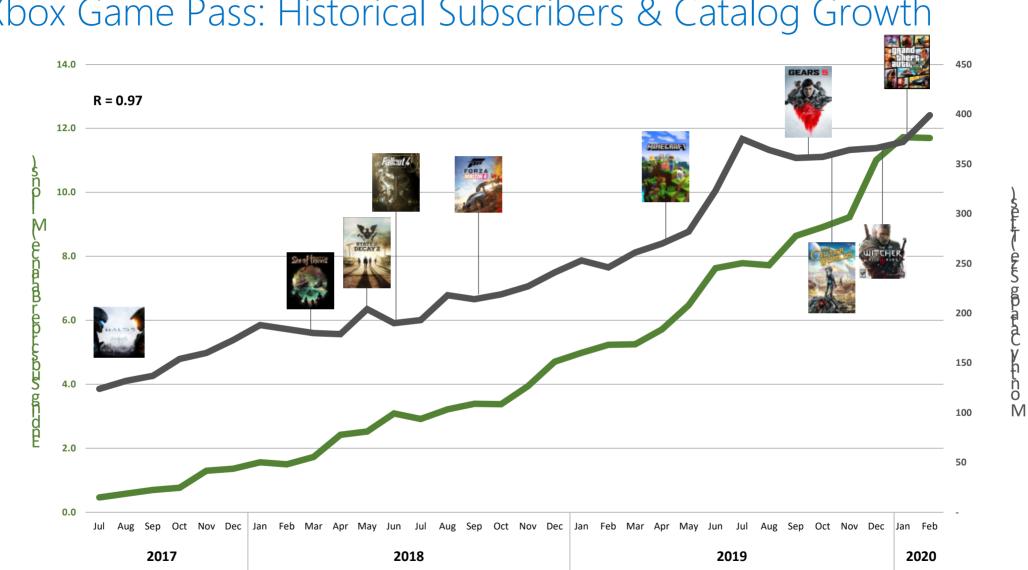
## Buy Case Key Assumptions (2 of 2)

| Category         |                | Variable  | Assumption  | Commentary / Benchmark  |
|------------------|----------------|---|---|---|
| Net<br>Synergies | Xbox Game Pass | ZeniMax Titles Released Per Year into Xbox<br>Game Pass | 3.6 titles / year average   | <ul> <li>Assumes day and date releases of all tentpole titles (as described in<br/>"Existing Business" as well as ~3 annual complementary releases<br/>(consistent with historical release cadence)</li> </ul>  |
|                  |                | Total Hours for New ZeniMax Titles                      | Elder Scrolls: 184 million hours in Y1<br>Fallout & Starfield: 66 million hours in Y1<br>Each Complementary Title: 13 million hours in Y1 | <ul> <li>Engagement hours in year 1 based on Xbox Game Pass engagement for similar titles, then decay in waterfall fashion:</li> <li>Elder Scrolls: 132 million hours in Y2, 124 million hours in Y3 and held constant until next title launch (shallowest decay curve)</li> <li>Fallout &amp; Starfield: 31 million hours in Y2, 23 million hours in Y3</li> </ul> |
|                  |                | Hours per ZeniMax Title                                 | Average of ~5 hours / title / subscriber  | <ul> <li>Complementary Titles: 6 million hours in Y2</li> <li>3-6 hours per subscriber depending on quality of title launched into</li> </ul>   |
|                  |                |   | Average of ~5 hours / title / subscriber  | the service in a particular year  |
|                  |                | Average Xbox Game Pass<br>Annual Hours Played           | 14 to 25 hours / year / subscriber  | <ul><li>Based on FY20 Xbox Game Pass annual engagement trends<sup>1</sup>:</li><li>Drives engagement based on annual hours played</li></ul>   |
|                  |                | Xbox Game Pass Subscriber Monetization                  | ARPU scaling to \$10.50<br>Post-sale monetization \$0.15 / hour flat  | <ul> <li>ARPU scaling as from \$6 (rev. attributed to Xbox Live Gold conversions to XGP) to \$10.50 as net new subscribers are brought into the service.</li> <li>\$0.15 / hour flat is based on historical post sales monetization rate</li> </ul>   |
|                  |                | Gross margins   | 85% for Console-first subscriptions<br>50% for xCloud-first subscriptions<br>85% for post-sale monetization                               | <ul> <li>Console first-subscribers are subscribers who come into XGP on<br/>console as compared to xCloud-first who are subscribers brought to<br/>the platform primarily by xCloud streaming</li> </ul>  |
|                  |                | Xbox Game Pass Mix Shift (Cannibalization)              | 50% of Xbox direct purchase   | Assumes mix shift from Xbox direct purchase to subscription   |

[1] Source: Xbox Gamer Analytics Platform and Xbox Game Pass Business Planning. See slide 24 for additional detail on average engagement per subscriber for current Xbox Game Pass library

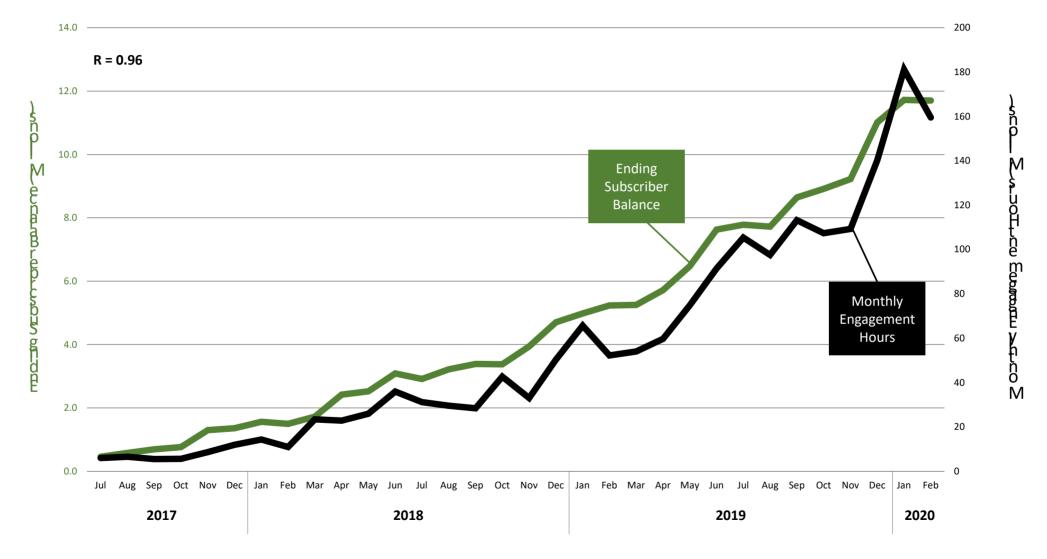
## Existing Business Summary

| £. Miliums Fixed Year Hading,<br>June 30 | HR FIER |              |             |         |             |         |             |         |               |              | PRE-INDO<br>CMR |   | Tentpole releases           |
|--|---------|--------------|-------------|---------|-------------|---------|-------------|---------|---------------|--------------|-----------------|---|-----------------------------|
|  | 1       | 2            |             | 3       | 4           |         |             | 5       | 6             |              |                 |   |                             |
| Tentpole                                 | \$364   | \$765        | \$390       | \$876   | \$1,395     | \$981   | \$493       | \$642   | \$1,414       | \$1,434      | 8%              | 1 | FY21: Starfield and Fallout |
| Complementary                            | \$87    | \$184        | \$94        | \$210   | \$335       | \$236   | \$118       | \$154   | \$339         | \$344        | 8%              |   |                             |
| Free-to-Play & Back Catalog              | \$110   | \$283        | \$333       | \$323   | \$288       | \$297   | \$308       | \$322   | \$339         | \$359        | 3%              | 2 | FY22: Fallout               |
| Total Revenue                            |         | <b>(1001</b> |             |         |             |         |             |         |               | <b>10;17</b> | 7%              | 9 | 1122.14104                  |
| % Growth                                 | 0%      | 10%          | (34%)       | 73%     | 43%         | (25%)   | (39%)       | 22%     | 87%           | 2%           |                 |   | FY24: The Elder Scrolls and |
| COGS                                     | (\$87)  | (\$190)      | (\$140)     | (\$219) | (\$311)     | (\$245) | (\$149)     | (\$181) | (\$339)       | (\$346)      |                 | 3 | Fallout                     |
| Tstil Grow Mayîn                         | eári.   | <b>H</b> oit | <b>1977</b> |         | <b>iper</b> |         | <b>4771</b> | (867    | <b>6(75</b> 4 |              |                 | 4 | FY25: Starfield             |
| % Margin                                 | 84%     | 85%          | 83%         | 84%     | 85%         | 84%     | 84%         | 84%     | 84%           | 84%          |                 |   |                             |
|  |         |              |             |         |             |         |             |         |               |              |                 | 6 | FY28: Fallout               |
| Operating Expenses                       | (\$302) | (\$633)      | (\$674)     | (\$719) | (\$768)     | (\$819) | (\$875)     | (\$936) | (\$1,000)     | (\$1,070)    |                 |   |                             |
| Annual FTE                               | 2,433   | 2,488        | 2,545       | 2,603   | 2,663       | 2,726   | 2,790       | 2,855   | 2,923         | 2,993        |                 | • | FY29: The Elder Scrolls and |
| % Margin                                 | (54%)   | (51%)        | (83%)       | (51%)   | (38%)       | (54%)   | (95%)       | (84%)   | (48%)         | (50%)        |                 | 6 | Starfield                   |
| Total Accountability Maryin              | ţin.    |              |             |         |             |         |             |         |               |              |                 |   |                             |
| % Margin                                 | 31%     | 33%          | 0%          | 33%     | 47%         | 30%     | (11%)       | 0%      | 36%           | 34%          |                 |   |                             |





