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| 22 | SAN JOSE | |
| | FEDERAL TRADE COMMISSION, | Case No. 5:22-cv-04325-EJD |
| 23 | Plaintiff, | DEFENDANTS' PROPOSED |
| 24 | V. | POST-HEARING FINDINGS OF FACT AND CONCLUSIONS OF LAW |
| 26 | META PLATFORMS, INC., et al., | REDACTED VERSION OF DOCUMENT |
| 27 | Defendants. | SOUGHT TO BE SEALED |
| 28 | | Dept.: Courtroom 4 – 5th Floor Judge: Hon. Edward J. Davila |

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| 18 | § 13(b), 15 U.S.C. § 53(b) |
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PROPOSED POST-HEARING FINDINGS OF FACT

I. The Merging Parties and the Proposed Transaction

- 1. Defendant Meta Platforms, Inc. ("Meta") is a publicly traded corporation organized under Delaware law and headquartered in Menlo Park, California. See DX1237 at 11 (Meta Platforms, Inc., December 31, 2021 Form 10-K).
- Meta manufactures virtual reality ("VR") devices including the Quest 2 (which 2. sells for \$399 or \$499 depending on the model) and the Quest Pro (\$1,499) – and operates a VR platform from which VR users can access thousands of VR applications ("apps"). See Pruett Test. 273:20-23; see also DX1230 (Carlton Rep. ¶¶ 37, 44, 49) (discussing VR devices); DX1233 (Zyda Rep. ¶¶ 82, 84 & Fig. 1) (describing Meta's current VR market penetration).
- 3. Defendant Within Unlimited, Inc. ("Within") is a privately held company organized under the laws of Delaware with headquarters in Los Angeles, California. See DX1072 (Merger Agreement at 3).
- 4. Within is a VR app developer that makes Supernatural – a VR fitness and wellness app with approximately (as of October 2022) who pay \$19 per month or \$180 per year for access to a library of guided and unguided exercise courses, trainer-led workouts, and meditation sessions – which Meta distributes on its VR platform. See Koblin Test. 604:2-25 (describing Supernatural price, distribution, and services); DX1230 (Carlton Rep. ¶ 77) (; DX1232 (Vickey Rep. ¶ 30, Tbl. 1 & n.51)
- 5. On October 22, 2021, Meta and Within signed an Agreement and Plan of Merger pursuant to which Meta would acquire all of Within in a transaction valued . See DX1072 (Merger Agreement §§ 1.1, 1.3); PX0054 (Bosworth 156:4-7) (purchase price).
- 6. By its terms, either party can terminate the Merger Agreement if the transaction has not closed by April 23, 2023. See DX1072 (Merger Agreement § 7.1(b)).
- 7. The Federal Trade Commission ("FTC") seeks a preliminary injunction under Section 13(b) of the Federal Trade Commission Act, 15 U.S.C. § 53(b), barring Meta's acquisition

| 1 | . See DX1119 (|
|----|---|
| 2 | DX1118 (|
| 3 | 14. Within's prospects for raising additional funds, if the acquisition is blocked, |
| 4 | |
| 5 | . See Milk Test. 759:1-10 (|
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 |); Koblin Test. 642:4-18 (|
| 11 |), 664:4-15 (|
| 12 |); PX0062 (Milk 19:8-12, 212:20-215:3) |
| 13 | |
| 14 | |
| 15 | II. Meta Faces Intense and Growing VR Platform Competition |
| 16 | A. VR/AR Is Highly Dynamic, Nascent, and Competitive |
| 17 | 1. VR/AR Platform Entry Is Significant and Growing |
| 18 | 15. VR and "AR" (or augmented reality) devices are internet-connected platforms that |
| 19 | produce computer-generated images and sounds that may appear real, imaginary, or as a |
| 20 | combination of virtual and real elements. See DX1230 (Carlton Rep. ¶ 6 n.2) (describing VR, AR, |
| 21 | and "MR" or mixed reality); Carlton Test. 1360:16-1361:1; PX0054 (Bosworth 50:7-13) (similar). |
| 22 | 16. VR/AR devices are "nascent" in the sense that the technology is still developing and |
| 23 | changing rapidly. See DX1224 (Wyss 44:2-45:21) (|
| 24 |); DX1233 (Zyda Rep. ¶¶ 33, 83-84, 96 & Fig. 1) (VR remains a niche product with |
| 25 | limited consumer adoption); Zyda Test. 1214:8-21 ("virtual reality is a nascent and fragile industry |
| 26 | at this time"); DX1230 (Carlton Rep. § III.A); Carlton Test. 1358:2-13 ("although VR technology |
| 27 | has been around for a while, it's really changing rapidly right now, and we see a lot of firms that are |
| 28 | in VR platforms or have announced that they're coming in"); see also DX1290 (Janszen Decl. ¶ 10) |
| | 3 |

("The VR industry is still very new. VR is an emerging and dynamic technology space, with many companies investing heavily in hardware and poised to develop new VR hardware and equipment."); DX1223 (Janszen 22:18-24:8, 100:2-101:4) (similar).

17. Consumers have yet to adopt the technology in large numbers – total VR/AR device sales in the United States are a fraction of PC, smartphone, and gaming console sales – as VR's audience has so far been limited predominantly to younger males who use VR as a niche gaming platform. *See* Carlton Test. 1362:2-18 (explaining that penetration of "VR devices compared to other platforms is very low"); PX0050 (Zuckerberg 200:4-201:5) ("part of what we're trying to do is show that [VR] is more of a general computing device with multiple use cases that are not just gaming"); Zuckerberg Test. 1292:24-1294:10 (similar); DX1258 at 11 (

); DX1245 at 2 (); DX1246 at 11 (); DX1224 (Wyss 44:2-45:21) (); DX1230 (Carlton Rep. ¶¶ 34-35 & Tbl. 1) (

- 18. In many ways, the "biggest competition" for VR comes from not only other VR/AR platforms but also these "older gen devices" PCs, smartphones, and other general computing devices that currently have more apps and uses as to which Meta is "trying to build a competing platform." Rabkin Test. 804:8-21; *see also* Carlton Test. 1358:14-21 ("The overriding fact and the important fact in this industry is that people are investing billions, literally, in this industry in the hopes that VR platforms become a platform that penetrates the population and becomes very important. And to do that, you have to have a lot of apps so that people stop doing whatever they are doing with non-VR and be drawn into this app and hopefully buy a headset.").
- 19. Meta subsidizes its VR headset sales to attract users from these other platforms, selling its Quest devices at a loss, even after a recent price increase. *See* PX0050 (Zuckerberg 12:24-13:6); Bosworth Test. 1016:6-9.
- 20. A number of leading technology companies currently sell VR/AR devices in the United States, including Meta, Sony, HTC, and Valve. *See* DDX11.4 (identifying additional

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           23.
                  ByteDance (the parent company of TikTok) recently introduced new VR headsets in
 3
     Europe and Asia – the Pico 4 and Pico 4 Pro –
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                  . See DX1264 at 1 (
 5
                          ); DX1268 at 2 (
 6
                          ); DX1221 (Choate 10:9-14) (
 7
                    ); Garcia Test. 1072:3-1073:4 (noting that OhShape and Les Mills Bodycombat – a
 8
     VR fitness app – are both available on the ByteDance Pico device), 1100:20-25 (
 9
10
             ); see also Carmack Test. 566:19-25 (noting that Pico "replicated much of [Meta's VR]
11
12
     experience quite rapidly"); DX1233 (Zyda Rep. ¶¶ 92-93 & Tbl. 5) (
13
           ); DX1230 (Carlton Rep. ¶ 37) (
14
15
          ); Carlton Test. 1363:18-21 (similar).
16
           24.
17
                                                            See DX1255 at 3, 6 (
18
19
                                                      ); DX1257 at 4-5, 14-19 (
20
21
           ); see also DX1233 (Zyda Rep. ¶ 94) (
22
23
            ); DX1230 (Carlton Rep. ¶ 37) (
           25.
24
                                                                            ); DX1246 ( );
25
                 See DX1245 (
     DX1247 (
                                                       ); DX1248 (Payne 26:5-
26
     28:15, 34:15-37:13) (
                                             ); see also DX1230 (Carlton Rep. ¶ 37)
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28
     Defendants' Proposed Findings of Fact & Conclusions of Law
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Even in just the last several weeks, large consumer-electronics companies – HTC

and Qualcomm (with Niantic) – have announced that they will release VR/AR headsets (DDX11.4;

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information based on public reporting): Selected VR Hardware Sellers Now **Expected Soon** Meta Quest SONY PICO 4 SONY **△** VIVE DDX11.4 27. Meta anticipates substantial VR/AR entry and competition. See Bosworth Test. 1022:4-1023:2 (anticipating "tremendous competition" and entry, noting these are likely to have different platforms for app distribution); DX1015 at 16 (); PX0207 at 9 (); PX0050 (Zuckerberg 44:22-48:2, 178:35-20) (So do other VR/AR manufacturers and platform owners. See DX1246 at 5-6, 8 28.); DX1248 at 9 (); DX1226 (Payne 61:10-63:19) (); DX1262 at 2 (); DX1302 at 4 (); DX1303 at 34 (29. VR app developers likewise expect substantial new entry among VR/AR device manufacturers. See PX0062 (Milk 130:5-132:22, 145:14-24, 167:17-168:1) (

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Defendants' Proposed Findings of Fact & Conclusions of Law

); PX0065 (Koblin 78:13-80:24, 234:8-19) (); DX1291 (Garcia Decl. ¶ 11) ("Both consumers and developers alike currently have many different VR hardware platforms to choose from, including: Sony PlayStation VR (PSVR), HTC Vive Pro 2 and Cosmos, Valve Index VR, HP Reverb G2, Varjo Aero, Pico Neo 3 Pro, G2 4K, and Pico 4, among others.

Additionally, other major technology companies, like Apple and HTC, are widely and credibly speculated to be releasing new and updated VR headsets in the near-term future."); DX1220 (Garcia 52:13-19) (similar); Garcia Test. 1075:10-1076:17 (noting that Odders Labs has VR apps on several different platforms, including the Pico and Sony PSVR); DX1290 (Janszen Decl. ¶ 10) ("I expect that VR will continue to attract more developers, platforms, hardware providers, and users in the coming years."); Janszen Test. 1126:11-25 (discussing VirZOOM's expectation of entry from Apple and the ability to "port" the VR fitness app to that new platform), 1160:4-11 (describing discussions with Apple).

30. Venture capital investment in VR/AR – which does not include investment by the companies discussed above – was about \$10 billion in 2021 alone, demonstrating investors' expectation that the VR/AR ecosystem will grow rapidly in the future. *See* DX1230 (Carlton Rep. ¶ 40 & Fig. 1); Carlton Test. 1364:12-1365:10 ("people wouldn't be investing billions if they didn't expect the market to grow").

2. VR/AR Platforms Compete for Consumers by Offering Content-Rich Ecosystems with Many Apps

); *see also* DX1233 (Zyda Rep. ¶ 34) (

Zyda Test. 1215:3-10 (describing "a chicken and egg problem" – "if you don't have enough people who have acquired the headset, then developers are not going to . . . build a virtual reality experience for it," which can cause a nascent platform to fail).

32. That, in turn, will require VR/AR manufacturers to attract a wide range of third-party app developers to build out the VR/AR ecosystem with more than just games, e.g., productivity apps, social apps, educational apps, fitness apps, and more. See PX0050 (Zuckerberg 98:6-99:20) (discussing importance of third-party app developers to building "good content for the system"); Zuckerberg Test. 1271:25-1272:20, 1273:12-1274:22, 1291:6-1294:22, 1326:10-1328:16 (similar); DX1212 (Rubin 30(b)(6) 38:5-20) ("What we are trying to do is create a diversity of competitive apps against themselves in the ecosystem, not to win in the ecosystem. Winning in the ecosystem as a first party is bad, because it means that the ecosystem won't get investment from others who don't think they can compete with you. That is exactly the opposite of what we are trying to do."); PX0054 (Bosworth 204:21-205:8) ("No company can build every single useful application for a general purpose platform."); DX1224 (Wyss 21:12-19) (); DX1230 (Carlton Rep. ¶¶ 42-44, 144, 169) (

); DX1233 (Zyda Rep. ¶ 34) (

33. Meta recognizes that a crucial aspect of competition among VR/AR manufacturers – each of which operates a VR platform from which consumers can download apps – is to build a content-rich ecosystem of high-quality VR apps. See Pruett Test. 275:10-13 (attracting third-party VR app developers is "absolutely critical to the success of the product"); PX0050 (Zuckerberg 31:6-32:4) ("the history of computing suggests that building a technical platform without also offering the key apps" is "very hard to sustain"); Zuckerberg Test. 1272:1-4, 1291:6-1294:22 (similar); PX0054 (Bosworth 171:7-172:11, 204:21-205:8, 229:2-230:18) (attracting VR app developers

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36. For example, Meta distributes VR apps (almost all owned by third parties) on its Quest headsets through the Quest Store – which has hundreds of apps available for download (mostly games) – and the App Lab, an alternative distribution channel with thousands of apps available. *See* Pruett Test. 219:19-25, 260:16-22 (describing App Lab); *see also* DX1233 (Zyda Rep. ¶ 42 & Tbl. 3) (describing Meta's app distribution

Zyda Test. 1217:9-18 (discussing App Lab, and noting that making available a second distribution platform is "very unusual" among platform owners), 1217:19-1218:6 (noting that Meta permits "sideloading" of non-Meta apps onto the Quest device, which "not very many" platform owners permit); PX0053 (Pruett 36:3-9, 110:14-19, 114:23-115:7) (discussing Meta's App Lab).

- App Lab, to the benefit of both developers and consumers. *See* Pruett Test. 290:5-13 ("[W]e have run promotions for App Lab apps outside of the store."); *see also id.* 246:13-19 (explaining that Meta updates its store management in response to what it "learn[s] about what [VR] customers enjoy"), 262:3-12 ("[W]e have quite a bit of data to show that the curation strategy increases the quality of our product for our customers and then they enjoy that product"), 290:21:1-22 (testifying that there are third-party apps in App Lab that have become "multimillion dollar successes in App Lab").
- 38. Meta uses the Quest Store in particular to spotlight high-quality VR apps the overwhelming majority of which are third-party apps that Meta does not own to "increase customer value" for Quest users by making sure they can readily find high-quality content. Pruett Test. 280:2-25 (testifying that Meta's efforts to improve VR app quality "actually increase customer engagement" and "trust," leading them to "spend more money or engage with more applications"), 281:11-17 (noting that curation and promotion on app distribution stores are "common"); Garcia Test. 1084:20-1085:1 ("I think that Meta favors the best performing apps . . . I don't recall seeing an overly promoted app that didn't deserve that promotion or exposure.").
- 39. Ensuring some degree of app quality on the Quest Store is critical precisely because VR is nascent *see* DDX11.3 (showing limited VR headset penetration) and if a consumer's first experience with an app is low quality (e.g., induces motion sickness), then the consumer might

abandon the platform altogether. *See* Garcia Test. 1115:1-15; *see also* Pruett Test. 280:2-25 (explaining that store management "increase[s] customer engagement," benefitting app developers).

- 40. Reviewing for app quality is not a barrier to third-party app distribution: Christopher Pruett, Meta's Director of Content Ecosystem, explained that Meta gives third-party VR app developers support and feedback to improve app quality, such that even developers with apps that do not make it onto the Quest Store "the first time" will often "come back and apply again and make it through their second time." Pruett Test. 248:22:1-7, 277:7-14 (describing support for developers seeking Quest Store placement via "incubation programs, like Oculus Start"); Janszen Test. 1149:5-13 (noting VirZOOM was able to reapply for funding after being denied first time); see also Zyda Test. 1219:1-17 (noting that store management is "common for platforms" and that developers can "go fix" a rejected VR app "and resubmit" for access to the platform).
- 41. Meta populates the Quest Store (and App Lab) with third-party apps competitive with the few apps Meta owns. *See* Pruett Test. 278:5-279:8 (testifying that Meta distributes "a bunch" of VR rhythm games competitive with its own Beat Saber app); Rabkin Test. 807:2-808:22 (explaining that Meta seeks to attract these third-party developers in "every way possible"); *see also* Zyda Test. 1218:12-25 (explaining that it "doesn't make any sense" that Meta would ban apps "arbitrarily" from the Quest Store because it would "give Meta a bad name and developers would stop building [for] the platform"), 1219:8-24 (noting that Meta allows rhythm games similar to its own Beat Saber game to appear on the Quest Store for distribution to consumers); Garcia Test. 1084:6-19 (noting that Meta funded and distributed OhShape, a rhythm app similar to Beat Saber after Meta's acquisition of Beat Saber).
- 42. Quest users also can download VR apps from other app stores i.e., VR app distribution platforms that Meta does not own or control including SideQuest and Valve's SteamVR Store, which have hundreds (or thousands) of VR apps available for download on Quest and other VR devices. *See* Pruett Test. 274:8-21; DX1233 (Zyda Rep. ¶¶ 41, 46-47, 105 & Tbl. 3) (discussing other app distribution channels on the Quest platform); *see also* DX1303 at 22 (

| (listing Meta's content financing and funding); DX1060 (similar); DX1200 (Brown 30(b)(6) 11:12- |
|---|
| 14, 14:13-16, 16:23-17:1) (discussing Meta's financial assistance, |
| ; DX1212 (Rubin 30(b)(6) 38:5-20, 64:6-68:10) (describing some of Meta's |
| financial incentives and funding programs for third-party developers); PX0063 (Rabkin 47:7-19) |
| ("We have a wide array of programs to help new developers come to the platform or for existing |
| developers to build new content for the platform, |
|); PX0053 (Pruett 16:25-18:4, 39:20- |
| 42:5, 42:17-45:12) (describing Meta's engineering support for third-party developers); see also |
| $DX1230\ (Carlton\ Rep.\ \P\P\ 141-144)\ (discussing\ Meta's\ support\ for\ third-party\ VR\ app\ developers);$ |
| DX1233 (Zyda Rep. ¶¶ 103-104, 107-108) (describing the technical and financial support that Meta |
| provides to third-party VR app developers); Zyda Test. 1216:15-22 (describing Meta's technical |
| support for third-party VR app developers, including access to "software development kits" or |
| "SDKs"). |

51. Meta supports third-party VR app developers – including when those developers build apps competitive with Meta's own or distribute those apps on competitive VR/AR platforms – because populating a VR ecosystem with many different apps is how Meta competes to attract users to VR from non-VR alternatives (e.g., gaming consoles), which is the only way Meta will generate a return on its investments. *See* DX1212 (Rubin 30(b)(6) 67:4-68:10) ("the investments that we've made historically in virtual reality accrue to the entire benefit of VR,"

); Garcia Test.

- 1072:2-7, 1084:3-1085:24 (describing Meta's initial funding for and distribution of OhShape, which Odders Lab subsequently made available on four other platforms).
- 52. Today, third-party VR app developers ranging from small startups to large technology companies have created more than 99% of the 4,000+ apps available on Meta's VR devices. *See* Pruett Test. 274:25-275:9; Rabkin Test. 810:5-19 (similar).
- 53. It does not take a large team or substantial resources to make a successful VR app VR platforms and venture capital are ready to provide technical and financial support but it is hard to make a VR app that consumers will love and that finds "product-market fit"; that takes unusual

see also Stojsavljevic Test. 82:20-83:4 (testifying that Beat Saber is one of the most successful VR apps, available on both Quest and PSVR); Rabkin Test. 854:6-7 (similar).

57. Meta has been less successful at developing first-party apps internally, i.e., from scratch. *See* PX0056 (Carmack 101:15-23) (

); DX1223 (Janszen 34:1-36:9) ("[I]t's just axiomatic in the industry that platform makers are not good at making apps

in general, and particularly something as specialized as a fitness app that requires cross-domain expertise, both game development, and also an understanding of exercise science.").

58. For example, Meta built in-house Horizon Worlds – a VR social app that allows users to access a "metaverse" – but

. See PX0066

(Rubin 53:15-55:21, 166:11-172:11) (
; PX0054

(Bosworth 215:17-25) (
PX0063 (Rabkin 195:16-196:22) (
; DX1233

(Zyda Rep. ¶ 124) (); Zyda Test. 1222:25-1223:4 (noting that Meta has "built a handful" of VR apps of its own and "gotten a bad reputation, Horizon Worlds"); DX1230 (Carlton Rep. ¶¶ 146-147) (similar).

59. VR app developers therefore do not perceive Meta as a peer (or rival) in that respect, especially in fitness where Meta has no experience or expertise. *See* DX1291 (Garcia Decl. ¶¶ 30-32) ("I have not seen any evidence that Meta possesses any qualities, characteristics, or abilities that uniquely position it to develop a virtual reality fitness application"); DX1290 (Janszen Decl. ¶¶ 32-35) (comparing Meta to platform owners that are "notoriously bad at developing apps and games for their platforms from internal resources"); Janszen Test. 1131:10-23; 1134:22-13; Milk Test. 780:9-18 (Within did not perceive Meta as a rival or potential rival); Koblin Test. 638:1-21, 649:21-651:5.

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| 1 | 65. | To make Supernatural appealing to consumers with many fitness alternatives, Within |
|-----|----------------|--|
| 2 | invested hear | vily in studio-quality visuals, music licensing, and trainer-led workouts – |
| 3 | | . See PX0062 (Milk 172:4-22). |
| 4 | 66. | Supernatural gained a following in the limited community of VR users with |
| 5 | approximate | . See DX1232 (Vickey Rep. Tbl. 1); see |
| 6 | also Milk Te | est. 746:8-9 (|
| 7 | 67. | |
| 8 | | |
| 9 | | See DX1230 (Carlton Rep. ¶¶ 65-67, 70-72 & Tbl. 11) (|
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | |). |
| 14 | 68. | Supernatural's user base remains small in comparison to other home and connected |
| 15 | fitness altern | atives, such as Apple Fitness+ and Peloton's several products (including the augmented |
| 16 | reality Peloto | on Guide and Peloton app, both cheaper than the Peloton bike), which have millions of |
| 17 | subscribers. | See DX1230 (Carlton Rep. ¶ 54 & App'x Tbl. 12); DX1232 (Vickey Rep. Tbl. 1). |
| 18 | 69. | Within does not even try . Milk Test. 735:22-736:21 |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | |). |
| 23 | 70. | Within . See |
| 24 | Milk Test. 7. | 32:2-733:9 (|
| 25 | | |
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| | Defendants' | Proposed Findings of Fact & Conclusions of Law Case No. 5:22-cv-04325-EJD |
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| 1 | | |); PX0062 (Milk 19:8-12, 172:4-22, 191:18-194:14, 212:20-215:3); DX1081 a | ıt |
|----|----------------|----------|---|------------|
| 2 | 1-2 (| |). | |
| 3 | 71. | | | |
| 4 | | | | i |
| 5 | | | . See PX0065 (Koblin 18:4-19:2, 149:23-151:16) (| |
| 6 |); P2 | X0062 | (Milk 19:8-12, 172:4-22, 191:18-194:14, 212:20-215:3) (); DX1119 | |
| 7 | | |); DX1118 (); see also | 0 |
| 8 | DX1230 (Ca | rlton R | ep. ¶¶ 90, 120) (| |
| 9 | | | | |
| 10 | | |). | |
| 11 | 72. | | . See Milk Test. 735:17-21; Koblin Test. 636:15- | 22 |
| 12 | | |). | |
| 13 | 73. | With | in continues to release new workouts and innovate fitness features for | |
| 14 | Supernatural | to attra | act more fitness consumers to VR fitness. See Milk Test. 734:1-11 (| |
| 15 | | | | I |
| 16 | | | | |
| 17 | | | | |
| 18 |); | ; PX00 | 65 (Koblin 32:1-33:7, 137:2-14). | |
| 19 | В. | Sup | ernatural Faces Intense Fitness Competition | |
| 20 | | 1. | Supernatural Competes with Many On-VR and Off-VR Fitness Production | ct |
| 21 | 74. | Com | petition for connected fitness consumers is broad and vigorous, with scores of | f |
| 22 | alternatives l | ooth on | -VR (not limited to Quest) and off-VR. See DX1232 (Vickey Rep. § IV(A)(3 |) |
| 23 | & App'x C) | (fitness | s industry expert identifying more than 50 off-VR connected fitness products, | |
| 24 | services, and | l apps a | s consumer substitutes for VR fitness apps – including many that are | |
| 25 | "immersive" |); Vick | ey Test. 1177:2-13, 1180:13-18 (similar); DX1230 (Carlton Rep. ¶¶ 63-74, 75 | <u>;</u> – |
| 26 | 80, 104-112 | & App | 'x Tbls. 12-13) (identifying scores of competitive products, services, and apps | ; |
| 27 | on-VR and o | off-VR) | ; DX1233 (Zyda Rep. ¶¶ 48-70) (describing on-VR fitness apps the FTC omit | S |
| 28 | | | | |
| | | | 20 | |

from its market, as well as several off-VR fitness products and services available on non-VR gaming platforms).

- 75. Some fitness products and services can be used both on-VR and using off-VR devices, e.g., fitness consumers can stream workouts and guided-exercise courses on YouTube, both off-VR on a phone and *in VR* using the YouTube app on Quest or accessing a similar Liteboxer guided-boxing workout both off-VR with a wall mount or on-VR with a headset. *See* DX1232 (Vickey Rep. ¶ 15) (identifying YouTube streaming as a connected fitness service); PX0055 (Verdu 22:18-23:7) (identifying YouTube as a fitness competitor); DX1249 (
- 76. Some fitness companies even make fitness apps with both on-VR and off-VR uses. *See* Vickey Test. 1178:2-1179:12 (discussing Liteboxer and Les Mills both on-VR and off-VR); Carlton Test. 1419:2-1420:9 (Les Mills Bodycombat entry shows "the resources and talent to make fitness apps in the non-VR space can move into the VR space if that turns out to be a desirable thing because of the demand increasing for VR fitness apps"), 1386:15-1387:2 (similar).
- 77. Established fitness companies recognize the intense competition in this crowded fitness space. See DX1257 at 25-29 (

 (Casanova 33:4-19) (

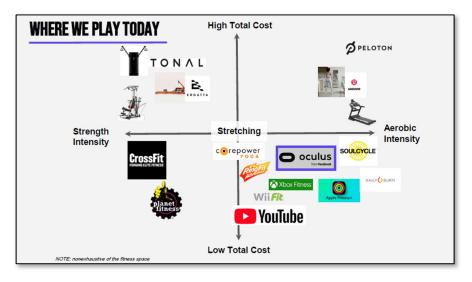
 (Casanova

1180:19-1181:17 (discussing off-VR options, including Apple Fitness+ and the Peloton Guide).

| 1 |); DX1080 at 1 |
|----|---|
| 2 |), 2111000 401 |
| 3 | 81. As Mr. Milk, Within's CEO, testified: |
| 4 | |
| 5 | |
| 6 | Milk Test. 742:15-25; <i>see also id.</i> 779:2-8 |
| 7 | ("We have thousands of competitors."), 636:23-637:2 (similar), 746:12-747:7. |
| 8 | 82. That is consistent with Within's contemporaneous documents, which evince a |
| 9 | consistent concern over fitness companies – not Meta or Beat Saber. See DX1077 at 8-9; DX1081 |
| 10 | at 1-2; DX1083 at 16-22, 67-69; DX1085 at 2-4; DX1095 at 12-13; DX1102 at 1-2. |
| 11 | 83. Within's ordinary course documents also confirm that it views Supernatural as |
| 12 | competing both for users choosing between VR fitness apps (|
| 13 |) and for users choosing between on-VR and off-VR fitness products |
| 14 |). See PX0712 at 44-45 |
| 15 |); PX0713 at 45-50 (|
| 16 |); PX0620 at 43-33 (similar); PX0667 at 34-35 (similar); see also Milk Test. |
| 17 | 749:8-22; DX1230 (Carlton Rep. ¶¶ 76-79). |
| 18 | 84. Within's user data illustrate these multifaceted competitive dynamics: |
| 19 | |
| 20 | |
| 21 | . See DX1230 (Carlton Rep. ¶ 66). |
| 22 | 85. Meta's user data show that Supernatural attracts users to the Quest platform from |
| 23 | off-VR, which is consistent with Supernatural competing with non-VR fitness alternatives. See |
| 24 | DX1230 (Carlton Rep. Tbl. 10) (|
| 25 |); |
| 26 | Carlton Test. 1376:18-1377:11 (), 1378:2-17. |
| 27 | 86. Meta's user-level substitution data are consistent with people treating VR fitness and |
| 28 | non-VR fitness as interchangeable: many |
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); see also Milk Test. 746:12-747:7.