### Xbox Game Pass: Historical Engagement Hours & Subscribers



### Net Synergies: Xbox Game Pass Acceleration

1 Incremental Xbox Game Pass Subscribers: The inclusion of tentpole and complementary games day-and-date into Xbox Game Pass will drive subscriber growth

- Magnitude of subscriber growth projected based on estimated engagement hours, informed by historical performance of comparable games adjusted for service scale
- Slides 19-20 in the appendix provide a more detailed overview of key modeling mechanics and assumptions

2 Incremental Xbox Game Pass Revenue: Subscription sales and post sales monetization drive incremental revenue, based on:

- Console-first revenue<sup>1</sup> (90% of subscribers) starts at \$5/month in FY21, growing to \$10/month in FY26, flat thereafter / Cloud-first revenue<sup>2</sup> (10% of subscribers) at a flat \$12/month from FY21-30
- Post-sale monetization revenue (\$0.15 per hour) for both subscriber categories

#### Incremental Xbox Game Pass Gross Margin:

• 75% effective subscription gross margin, based on 85% console-first subscription gross margin and 50% cloud-first subscription gross margin

• Post-sale monetization gross margin of 85% for both subscriber categories

|   | H2'FY21 | FY22    | FY23    | FY24    | FY25    | FY26     | FY27     | FY28     | FY29     | FY30     |
|---|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| ZeniMax Tentpole Title Releases                         | 1       | 1       | -       | 2       | 1       | -        | -        | 1        | 2        | -        |
| ZeniMax Complementary Title Releases                    | 2       | 3       | 3       | 3       | 3       | 3        | 3        | 3        | 3        | 3        |
| Average Xbox Game Pass Hours Played / New ZeniMax Title | 3       | 4       | 4       | 6       | 6       | 7        | 6        | 5        | 6        | 7        |
| Incremental ZeniMax Xbox Game Pass Hours Played (M)     | 139     | 402     | 389     | 1,121   | 1,126   | 1,081    | 1,050    | 1,403    | 2,030    | 1,571    |
| Average Xbox Game Pass Hours Played / Subscriber        | 14      | 15      | 16      | 17      | 18      | 19       | 20       | 21       | 22       | 25       |
| 1 Incremental Xbox Game Pass Subscribers (M)            | 1.7     | 2.0     | 1.8     | 4.9     | 4.7     | 4.3      | 4.0      | 5.1      | 7.0      | 5.2      |
| Subscription Revenue (\$M)                              | 56.5    | 156.2   | 163.1   | 524.0   | 554.2   | 540.3    | 501.1    | 640.5    | 888.1    | 659.8    |
| Subscription Average Revenue / User / Month             | \$ 5.70 | \$ 6.60 | \$ 7.55 | \$ 8.89 | \$ 9.84 | \$ 10.50 | \$ 10.50 | \$ 10.50 | \$ 10.50 | \$ 10.50 |
| Post-Sale Monetization Revenue (\$M)                    | 20.8    | 60.4    | 58.4    | 168.1   | 169.0   | 162.1    | 157.5    | 210.5    | 304.5    | 235.6    |
| Incremental Xbox Game Pass Revenue (\$M)                | \$77    | \$217   | \$221   | \$692   | \$723   | \$702    | \$659    | \$851    | \$1,193  | \$895    |
| Subscription Margin (75%) (\$M)                         | 43.9    | 122.9   | 129.5   | 395.9   | 412.0   | 405.2    | 375.9    | 480.4    | 666.0    | 494.9    |
| Post Sale Monetization Margin (85%) (\$M)               | 17.7    | 51.3    | 49.6    | 142.9   | 143.6   | 137.8    | 133.9    | 178.9    | 258.8    | 200.3    |
| Incremental Xbox Game Pass Gross Margin (\$M)           | \$62    | \$174   | \$179   | \$539   | \$556   | \$543    | \$510    | \$659    | \$925    | \$695    |

[1] Refers to Xbox Game Pass subscribers that primarily engage with content via local compute (e.g., console, gaming PC).

[2] Refers to Xbox Game Pass subscribers that primarily engage with content via cloud streaming (e.g., mobile devices, low-end PC).

## Net Synergies Summary

| £ Milium First Year Indiag.<br>June 20 | HE PAL |        |        | raá     |         |         |         |         |         |         |
|--|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Guno Pero Accolantico                  |        |        |        |         |         |         |         |         |         |         |
| Net Revenue                            | \$77   | \$217  | \$221  | \$692   | \$723   | \$702   | \$659   | \$851   | \$1,193 | \$895   |
| COGS                                   | (\$16) | (\$42) | (\$42) | (\$153) | (\$168) | (\$159) | (\$149) | (\$192) | (\$268) | (\$200) |
| Gross Margin                           | \$62   | \$174  | \$179  | \$539   | \$556   | \$543   | \$510   | \$659   | \$925   | \$695   |
| Came Pare Likelijk                     |        |        |        |         |         |         |         |         |         |         |
| Net Revenue                            | (29)   | (62)   | (26)   | (76)    | (124)   | (82)    | (37)    | (49)    | (126)   | (128)   |
| COGS                                   | \$19   | \$22   | \$9    | \$26    | \$43    | \$29    | \$13    | \$17    | \$44    | \$45    |
| Gross Margin                           | (9)    | (40)   | (17)   | (49)    | (81)    | (53)    | (24)    | (32)    | (82)    | (83)    |
| Natanagia                              |        |        |        |         |         |         |         |         |         |         |
| Net Revenue                            | \$48   | \$155  | \$195  | \$617   | \$599   | \$620   | \$622   | \$802   | \$1,067 | \$768   |
| COGS                                   | \$4    | (\$21) | (\$33) | (\$127) | (\$124) | (\$131) | (\$136) | (\$175) | (\$224) | (\$156) |
| Gross Margin                           | \$52   | \$134  | \$162  | \$490   | \$475   | \$490   | \$486   | \$628   | \$843   | \$612   |

#### **Key Assumptions:**

#### **Growth Profile:**

#### **1** Xbox Game Pass Acceleration:

- Revenue from incremental Xbox Game Pass subscribers driven by tentpole franchise (Fallout, The Elder Scrolls, Starfield) releases in FY21, FY22, FY24, FY25, FY28, and FY29; complementary franchises release 3.2 titles per year
- Margin profile assumes 85% margin for Console-first subscriptions and 50% margin for xCloud-first subscriptions. postsale monetization margin assumed at 85%
- No incremental OPEX assumed

#### Xbox Game Pass Mix Shift:

- 50% of ZeniMax's Xbox revenue is shifted to Xbox Game Pass (assumes 25% of ZeniMax's console revenue is Xbox – based on overall console market share)
- No incremental OPEX assumed
- Net Synergies:
  - Improved margin profile due to replacement of lower margin revenue (traditional Xbox transactions) with higher margin revenue (Xbox Game Pass)

## Buy Case P&L Summary

| §. Milius                       | Find Your Huding. Jano 80 | HR FIGA             |                       |                     | <b>PR</b> Í           |                       |                       |                         |                     |                       |                       |
|---------------------------------|---------------------------|---------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------|-----------------------|-----------------------|
| Lêfing Duêm                     |                           |                     |                       |                     |                       |                       |                       |                         |                     |                       |                       |
| Revenue                         |                           | \$561               | \$1,231               | \$816               | \$1,409               | \$2,019               | \$1,513               | \$920                   | \$1,118             | \$2,093               | \$2,137               |
| Gross Margin<br>% Margin        |                           | \$474<br>84%        | \$1,041<br><i>85%</i> | \$677<br><i>83%</i> | \$1,190<br><i>84%</i> | \$1,707<br><i>85%</i> | \$1,268<br><i>84%</i> | \$771<br>84%            | \$937<br><i>84%</i> | \$1,754<br><i>84%</i> | \$1,791<br><i>84%</i> |
| Accountability I<br>% Margin    | Margin                    | \$172<br>31%        | \$409<br><i>33%</i>   | \$2<br>0%           | \$471<br><i>33%</i>   | \$940<br><i>47%</i>   | \$449<br><i>30%</i>   | (\$105)<br><i>(11%)</i> | \$2<br>0%           | \$754<br><i>36%</i>   | \$720<br><i>34%</i>   |
| Nat Que agree                   |                           |                     |                       |                     |                       |                       |                       |                         |                     |                       |                       |
| Net Revenue                     |                           | \$48                | \$155                 | \$195               | \$617                 | \$599                 | \$620                 | \$622                   | \$802               | \$1,067               | \$768                 |
| Gross Margin a                  | and Accountability Margin | \$52                | \$134                 | \$162               | \$490                 | \$475                 | \$490                 | \$486                   | \$628               | \$843                 | \$612                 |
| <b>Novemb</b>                   |                           | (765                | <b>Q</b> (205         | <b>Qioti</b>        | (1).005               |                       | <b>(1)</b>            | <b>e</b> ipái           |                     | <b>(0,100</b>         | <b>in</b> ni          |
| % Growth                        |                           |                     | 18%                   | (27%)               | 100%                  | 29%                   | (18%)                 | (28%)                   | 25%                 | 65%                   | (8%)                  |
| <b>Grees Margîn</b><br>% Margin |                           | <b>8</b> 5%         | <b>94:15</b><br>85%   | <b>8</b> 3%         | <b>8</b> 3%           | <b>8</b> 3%           | <b>8</b> 2%           | <b>4467</b><br>82%      | <b>11965</b><br>81% | <b>82%</b>            | <b>8</b> 3%           |
| <b>% Margin</b>                 | Mayîn (izi Ded Epense)    | <b>3</b> 4%         | <b>3</b> 9%           | <b>16%</b>          | <b>47%</b>            | <b>9495</b><br>54%    | 44%                   | <b>25%</b>              | 33%                 | <b>5</b> 1%           | <b>4</b> 6%           |
| Account diffy<br>% Margin       | Ningîn (ini. Ded Reponse) | <b>19191</b><br>27% | <b>4400</b><br>34%    | <b>13%</b>          | <b>47%</b>            | <b>5</b> 4%           | 44%                   | <b>25%</b>              | 33%                 | <b>5</b> 1%           | <b>4</b> 6%           |

A Includes \$75M of deal and integration costs and \$75M of retention costs expensed over 2 years.

### Value to Microsoft

| Drivers  | Description  | Valu             | le to Microsof    | t            |
|--|--|------------------|-------------------|--------------|
|  |  | FY21-FY30<br>NPV | Terminal<br>Value | Total<br>NPV |
| 1 Existing Business  | Continued sales of ZeniMax's portfolio on all platforms<br>(console, PC, mobile)   | \$2,200          | \$2,640           | \$4,840      |
| 2 Net Synergies  | Incremental Xbox Game Pass monetization, net of mix shift<br>(cannibalization) of 50% of transactional sales on Xbox                         | \$2,130          | \$3,520           | \$5,660      |
| <ul> <li>12/31/20 close date</li> <li>21% tax rate</li> <li>7.87% discount rate</li> </ul> | Total Value to Microsoft<br>of retention costs and \$75M of deal and integration costs<br>d/average of FY28-30 and 0% perpetuity growth rate | \$4,330          | \$6,160           | \$10,500     |
|  |  |                  |                   | 14           |

### Sensitivities: Total Value to Microsoft

|                      | Total Value to Microsoft |                |    |                |    |       |      |         |      |        |           |
|----------------------|--------------------------|----------------|----|----------------|----|-------|------|---------|------|--------|-----------|
|                      |                          | Tentpole Units |    |                |    |       |      |         |      |        |           |
|                      |                          | -              |    |                |    |       |      | As      |      |        |           |
|                      |                          | _              |    | -30%           |    | -15%  | Fore | ecasted |      | 15%    | 30%       |
|                      | ar                       | 0%             | \$ | 8,260          | \$ | 9,720 | \$ 2 | 11,180  | \$ 1 | 12,630 | \$ 14,080 |
| Existing<br>Business | rcoun<br>Year            | 1%             | \$ | 8,120          | \$ | 9,570 | \$ 1 | 11,030  | \$ 1 | 12,480 | \$ 13,930 |
|                      | Headcount<br>wth / Year  | 3%             | \$ | 7 <i>,</i> 580 | \$ | 9,040 | \$ 2 | 10,500  | \$ 1 | 11,940 | \$ 13,400 |
| Dusiness             | Grov                     | 5%             | \$ | 6,980          | \$ | 8,440 | \$   | 9,890   | \$ 1 | 11,340 | \$ 12,800 |
|                      | 88<br>0                  | 7%             | \$ | 6 <i>,</i> 300 | \$ | 7,760 | \$   | 9,220   | \$ 1 | 10,660 | \$ 12,120 |
|                      |                          |                |    |                |    |       |      |         |      |        |           |
|                      | Elder Scrolls VI         |                |    | 28.0           |    | 34.0  |      | 40.0    |      | 46.0   | 52.0      |
|                      | Fallout 5                |                |    | 17.5           |    | 21.3  |      | 25.0    |      | 28.8   | 32.5      |
|                      | Starfield                |                |    | 17.5           |    | 21.3  |      | 25.0    |      | 28.8   | 32.5      |
|                      |                          |                |    |                |    |       |      |         |      |        |           |

|                  | Total Va            | alue t | o Micros  | soft  |          |       |            |              |              |           |
|------------------|---------------------|--------|-----------|-------|----------|-------|------------|--------------|--------------|-----------|
|                  |                     |        |           |       | Ann      | nual  | hours /    | ' ZeniMax Ti | tle / Subscr | riber     |
|                  |                     |        |           |       | 3.00     |       | 4.00       | 5.00         | 6.00         | 7.00      |
| Net<br>Synergies | Revenue<br>in FY30* | \$     | 8.50      | \$    | 6,910    | \$    | 8,240      | \$ 9,560     | \$ 10,890    | \$ 12,220 |
|                  | age Rev<br>sub in I | \$     | 9.50      | \$    | 7,140    | \$    | 8,580      | \$ 10,020    | \$ 11,450    | \$ 12,890 |
|                  | Average<br>per sub  | \$     | 10.50     | \$    | 7,390    | \$    | 8,940      | \$ 10,500    | \$ 12,050    | \$ 13,600 |
|                  | *Subscri            | ption  | revenue o | only; | exclude: | s pos | st-sales r | monetization |              |           |

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### Market Value



Note: Market data as of 7/24/20. ZeniMax management forecast are GAAP, include SBC, and are adjusted for capitalized R&D for consistency with comparables and Microsoft accounting practices

(1) Western comparable companies include Activision Blizzard, Electronic Arts, Take-Two and Ubisoft

(2) "Last Twelve Months." Assumed LTM as of 6/30/20 based on 50% of FY20E and 50% of FY19A

## Preliminary Accretion / Dilution Analysis

| Enterprise Value   |          | \$5.0B       |          |          | \$7.0B   |          | \$9.0B   |          |          |  |
|--|----------|--------------|----------|----------|----------|----------|----------|----------|----------|--|
| Fiscal Year Ending 6/30 (\$M, except for per share data) 2 | H2 FY21E | FY22E        | FY23E    | H2 FY21E | FY22E    | FY23E    | H2 FY21E | FY22E    | FY23E    |  |
| Incremental Accountability Margin (\$M)                    | \$198    | \$543        | \$164    | \$198    | \$543    | \$164    | \$198    | \$543    | \$164    |  |
| A: Retention Costs 4                                       | 19       | 38           | 19       | 19       | 38       | 19       | 19       | 38       | 19       |  |
| B: Foregone Interest Income 5                              | 50       | 100          | 100      | 70       | 140      | 140      | 90       | 180      | 180      |  |
| C: Purchase Accounting Expenses (GAAP-only) 6              | 123      | 247          | 247      | 173      | 347      | 347      | 223      | 447      | 447      |  |
| D: Deal and Integration Expenses (GAAP-only) 7             | 19       | 38           | 19       | 19       | 38       | 19       | 19       | 38       | 19       |  |
| E: Deferred Revenue Writedown (GAAP-only) 8                | 78       | -            | _        | 78       | _        | _        | 78       | -        | —        |  |
| Acquisition Costs  | 289      | 422          | 384      | 359      | 562      | 524      | 429      | 702      | 664      |  |
| GAAP Pre-Tax Income Impact                                 | (\$91)   | \$121        | (\$220)  | (\$161)  | (\$19)   | (\$360)  | (\$231)  | (\$159)  | (\$500)  |  |
| GAAP Net Income Impact                                     | (72)     | 96           | (173)    | (127)    | (15)     | (284)    | (182)    | (126)    | (395)    |  |
| GAAP EPS Impact (\$)                                       | (\$0.01) | \$0.01       | (\$0.02) | (\$0.02) | (\$0.00) | (\$0.04) | (\$0.02) | (\$0.02) | (\$0.05) |  |
| GAAP EPS Impact (%)  | (0.3%)   | <b>0.2</b> % | (0.3%)   | (0.5%)   | (0.0%)   | (0.5%)   | (0.8%)   | (0.2%)   | (0.6%)   |  |
| Non-GAAP reconciliation                                    |          |              |          |          |          |          |          |          |          |  |
| Add back: GAAP-only Acquisition Costs (C+D+E)              | 220      | 284          | 265      | 270      | 384      | 365      | 320      | 484      | 465      |  |
| Non-GAAP Pre-Tax Income Impact                             | \$130    | \$405        | \$46     | \$110    | \$365    | \$6      | \$90     | \$325    | (\$34)   |  |
| Non-GAAP Net Income Impact                                 | 102      | 320          | 36       | 87       | 288      | 5        | 71       | 257      | (27)     |  |
| Non-GAAP EPS Impact (\$)                                   | \$0.01   | \$0.04       | \$0.00   | \$0.01   | \$0.04   | \$0.00   | \$0.01   | \$0.03   | (\$0.00) |  |
| Non-GAAP EPS Impact (%)                                    | 0.4%     | 0.6%         | 0.1%     | 0.4%     | 0.5%     | 0.0%     | 0.3%     | 0.5%     | (0.0%)   |  |
| Incremental Pre-Tax AM to Break-even                       | _        | _            | -        | -        | -        | -        | _        | -        | \$34     |  |

#### Key Assumptions / Notes

- **1** 100% cash consideration
- **2** 12/31/20 close date
- Accountability Margin (Buy Case)
- \$75M in retention costs expensed over 2 years
- **5** 2% foregone interest income
- 25% allocated to purchased intangible assets amortized over 5 years; 75% allocated to goodwill
- \$75M in deal and integration costs expensed over 2 years
- 8 50% writedown of \$157M deferred revenue per ZeniMax's latest balance sheet

### Next Steps

- Valuation guidance from Robert Altman (Chairman & CEO)
- Align on range for potential offer
- Determine approach with board

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## Appendix

### Xbox Game Pass Hours for ZeniMax Content

Total Hours for New ZeniMax Content at Current Xbox Game Pass Ending Balance (12M): Forecasted launch and residual years' hours for future ZeniMax titles based on performance of similar scale titles in Xbox Game Pass. Residual years' hours are decayed from launch year hours on an annual basis. See table to the right.