- 87. Specifically, of more than fitness consumers who subscribed to but then stopped using Supernatural, only started using another of the claimed "VR dedicated fitness" apps. *See* DX1230 (Carlton Rep. ¶ 72 & Tbl. 11); DDX11.8; Carlton Test. 1379:1-1381:12.
- 88. Meta believes that VR fitness competes against a range of off-VR fitness products. See PX0050 (Zuckerberg 210:1-211:11) ("I think in terms of fitness . . . that all of these products sort of compete with each other."); Zuckerberg Test. 1325:12-23 (on-VR and off-VR fitness "are all alternatives, they compete in that way regardless of what technical platform you're using"); PX0054 (Bosworth 138:10-139:5) ("fitness is a very competitive space," including VR fitness apps, "Pelotons and Tonals," and more); PX0066 (Rubin 117:11-118:7) (describing the "fitness app business" as "massive," including competition with "things that have hardware unrelated to virtual reality, like Peloton"); see also PX0492 at 3 (Meta document
- 89. For example, one of Meta's ordinary course documents recognized this competitive landscape in which VR fitness competes with Apple Fitness+ and many others (PX0557 at 62):



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| 1 | |
|----|---|
| 2 | ; cf. Milk Test. 747:20-22 (|
| 3 |). |
| 4 | 93. In just the last several weeks, another new VR fitness app – called Focus VR – |
| 5 | launched on the Quest platform (via App Lab). See Milk Test. 744:3-13; Carlton Test. 1367:14-17 |
| 6 | (discussing new entry from Focus VR and expected new VR fitness app entry from a fitness firm |
| 7 | called Black Box VR that develops VR technologies). |
| 8 | 94. Every VR fitness app developer to offer testimony in this case expects more entry |
| 9 | imminently. See Milk Test. 752:19-753:6 (|
| 10 |), 753:9-22 |
| 11 |); DX1291 (Garcia |
| 12 | Decl. ¶¶ 9-11, 17-19) ("There have been at least 6 VR fitness applications introduced in the past |
| 13 | three years, and at least 2 in the past eight months. I expect that more will be introduced as early as |
| 14 | this coming year."); Garcia Test. 1089:3-18 (testifying that Les Mills Bodycombat expects new |
| 15 | entry throughout the VR/AR ecosystem); DX1290 (Janszen Decl. ¶¶ 10, 19-25, 37) ("the VR fitness |
| 16 | application ecosystem is currently in its infancy, but is rapidly expanding and new entrants are |
| 17 | entering the space frequently"); Janszen Test. 1138:3-14 (confirming that competition among VR |
| 18 | fitness apps is increasing); PX0062 (Milk 69:12-79:24, 146:2-14) (|
| 19 | 95. |
| 20 | See DX1269 at 1-2 (|
| 21 |); DX1271 at 1 (|
| 22 |); DX1280 at 1 (|
| 23 | |
| 24 |); see also DX1233 (Zyda Rep. ¶¶ 89, 94-95) (|
| 25 |); DX1232 (Vickey Rep. ¶¶ 25, 27) |
| 26 |). |
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| 1 | (Garcia Decl. ¶ 7) (noting that its VR fitness app is available on the Pico store); Garcia Test. |
|----|---|
| 2 | 1082:4-13 (noting that Les Mills Bodycombat is "the leading fitness app on the Pico store"). |
| 3 | 102. |
| 4 | . See DX1194 (Sony identifying VR fitness apps available |
| 5 | on the PSVR); DX1117 (|
| 6 | PX0065 (Koblin 71:24-72:7) (); PX0062 (Milk 146:2-14, 175:9- |
| 7 | 176:21) (similar); see also Koblin Test. 654:18-21 (|
| 8 | DX1103 at 20 (|
| 9 |); DX1092 at 117 (|
| 10 |); PX0022 at 6 (|
| 11 |). |
| 12 | 103. The FTC's expert agreed that many large consumer technology companies – Apple, |
| 13 | Google, ByteDance, and Sony – can build VR fitness apps. See Singer Test. 419:12-16 (ByteDanc |
| 14 | and Sony), 421:7-24 (Apple), 422:7-25 (Google). |
| 15 | 104. Every VR fitness developer to offer testimony anticipates substantial additional |
| 16 | competition from new entrants with fitness backgrounds – but not from Meta. See PX0062 (Milk |
| 17 | 61:3-63:2, 63:17-66:20); PX0065 (Koblin 58:13-59:18, 62:21-63:5, 246:16-247:11); DX1103 at 28 |
| 18 |); DX1291 (Garcia Decl. ¶¶ 19, |
| 19 | 30-32) ("I have not seen any evidence that Meta possesses any qualities, characteristics, or abilities |
| 20 | that uniquely position it to develop a virtual reality fitness application."); DX1290 (Janszen Decl. |
| 21 | ¶¶ 19, 32-35, 37) ("We have not made business decisions based on any concern that Meta may offe |
| 22 | a new fitness app or a modified version of a current app that competes with VirZOOM."). |
| 23 | 105. For example, Within's CEO wrote in March 2021 that |
| 24 | DX1085 at 2, 4 (text message). |
| 25 | 3. There Is No Evidence of Coordinated Behavior Among VR Fitness Apps |
| 26 | 106. Every VR fitness app developer witness with personal knowledge testified, without |
| 27 | contradiction, that competition is vigorous and there is no coordination or interdependent conduct |
| 28 | among VR fitness apps. See Milk Test. 779:9-14 ("Q. Has Supernatural ever coordinated with |
| | 28 C. 1 (1) |
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competitors on pricing or features or quality? A. No. Q. Has Supernatural ever followed a competitor's lead on price increases? A. No. We have never increased our pricing."); Koblin Test. 636:2-14 (

); DX1291 (Garcia

Decl. ¶¶ 34-35) ("[T]he VR fitness application ecosystem is highly competitive and dynamic, and I would not characterize any firm as dominant. I do not believe it is fair or accurate to describe it as an oligopoly."); Garcia Test. 1081:16-1081:24 (testifying that there is no price coordination); DX1290 (Janszen Decl. ¶¶ 36-38) ("I am unaware of any interdependent or parallel behavior by anyone offering these products."); DX1223 (Janszen 143:8-147:4) (denying having ever seen collusion); Janszen Test. 1136:5-14 ("[I]t did not occur to any of us to fix prices."); *see also* DX1230 (Carlton Rep. ¶¶ 124-130 & App'x Tbl. 4) (

107. The FTC's expert did not assert that current participants in his proposed market are engaging in any coordinated behavior, instead agreeing that he had not formed an opinion that there is presently oligopolistic conduct among "VR dedicated fitness" apps. *See* Singer Test. 415:1-16; *see also* PX0087 (Singer 339:14-340:9) ("I've not yet demonstrated that the existing participants are engaging in coordinated behavior, I'll grant you that.").

108. The opposite of coordination, VR fitness apps offer a range of different prices and pricing models – from free, to one-time purchase, to monthly only subscriptions, to monthly or annual subscriptions; coordination is not happening and could not easily happen. *See* Singer Test. 430:16-431:23; DX1232 (Vickey Rep. ¶ 47) (discussing varying pricing models among the nine so-called "VR dedicated fitness" apps); Vickey Test. 1185:3-1186:1 (same); DX1230 (Carlton Rep. ¶ 88, 109-112 & App'x Tbl. 4) (discussing differences in pricing models and prices, noting that they "vary substantially"); Carlton Test. 1369:6-1370:13 (describing that the space is not susceptible to coordination because "[w]hen you have a lot of change in an industry, that's the type of circumstance in which you don't expect coordinated behavior" or "oligopolistic independence").

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109. Because of the broad nature of competition – many competitors, varied pricing amounts and structure, constant entry, multiple distribution channels – there is no evidence that VR fitness apps can or do coordinate as to pricing or any other conduct. See DX1230 (Carlton Rep. ¶¶ 124-130 & App'x Tbls. 4, 13) (discussing market and economic evidence confirming absence of coordination or parallel conduct); PX0065 (Koblin 148:16-151:19) (Within founder discussing Supernatural pricing); DX1220 (Garcia 74:13-16) (rival VR fitness app developer confirming lack of pricing coordination); see also Singer Test. 415:1-16 ("I have not reached an opinion as to whether [VR dedicated fitness apps] are currently coordinating in their pricing now.").

C. The FTC Expert's Opinion on Market Definition

- 1. The FTC's Expert Relied on a Hypothetical Monopolist Test – Using a Third-Party Survey – To Define a Relevant Antitrust Market
- 110. Dr. Singer admitted that he has *not* defined a relevant market that contains only the nine fitness apps that the FTC says are in the relevant market – and he never specified what additional products the relevant market includes. See Singer Test. 428:2-18 ("I'm not sitting here telling you that I know that the number is nine [VR dedicated fitness apps]."), id. 429:3-6 ("Q. Dr. Singer, have you or have you not offer[ed] an opinion as to whether these nine apps comprise the relevant antitrust market? A. No, I have not."), id. 429:14-17 ("But it is not my opinion – I want to make it crystal clear – that there are only nine participants and I know there to be only nine participants in the market. That is not an opinion that I have ever put forward today."), id. 429:25-430:4 (declining to opine on whether VR app Gym Class is in the relevant market or not).
- Dr. Singer also admitted that there are off-VR fitness products that offer "similar 111. features" to the nine claimed "VR dedicated fitness" apps. PX0016 (Singer Rebuttal Rep. ¶ 4); see also FTC Prelim. Inj. Reply (Dkt. 262) at 12 ("Plaintiff concedes – and has never disputed – that all fitness products compete with each other to some degree.").
- 112. Dr. Singer nonetheless arrived at his market definition by performing a "hypothetical monopolist test" in which he claimed to estimate the actual loss of Supernatural customers if prices in the "VR dedicated fitness app" market rose by a small but significant amount (approximately

- 5%). See PX0016 (Singer Rebuttal Rep. ¶ 3) ("I defined the contours of the relevant product market by applying a hypothetical monopolist test"); see also Singer Test. 439:3-7.
- 113. Dr. Singer's calculation of that actual loss depends entirely on a 150-person survey which Dr. Singer said he designed, but which he claimed was implemented by a third-party survey firm called Qualtrics. *See* Singer Test. 416:5-418:11; 540:16-18 ("I rely on the survey analysis to get the actual loss."); PX0016 (Singer Rebuttal Rep. ¶¶ 3, 34); *see also* Carlton Test. 1424:3-16.
- 114. Dr. Singer "never offered [an] opinion" about the contours of the relevant market if the "hypothetical monopolist test failed." Singer Test. 416:5-23; *see also* PX0087 (Singer Dep. 74:1-7) (same).
- 115. Instead, Dr. Singer wrote that he "defined the contours of the relevant product market by applying a hypothetical monopolist test," and "[n]one of that analysis relied on common features of VR dedicated fitness apps as identified by Meta and Within." PX0016 (Singer Rebuttal Rep. ¶ 3) ("To the extent I discussed common features in my Initial Report, it was only to corroborate my economic analysis.").
- 116. Dr. Singer expressly drew a "contrast" between his hypothetical monopolist test and "an analysis based on feature commonality," stating: "I have not conducted my market exercise by grouping common features," and "I do not employ a commonality of features analysis." PX0016 (Singer Rebuttal Rep. ¶¶ 30-31); see also id. ¶ 4 ("Drs. Carlton, Vickey, and Zyda raise and attack a straw-man argument related to my alleged use of common features to define the relevant product market or to identify market participants. I do no such thing.") (emphases added).

2. Dr. Singer's Hypothetical Monopolist Test Is Entitled to No Weight

- 117. The survey on which Dr. Singer's hypothetical monopolist test relies is fatally unreliable for several independent reasons. *See* Dubé Test. 875:13-14 ("[T]his is probably the worst survey I have ever seen submitted by an expert."), 939:9-14; *see also generally* Ex. DX1231 (Dubé Rep.); *see also* Ex. DX1230 (Carlton Rep. ¶¶ 89-93).
- 118. *First*, the vast majority of the 150 survey respondents well over 100 by any measure gave such implausible and demonstrably untrue answers that there is no reason to believe these were actual Supernatural subscribers, *see* Ex. DX1231 (Dubé Rep. ¶¶ 54-60), which Dr.

Singer acknowledges is a necessary predicate to the survey's utility, *see* Singer Test. 432:17-23 (same); *see also* Dubé Test. 874:25-875:3, *id.* 877:5-10 ("[F]irst and foremost, the respondents who you are going to ask to fill in your survey, they have to be who they say they are.").

- 119. For example, 90 respondents said they use 10 or more fitness products "regularly," 36 said they use 19 or more fitness products "regularly," and 21 say they use 27 different fitness products regularly. *See* Dubé Test. 895:7-897:17; DDX10.4; DX1230 (Carlton Rep. ¶ 93); *see also* Singer Test. 507:11-15 ("I would tend to agree that something is seemingly irrational with these 21 respondents who checked all of the survey responses."), *id.* 510:19-511:1 ("I can concede that some answers are implausible, or could be the result of misinterpreting the question"), 513:5-11 ("I do think that 19 regularly used fitness apps is seemingly high and implausible, I'll grant you that.").
- 120. Separately, 36 respondents said they use 2 different expensive wall-mounted fitness products "regularly," 37 said they use 3 different connected-fitness bikes "regularly," 43 said they use 2 different connected rowing machines "regularly," 25 said they use 9 different fitness apps on VR "regularly," and 87 more than half said they "regularly" use a fitness product discontinued in 2017. *See* Dubé Test. 899:12-25; DDX10.4; *see also* Singer Test. 504:19-25.
- 121. More than 100 of the respondents more than two-third of the survey sample said they regularly use implausible combinations of VR apps contrary to actual usage data, e.g., *half* of the respondents said they regularly use Supernatural and RealFit when, as of August 2022, only 1 person on *earth* regularly used both Supernatural and RealFit on Quest. *See* Carlton Test. 1429:10-1430:21; DDX09.21-24; DDX11.20-21; DX1230 (Carlton Rep. ¶ 93) (

); see also DX1067 (user data); DX1314 (Dr. Singer's backup data).