Scaling Factor (Future/Current): Applied scaling factor to total hours at current Xbox Game Pass Ending Balance to reflect future total hours at future years

Scaled Xbox Game Pass Hours from ZeniMax New Releases: Scaled to future Xbox Game Pass Ending Balance Growth

Xbox Game Pass Total Hours from ZeniMax Content (New Releases and Back Catalog): Total hours for ZeniMax content include:

- New content added to Xbox Game Pass service scaled to FY21 FY30 Xbox Game Pass average subscription ending balance
- Back catalog content (e.g. The Elder Scrolls) assumed to add 100M hours to the service FY22-FY23; engagement then declines FY24-FY30 as new ZeniMax content comes into the service

| Franchise       | Y1 Hours | Y2 Hours | Y3 Hours | Total |
|-----------------|----------|----------|----------|-------|
| Elder Scrolls * | 184      | 132      | 124      | 440   |
| Fallout         | 66       | 31       | 23       | 120   |
| Starfield       | 66       | 31       | 23       | 120   |
| Complementary   | 13       | 6        | 0        | 19    |

\*Elder Scrolls hours held constant at Y3 hours until next title launch

|  | H2 FY21 | FY22 | FY23 | FY24  | FY25  | FY26  | FY27  | FY28  | FY29  | FY30  |
|--|---------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Elder Scrolls                                  | 0       | 0    | 0    | 184   | 132   | 124   | 124   | 124   | 184   | 132   |
| Fallout  | 33      | 82   | 42   | 89    | 31    | 23    | 0     | 66    | 31    | 23    |
| Starfield                                      | 33      | 15   | 11   | 0     | 66    | 31    | 23    | 0     | 66    | 31    |
| Complementary                                  | 30      | 61   | 61   | 61    | 61    | 61    | 61    | 61    | 61    | 61    |
| Total Hours for New ZeniMax Content            | 97      | 158  | 114  | 334   | 290   | 238   | 207   | 251   | 342   | 246   |
| Current Xbox Game Pass Ending Balance          | 12      | 12   | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Future Xbox Game Pass Ending Balance           | 17      | 23   | 30   | 37    | 44    | 51    | 58    | 65    | 70    | 75    |
| Scaling Factor                                 | 1.4     | 1.9  | 2.5  | 3.1   | 3.6   | 4.3   | 4.8   | 5.4   | 5.8   | 6.3   |
| Total Hours for New ZeniMax Content            | 97      | 158  | 114  | 334   | 290   | 238   | 207   | 251   | 342   | 246   |
| Scaling Factor                                 | 1.4     | 1.9  | 2.5  | 3.1   | 3.6   | 4.3   | 4.8   | 5.4   | 5.8   | 6.3   |
| Xbox Game Pass Hours from New Releases         | 139     | 302  | 289  | 1,036 | 1,054 | 1,020 | 998   | 1,359 | 1,993 | 1,539 |
| Total Hours from ZeniMax Back Catalog          | 0       | 100  | 100  | 85    | 72    | 61    | 52    | 44    | 37    | 32    |
| Total Xbox Game Pass Hours for ZeniMax Content | 139     | 402  | 389  | 1,121 | 1,126 | 1,081 | 1,050 | 1,403 | 2,030 | 1,571 |

Note: Xbox Game Pass ending balance was ~12 million at the time of the original engagement forecast. Engagement (hours) projection assumes day-and-date release and based on guidance from Xbox Game Pass Business Planning. 1. Xbox Game Pass Total Hours for ZeniMax Content is new content added to the service scaled to current sub EB. 2. Xbox Game Pass Total Hours for ZeniMax Content includes new titles and back catalog effect.

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## ZeniMax Management Forecast

| Title Releas | se Schedule  |  | Revenue Forecast by  | y Title |               |             |          |         |
|--------------|--|--|----------------------|---------|---------------|-------------|----------|---------|
|              | Console/PC   | F2P/Mobile   |                      |         | Fiscal year e | ending Dece | mber 31, |         |
| EVOOE        | DOOM Eternal & DLC     The Elder Scrells Online: Creumaer                          | <ul><li>Fallout Shelter Online</li><li>Project Whirlwind</li></ul> | \$, Millions         | FY20E   | FY21E         | FY22E       | FY23E    | FY24E   |
| FY20E        | <ul><li>The Elder Scrolls Online: Greymoor</li><li>Fallout: Wastelanders</li></ul> | <ul> <li>Project while while</li> </ul>                            | DOOM Eternal         | \$390   | \$120         | \$45        | \$25     | \$20    |
|              | <ul> <li>Deathloop</li> </ul>  |  | Elder Scrolls Online | 200     | 190           | 180         | 160      | 125     |
|              | Starfield  | <ul> <li>Project Ubu</li> </ul>                                    | Fallout 76           | 80      | 45            | 35          | 35       | 35      |
|              | <ul> <li>Elder Scrolls Online: Expansion</li> </ul>                                | <ul> <li>Project Wanderer</li> </ul>                               | Deathloop            | 55      | 35            | 10          | 5        | -       |
|              | Redfall  |  | Starfield            | -       | 600           | 215         | 50       | 35      |
| FY21E        | <ul><li>DOOM Eternal DLC</li><li>Ghostwire: Tokyo</li></ul>                        |  | Redfall              | -       | 155           | 45          | 25       | 20      |
|              | <ul> <li>Fallout Worlds (Fallout 76)</li> </ul>                                    |  | Ghostwire            | -       | 60            | 30          | 10       | 5       |
|              | <ul> <li>Project Hibiki</li> </ul>   |  | Project Hibiki       | -       | 35            | 15          | 10       | 5       |
|              | <ul> <li>Indiana Jones Game</li> </ul>   | <ul> <li>3 planned titles</li> </ul>                               | Indiana Jones Game   | -       | -             | 230         | 55       | 25      |
| FY22E        | Oblivion Remaster  |  | Oblivion Remaster    | -       | -             | 190         | 55       | 40      |
| FIZZE        | Elder Scrolls Online: Expansion  |  | DOOM Year Zero       | -       | -             | -           | 455      | 140     |
|              | Starfield DLC  |  | Project Kestrel      | -       | -             | -           | 280      | 275     |
|              | <ul> <li>DOOM Year Zero &amp; DLC</li> </ul>                                       | <ul> <li>1 planned title</li> </ul>                                | Project Platinum     | -       | -             | -           | 125      | 35      |
| FY23E        | Project Kestrel  |  | The Elder Scrolls VI | -       | -             | -           | -        | 1,000   |
| I I Z J L    | <ul><li>Elder Scrolls Online: Expansion</li><li>Project Platinum</li></ul>         |  | Licensed IP Game     | -       | -             | -           | -        | 225     |
|              |  |  | . Fallout 3 Remaster | -       | -             | -           | -        | 190     |
|              | The Elder Scrolls VI   | <ul> <li>1 planned title</li> </ul>                                | Ghostwire 2          | -       | -             | -           | -        | 90      |
|              | <ul><li>Project Kestrel: Expansion</li><li>Licensed IP Game</li></ul>              |  | Dishonored 3         | -       | -             | -           | -        | 90      |
|              | <ul> <li>Fallout 3 Remaster</li> </ul>   |  | Total                | \$725   | \$1,240       | \$995       | \$1,290  | \$2,355 |
| FY24E        | <ul> <li>Elder Scrolls Online: Expansion</li> </ul>                                |  | Free to Play         | 45      | 140           | 190         | 275      | 215     |
|              | Ghostwire: Tokyo Sequel     Diakan arad 2  |  | Catalog / Other      | 135     | 120           | 115         | 85       | 70      |
|              | <ul><li>Dishonored 3</li><li>DOOM Year Zero DLC</li></ul>                          |  | Total                | \$905   | \$1,500       | \$1,300     | \$1,650  | \$2,640 |

Source: Company Presentation Note: Forecast reflects non-GAAP revenue

### Forecast Comparison

|   | Fiscal year ending Dec 31          |               |       | Μ       | lanagem       | ent Fore | cast          |         |              |               | Microso | ft Foreca | st              |         |   |
|---|------------------------------------|---------------|-------|---------|---------------|----------|---------------|---------|--------------|---------------|---------|-----------|-----------------|---------|---|
|   | A                                  | 5/104         | 5/205 | 5/045   | 5/005         | 5/225    | 5/0/5         | CAGR/   |              |               | 5/225   |           |                 | CAGR/   | Commonte  |
|   | \$, Millions                       | FY19A         | FY20E | FY21E   | FY22E         | FY23E    | FY24E         | Avg Mrg | FY20E        | FY21E         | FY22E   | FY23E     | FY24E           | Avg Mrg | <u>Comments:</u>  |
| 1 | Revenue                            | \$540         | \$873 | \$1,567 | \$1,393       | \$1,566  | \$2,607       |         | \$716        | \$1,528       | \$934   | \$698     | <b>\$</b> 2,119 |         | 1 Revenue:  |
| _ | % Growth                           | 5%            | 62%   | 79%     | (11%)         | 12%      | 66%           | 37%     | 33%          | 114%          | (39%)   | (25%)     | 203%            | 31%     | <ul> <li>Buy case assumes<br/>lower total revenue<br/>than management</li> </ul>    |
|   | 2003                               | <b>\$14</b> 5 | \$149 | \$232   | \$230         | \$280    | <b>\$</b> 384 |         | \$122        | \$226         | \$154   | \$125     | \$312           |         | forecast due to scaled<br>down performance in<br>complementary titles               |
|   | Gross Profit                       | <b>\$395</b>  | \$725 | \$1,335 | \$1,164       | \$1,286  | \$2,223       |         | <b>\$594</b> | \$1,302       | \$780   | \$573     | \$1,807         |         | <b>2</b> Gross Margin:  |
| 2 | % Margin                           | 73%           | 83%   | 85%     | 84%           | 82%      | 85%           | 82%     | 83%          | 85%           | 84%     | 82%       | 85%             | 82%     | <ul> <li>Buy case margin<br/>percentage consistent</li> </ul>                       |
| 3 | Operating Expenses                 | \$455         | \$594 | \$726   | \$728         | \$799    | \$923         |         | \$594        | \$613         | \$653   | \$696     | \$743           |         | with management<br>forecast   |
|   | Accountability Margin <sup>0</sup> | (\$61)        | \$130 | \$609   | <b>\$4</b> 35 | \$487    | \$1,299       |         | (\$1)        | \$689         | \$128   | (\$123)   | \$1,064         |         | <b>3</b> Operating Expenses:  |
|   | % Margin                           | (11%)         | 15%   | 39%     | 31%           | 31%      | 50%           | 26%     | (0%)         | 45%           | 14%     | (18%)     | 50%             | 13%     | <ul> <li>Buy case operating<br/>expense figures based<br/>on assumptions</li> </ul> |
|   | EBITDA (ind. SBC)                  | (\$38)        | \$152 | \$640   | \$468         | \$509    | \$1,319       |         | (\$1)        | <b>\$71</b> 5 | \$156   | (\$104)   | \$1,097         |         | in slide 6  |
|   | % Margin                           | (7%)          | 17%   | 41%     | 34%           | 33%      | 51%           | 28%     | (0%)         | 47%           | 17%     | (15%)     | 52%             | 16%     |   |