- 122. And 106 of the 150 responded both that they use Supernatural regularly (in response to Questions 4 and 7) and that they considered purchasing or no longer use Supernatural (in response to Questions 6 and 9). *See* Dubé Test. 900:10-901:9 ("[T]hese responses seem totally implausible."); DDX09.24.
- 123. These implausible answers plagued Dr. Singer's only "screening" questions i.e., survey questions meant to detect and exclude non-Supernatural users, *see* Dubé Test. 915:2-13 –

that did not reveal the survey was about Supernatural, *id.* 923:8-23, 916:2-918:11, 918:15-919:22, 919:11-21:24 (noting that Dr. Singer's other "screening" questions are "transparent to the respondent [as to] who is the sponsor to the survey, what is the purpose of the survey" because they ask about Supernatural without posing a question only a true Supernatural subscriber could answer), 923:4-7 ("Instead why not just ask somebody a question that only a Supernatural subscriber would know?"); *see also* Singer Test. 486:18-487:5.

- 124. Dr. Singer claims to have performed a "sensitivity" test that excludes the 21 respondents who implausibly said they regularly use 27 different fitness products "regularly." *See* PX0016 (Singer Rebuttal Rep. ¶ 102).
- 125. But Dr. Singer never provided any supporting calculations, and, in all cases, there is no mathematical or scientific basis for simply excluding 21 respondents (or any other number) and asserting the survey is nevertheless reliable Dr. Singer himself claimed that he *needed* 150 respondents to support his conclusions (not 129 or any other number). *See* Dubé Test. 935:6-936:12; Singer Test. 453:24-454:4 ("We had done the math to figure out that 150 was the number we needed to be able to say and make an extrapolation to the population with a certain level of confidence and precision"); *see also* PX0087 (Singer 123:18-124:2) ("we have solved for the number of Supernatural users that we need to be able to say something about a representative sample," and "we said we want to get 150 Supernatural users"); *id.* (Singer 274:21-275:3) ("150 was the answer from the math.").
- 126. The problems plaguing the survey are not limited to just 21 respondents in any event, see DDX10.4 nearly every respondent gave an implausible answer to at least one question, often more than one. See Dubé Test. 888:5-889:5 ("these suspicious answers are occurring at such a high frequency . . . this becomes completely implausible"; "over 80 percent of the respondents have not one but, but at least one suspicious result," which "is extremely concerning" because "this is not about a handful of people who gave suspicious answers on one question" but rather a "pervasive" issue "throughout the survey").
- 127. *Second*, it is mathematically implausible that Dr. Singer actually found 150 Supernatural subscribers even ignoring the foregoing implausible answers. DDX09.19.

- 128. Dr. Singer wrote that his survey vendor (Qualtrics) "confirmed that the survey was distributed to approximately 10,000 potential respondents," at least 150 of whom claimed to be Supernatural subscribers. PX0016 (Singer Rebuttal Rep. ¶ 68).
- 129. That response rate at least 1.5% of the survey recipients are supposedly Supernatural subscribers is mathematically implausible, as ________ of the U.S. population subscribes to Supernatural. *See* Dubé Test. 886:7-887:2 ("This is close to impossible."); Ex. DX1231 (Dubé Rep. ¶¶ 22-23); *see also* Dubé Test. Test. 909:24-911:21 (describing "worrisome" mismatches between Supernatural's user population and respondent traits, e.g., gender and age).
- 130. Dr. Singer's response is that a survey panel provider "may have distributed" the survey to a panel likely to include a disproportionate share of Supernatural subscribers, such as "tech-savvy" persons, PX0016 (Singer Rebuttal Rep. \P 68) but he offered no proof that occurred, only speculation, see Singer Test. 468:1-6 ("It could have happened.").
- 131. Professor Dubé explained that his review of the declarations provided by Qualtrics and the two subcontractors that accounted for nearly all of the 150 respondents did not support Dr. Singer's claim that any specialized panels or filters were used, but rather show that the survey was instead sent to a general consumer audience. *See* Dubé Test. 906:11-908:7.
- 132. *Third*, Dr. Singer contorted the results of the one question in his survey that he calls the "ultimate test" (Question 19) i.e., whether Supernatural subscribers would leave the app in response to a price increase among all "VR dedicated fitness" apps. Singer Test. 445:15-446:5.
- 133. To start, Dr. Singer treated every respondent who said he or she would "probably" stay on Supernatural (30 of 150) as someone who would "definitely" stay on Supernatural (113 of 150) despite telling those same respondents that they had indicated they "would" or "might" leave Supernatural and giving them a chance to clarify otherwise, he *ignored* that almost all of them did not clarify that they would stay with Supernatural (an option he gave them) but instead responded that they would go to another fitness product. Dubé Test. 930:23-933:5-25; *see also* PX0015 (Singer Rep. Tbl. 1 & App'x 3 pp.123-130).
 - 134. This is contrary to generally accepted survey practice. See Dubé Test. 932:20-25.

- 135. Had Dr. Singer treated even a fraction of these individuals as persons who would leave Supernatural for another product as almost all of them they said they would then the hypothetical monopolist test would have failed (he needed 139 to stay, only 113 said they would "definitely" stay). *See* Dubé Test. 930:3-930:22, 934:1-935:5 ("He would have gotten exactly the opposite result. . . . [W]ith his survey sample, he would have estimated an actual loss that would have been bigger than the critical loss.").
- 136. Dr. Singer also ignored basic best practices for survey design when he declined to randomize the answers to the "ultimate test" question i.e., mixing the order in which answers are presented to survey respondents despite doing so for other substantive questions in the survey (including the one immediately prior). *See* DDX10.7; Dubé Test. 928:8-929:15.
- 137. The extremely long and confusing phrasing of Question 19 further increased the likelihood of respondents selecting the first answer ("definitely stay") that Dr. Singer needed for his test to pass. *See* Dubé Test. 928:8-22.
- 138. By *always* making the first available option that the supposed Supernatural user would "definitely stay" on Supernatural despite the price increase, the survey was biased to generate an outcome that would pass the hypothetical monopolist test. *See* Dubé Test. 880:16-881:17.
- 139. *Fourth*, Dr. Singer never conducted a survey capable of supporting his market definition because his "ultimate test" i.e., the question asking whether a monopolist of "VR dedicated fitness" apps would have pricing power over consumers, *see* Singer Test. 445:15-18 included a non-VR product: Liteboxer *off-VR* (he included both on-VR and off-VR options). *See* Carlton Test. 1428:15-24.
- 140. Accordingly, Dr. Singer has measured whether a monopolist that owns all "VR dedicated fitness" apps *and* Liteboxer's off-VR product could profitably increase prices by approximately 5% an inquiry irrelevant to the *VR-only* market he seeks to define. *See* Carlton Test. 1428:25-1429:9.
- 141. *Fifth*, and compounding the foregoing problems, Dr. Singer did *not* implement the survey himself, performing effectively no quality control of the data. *See* Singer Test. 464:1-4 (explaining he deferred to Qualtrics "in conducting the survey"); Dubé Test. 881:18-882:13, 937:3-

938:22 (noting that Dr. Singer "claimed that he doesn't even know what he was supposed to do with data to ensure that he had good respondents and that they gave good answers").

- 142. Instead, Dr. Singer relied on Qualtrics, unaware that Qualtrics did not use its own panels of survey respondents, but instead subcontracts these services to third parties to fulfil customer requests. *See* Singer Test. 466:8-10.
- 143. Yet Dr. Singer and his consulting firm, as the ones "using the Qualtrics platform," were "responsible for reviewing data quality." Singer Test. 475:4-13.
- 144. *Sixth*, the survey yields nonsensical results e.g., that Supernatural is a monopolist that could and should profitably raise prices, yet it has never done so. *See* Ex. DX1231 (Dubé Rep. ¶¶ 48-53); Carlton Test. 1426:11-1427:13.
- 145. Seventh, Dr. Singer's survey was directed to the wrong set of respondents because he limited his survey to existing users who indicated that they intended to continue subscribing to Supernatural, which is not the relevant set of consumers since Supernatural must attract users from off-VR. Carlton Test. 1425:14-1426:10.

3. VR Characteristics Do Not Show a Lack of Competition Between VR and Non-VR Fitness Products

- 146. The FTC and its economist do not dispute that on-VR and off-VR fitness products have similar features and that consumers use these products for similar purposes. *See* PX0016 (Singer Rebuttal Rep. ¶¶ 3-4); *see also* FTC Prelim. Inj. Reply (Dkt. 262) at 12.
- 147. Instead, Dr. Singer's survey found that supposed Supernatural subscribers who would or might leave Supernatural in response to a hypothetical price increase would shift to both on-VR and off-VR fitness products with a plurality shifting to *only* off-VR fitness alternatives suggesting that those off-VR products are as close substitutes (or even closer) for Supernatural as VR apps. *See* Carlton Test. 1425:1-13; DDX09.7 (showing that only 13% of these respondents would shift *only* to another "VR dedicated fitness" app, while 38% would shift *only* to an off-VR fitness product, and 35% would shift to a combination of both, with the remainder choosing to stay with Supernatural or not shift to any other fitness product); *see also* DDX09.6.

- 148. Dr. Singer instead claims that a Meta advocacy document prepared by its attorneys as part of an investigational presentation to the FTC identifies the nine "VR dedicated fitness" apps. *See* Singer Test. 531:5-24 (discussing PX0001).
- 149. This document which Meta did not prepare in the ordinary course of business expressly clarifies that the VR fitness apps listed in an "Overview" appendix are "Selected Competitors" (and the list includes many off-VR competitors that Dr. Singer omits from his market definition), not an exhaustive list. *See* PX0001 at 23; *see also* Vickey Test. 1188:1-7 (similar).
 - 150. Indeed,

 . See PX0001 at 11.
- 151. By contrast, the only evidence of actual user substitution patterns shows that Supernatural attracts consumers to VR from off-VR and that users who stop using Supernatural leave VR altogether, consistent with their substituting non-VR fitness options. *See* DX1230 (Carlton Rep. ¶¶ 63-74, 104-112 & App'x Tbls. 12-13).
- 152. The only expert testimony regarding the fitness industry from Defendants' expert Dr. Theodore Vickey confirms that VR fitness offers consumers just one way among dozens of comparable alternatives to exercise and improve fitness levels. *See* DX1232 (Vickey Rep. § IV(A)(3) & App'x C); Vickey Test. 1176:22-19, 1180:13-18.
- 153. And the only expert opinion on the VR industry from Defendants' expert Dr. Michael Zyda confirms the reliability of app studies and classifications reflecting that there are more than just nine VR fitness apps available to consumers. *See* DX1233 (Zyda Rep. ¶ 43).
- 154.

See DX1228 (Sanders Dep. 14:6-15:7) (
); DX1222 (Healey Dep. 10:20-13:21)

); PX0074 (Casanova Dep. 16:9-18:12) (

DX1251 (); DX1227 (Klim Dep. 13:8-16, 13:20-14:6, 14:17-15:12, 18:9-11) (); see also DDX7.13.

); see also DDX /.13

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See Bosworth Test. 986:6-22; Zuckerberg Test. 1279:2-4 (confirming he "personally" approved the budget); see also DX1309 at 1 (Meta document

- 165. But no one even asked Mr. Bosworth to consider any such approval (let alone authorize a budget) – there is no contrary evidence. See Bosworth Test. 991:3-21; PX0054 (Bosworth 211:1-16, 217:2-221:6) ("We've never [investigated] the investment of [building a VR fitness app], because we would never do it.").
- 166. And Mr. Bosworth testified that he would not have approved spending to build a new VR fitness app, had he been asked (he was not). See PX0054 (Bosworth 226:1-8, 227:24-228:24).
- 167. Meta employees at lower levels of Reality Labs considered many options for growing the Quest ecosystem beyond gaming by encouraging the development of apps for nongaming VR "use cases," including options for fitness. See DX1035 at 1-2 (
- None of these ideas ever materialized into a proposal or any concrete planning 168. toward building a fitness app from scratch. See PX0050 (Zuckerberg 143:7-17, 144:12-19, 163:24-164:7, 242:14-243:1) (explaining that there was never follow-up or a formal proposal for Meta to build its own VR fitness app, modify Beat Saber, or partner with a fitness company); PX0054 (Bosworth 223:21-22) ("We were definitely not on a path to building [a VR dedicated fitness app] before the acquisition talks began."); PX0064 (Rabkin 30(b)(6) 28:18-29:1, 31:15-32:6, 38:8-39:24) (explaining that Meta never had an actual plan or proposal to partner with an established fitness company to build a VR fitness app).
- Instead, all of the Meta employees involved in this brainstorming testified that these ideas never proceeded beyond the discussion stage, never received approval from any senior executive, and were all discarded as impractical for multiple reasons – there is, again, no contrary evidence. See Rabkin Test. 815:21-22 ("We don't have people at the company who are fitness experts. The company does not build fitness products."), 816:7-15, 831:3-11 (similar); PX0055 (Verdu 229:3-231:7) (explaining why Meta would not develop its own VR fitness app); PX0057

(Dass 100:4-103:5) ("we lacked the capabilities," including "fitness instructors," "the ability to run live classes" – "all things that need to come together"); PX0064 (Rabkin 194:4-195:15) (confirming "wholeheartedly" that Meta lacks capabilities to build a VR fitness app); PX0063 (Rabkin 30(b)(6) 28:18-29:1, 31:15-32:6, 38:8-39:24) (the concept of partnering with a fitness company never materialized into a proposal); PX0052 (Stojsavljevic 147:25-148:12) (explaining that Meta lacks the right VR engineers and fitness personnel to build on its own); PX0053 (Pruett 284:6-18) ("I don't think we have any of the skills or domain knowledge required to make anything successful," including because "we don't have any expertise"); see also PX0066 (Rubin 166:11-172:11) (listing reasons it would not make sense for Meta to build a fitness app).