Source: Company Presentation

Note: CAGR and average margin based on 2019A - 2024E

(1) GAAP financials, including SBC and adjusted for capitalized R&D for consistency with Microsoft accounting practices

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### CY15-CY19 Top 20 Most Engaged Xbox Franchises

| Rank | Franchise           | Publisher           | Total Hours Played (B) | Monthly Average Users (M) | Average Annual Playtime (Hours) |
|------|---------------------|---------------------|------------------------|---------------------------|---------------------------------|
| 1    | Fortnite            | Epic Games          | 10.9                   | 12.8                      | 212                             |
| 2    | Call of Duty        | Activision Blizzard | 9.9                    | 11.4                      | 219                             |
| 3    | FIFA                | Electronic Arts     | 6.6                    | 6.7                       | 247                             |
| 4    | Grand Theft Auto    | Take Two            | 6.4                    | 6.9                       | 233                             |
| 5    | NBA 2K              | Take Two            | 4.0                    | 3.5                       | 285                             |
| 6    | Minecraft           | Xbox Game Studios   | 3.9                    | 7.7                       | 127                             |
| 7    | Destiny             | Bungie              | 3.3                    | 2.0                       | 420                             |
| 8    | Tom Clancy's        | Ubisoft             | 2.8                    | 3.3                       | 213                             |
| 9    | Madden NFL          | Electronic Arts     | 2.1                    | 2.7                       | 191                             |
| 10   | Forza               | Xbox Game Studios   | 2.0                    | 4.6                       | 109                             |
| 11   | Battlefield         | Electronic Arts     | 1.9                    | 3.4                       | 142                             |
| 12   | Halo                | Xbox Game Studios   | 1.5                    | 3.3                       | 112                             |
| 13   | Fallout             | ZeniMax             | 1.4                    | 1.6                       | 218                             |
| 14   | Assassin's Creed    | Ubisoft             | 1.4                    | 2.6                       | 131                             |
| 15   | The Elder Scrolls   | ZeniMax             | 1.4                    | 1.3                       | 262                             |
| 16   | Roblox              | Roblox              | 1.3                    | 3.2                       | 104                             |
| 17   | Overwatch           | Activision Blizzard | 1.2                    | 1.9                       | 165                             |
| 18   | Gears of War        | Xbox Game Studios   | 1.0                    | 1.8                       | 131                             |
| 19   | Rocket League       | Epic Games          | 0.9                    | 2.4                       | 96                              |
| 20   | Red Dead Redemption | Take Two            | 0.9                    | 0.9                       | 231                             |

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### FY20 Top 20 Most Engaged Xbox Game Pass Titles

| Rank | Title                            | Publisher            | FY20 Xbox Game Pass Hours Played (M) | Monthly Avg. Engaged Subscribers (M) | Average FY20 Hours per Subscriber |
|------|----------------------------------|----------------------|--------------------------------------|--------------------------------------|-----------------------------------|
| 1    | Grand Theft Auto V               | Take Two             | 127                                  | 10.0                                 | 12.6                              |
| 2    | Minecraft                        | Xbox Game<br>Studios | 125                                  | 10.3                                 | 12.1                              |
| 3    | Forza Horizon 4                  | Xbox Game<br>Studios | 96                                   | 7.0                                  | 13.7                              |
| 4    | NBA 2K20                         | Take Two             | 70                                   | 4.0                                  | 17.6                              |
| 5    | Gears 5                          | Xbox Game<br>Studios | 56                                   | 4.0                                  | 13.9                              |
| 6    | Rocket League                    | Epic Games           | 47                                   | 5.3                                  | 8.9                               |
| 7    | Ark: Survival Evolved            | Studio Wildcard      | 45                                   | 3.0                                  | 14.5                              |
| 8    | Sea of Thieves                   | Xbox Game<br>Studios | 42                                   | 3.8                                  | 11.1                              |
| 9    | Red Dead Redemption 2            | Take Two             | 31                                   | 4.9                                  | 6.4                               |
| 10   | The Outer Worlds                 | Take Two             | 26                                   | 2.6                                  | 10.0                              |
| 11   | Dead By Daylight                 | 505 Games            | 22                                   | 2.4                                  | 9.4                               |
| 12   | Halo: Master Chief<br>Collection | Xbox Game<br>Studios | 20                                   | 3.1                                  | 6.5                               |
| 13   | The Witcher 3: Wild Hunt         | CD Projekt Red       | 19                                   | 2.9                                  | 6.7                               |
| 14   | State of Decay 2                 | Xbox Game<br>Studios | 18                                   | 2.0                                  | 9.4                               |
| 15   | Minecraft Dungeons               | Xbox Game<br>Studios | 16                                   | 2.4                                  | 6.5                               |
| 16   | Halo 5: Guardians                | Xbox Game<br>Studios | 15                                   | 2.4                                  | 6.0                               |
| 17   | Batman: Arkham Knight            | Warner Bros.         | 12                                   | 2.0                                  | 6.4                               |
| 18   | PUBG                             | PUBG Corp.           | 11                                   | 3.5                                  | 3.4                               |
| 19   | Human Fall Flat                  | Curve Digital        | 11                                   | 3.1                                  | 3.6                               |

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## Leadership Team

|               |   |        | Management Team   |
|---------------|---|--------|---|
| Name          | Title                                     | Joined | Prior Experience  |
| Robert Altman | Chairman & CEO                            | 1999   | President of First American Corporation, Partner at Clark Clifford  |
| James Leder   | President & COO                           | N/A    | N/A   |
| Cindy Tallent | EVP & CFO                                 | N/A    | CFO of Teligent, VP of Finance at GTE Spacenet  |
| Todd Vaughn   | SVP of Product Development                | 1998   | Deputy editor of PC Gamer Magazine  |
| Todd Howard   | Executive Producer, Bethesda Game Studios | 1994   | Led development for The Elder Scrolls: Oblivion, The Elder Scrolls: Skyrim, Fallout 3, and other Bethesda games |
| Matt Firor    | President, ZeniMax Online Studios         | 2007   | VP of Product Development at Mythic Games, Founder of Ultra Mega Games  |

|                   | Board of Directors                            |        |   |  |  |  |  |  |  |
|-------------------|---|--------|---|--|--|--|--|--|--|
| Name              | Title / Affiliation                           | Joined | Experience  |  |  |  |  |  |  |
| Robert Altman     | Chairman & CEO                                | 1999   | President of First American Corporation, Partner at Clark Cliifford                               |  |  |  |  |  |  |
| Jerry Bruckheimer | Jerry Bruckheimer Films                       | 2014   | Film and television producer; Founder of Jerry Bruckheimer Films                                  |  |  |  |  |  |  |
| Ernest Del        | Senior Advisor                                | 1999   | Board Member of Silver Eagle Acquisition Corp and Delivery Agent                                  |  |  |  |  |  |  |
| Michael Dominguez | Managing Director, Providence Equity Partners | 2007   | Board Member of The Chermin Group, EdgeConneX, OUTFRONT Media, RentPath, TAIT, Topgolf            |  |  |  |  |  |  |
| Leslie Moonves    | Private Investor                              | 2008   | Former Chairman and CEO of CBS Corporation  |  |  |  |  |  |  |
| Cal Ripken, Jr.   | President & CEO, Ripken Baseball              | 2008   | President and CEO of Ripken Baseball; Former Major League Baseball player                         |  |  |  |  |  |  |
| Harry Sloan       | Chairman and CEO, Global Eagle Holdings       | 1999   | Chairman and CEO of Global Eagle Acquisition Corp; Former Chairman and CEO of Metro-Goldwyn-Mayer |  |  |  |  |  |  |
| Robert Trump      | President, Trump Management                   | N/A    | President of Trump Management; Real estate developer  |  |  |  |  |  |  |