- 170. Meta's limited experience developing a handful of VR games and social apps did not make it a realistic VR fitness developer. *See* Stojsavljevic Test. 110:18-111:9 ("We are not fitness app developers. And so to get into a new space, even though a lot of the tools and technology are similar, it's a bit uncomfortable.").
- 171. Mr. Bosworth explained that, despite Meta's resources, "content is really tricky" "all of the resources in the world don't buy you success, and we have lots of examples of that where large organizations, including [Meta], try to pursue a vision only to find that actually the market has found success elsewhere, small startups or other companies invest their resources more successfully." Bosworth Test. 992:2-11.
- 172. Mr. Bosworth gave examples of several Meta first-party endeavors from scratch Spaces, Venues, and Horizon that have not yet succeeded. *See* Bosworth Test. 992:12-993:17.
- 173. Accordingly, in a series of contemporaneous documents created between March and May 2021, Meta employees recorded the decision not to create a first-party VR fitness app from scratch and listed reasons for that decision,

. See DX1016 at 1 (

); DX1012 at 1 (similar).

186:1-9; *see also id.* 187:1-19 (explaining that Meta acquired Armature – a VR app development studio without any fitness experience – for unrelated reasons, not to develop fitness content); Zyda Test. 1220:14-23 (discussing importance of team that has worked together for some time).

- 180. And hiring a new team would be just the start; actually using that team to build a VR fitness app from scratch without any fitness-specific experience or background or production capabilities could take *years*. *See* PX0066 (Rubin 169:5-14) ("starting from scratch is a multi, multi-year endeavor," "we wouldn't know for two or three years"); DX1212 (Rubin 30(b)(6) 31:13-33:1, 39:3-8) (similar); PX0055 (Verdu 189:15-190:14) (estimating that building a VR fitness app from scratch would take "more than a couple of years"); *see also* Carmack Test. 579:18-580:11 (describing that it can take years even for well-resourced developers to develop software, as "software development is notorious for going over predicted time").
- 181. As one Meta employee summarized, "[i]t would take 8 to 12 months to hire the people. That's when you start building the product. And you would be looking a[t] multiple years, two to three years to build on top of that, so potentially four years from start to having something in market" and that "would just be too long." Stojsavljevic Test. 141:2-142:12.

2. Meta Decided *Not* To Modify Beat Saber into a VR Fitness App – Independent of the Within Transaction

- 182. Meta likewise never planned to modify Beat Saber into a fitness app. *See* PX0050 (Zuckerberg 143:7-17, 144:12-147:3, 148:4-149:3, 242:14-243:11) (testifying that there was no formal proposal for his review and that, "even if" there were such a proposal or the Beat Saber team had "started working on it," Meta "wouldn't have ended up working on this"); Zuckerberg Test. 1311:21-1312:14, 1332:20-1334:2, 1334:7-23
- (explaining that had anyone wanted to "chang[e] the fundamental direction of [Meta's] most popular game," they would have run the "actual concept" by him before moving forward); PX0054 (Bosworth 139:18-142:9) ("I didn't fund it. . . . [N]o one asked me to fund it. . . . And, if they had, I wouldn't have done it.").
- 183. Beginning around the time of Meta's acquisition of Beat Games (the studio that develops Beat Saber) in 2019, there was consideration of modifying Beat Saber into a VR fitness

app by adding fitness features to the game. *See* PX0055 (Verdu 21:20-22:17, 110:10-111:8, 178:7-180:18, 198:18-200:22) (describing "the perpetual white whale quest to get Beat Saber to build, or Beat Games to build a fitness version of Beat Saber, which was like pushing on a string").

- 184. But these early exploratory ideas of how Beat Saber could become a VR fitness app often in documents from *2019*, *before* Meta closed the Beat Games acquisition in late November 2019 never materialized into anything more than ordinary corporate brainstorming. *See* PX0249 at 1 (Aug. 2019); PX0342 at 2 (Sept. 2019); PX0162 at 3 (Oct. 2019).
- 185. The furthest that idea got was when, on April 19, 2020 in the midst of the COVID-19 pandemic Beat Games released FitBeat,

 , see PX0077 (Beck 104:3-105:18), but that had no fitness features, guided coaching, trainer input, exercise design, or health tracking.
- 186. FitBeat was merely a "test" that Beat Games declined to further develop or convert into an actual fitness feature, in part because Beat Games did not like the concept on review and consumer reaction was not sufficiently positive. *See* PX0077 (Beck 105:19-21, 106:7-15) (

- 187. Then on February 16, 2021, a Meta employee named Rade Stojsavljevic (Director of First-Party Studios) took a Peloton class, which gave him an idea that Beat Saber might be able to partner with Peloton to make a VR fitness app. *See* Stojsavljevic Test. 128:14-24.
- 188. That same day he sent several messages to colleagues about the idea. *See* PX0189 at 1; *see also* Stojsavljevic Test. 130:10-14 ("That was coming off that ride. . . . [L]ike a light bulb went off in my head thinking that would just be really fun.").
- 189. Three days later, Mr. Stojsavljevic raised the idea with his boss Michael Verdu (formerly VP of Reality Labs Content), who reported to Mark Rabkin (VP of Reality Labs), who reports to Mr. Bosworth, who reports to Mr. Zuckerberg. *See* Stojsavljevic Test. 134:12-24; PX0524 at 1; *see also* PX0055 (Verdu 198:18-199:14); Rabkin Test. 818:4-15 (explaining the reporting structure).

); see also id. (Beck 141:3-8) (

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PX0077 (Beck 130:3-11); see also PX0055 (Verdu 201:14-23) ("I don't think we ever got to the point of practically understanding what the partnership would like, like is it a Peloton-branded headset? Is it Peloton-branded content inside of our headset? Like we didn't even get to the point where we were exploring at that level of detail.").

- 203. The idea never made it to Beat Games as a formal proposal. *See* Stojsavljevic Test. 154:2-6 ("I didn't even talk to the Beat Games team themselves to get their information about what technically they would need to do that."); *id.* 188:16-18 (testifying that he never discussed the idea with anyone from Beat Saber); Bosworth Test. 994:25-995:2 (similar).
- 204. There was another obvious problem with the idea: to pursue a "Beat Saber + Peloton" concept, Meta would need *Peloton's* agreement (

). See PX0527 at 5; Stojsavljevic Test. 143:13-18.

- 205. But Meta never even raised the idea with Peloton, and there is no evidence that Peloton would have been interested had it been asked. *See* Stojsavljevic Test. 160:1-9, 165:7-11 (explaining the idea was insufficiently concrete to pitch); *see also* PX0064 (Rabkin 30(b)(6) 26:16-29:1); PX0052 (Stojsavljevic 83:10-12) ("No. We never discussed that with Peloton."); Rabkin Test. 820:15-21 (regarding Peloton, "I am quite sure that they never got on board"); Bosworth Test. 994:22-24 (testifying that he is unaware of any outreach to Peloton); *cf.* DX1228 (Sanders 47:18-48:2, 50:13-21) (
- 206. Accordingly, while lower-level Meta employees sporadically batted around the idea of modifying Beat Saber into a fitness app for years (between 2019 and 2021), Meta never took a single necessary step toward implementing such a modification; there was never a plan, budget, or attempt to hire a single VR fitness engineer or fitness professional, or any outreach to Peloton. *See* Stojsavljevic Test. 164:23-167:5; PX0063 (Rabkin 173:16-174:11) ("[I]t appears that no real work was ever done in this direction."); PX0052 (Stojsavljevic 88:1-4) ("[W]e didn't do any planning that I recall."); Rabkin Test. 817:14-15 ("The idea never went anywhere."), *id.* 834:18-22 (confirming the "idea was a thought exercise" "that only lasted a few weeks" that he "never approved").

207.

Rep. ¶¶ 136-139) (

); DX1233 (Zyda Rep. ¶¶ 110-118) (similar);

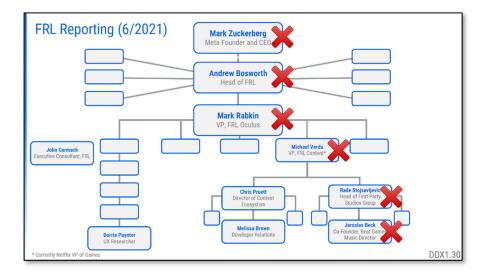
Zuckerberg Test. 1333:15-1334:2 (explaining that most ideas are abandoned); Rabkin Test. 828:1-9, 833:15-22 (similar).

Meta therefore never had a plan for modifying Beat Saber. See DX1230 (Carlton

- 208. Mr. Verdu testified that it would be a "pretty heavy lift," from a practical standpoint, to "reengineer" a "fitness version of Beat Saber" no Meta fitness expertise, resources, branding, or background (among other missing pieces) which would be "compounded" by trying to overcome those limitations by folding a non-existent fitness organization *into* the leading VR *game* studio (located overseas) that itself had no interest or expertise in fitness. PX0055 (Verdu 229:10-231:7); *see also id.* (Verdu 110:15-111:8) (describing the idea as "hopelessly naïve"); *id.* (Verdu 199:17-200:6) ("It didn't actually seem workable. It seemed like kind of an unnatural combination of resources that ran the risk of distracting the Beat team and making them unhappy and generating a product that was subpar.").
- 209. Mr. Verdu therefore never presented a plan for approval or implementation to Messrs. Rabkin, Bosworth, or Zuckerberg instead, it remained just an idea that, as of March 2021, languished without advancing through the review process. *See* PX0055 (Verdu 234:9-235:20); *see also* Bosworth Test. 1003:11-1004:20 (noting that Mr. Verdu would not have had authority to implement this plan without going through the mandatory review process, which never happened); Rabkin Test. 823:18-25; *cf.* PX0117; PX0055 (Verdu 240:20-242:6).
- 210. Every step in Meta's process for taking an initial pitch idea through to approval e.g., a "detailed plan where we would write a game design document," "or a production plan or any of those things" was missing. Stojsavljevic Test. 166:2-14; *see also id.* 166:25-167:5 ("[A]s we started just talking about it, we sort of had this cascading complexity"); Carmack Test. 564:2-15 (explaining that modifying Beat Saber in this way "would not survive design review at Meta where designers would have a lot of input into how it would be structured"); Rabkin Test. 824:4-8 (testifying that there was no "specific proposal" to modify Beat Saber).

- 211. There were never required "cross-functional" discussions, e.g., between Mr. Stojsavljevic and marketing, analytics, operations; or a "product plan," e.g., "staffing, budget, dollars, markets size"; or a partnership plan, i.e., working with Peloton and Meta's partnership team; or a "decision review"; or a "green-light process"; or approval none of it. Stojsavljevic Test. 192:2-195:13; DDX04; *see also* Rabkin Test. 833:1-14 (discussing the cross-functional discussions), 822:5-823:23 (describing some of the mandatory approval process); Stojsavljevic Test. 196:22-197:5 (similar); DX1311 (discussing green-light review process generally).
- 212. Nor was there review through Meta's "approval authority matrix." *See* DX1309 at 3 (describing the matrix); *see also* Stojsavljevic Test. 201:3-22 (explaining that no part of the approval authority matrix budgeting, allocating headcount, preparing a formal document with detailed information about the idea took place); DX1310 (additional review requirement).
- 213. There is also no record evidence of a "game design document" the classical "plan" for developing an app or game or indication that Meta ever began developing such a planning document for this concept. *See* Stojsavljevic Test. 166:207; Zyda Test. 1221:10-1222:9.
- 214. The idea would not have survived these mandatory reviews, as Mr. Rabkin Mr. Verdu's boss testified that, "as the leader of VR," he "was not . . . considering building [Meta's] own fitness experience," and that "nothing ever happened" with respect to the concept of modifying Beat Saber. PX0063 (Rabkin 171:8-172:5, 173:6-174:11); see Rabkin Test. 819:10-820:25 (testifying that he "just didn't see that [idea] being good for [Peloton] or [Meta]," and it would have been "a dangerous pivot and distraction" for Beat Saber), 823:24-25, 852:9-853:14 (testifying that Mr. Verdu could not approve this idea on his own), 831:25-9 (testifying that the idea "died on the vine."); see also Stojsavljevic Test. 190:6-14 ("[T]his would have need to have been approved in a formal review with Mark Rabkin and Andrew Bosworth."); Zuckerberg Test. 1312:3-14, 1334:13-23 (testifying that Mr. Verdu "would have at least run the idea by me"); Bosworth Test. 1003:23-1005:5 (explaining that he would have reviewed before Mr. Verdu could proceed).
- 215. And Mr. Bosworth who also would have needed to approve any proposal to collaborate with Peloton testified "I would never trade my No. 1 game [Beat Saber] against theoretical gains in PX0054 (Bosworth 142:2-9, 220:22-221:6).

- 216. Echoing Mr. Beck's own concerns, Mr. Bosworth explained that modifying Meta's "best-selling title" from a game into a fitness app "would be insanity," "destroy value," "not make sense," and "be bad for both the games and the fitness side of things." PX0054 (Bosworth 139:17-3); see; Bosworth Test. 995:3-996:10 (similar); see also Zyda Test. 1223:14-1224:24 (similar).
- 217. But the idea died before it ever got to Mr. Bosworth as "no one" ever elevated it to him as a proposal or asked him for any funding. PX0054 (Bosworth 142:18-25); *see also* Bosworth Test. 993:18-994:21 (noting he heard about the idea in a single email and then "never heard about it again," which is "not very uncommon" at Reality Labs).
- 218. According to Mr. Bosworth, "it honestly wasn't something we ever took seriously," "[s]o it wasn't . . . something to review." PX0054 (Bosworth 142:2-144:16).
- 219. Similarly, the idea never materialized into a proposal that went to Mr. Zuckerberg who testified that modifying Meta's most successful VR game would warrant at least giving him a "heads up" if it were a serious consideration, which it was not. PX0050 (Zuckerberg 144:2-7); Zuckerberg Test. 1311:21-1312:14, 1332:20-1334:2, 1334:7-23; *see also* Rabkin Test. 822:7-24 ("I think [Bosworth] and [Zuckerberg] would really want to weigh in and make that call. Again, this is the number one app in our whole VR ecosystem that we spent so many years to build. Any change to it . . . would require a ton of approval and a ton of leadership.").
- 220. Every witness who would be involved in the decision whether to pursue this idea testified that there was no plan or any steps taken toward implementing a plan (*see* DDX1.30):



221. The documentary record corroborates the foregoing testimony: the mandatory for any Reality Labs project – including and especially modifying the top VR game into an entirely different kind of app – *does not exist*. *See* Bosworth Test. 987:18-988:18 (describing the review process), 990:24-991:2 ("No idea could be considered serious if it wasn't part of our Review process."); DX1312 ("); *see also* PX0522 at 2 ("); *see also* PX0522 at 2 ("); Bosworth Test. 988:19-989:5 (confirming that PX0522 is about the Reality Labs review process).

3. Meta Never Considered "Cloning" Beat Saber To Make a Fitness App

- 222. Meta never discussed an iteration on the idea of modifying Beat Saber that would have entailed "cloning" Beat Saber's code and using that as a base to build a new VR fitness app with similar or different branding. *See* Bosworth Test. 999:12-20.
- 223. Even had the idea been floated, Reality Labs would have rejected it as the worst of both worlds (i.e., build from scratch or modify Beat Saber). *See* Bosworth Test. 999:22-1001:10 ("[H]ere again we have so many examples, not just in virtual reality, but across all content, types of content that was very similar to some other content, but nonetheless did not succeed, in part because the market has already demonstrated that there is some affinity for a specific title."); Carmack Test. 581:7-582:24 ("legitimate companies don't just clone somebody else's software"; rejecting the idea of "do[ing] a grubby clone of someone else's virtual reality software").
- 224. Without leveraging the Beat Games team which did not want to work on a fitness modification Meta would effectively be building from scratch all over again and encountering all the problems that endeavor presents, just around a Beat Saber clone or shell. *See* Rabkin Test. 821:1-822:4 (testifying that cloning and proceeding with a new team does not "increase[] your chances of making it ahead significantly at all, . . . it's all of the problems that I described earlier why it's hard to do a new app in a category that your company is not good at making").
- 225. The time required to surmount those problems could put Meta too far behind other applications. *See* Bosworth Test. 1002:15-1003:2 ("I don't think we could do it technically. We didn't have the skill sets in fitness required or the content creation required. I don't think we could

do it successfully. I don't think if we built it that the product would succeed. And if we managed to overcome both of those hurdles, I don't think we could do it in time. I think while we were trying to build it, years will have passed. Supernatural, FitXR, Les Mills Bodycombat, a huge number of applications will have had all of that time to continue to grow their market and their fit and learning what the market is.").

- 226. Defendants' expert in VR technology and software development, Dr. Michael Zyda, explained that the cloning concept could impede rather than expedite app development across VR because "[i]f someone came in and said, you must use this code, what would happen is that the engineers would go and rewrite the code and probably throw most of the code out" because they did not write it, but inherited it and development "would take longer." Zyda Test. 1222:10-21; see also Bosworth Test. 1057:2-10 ("Even if we surpass that hurdle, does the thing you create have a soul? Does the thing you create have the same resonance? You can't just copy the bits.").
- 227. The documentary record contains no mention of the hybrid concept effectively, build from scratch by cloning Beat Saber to modify it with the closest being an internal Meta document regarding VR fitness development from March 2021 rejecting a similar idea:

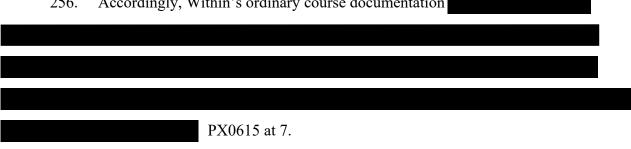
PX0492 at 7.

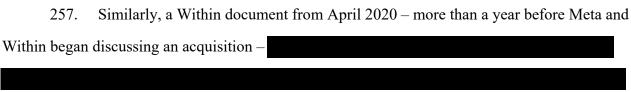
- 228. There were no planning documents, e.g., a Review, green-light process, or approval authority matrix all mandatory within Reality Labs for a project like this because this was not even an idea at Reality Labs. *See supra* ¶¶ 210-213, 221.
- 229. And a Beat Saber fitness "clone" still would have required a fitness partner Meta has no fitness resources and so would need to cobble together several teams but there was no outreach to (or interest from) Peloton. *See supra* ¶¶ 204-205.
- 230. In addition to presenting the foregoing problems with building from scratch, there was a practical reason the "cloning" idea would never be given any consideration: as Mr. Rabkin testified, this hypothesized approach taking Beat Saber's "app and . . . mechanic and . . . thing [Beat Games] invented and . . . have another team now build a fitness thing" could jeopardize Meta's relationship with the Beat Games. Rabkin Test. 863:6-12.

5. The FTC Expert's Opinion That Meta Would Develop Its Own VR Fitness App Is Speculation That Ignores Record Evidence

- 235. The FTC's economist opined that Meta would have built its own VR fitness app because it had and has the "resources, capability, and incentives" to do so. Singer Test. 318:9-20, 331:20-332:14.
- 236. But as detailed above, every fact witness with actual knowledge of the decision making inside Meta testified, without contradiction, that Meta conclusively decided not to develop its own VR fitness app. *See supra* ¶¶ 164-172 (building from scratch), 195-203 & 208-209, 214-220 (modifying Beat Saber).
- 237. Dr. Singer's conjecture about Meta's incentives to enter a segment where , see supra ¶¶ 71-72, is based on speculation that Fitness could be the "linchpin to owning VR." Singer Test. 332:8-12.
- 238. But Meta executives testified that fitness is not a particularly high priority use case and is behind core uses cases like social, gaming, and productivity. *See* Zuckerberg Test. 1304:6-1305:2, 1328:17-19.
- 239. Dr. Singer dismisses, without explanation, the undisputed testimony that Meta had no plan to build and never took any concrete steps toward building a VR fitness app of its own—whether by building from scratch, modifying Beat Saber, or cloning Beat Saber. *See supra* ¶ 236; see also supra ¶ 222 (there was never a "cloning" idea let alone proposal let alone plan).
- 240. Dr. Singer also disregards contemporaneous documents shutting down all ideas whether building from scratch or modifying Beat Saber (no one proposed cloning Beat Saber) by *March 2021*, months before Meta and Within began discussing an acquisition. *See supra* ¶¶ 173-176 (building from scratch), 192-193 (modifying Beat Saber).
- 241. Dr. Singer cites a handful of documents in a single paragraph of his expert report to claim that Meta had plans to develop a VR fitness app of its own. *See* PX0015 (Singer Rep. ¶ 112).
- 242. The first two documents Dr. Singer cites are simply the internal messages that Mr. Stojsavljevic sent after taking a Peloton class on February 16, 2021 not plans to build a VR fitness app. *See* PX0256 (Feb. 16, 2021); PX0523 (same).

| 255. Within's founders also testified that the company's perception was that Meta did not |
|--|
| have the particularized skills to build a VR fitness app. See Milk Test. 780:16-781:18 ("Meta just |
| wouldn't be the kind of company that would be able or have the interest or appetite for creating the |
| continuous flow of daily media and content that we produced So we didn't think that [Meta |
| entering VR fitness on its own] was likely from that standpoint."), 728:9-25, 782:1-21; Koblin Test |
| 649:21-650:19 ("[I]t just seemed extremely unlikely that they would hire coaches and build a green |
| screen studio and dive deep into the psychology of what makes fitness[,] fitness."). |
| 256. Accordingly, Within's ordinary course documentation |





PX0712 at 48 (emphasis added).

258. And in October 2020, Within employees emailed about

. PX0665 at 1 (emphasis added); Koblin Test. 640:7-22 (
); see also Singer Test. 410:6-11.

259. Within in fact concluded, following discussions with Beat Games and Meta, that Meta would not modify Beat Saber into a VR fitness app. See Milk Test. 782:1-21 ("We even spoke to them and definitely understood that this was not a team that was going to have any interest in turning their product into a fitness product. They really wanted to concentrate on making it the best game that it could possibly be."); Koblin Test. 650:24-651:5 ("[W]e met the Beat Saber team.

. . . I could see that the direction that they were going was deeper and deeper into their flavor of

competitive gaming, which was really very opposite in some ways to what we were trying to build."); *see also* Koblin Test. 697:24-698:10.

- 260. Other VR fitness app developers likewise testified that they did not (and do not) believe that Meta was (or is) uniquely likely to offer a VR fitness app because, among other reasons, it lacked (and still lacks) fitness experience and VR app development expertise. *See* DX1291 (Garcia Decl. ¶¶ 31-33) (developer of in-market VR fitness app "do[es] not believe Meta was or is likely to [enter], and we have never had particular concern about Meta," but instead its "competitive concerns" include "possible entry by other fitness companies, like Peloton or Equinox, and VR developers more broadly").
- 261. Even at least one non-VR fitness competitor itself a potential entrant into VR fitness internally doubted Meta's acumen and ability as to VR fitness. *See* at 1-2

262. Meta has no special advantage that makes it a uniquely likely potential VR fitness app competitor – many other companies, including some with actual fitness experience and production competencies, have financial resources and

See DX1233 (Zyda Rep. ¶¶ 123-124) (

); DX1230 (Carlton Rep. ¶¶ 152-159) (

); DX1220 (Garcia 70:2-12) (similar); Garcia Test.

- 1087:14-1088:1 ("I don't think that having resources, economical resources is enough to ensure a successful app, and we have seen many large companies launching products that have failed upon the launch of them.").
- 263. The FTC's expert, Dr. Singer, agreed that many other companies, including Apple, ByteDance, Google, and Sony could develop VR fitness offerings. *See* Singer Test. 419:7-422:25.
- 264. Nor are the resources that Meta possesses (capital and a VR platform) necessary for entry, as every VR fitness app that exists began as a small startup without a network of users or a VR platform of its own. *See* Singer Test. 423:1-5; DX1230 (Carlton Rep. ¶¶ 56-62 & Tbl. 7)

| 1 |); DX1233 (Zyda Rep. ¶ 81) (|
|----|---|
| 2 |); see also DX1291 |
| 3 | (Garcia Decl. ¶ 31) (describing Odders Lab as "small" studio); Stojsavljevic Test. 126:18-127:2 |
| 4 | (noting that there are "hundreds" of studios with VR developers); 184:11-16 (noting that Meta has |
| 5 | acquired 8 of approximately "300 to 500" different VR app developer studios). |
| 6 | 265. Dr. Singer acknowledged that small third-party VR app developers made the nine |
| 7 | VR fitness apps that make up the FTC's market. See Singer Test. 423:1-5. |
| 8 | 266. As the developer of new entrant Les Mills Bodycombat testified, "Odders Lab has |
| 9 | never believed, or even considered, that Meta would develop a VR fitness application on its own, |
| 10 | nor did it feel competitive pressure from the potential that it would." DX1291 (Garcia Decl. ¶ 32). |
| 11 | 2. The FTC's Expert's Opinion That Potential Meta Entry Uniquely |
| 12 | Spurred Innovation Is Entitled to No Weight |
| 13 | 267. Dr. Singer opined that the transaction eliminated competitive benefits from Within's |
| 14 | perception that Meta would independently enter. See Singer Test. 326:8-327:22. |
| 15 | 268. Dr. Singer's opinion that Within perceived Meta or Beat Saber as a meaningful |
| 16 | potential competitor and made decisions based on Meta or Beat Saber specifically (as opposed to |
| 17 | competition in general) again turns only on his non-expert and one-sided interpretation of |
| 18 | documents and testimony. See PX0015 (Singer Rep. ¶¶ 161-173). |
| 19 | 269. As before, the documents on which Dr. Singer relied do not support his opinions – |
| 20 | e.g., the pertinent part of Dr. Singer's report initially cites a series of Within documents discussing |
| 21 | Beat Saber in June and September 2019, before Meta acquired Beat Games, and before |
| 22 | Supernatural had even launched. See PX0607 (June 2019); PX0730 (Sept. 2019); see also Milk |
| 23 | Test. 701:16-18 (|
| 24 | |
| 25 |). |
| 26 | 270. Indeed, Dr. Singer cites a series of pre-Supernatural documents from 2019, in which |
| 27 | |
| 28 | See PX0669 (Oct. 2019); see also PX0627 (|
| | 59 |

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| 1 | |
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| 2 |); PX0655 (|
| 3 |); PX0659 (|
| 4 | 271. Dr. Singer next cites documents from late 2019, following the announcement of the |
| 5 | Beat Games acquisition – still before Supernatural had launched – in which |
| 6 | |
| 7 | PX0721 (Dec. 2019); PX0613 (Dec. 2019); see also Koblin |
| 8 | Test. 651:18-653:15 (regarding PX0721: "I meant that I honestly was not the least bit concerned |
| 9 | about Beat Saber becoming a fitness product. It seemed extremely improbable to me."). |
| 10 | 272. As discussed above, Dr. Singer also cites documents |
| 11 | |
| 12 | . See PX0712 at 48; PX0615 at 7; see also |
| 13 | PX0674 at 82 (|
| 14 |). |
| 15 | 273. In another document on which Dr. Singer relies, |
| 16 | . See PX0665 at 2. |
| 17 | 274. In other documents that Dr. Singer identifies, |
| 18 | |
| 19 | See PX0608; see also |
| 20 | PX0651 (|
| 21 |); see also PX0778 (|
| 22 | |
| 23 |). |
| 24 | 275. Dr. Singer also cites a December 2020 email from Within, see PX0621, which Dr. |
| 25 | Singer acknowledges has "no mention of Beat Saber explicitly" and is about "just general future |
| 26 | competition," PX0015 (Singer Rep. ¶ 167 n.312). See also Milk Test. 710:18-711:6 (|
| 27 | |
| 28 |). |
| | Defendants' Proposed Findings of Fact & Conclusions of Law Case No. 5:22-cv-04325-EJD |

| 1 | 276. Dr. Singer also cites Within documents <i>minimizing</i> the threat from FitBeat – the |
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| 2 | single two-minute soundtrack that Beat Games launched and later abandoned as an experiment on |
| 3 | Beat Saber. See PX0747 (|
| 4 |). |
| 5 | 277. Ultimately, Dr. Singer could not identify any feature that Within launched or price |
| 6 | decision that it specifically implemented because it feared competition from Meta. See Singer Test |
| 7 | 409:9-410:21; Milk Test. 745:14-16 ("Q. Have you added any features or offerings to Supernatural |
| 8 | because of potential competition from Meta? A. No."); Koblin Test. 638:1-21 (same). |
| 9 | 278. By contrast, Within's founders testified that the company did not worry about Meta |
| 10 | modifying Beat Saber into a VR fitness app. See Milk Test. 697:25-698:10 |
| 11 | |
| 12 | |
| 13 | ; Koblin Test. 616:16-617:25 (similar). |
| 14 | 279. Indeed, Mr. Milk testified that |
| 15 | |
| 16 | - further supporting Within's |
| 17 | perception that Meta was not a threat. Milk Test. 682:4-17. |
| 18 | V. Meta's Reasons for the Deal and Post-Acquisition Incentives |
| 19 | A. Meta Decided To Acquire Within To Promote VR Adoption and Growth |
| 20 | 280. Even though Meta executives never gave active consideration to building a first- |
| 21 | party VR fitness app, employees at Reality Labs were interested in fitness as a promising VR use |
| 22 | . See DX1021 |
| 23 | at 1 (|
| 24 | |
| 25 |); PX0207 at 12, 14 (|
| 26 |); see also PX0050 (Zuckerberg 153:7-154:2) (|
| 27 |); Zuckerberg Test. |
| 28 | 1291:10-25; 1304:6-1305:2; 1326:5-1327:24 (explaining fitness is not a "top three" priority). |
| | Defendants' Proposed Findings of Fact & Conclusions of Law Case No. 5:22-cv-04325-EJD |
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| 281. VR fitness appeals to a different demographic (more female and older) than VR |
|---|
| video games, and attracting this new audience to VR could grow the overall ecosystem by attracting |
| new third-party developers - including for VR use cases beyond fitness - that can attract even more |
| users. See Milk Test. 684:16-19; PX0066 (Rubin 132:7-14) (VR fitness appeals to "on average an |
| older person, on average more women" than "our gaming population"); PX0054 (Bosworth 168:20 |
| 169:6, 187:13-21) ("It's an entirely new category of customer that can help you grow the appeal, |
| again, on the path toward general computing."); PX0050 (Zuckerberg 168:2-169:44, 235:17-236:1) |
| (discussing how VR fitness can expand the VR audience); see also DX1100 at 22 (|
|); DX1230 (Carlton |
| Rep. ¶ 66) (); Carlton Test. 1372:6-19 (noting that VR fitness apps "seem to attract" a |
| "different demographic" than "VR games" that tend to appeal to "a more male, younger audience") |