Source: Bloomberg, Company Website, LinkedIn, PitchBook

## Trading Comparables

| \$, millions        | Price    | % 52-wk | Equity            | Enterprise | EV/Rev | enue   | EV/EBITDA | (Incl. SBC) | Rev      | enue     | Revenue ( | Growth | EBITDA Margin | (Incl. SBC) |
|---------------------|----------|---------|-------------------|------------|--------|--------|-----------|-------------|----------|----------|-----------|--------|---------------|-------------|
| ex. per share       | 7/24/20  | high    | Value             | Value      | CY 20E | CY 21E | CY 20E    | CY 21E      | CY 20E   | CY 21E   | CY 20E    | CY 21E | CY 20E        | CY 21E      |
| Western             |          |         |                   |            |        |        |           |             |          |          |           |        |               |             |
| Activision Blizzard | \$79.99  | 97%     | \$62 <i>,</i> 878 | \$59,594   | 8.1x   | 7.7x   | 22.4x     | 20.7x       | \$7,313  | \$7,728  | 13%       | 6%     | 36%           | 37%         |
| Electronic Arts     | \$135.24 | 95%     | \$40,330          | \$35,595   | 5.9x   | 5.7x   | 19.6x     | 19.3x       | \$6,009  | \$6,244  | 12%       | 4%     | 30%           | 30%         |
| Take-Two            | \$156.02 | 100%    | \$18,644          | \$16,009   | 5.2x   | 4.7x   | NM        | NM          | \$3,064  | \$3,391  | 7%        | 11%    | 15%           | 12%         |
| Ubisoft             | \$82.62  | 88%     | \$10,290          | \$10,698   | 4.1x   | 3.2x   | NM        | 27.4x       | \$2,636  | \$3,371  | 37%       | 28%    | 6%            | 12%         |
|                     |          |         |                   | Mean       | 5.8x   | 5.3x   | 21.0x     | 22.5x       | \$4,756  | \$5,183  | 17%       | 12%    | 22%           | 23%         |
|                     |          |         |                   | Median     | 5.6x   | 5.2x   | 21.0x     | 20.7x       | \$4,537  | \$4,817  | 12%       | 8%     | 23%           | 21%         |
|                     |          |         |                   |            |        |        |           |             |          |          |           |        |               |             |
| <u>Japanese</u>     |          |         |                   |            |        |        |           |             |          |          |           |        |               |             |
| Nintendo            | \$450.46 | 92%     | \$53 <i>,</i> 660 | \$39,921   | 3.1x   | 3.2x   | 10.2x     | 10.1x       | \$12,819 | \$12,341 | 11%       | (4%)   | 30%           | 32%         |
| Square Enix         | \$55.46  | 97%     | \$6,624           | \$5,438    | 1.8x   | 1.8x   | 12.9x     | 10.4x       | \$2,950  | \$3,026  | 11%       | 3%     | 14%           | 17%         |
| Capcom              | \$37.98  | 94%     | \$4,054           | \$3,494    | 4.3x   | 3.9x   | 15.4x     | 11.6x       | \$807    | \$895    | (7%)      | 11%    | 28%           | 34%         |
|                     |          |         |                   | Mean       | 3.1x   | 3.0x   | 12.9x     | 10.7x       | \$5,525  | \$5,421  | 5%        | 3%     | 24%           | 28%         |
|                     |          |         |                   | Median     | 3.1x   | 3.2x   | 12.9x     | 10.4x       | \$2,950  | \$3,026  | 11%       | 3%     | 28%           | 32%         |

Note: Financials are GAAP and IFRS figures; EBITDA includes SBC and is adjusted for capitalized R&D for consistency with Microsoft accounting practices for western comparables

### Precedent Transactions

| 06/01/20   | Target<br>Peak Games<br>Jagex | Acquirer<br>Zynga                          | Value (\$M)      | Revenue | EBITDA | Target Main Titles  |
|------------|-------------------------------|--|------------------|---------|--------|---|
|            |                               | Zvnga                                      |                  |         |        | Talget Main Thes  |
| 04/28/20   | Jagex                         |  | \$1,800          | 2.8x    | 15.0x  | Toon Blast, Toy Blast   |
| 04/20/20 3 |                               | Macarthur Fortune Holding                  | \$530            | 4.4x    | NA     | Runescape   |
| 02/19/20   | Saber Interactive             | Embracer Group                             | \$525            | 5.0x    | 8.5x   | World War Z, Show Runner, The Witcher 3, NBA Playgrounds, Halo Online     |
| 08/26/19   | Seriously                     | Playtika                                   | \$275            | 5.0x    | NA     | Best Fiends   |
| 08/19/19 I | Insomniac Games               | Sony                                       | \$229            | NA      | NA     | Marvel's Spider-Man, Ratchet & Clank, The Unspoken, Song of the Deep      |
| 08/15/19   | Catalis/Curve Digital         | NorthEdge Capital                          | \$111            | NA      | NA     | Embr, Hotshot Racing, A Knight's Quest, American Fugitive, Beholder       |
| 12/20/18 9 | Small Giant Games             | Zynga                                      | \$560            | NA      | NA     | Rope Racers, Empires & Puzzles  |
| 09/13/18   | Shengqu Technology Holdings   | Zhejiang Century Huatong Group             | \$4,344          | NA      | NA     | Ragnarok Online, Dungeons & Dragons, The World of Legend, MapleStory      |
| 09/06/18   | CCP Games                     | Pearl Abyss                                | \$225            | NA      | NA     | Eve, Dust 514, Gunjack  |
| 08/15/18 I | Bluehole Studio               | Tencent                                    | \$509            | NA      | NA     | TERA, Devilian, PlayerUnknown's Battlegrounds, PUBG                       |
| 06/10/18 I | Ninja Theory                  | Microsoft                                  | \$117            | 6.0x    | 16.0x  | Hellblade, Bleeding Edge, VR Projects                                     |
| 05/30/18   | Avalanche Studios             | Nordisk Film                               | \$136            | NA      | NA     | Just Cause, Mad Max   |
| 02/14/18 I | Koch Media                    | THQ Nordic                                 | \$149            | NA      | NA     | Saint's Row, Metro games (under Deep Silver)                              |
| 11/29/17 I | Big Fish Games                | Aristocrat Technologies                    | \$990            | 2.2x    | 11.9x  | Drawn, Fairway Solitaire, Hidden Expedition                               |
| 11/09/17 I | Respawn Entertainment         | Electronic Arts                            | \$315            | NA      | NA     | Titanfall, Star Wars VR   |
| 02/01/17 9 | Social Point                  | Take-Two Interactive Software              | \$250            | 2.8x    | 12.6x  | Dragon City, Monster Legends  |
| 07/04/16 9 | Splash Damage                 | Leyou Technologies                         | \$150            | NA      | NA     | Blockbuster sequels: Wolfenstein, Enemy Territory, Gears of War           |
| 06/21/16 9 | Supercell                     | Tencent Holdings                           | \$10,200         | 4.4x    | 11.0x  | Clash of Clans, Hay Day and Battle Buddies                                |
| 11/02/15 I | King Digital                  | Activision Blizzard                        | \$5 <i>,</i> 900 | 2.8x    | 8.2x   | Candy Crush, Farm Heroes, Pet Rescue                                      |
| 06/09/15   | China Mobile Games            | Pegasus Investment                         | \$689            | 3.4x    | NM     | Candleman, Storm Battleship, Sealed Dragon                                |
| 04/26/15 I | Perfect World                 | Founder take private                       | \$840            | 1.4x    | 9.6x   | Perfect World, Legend of Martial Arts, Perfect World II, Zhu Xian, Chi Bi |
| 04/03/15 5 | Shanda Games                  | Capitalhold Limited                        | \$1,900          | 3.2x    | 9.2x   | AION, Maple story, The World of Legend, Ragnarok Online                   |
| 11/12/14 I | Big Fish Games                | Churchill Downs                            | \$485            | 1.6x    | 7.8x   | Drawn, Fairway Solitaire, Hidden Expedition                               |
| 10/14/14 I | Digital Extremes              | Multi Dynamic Games/Perfect Online Holding | \$120            | NA      | NA     | Warframe, The Darkness  |
| 09/15/14 I | Mojang AB                     | Microsoft Corporation                      | \$2,500          | 7.6x    | 9.6x   | Minecraft franchise   |
|            | Giant Interactive             | Chairman & PE consortium take private      | \$990            | 2.5x    | 4.0x   | ZTOnline  |
| 01/30/14   | NaturalMotion                 | Zynga                                      | \$487            | 7.9x    | NM     | BackBreaker, CSR Racing   |
|            | Supercell                     | Softbank                                   | \$3,000          | 3.4x    | NA     | Clash of Clans, Hay Day and Battle Buddies                                |
|            | Activision Blizzard           | Management Buyout                          | \$5,830          | 1.4x    | 5.4x   | World of Warcraft, Hearthstone  |
|            | Backflip Studios              | Hasbro                                     | \$160            | NA      | NA     | Paper Toss, Dragonvale  |
|            | PopCap Games                  | Electronic Arts                            | \$750            | 7.4x    | NA     | Alchemy, Bejeweled, Feeding Frenzy  |
|            | Bigpoint GmbH                 | Summit Partners/TA                         | \$350            | NA      | NA     | Battlestar Galactica, Farmerama, Drakensang, DarkOrbit, Seafight          |
|            | OpenFeint                     | GREE                                       | \$104            | NA      | NA     | Fruit Ninja, Galaxy on Fire, Birdstrike, 3D Rollercoaster Rush            |
| 02/04/11   | Riot Games                    | Tencent                                    | \$472            | NA      | NA     | League of Legends   |
|            |                               |  | Mean             | 4.0x    | 9.9x   |   |
|            |                               |  | Median           | 3.4x    | 9.6x   |   |

Source: Company Filings, 451 Research

Note: EBITDA includes capitalized R&D and excludes amortized R&D for all transactions other than Big Fish Games, Peak Games, Saber Interactive, Social Point and Supercell, where targets ' accounting for R&D is not available.