- 282. Appealing to a broader audience is important to make the VR platform sustainable and commercially successful. *See* Stojsavljevic Test. 112:18-113:4 ("[I]f your demographics are out of whack with the actual population, it tends to cause issues with broad adoption and you want to try to correct that by getting customers the type of content that would diversify your audience.").
- 283. But that does not mean VR fitness "is going to be the killer app" no evidence suggests "enough people" will want to exercise on VR relative to other fitness options off-VR even though fitness might be another reason for people to buy VR headsets. Carlton Test. 1372:20-1373:5; *see also* Rabkin Test. 801:22-803:20 (non-fitness use cases are over 95% of VR time spent); Zuckerberg Test. 1291:10-25, 1304:6-22, 1326:5-1327:24 (fitness is not a priority use case).
- 284. Meta determined it would need to promote the VR fitness use case by investing in an existing first-party fitness studio, writing that its

PX0127 at 4.

285. In the summer of 2021, Meta became interested in a potential acquisition of Within for several reasons – to start, Meta could support the VR fitness use case by acquiring and scaling a promising VR fitness app, and Supernatural had been able to get some traction with early adopters.

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- 292. After negotiations, Within and Meta executed the Merger Agreement on October 22,2021. See DX1072 (Merger Agreement).
- 293. The acquisition has remained in limbo for more than a year, which has already created hardships for Within and its employees,

See Milk Test. 788:19-789:25; Koblin Test. 640:23-642:16; PX0062 (Milk 212:20-213:19).

. See PX0062 (Milk 19:8-12, 172:4-22, 194:11-14, 212:20-215:3).

- B. Meta's Pro-Competitive Incentives To Grow Supernatural and VR Broadly
- 295. Meta is acquiring Within to scale Supernatural and grow the overall VR ecosystem including by sharing innovations with other app developers, *see supra* ¶¶ 287-288 so that Meta can keep up with intense, dynamic, and fast-moving VR/AR competition. *See* PX0050 (Zuckerberg 30:10-31:1, 35:13-24, 150:16-152:11, 152:22-156:13, 159:8-13, 226:19-227:18) (

); Zuckerberg Test. 1328:20-1329:18,

1340:19-1342:5 (similar); DX1212 (Rubin 30(b)(6) 53:12-56:7) (

); PX0054 (Bosworth 148:9-149:5, 211:1-216:4)

(explaining reasons for the acquisition); DX1230 (Carlton Rep. ¶¶ 34-62, 171-193) (explaining growth and competition in this space, as well as the acquisition's likely pro-competitive effects).

- 296. As Mr. Bosworth testified, "we saw an opportunity where we could really help," including by allowing Within to "amortize across a large base of use cases, a good example being music rights" particularly "international music rights, which can be quite expensive" and "that would be something that allow[s] Supernatural, upon joining our company, to be able to reach a broader audience, a global audience that today is not available to them." Bosworth Test. 1008:5-20.
- 297. Meta can use the Within team to help improve the platform for fitness to the benefit of all VR fitness app developers with whom Meta will share technology improvements (and who will benefit from hardware optimizations for fitness). *See* Zuckerberg Test. 1338:12-1342:5 (explaining that a "tighter feedback loop between the developer and platform can inform platform

features"); Bosworth Test. 1009:1-1010:10 (discussing how Meta can make its "hardware . . . better suited for that [fitness] use case"); Rabkin Test. 859:12-861:21 ("[M]aybe we would want, in fitness, to develop brand new hardware. . . . There are a lot of things that we can do with an acquired first party investment that are strategic in a platform that is hard for us to do externally."); DX1290 (Janszen Decl. ¶ 30) ("I expect Meta will be able to use Within as a studio to . . . optimize the Quest hardware for fitness use."); see also DX1212 (Rubin 30(b)(6) 8:14-12:5, 53:12-55:13).

298. It would be directly contrary to Meta's strategy – and indeed damaging to it – for Meta to raise the price of Supernatural (or make it less innovative) and thereby make it less attractive to consumers. *See* DX1230 (Carlton Rep. ¶¶ 171-193 & App'x Tbl. 11); Carlton Test. 1370:14-1371:11 ("[Meta] want[s] people to have the headset and use it for a lot of things, and the only way to do that is if you have a great app."); *see also See* Milk Test. 786:22-788:17 (testifying that Within's expectation is the acquisition will allow it to scale); Koblin Test. 654:2-25 (similar).

299. A price increase, particularly one above competitive levels (or a quality degradation), would make the app less attractive to consumers, who would then be less likely to buy a Quest headset to enjoy the app, which would depress Quest sales, driving away app developers, which would drive away customers even further – a destructive cycle or feedback loop damaging to Meta's multi-billion-dollar VR investments. *See* DX1230 (Carlton Rep. ¶¶ 30, 172-175, 180-182) (explaining Meta's economic incentives); DX1233 (Zyda Rep. ¶¶ 100-108) (

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300. The non-party VR app developers who testified uniformly stated that the acquisition is beneficial to competition, because it is a vote of confidence in this nascent space, evidence of an exit ramp that will encourage outside investment and spur more app development and innovation, and an overall stimulus to growth of the VR/AR ecosystem. *See* DX1291 (Garcia Decl. ¶¶ 20-26) ("[T]he acquisition of Within could be a vote of confidence in VR generally, and in fitness applications in particular."); Garcia Test. 1090:5-16 (similar); DX1290 (Janszen Decl. ¶¶ 29-31) ("It will encourage others to develop VR products, including fitness products, because it is important to entrepreneurs to see that companies are investing in and are willing to acquire and grow apps in this

Koblin Test.

Dr. Carlton explained that this calculation was incorrect as a matter of economic

First, Dr. Singer did nothing to show that the relative changes in concentration he observed were connected to any anticompetitive effects: since an increase in concentration could reflect the fact that an acquired app was improved and attracted more users as a result, there is no basis to assert that an increase in concentration reflects any negative effects on consumers. See

Dr. Carlton examined what happened to prices of the apps that Meta acquired – and he found no evidence that Meta had ever increased the price of an acquired app; that finding is consistent with Meta's incentive to attract users to purchase additional Quest headset by making available attractive VR content that is high quality and competitively priced. See Carlton Test.

- 310. Second, Dr. Singer did not show or even claim that the categories he was examining were relevant antitrust markets; Dr. Carlton explained that this made his calculation of "concentration" meaningless. Carlton Test. 1411:3-13.
- 311. *Third*, Dr. Carlton showed that Dr. Singer calculated his measure of concentration HHI incorrectly, because he looked at market shares of apps within a particular category without accounting for common ownership of those apps, as the *Horizontal Merger Guidelines* require. *See* Carlton Test. 1411:17-1412:14 (explaining that if one followed Dr. Singer's approach, a horizontal merger of firms producing competing products would produce no increase in concentration).
- 312. Dr. Carlton redid Dr. Singer's HHI calculation, accounting for common ownership of multiple apps within a particular category; the corrected calculation reversed Dr. Singer's result, showing that in categories which Meta entered through acquisition, HHIs went down (the category became less concentrated) by an average of 314; in categories which Meta entered through de novo entry, HHIs went *up* by an average of 14. *See* Carlton Test. 1413:2-4; DDX11.17; DX1230 (Carlton Rep. App'x Tbls. 9-10).
- 313. Dr. Carlton also showed that Dr. Singer's calculation ignored other factors and produced nonsense results for example, it showed that the same acquisition both increased concentration (in one category) and substantially decreased concentration (in another category) underscoring that the calculation is completely uninformative of competitive effects of entry by acquisition vs. de novo entry. *See* Carlton Test. 1413:13-1414:10.
- 314. Dr. Singer also claimed that Meta would have an incentive after the transaction closes to raise the price of Supernatural because Meta will recapture some of the revenue it loses from subscribers leaving Supernatural through use of other VR fitness apps. *See* Singer Test. 345:22-347:17.
- 315. Meta has never raised the price of a single VR app after an acquisition. *See* DDX11.14; DX1230 (Carlton Rep. Tbl. 14); Carlton Test. 1410:3-24 ("it is just not true that Meta raises the price" instead, "the prices never change"), *id.* 1415:23-1416:8 (similar).
- 316. Dr. Carlton explained there is a good reason for that Meta's overriding economic incentive is to increase the output of Supernatural and other VR apps in order to attract new users to

buy and use Meta's VR headset. *See* Carlton Test. 1373:13-1375:10 (explaining why raising the price of Supernatural would be nonsensical), *id.* 1410:20-24, 1415:1-22 (similar); DX1230 (Carlton Rep. ¶¶ 30, 172-175, 180-182).

- 317. Price increases would drive at least *some* consumers away from the acquired app, which would increase the risk those users stop using their Quest headsets altogether as is the case for who stop using Supernatural harming Meta's billions of dollars in investment. *See* Bosworth Test. 1014:23-1015:12 (explaining that Meta has "no plan to raise the price to consumers" because what Meta "really want[s], in this entire space in virtual reality, we want as many people to gain access to virtual reality as possible").
- 318. Dr. Singer also claimed that if Meta acquires Supernatural, it will raise barriers to entry by denying platform access to competing VR apps. *See* PX0015 (Singer Rep. ¶¶ 93-105).
- 319. Dr. Carlton explained that Dr. Singer's prediction was contrary to Meta's overriding economic incentive to attract users to the Quest platform as well as evidence of Meta's past conduct: it has provided substantial technical and financial assistance to third party apps, including apps that compete with Meta's first party apps (even including those that compete against Beat Saber Meta's most successful VR app to date). Carlton Test. 1416:10-1417:24.
- 320. Mr. Bosworth elaborated that such irrational behavior (restricting platform access) "would be a disaster" because "acquiring a studio, whether it's Beat Games or Within, will absolutely cause independent developers to pay very close attention to what follows, and if they see that we're not treating those studios fairly relative to third party developers, then we will have done tremendous damage to our vision of having this platform ecosystem where developers feel that they can build a business and consumers feel that they can find a great selection of software." Bosworth Test. 1020:6-1021:24 (noting developers have access to other VR/AR platforms for distribution).
- 321. Rather than restrict access, Meta has instead spent "a lot of money on subsidizing developers" and "even though Meta may have competing products." Carlton Test. 1417:6-16.
- 322. Dr. Singer also claimed that Meta has an incentive to keep Supernatural exclusive to Quest (Within has decided to limit Supernatural to Quest for now) and subsequently disadvantage other VR fitness apps. *See* Singer Test. 350:9-351:12.

resources that Meta can provide); Koblin Test. 654:10-655:6 (stating that expansion of Supernatural to other platforms after acquisition closes has "definitely been what was communicated to us").

- 328. In all cases, Dr. Singer does not opine that Supernatural is a "must have input" that a VR/AR platform needs to succeed; he merely speculates that it could reach that level. *See* Singer Test. 350:16-22 (Supernatural "*could* be the next must have input") (emphasis added).
- 329. Dr. Carlton explained that the evidence does not support either an assertion that VR fitness is critical to the success of a VR platform or that a competing platform would be unable to develop or attract the development of a rival VR fitness app if that use case is popular. *See* Carlton Test. 1431:15-1433:2.
- 330. Dr. Singer opines that fitness is an important use case for VR/AR to succeed, but he also acknowledges that
 - either already feature or could build VR fitness apps. See supra ¶ 103.
- 331. Dr. Carlton explained why the loss of one potential entrant (Meta) does not make a difference to competition in a market where "there's a lot of entry, and there's no reason to think it won't continue." Carlton Test. 1406:23-1408:16 (explaining why both VR/AR platform entry and VR fitness app entry means there is no "competitive concern" from removing just one potential entrant because "if there are a lot of potential entrants, it doesn't matter if you get rid of Meta").

PROPOSED POST-HEARING CONCLUSIONS OF LAW

I. Legal Standards

A. Preliminary Injunction

332. Section 13(b) of the Federal Trade Commission Act allows the FTC to obtain a "preliminary injunction" where a person "is violating, or is about to violate, any provision of law enforced by the Federal Trade Commission" – including Section 7 of the Clayton Act, 15 U.S.C. § 18 – and where the FTC makes "a proper showing that, weighing the equities and considering the Commission's likelihood of ultimate success, such action would be in the public interest."

15 U.S.C. § 53(b); see also FTC v. Warner Commc'ns Inc., 742 F.2d 1156, 1159-60, 1162 (9th Cir. 1984) (per curiam) (FTC must raise "serious, substantial, difficult and doubtful" questions "going to the merits").