### 1. | STRATEGY OVERVIEW

#### 1.1. | Market Opportunity

The game industry generated \$182 billion<sup>1</sup> in total revenue in 2019—larger than the global home video, movie box office, and music industries<sup>2</sup> combined—and continues to grow. Software & services revenue, the primary measure of industry health and >90% of total industry revenue, has seen steady growth, nearly 10% annually, from 2017-2022<sup>1</sup>. Console remains a key driver of software & services revenue (\$38 billion) along with Mobile (\$87 billion) and PC Client (\$32 billion)<sup>1</sup>. Today, 1 in 3 people in the world plays games, 2.6 billion<sup>3</sup> in total. In the next decade, we estimate that the number of players worldwide will grow to exceed 4 billion. Microsoft, which accounts for 6% of global revenue and players, has significant headroom for growth in this rapidly expanding market<sup>4</sup>.

Gaming—which is computationally intensive, accounts for 72%<sup>5</sup> of mobile store spend, and drives 20%<sup>6</sup> of non-browser time across all consumer Windows 10 machines—also represents a high-value cloud workload and potential growth vector for Azure.

#### 1.2. | Strategic Thesis

Microsoft's opportunity is to expand its share of an at-scale and growing industry. Our perspective on growth remains unchanged and is grounded in our worldview:

Today, the game industry is largely organized around devices. This structure runs counter to the desires and motivations of both players and publishers. We believe the industry will reorganize, moving from a device-centric paradigm to one that orients around the player. Our opportunity is to expand our presence in a large and growing industry by powering this transformation, including establishing relationships with more players on more endpoints in more geographies. Our underlying strategic thesis also remains constant—Xbox is the best place to play, empowering people to play the games they want, with the people they want, anywhere they want. As our ecosystem evolves, membership, in our services across devices, becomes our platform. This requires:

- Content: to attract and engage players across our platform and services
- Community: to create an ecosystem for discovery, purchase, and engagement
- Cloud: to provide ubiquitous content access and presence across endpoints

<sup>&</sup>lt;sup>1</sup> Consensus analyst estimates, public filings, internal analysis ("CY2019 Game Industry Sizing").

<sup>&</sup>lt;sup>2</sup> PricewaterhouseCoopers ("Global Entertainment and Media Outlook, 2016-2020"). Home video includes DVDs, video-on-demand, streaming services (e.g. Netflix). Music includes CDs, digital purchases, subscription services, and ticket sales.

<sup>&</sup>lt;sup>3</sup> Analyst estimates, internal analysis ("CY2019 Gamer Value").

<sup>&</sup>lt;sup>4</sup> Public financial disclosure, equity research, internal analysis ("CY2019 Game Industry Profit Pools").

<sup>&</sup>lt;sup>5</sup> AppAnnie "State of Mobile 2020". Includes iOS App Store and Android Google Play.

<sup>&</sup>lt;sup>6</sup> Windows 10 Telemetry.

#### 1.3. | Xbox Game Pass

We envision a world in which players are empowered to play their games anywhere and publishers can reach players everywhere. Xbox Game Pass, supported by Project xCloud and Xbox Series X, embodies our vision:

- Xbox Game Pass. Xbox Game Pass provides members access to 100s of games for a single monthly fee. More importantly, Xbox Game Pass both reduces barriers for players to discover games, riding the broader shift in entertainment toward subscriptions, and creates fertile ground for publishers to monetize their games. Xbox Game Pass will become our long-term consumer-facing platform. Scaling Xbox Game Pass is the primary strategic objective for the Gaming CSA.
- **Project xCloud.** Project xCloud migrates a game's computational workload from the device to the cloud, freeing high-fidelity games to play across a broader array of devices (e.g., console games streaming to mobile phones). This technological shift is a key enabler of the player-centric paradigm described in Section 1.2 and will extend Xbox Game Pass across devices.
- Xbox Series X. The next generation Xbox console, Xbox Series X, will launch in 2020. Series X, the best instantiation of our services and experiences, will accelerate Xbox Game Pass by providing critical onramps for new content and new subscribers.

### 2. | ACCELERATING XBOX GAME PASS GROWTH

#### 2

#### 2.1. | Key Lessons from Video

Similar to other entertainment markets, the transition to subscriptions in gaming offers a historic opportunity. We believe that an empirical review of the video industry yields three primary insights that are directly applicable to Xbox Game Pass:

#### A: Subscriber scale is <u>the</u> imperative for a successful subscription service.

Beyond the financial health that typically extends from business growth, subscriber scale is *essential* in building a subscription service. The advantage that scale affords becomes self-reinforcing across multiple key vectors:

 <u>Content Investment</u>. There is a virtuous relationship between content and subscriber scale. Content investments are better amortized across a larger subscriber base, improving per user economics and positioning a service to further invest in content. To illustrate, a hypothetical \$100 million investment would cost Netflix \$0.60 per subscriber, but would cost Hulu \$3.33 per subscriber. Due to this dynamic, Netflix is able to invest in more and better content for the same cost per subscriber, which enhances the value of its service for subscribers, and has resulted in 4x the number of subscribers and 2x the monthly average revenue per user of Hulu<sup>7</sup>.

- <u>Distribution</u>. At scale services achieve "most favored nation" status with non-content ecosystem partners (e.g., device manufacturers), further reinforcing the leader's position. For example, Spotify often enjoys distribution as the default music service for Android handset manufacturers because it is the largest, most prominent music service.
- <u>Pricing</u>. Premium pricing is a function of a service's underlying subscriber value. The virtuous cycle described above enables at scale services to invest in content, improve service value, and positively affect average revenue per user. By contrast, lagging services compete on price out of necessity. Comparing Netflix's (the leader) average revenue per user to those of lagging services between 2010 and 2020 illustrates that point:

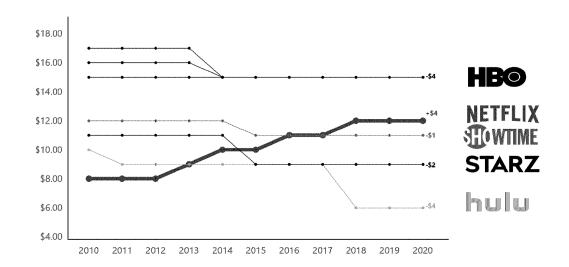


Figure 1: Effective Average Revenue Per User of Streaming Video Services<sup>8</sup>

#### B: Differentiated content is the primary driver of subscriber scale.

Content is the primary engine behind subscription growth. In digital video subscriptions, Netflix invested early and aggressively in its Originals program, content available exclusively on Netflix, creating a sustained advantage over competing services. To illustrate, when Netflix first released *Stranger Things* in 2016, quarterly subscriber growth accelerated 54%<sup>9</sup>, helping jumpstart the virtuous

<sup>&</sup>lt;sup>7</sup> Figures as of January 2019

<sup>&</sup>lt;sup>8</sup> Matthew Ball, January 2020

<sup>&</sup>lt;sup>9</sup> Netflix disclosure

cycle described above. Conversely, those services which took a more measured approach to content investment, saw the opposite dynamic, with content costs increasing on a per user basis, hampering their ability to invest and compete effectively. The relationship between differentiated content and subscriber growth is further evidenced by the fact that virtually every major content platform, across entertainment categories and business models, invests in differentiated content to drive growth.

With Xbox Games Pass, we also see a strong relationship, which we believe is causal, between differentiated content and subscriber growth:

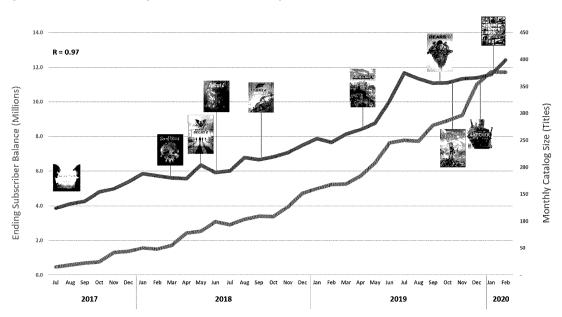


Figure 2: Xbox Game Pass Ending Subscriber Balance & Catalog Growth

Two dynamics underly this relationship. Improved catalog scale, quality, and diversity helps a service:

- 1. Cater to new demographics and grow subscribers by attracting new users
- 2. Improve engagement of existing subscribers, reducing churn and growing subscribers via retention

#### C: Content engagement is the best proxy for subscriber growth.

The long-term viability of a subscription service is based on the value it provides its subscribers. Content engagement, a proxy for service value, correlates closely with long-term subscriber growth. Netflix, whose service management is best-in-class, has operationalized the relationship between engagement and subscriber growth, informing content investments based on the predicted impact a title will have on service engagement and therefore subscribers.

Xbox Game Pass also sees a strong positive correlation between the increase in engagement and subscriber growth. Similar to Netflix, we inform our content investments by estimating the incremental

engagement hours a game will drive, based on historical precedents, to forecast the impact it will have on Xbox Game Pass subscriber growth:

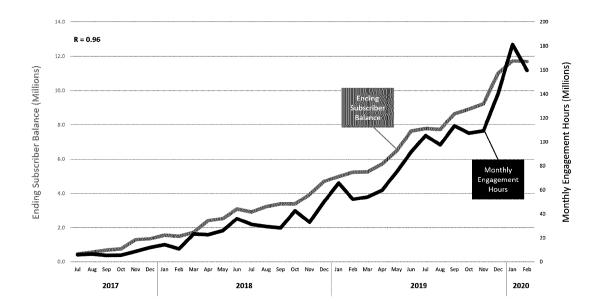


Figure 3: Growth of Xbox Game Pass Monthly Engagement Hours & Ending Subscriber Balance

#### 2.2. | Xbox Game Pass State of the Union

Xbox Game Pass is the leading content subscription service in gaming with nearly 15 million subscribers. We believe there is a nearly 750 million subscriber opportunity globally, with more than 250 million potential subscribers in our primary geographies. Achieving our subscriber ambitions is predicated on our ability to create value for our members and partners, beginning with continued investment in content. To that end, Xbox Game Pass faces 3 primary content dynamics:

- Need for Differentiated Content. For gaming, differentiated content means investing in content that is (i) exclusive to the service, to differentiate relative to other services, (ii) blockbuster in scale, to attract and engage users, and (iii) released on a "day-and-date" basis (i.e. releases in the service on the day it launches), to maximize the value of the content to subscribers.
- 2. Expanding Beyond Console. Console is a proven subscriber onramp for Xbox Game Pass, but the total opportunity is limited by the active installed base of Xbox consoles. PC and cloud dramatically expand our market opportunity; addressing that opportunity requires differentiated content that is attractive to players in those segments.
- 3. Limited Content Supply. Different than other entertainment markets, the supply of attractive games is structurally limited. Long development cycles, progressive industry consolidation, and high average engagement per title translate into a reduced content supply in gaming

relative to music or video. This complicates our ability to rent differentiated content across console, PC, and cloud.

#### 2.3. | Implications for Xbox Game Pass

Based on the parallels with the video industry highlighted in Section 2.1, Xbox Game Pass has a window of opportunity to make early and aggressive investments in content, accelerate subscriber scale, jumpstart the virtuous cycle realized by leading services, and create lasting value for our subscribers and partners. Given the dynamics illustrated in Section 2.2, we believe an acquisition of an at-scale content owner is our optimal path to realize this opportunity.

### 3. ZENIMAX

3

#### 3.1. | Company Overview

Headquartered in Rockville, Maryland, ZeniMax Media is one of the largest privately held game developers and publishers in the world. ZeniMax's eight core development studios and multiple support teams are led by some of the world's pre-eminent game creators and span the globe, with locations in Maryland, Texas, Sweden, Canada, Germany, France, and Japan. ZeniMax has ~2,400 full time employees, and in CY2019, it generated \$540 million of revenue.

ZeniMax's key assets, all based on owned franchises, include:

- <u>Tentpole Franchises</u>: ZeniMax's *Elder Scrolls* and *Fallout* are among the industry's leading franchises and would provide the blockbuster experiences required to accelerate the growth of Xbox Game Pass and anchor our expansion across console, PC, and cloud. In addition to their proven commercial strength (30+ million units sold per release), these franchises also drive outsized engagement that is well-suited for a subscription service. For example, *The Elder Scrolls* and *Fallout* were among the top-15 most-played franchises on Xbox from 2015 to 2019, ahead of *Red Dead Redemption* and *Gears of War*, with an average per-user playtime in excess of 200 hours annually, roughly twice that of *Halo*<sup>10</sup>. Both franchises are also notable for their strength on PC and have recently extended to mobile.
- <u>Complementary Franchises</u>: ZeniMax also publishes a broader portfolio of at-scale franchises that drive healthy transactional sales and are also proven performers in Xbox Game Pass. For example, a limited selection of back-catalog titles from ZeniMax's *Doom, Wolfenstein*, and *Rage* franchises has driven ~23 million hours of lifetime engagement for Xbox Game Pass, outperforming industry-leading franchises like Take-Two's *Borderlands* series<sup>10</sup>. Importantly, these complementary franchises release on both console and PC at a regular cadence across

<sup>&</sup>lt;sup>10</sup> Xbox Live telemetry

a variety of genres. Finally, ZeniMax has a deep console & PC backcatalog that would provide critical content scale and drive additional Xbox Game Pass engagement.

Figure 4: ZeniMax Development Studios

| Studio                   | Location(s)                               | Employees | Franchise         | Commentary                           |
|--------------------------|---|-----------|-------------------|--------------------------------------|
| Tentpole Franc           | hises                                     |           |                   |                                      |
|                          |   |           | The Glder Scrolls | Fantasy role-playing game            |
| Bethesda Game<br>Studios | Rockville, MD<br>Austin, TX<br>Dallas, TX | 400       | Fallout           | Dystopian future role-playing game   |
|                          |   |           | Starfield         | New space-based role-playing game    |
| ZeniMax<br>Online        | Hunt Valley, MD                           | 400       | The Glder Scrolls | Online multiplayer role-playing game |
| Complementar             | y Franchises                              |           |                   |                                      |
| Machine<br>Games         | Uppsala, Sweden                           | 150       | Waltenstein       | Reboot of 1990's classic shooter     |
| ld                       |   |           | paam              | Reboot of 1990's classic shooter     |
| Software                 | Richardson, TX                            | 250       | φυακέ             | Reboot of 1990's classic shooter     |
| Tango<br>Gameworks       | Tokyo, Japan                              | 90        | CHOSTWIRE         | Japanese survival horror games       |
| Arkane<br>Studios        | Austin, TX<br>Lyon, France                | 240       | "DEATHLOOP"       | New "immersive simulation"           |
| Roundhouse<br>Studios    | Madison, WI                               | 40        | PRE/Y             | Acquired in November 2019            |
| Alpha Dog<br>Games       | Halifax, NS                               | 15        | New mobile studio | Acquired in October 2019             |

We believe ZeniMax's portfolio of tentpole and complementary franchises would provide the content infusion necessary to accelerate Xbox Game Pass subscriber growth across console, PC, and cloud.

#### 3.2. | Alternative Acceleration Opportunities

As described in Section 2.2, there is a limited number of at-scale content owners in the industry. Each potential target comes with its own unique set of advantages and considerations. Over time, as we continue to scale Xbox Game Pass, we may find it advantageous to pursue multiple acquisitions, for example, as we extend into Asia. Relative to other acquisition targets, we believe ZeniMax's deep portfolio of owned franchises with a proven ability to attract and engage subscribers across console, PC, and cloud would help us accelerate Xbox Game Pass growth in our current markets, and in turn, lay the foundation for long-term growth and economic return.

To summarize the leading acquisition targets:

| Company                                   | Enterprise Value | Commentary  |
|---|------------------|---|
| ZeniMax Media                             | Privately held   | Deep stable of owned franchises with strength<br>on console & PC  |
| Activision Blizzard                       | \$60 billion     | Best-in-class content, built on owned<br>franchises, spanning console, PC, & mobile                     |
| Bandai Namco                              | \$10 billion     | Asia-focused publisher with owned franchises and strength in console & mobile                           |
| Electronic Arts                           | \$36 billion     | Console-centric content portfolio; heavy reliance on licensed intellectual property                     |
| Square Enix                               | \$5 billion      | Asia-focused publisher with owned franchises and strength in console & mobile                           |
| Take-Two Interactive                      | \$16 billion     | Deep stable of owned franchises with strength<br>on console & PC  |
| Ubisoft                                   | \$11 billion     | Console-centric content portfolio; mix of<br>owned franchises & licensed intellectual<br>property       |
| Valve                                     | Privately held   | Stale but relevant owned PC franchises; owns the world's largest 3 <sup>rd</sup> party PC store (Steam) |
| Warner Bros. Interactive<br>Entertainment | AT&T subsidiary  | High dependence on licensed intellectual property; strength on console & mobile                         |

Figure 5: Camparison of ZeniMax and Alternative Acquisition Opportunities  $^{\prime\prime}$ 

<sup>&</sup>lt;sup>11</sup> Enterprise values as of July 7, 2020.

### 4. | ACQUISITION ECONOMICS

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- 3
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- 4.1. | Operating Plan

The ultimate integration plan for ZeniMax would be determined in conjunction with the company's management team as part of due diligence and planning. However, our long-term objective is to have ZeniMax's leadership team report to Phil Spencer with the following guidance:

- We will continue to develop and sell all acquired games and franchises on all relevant platforms (e.g., Android, iOS, PlayStation, Steam, Switch, Windows, Xbox, etc.).
- We will launch all acquired games and franchises with subscription exclusivity into Xbox Game Pass on console, PC, and cloud; future releases will ship into Xbox Game Pass on a day-and-date basis.

#### 4.2. | Value Drivers

The primary economic levers of the acquisition can be summarized in two broad buckets:

- 1. <u>Xbox Game Pass Subscribers</u>. Subscription exclusivity of current and future releases will improve Xbox Game Pass' appeal and value to players. This will result in new subscribers across console, PC, and cloud. Further, the incremental engagement driven by these franchises will reduce existing subscriber churn. Together, these dynamics will greatly increase total Xbox Game Pass subscribers, accelerating the virtuous cycle described in Section 2.1.
- 2. <u>Game Transactions</u>. We will continue to sell acquired games and franchises across all game platforms. Releasing new games in Xbox Game Pass day-and-date potentially shifts base game sales to the subscription service; however, we observe that games in Xbox Game Pass typically have a larger player base and see a lift in post-sale monetization.

### 5. | KEY RISKS

#### 5

Microsoft has limited experience with major publisher acquisitions. Our preliminary integration plan is intended to preserve a degree of cultural and operating autonomy by having ZeniMax's leadership team report directly to Phil Spencer. However, there is a risk that this plan may not completely account for cultural and/or other integration challenges. In particular:

- <u>Reliance on primary franchises</u>: The majority of ZeniMax's revenues is consistently driven by two tentpole franchises: *Elder Scrolls* and *Fallout*. The continued success of these franchises, along with their future releases, is critical to the case for acquisition.
- <u>Nascent mobile and live service capabilities:</u> ZeniMax's previous attempts to bring its proven franchises (i.e. *Elder Scrolls, Fallout*) onto mobile endpoints (e.g. *Fallout Shelter*) or translating them into multiplayer experiences (e.g. *Elder Scrolls Online*) have seen limited success.

### 6. CONCLUSION

The opportunity to accelerate our ambitions in gaming with Xbox Game Pass is now. As the industry undergoes meaningful transition, new economic value will be created and existing economic value will be reorganized. Other key Microsoft competitors (e.g., Google, Tencent, Amazon, etc.) perceive this shift as well, and are also investing in content subscriptions and cloud services. Acquiring ZeniMax Media would create sustained differentiation in this competitive environment.