1. Likelihood of Success on the Merits

- 333. Section 13(b) requires considering the FTC's "likelihood of ultimate success" before preliminarily enjoining a transaction. 15 U.S.C. § 53(b). The FTC must prove "some chance of probable success on the merits." *FTC v. World Wide Factors, Ltd.*, 882 F.2d 344, 347 (9th Cir. 1989); *see also FTC v. Affordable Media*, 179 F.3d 1228, 1233 (9th Cir. 1999).
- 334. In assessing the FTC's likelihood of success, courts are "charged with exercising their 'independent judgment' and evaluating the FTC's case and evidence on the merits." *FTC v. Meta Platforms Inc.*, 2022 WL 16637996, at *5 (N.D. Cal. Nov. 2, 2022); *see also FTC v. Lab. Corp. of Am.*, 2011 WL 3100372, at *15 (C.D. Cal. Mar. 11, 2011) (*Warner* "serious question" standard does not eliminate "FTC's need to demonstrate a likelihood of success on the merits").
- 335. The Court has explained that it will "predict likelihood of success on the merits at the FTC's administrative proceedings." *Meta*, 2022 WL 16637996, at *4.

2. Equitable Balancing

336. Section 13(b) also requires the FTC to show that a balancing of the equities favors preliminary injunctive relief. *See Lab. Corp.*, 2011 WL 3100372, at *15, *21 ("[T]he FTC must present evidence and make an actual showing [that] the equities favor enjoining the transaction."). Equitable balancing under Section 13(b) includes consideration of both "public equities" and the "private interests" of the parties. *Id.* at *21-22.

B. Section 7 of the Clayton Act

- 337. Section 7 prohibits an acquisition where its effects "may be substantially to lessen competition, or to tend to create a monopoly." 15 U.S.C. § 18.
- 338. To make that showing, the FTC must prove the putative acquisition would likely harm consumers in a relevant antitrust market. *See United States v. Baker Hughes Inc.*, 908 F.2d 981, 900 n.12 (D.C. Cir. 1990) (Section 7 requires "a judgment whether the challenged acquisition is likely to hurt consumers"); *see also United States v. AT&T, Inc.*, 916 F.3d 1029, 1032 (D.C. Cir. 2019) (similar); *FTC v. Occidental Petroleum Corp.*, 1986 WL 952, at *15 (D.D.C. Apr. 29, 1986).
- 339. Proving harm to consumers entails showing the "combined entities" would likely "exercise market power by raising prices and restricting the availability of a product." *FTC v*.

Foster, 2007 WL 1793441, at *51 (D.N.M. May 29, 2007); see Malaney v. UAL Corp., 2010 WL 3790296, at *5 (N.D. Cal. Sept. 27, 2010), aff'd, 434 F. App'x 620 (9th Cir. 2011); see also Rebel Oil Co. v. Atl. Richfield Co., 51 F.3d 1421, 1433 (9th Cir. 1995) ("[R]eduction of competition does not invoke the Sherman Act until it harms consumer welfare.").

- 340. Harm to competition that harms consumers is a necessary element of any Section 7 claim invoking "potential competition" as a theory of liability. *See United States v. Marine Bancorporation, Inc.*, 418 U.S. 602, 625 (1974); *see also Missouri Portland Cement Co. v. Cargill, Inc.*, 498 F.2d 851, 860 (2d Cir. 1974) (Friendly, J.).
- 341. For a Section 7 claim, "antitrust theory and speculation cannot trump facts, and even Section 13(b) cases must be resolved on the basis of the record evidence relating to the market and its probable future." *FTC v. Arch Coal, Inc.*, 329 F. Supp. 2d 109, 116-17 (D.D.C. 2004); *see also Adaptive Power Sols., LLC v. Hughes Missile Sys. Co.*, 141 F.3d 947, 952 (9th Cir. 1998) ("Antitrust claims must make economic sense.").
- 342. "[A] failure of proof in any respect will mean the transaction should not be enjoined." *Arch Coal*, 329 F. Supp. 2d at 116.

C. Loss of "Potential Competition" as a Basis for Section 7 Liability

- 343. There is doubt over the extent to which an alleged loss of potential competition can support a Section 7 claim. The FTC has not litigated a "perceived potential competition" claim in nearly 40 years, and the Supreme Court has twice expressly declined to endorse "actual potential competition" claims. *See Marine Bancorporation*, 418 U.S. at 639 (regarding the validity of actual potential competition, "we do not reach it"); *see also United States v. Falstaff Brewing Corp.*, 410 U.S. 526, 537 (1973) ("leav[ing] for another day the question" of the theory's validity).
- 344. Under the prevailing substantive standard set by the Supreme Court in *Marine Bancorporation* which tightly limited the potential competition theory of Section 7 liability the FTC has lost each of the three potential competition cases it has brought seeking a preliminary injunction under Section 13(b). *See FTC v. Tenneco, Inc.*, 433 F. Supp. 105 (D.D.C. 1977) (denying Section 13(b) injunction); *FTC v. Atl. Richfield Co.*, 549 F.2d 289 (4th Cir. 1977) (same); *FTC v. Steris Corp.*, 133 F. Supp. 3d 962 (N.D. Ohio 2015) (same).

345. The potential competition theory of Section 7 liability "comes into play *only*" in relevant antitrust markets "where there are dominant participants in the target market engaging in interdependent or parallel behavior and with the capacity effectively to determine price and total output of goods or services," but that "fashion their behavior to take into account the presence of a potential entrant." *Marine Bancorporation*, 418 U.S. at 619, 630-31 (emphasis added); *see also Lektro-Vend Corp. v. Vendo Corp.*, 500 F. Supp. 332, 362 (N.D. Ill. 1980) (collecting cases), *aff'd*, 660 F.2d 255 (7th Cir. 1981).

- 346. A potential competition claim thus requires both oligopoly structure (few firms protected by high barriers to entry) *plus* coordinated behavior. *See Tenneco, Inc. v. FTC*, 689 F.2d 346, 352-53 (2d Cir. 1982) (evaluating additional factors in the presence of high concentration ratios); *Republic of Texas Corp. v. Bd. of Governors of Fed. Rsrv. Sys.*, 649 F.2d 1026, 1044 (5th Cir. Unit A June 1981) (oligopoly is "necessary" to the doctrine); *United States v. Siemens Corp.*, 621 F.2d 499, 505 n.6 (2d Cir. 1980) (same).
- 347. *Marine Bancorporation* is the controlling law for such claims that precedent is not limited to a particular industry or regulatory context. *See Tenneco*, 433 F. Supp. at 105-06 (auto equipment); *Atl. Richfield*, 549 F.2d at 291 (petroleum); *Republic of Texas*, 649 F.2d at 1028 (banking); *Siemens*, 621 F.2d at 501 (healthcare products); *cf. Marine Bancorporation*, 418 U.S. at 625-27 (articulating the standards for potential competition generally and then considering "application of the doctrine to commercial banking").

1. Actual Potential Competition

- 348. "Actual potential competition" claims cannot proceed without at least clear proof that, absent the acquisition, the acquirer would enter on its own in the near term. Otherwise, whether a firm would have taken some alternative course (build) in the absence of its chosen path (buy) is too speculative to support a showing of likely harm to competition under Section 7. *See Marine Bancorporation*, 418 U.S. at 622-23 (declining to accept the theory; noting that Section 7 "deals in probabilities, not ephemeral possibilities").
- 349. "The novelty of the [actual potential competition] doctrine and the absence of definitive authority sanctioning it and defining its parameters could well serve as a basis for denial

of a preliminary injunction under § 13(b), since it is difficult, if not impossible, to determine [the] FTC's chances of ultimate success when the law is so uncertain and the parameters of the doctrine obscure." *Atl. Richfield*, 549 F.2d at 294; *see also Lektro-Vend*, 500 F. Supp. at 362 ("The difficulty of meeting these criteria has resulted in almost uniform rejection of potential competition theories.").

- 350. No decision of the Supreme Court, the Ninth Circuit, or this District has sustained an actual potential competition claim and other courts have doubted its existence altogether. *See Siemens*, 621 F.2d at 504 ("[o]ne possible reason for the Supreme Court's reluctance to embrace the doctrine is that it rests on speculation"); *BOC Int'l Ltd. v. FTC*, 557 F.2d 24, 25 (2d Cir. 1977) ("the issue of the doctrine's basic validity" is unresolved); *United States v. Aetna Inc.*, 240 F. Supp. 3d 1, 75 (D.D.C. 2017) (similar).
- 351. In light of the Supreme Court's guidance, the FTC itself has limited the doctrine to cases in which there is "clear proof" that the acquirer would actually enter the target market on its own but for the acquisition. *In re B.A.T. Indus., Ltd.*, 1984 WL 565384, at *10 (FTC Dec. 17, 1984) ("Our review of the legal and economic bases for the actual potential competition doctrine has persuaded us that clear proof that independent entry would have occurred but for the merger or acquisition should be required to establish that a firm is an actual potential competitor."); *see also Siemens*, 621 F.2d at 506-07 (affirming order denying preliminary injunction where there was no "clear proof that entry would occur"); *Atl. Richfield*, 549 F.2d at 294 (similar).
- 352. The "clear proof" standard flows directly from the Supreme Court's warning that "[u]nequivocal proof that an acquiring firm actually would have entered de novo but for a merger is rarely available" causing the Court to doubt whether there could *ever* be such a claim. *Marine Bancorporation*, 418 U.S. at 624; *see also DeHoog v. Anheuser-Busch InBev SA/NV*, 899 F.3d 758, 764-65 (9th Cir. 2018) (rejecting potential competition claim as "classic speculative conclusion"). The Supreme Court's warning that non-speculative proof is "rarely available" did not lower the bar for proving an actual potential competition claim; it did the opposite "implying that the standard is one of 'unequivocal proof.'" *Atl. Richfield*, 549 F.2d at 294; *see id.* at 295 (noting that *Falstaff* did

not disturb the district court's finding – based "almost solely" on crediting "management's post-acquisition statements that [it] would not enter de novo" – that Falstaff was not a potential entrant).

- 353. The FTC proposes a lower standard than the *B.A.T. Industries* "clear proof" test that will apply in the administrative proceeding arguing it need show only a mere "reasonable probability" of actual entry but that standard is contrary to the weight of authority. *See Atl. Richfield*, 549 F.2d at 294-95; *B.A.T. Indus.*, 1984 WL 565384, at *9 n.34; *see also Siemens*, 621 F.2d at 506-07 (rejecting potential competition claim, even under "reasonable probability" standard, and stating that "preferably" there would be "clear proof that entry would occur" for such claims "since the loss threatened by the acquisition is not of existing, but only of potential, competition").
- 354. Nor does the FTC's lower standard draw support from unrelated Section 7 cases that have nothing to do with potential competition, i.e., traditional Section 7 cases in which the government must show a "reasonable probability" that an acquisition will produce *anticompetitive effects*. *See Warner*, 742 F.2d at 1160 (*not* a potential competition case; requiring "reasonable probability of anticompetitive effect"). To borrow here that separate standard for that separate element of a traditional Section 7 claim would improperly collapse the interaction between potential competition and Section 7. *See supra* ¶¶ 339-340.
- 355. The Eighth Circuit's decision in *Yamaha Motor Co. v. FTC*, 657 F.2d 971 (8th Cir. 1981), did not lower the bar for actual potential competition claims. In that case about a joint venture, the competitor already produced the competitive product the only question related to its *agreement* that it would not sell in the U.S. geographic market, as it *already had* twice before. *See id.* at 980 & n.12. *Yamaha* is therefore an inapposite case about actual competition between existing rivals not whether a potential entrant would build a business from scratch. *See Fraser v. Major League Soccer, L.L.C.*, 97 F. Supp. 2d 130, 141 (D. Mass. 2000) (stating about *Yamaha*: "[t]he businesses already existed; it was the competition between them that was only 'potential'").
- 356. In any event, this dispute is not material to the Court's decision here, as the evidence is insufficient to satisfy even the FTC's proposed standard.

2. Perceived Potential Competition

has limited it to cases in which "the acquiring firm's premerger presence on the fringe of the target market *in fact* tempered oligopolistic behavior on the part of existing participants in that market." *Marine Bancorporation*, 418 U.S. at 624-25 (emphasis added). That requires showing market participants were coordinating or colluding on price – or could have engaged in equivalent oligopoly conduct – and stopped or avoided such conduct specifically because of fear that the acquirer specifically might enter to take advantage of supracompetitive prices (rather than other potential competitors that can discipline such conduct even without the acquirer waiting in the wings). *See Tenneco*, 689 F.2d at 355; *see also Ginsburg v. InBev NV/SA*, 649 F. Supp. 2d 943, 947 (E.D. Mo. 2009), *aff'd*, 623 F.3d 1229 (8th Cir. 2010). "A claim of 'perceived' potential entry will not be upheld in the absence of evidence that present competitors have altered or tempered their conduct as a result of the acquiring firm's presence." *Tenneco*, 689 F.2d at 358.

II. The FTC Is Not Likely To Succeed on Its Section 7 Potential Competition Claim

- A. "VR Dedicated Fitness" Apps Are Neither a Relevant Antitrust Market nor Oligopolistic Failing Both *Marine Bancorporation* Predicates
- 358. For both of its potential competition theories actual and perceived the FTC must prove, first, that the nine-app "VR dedicated fitness" market is a properly defined relevant antitrust market. *See supra* ¶¶ 338, 345.
- 359. In addition, again for both theories, the FTC must prove that the properly defined relevant antitrust market is an "oligopoly" as to both behavior (i.e., in-market participants engage in parallel or coordinated anticompetitive conduct) and structure (e.g., substantial entry barriers protect the oligopoly's anticompetitive behavior). *See supra* ¶¶ 345-346.
 - 360. The FTC has not made either predicate showing in this case.
 - Nine So-Called "VR Dedicated Fitness" Apps Do Not Comprise a Relevant Antitrust Market
- 361. The FTC has not carried its burden of establishing a "relevant product market" "a necessary predicate to deciding whether a merger contravenes the Clayton Act." *Marine*

Bancorporation, 418 U.S. at 618 (internal quotation marks omitted); see also Lab. Corp., 2011 WL 3100372, at *17 (FTC's burden). A valid antitrust market must include all "[e]conomic substitutes," i.e., products and services that "have a 'reasonable interchangeability of use' or sufficient 'cross-elasticity of demand' with the relevant product." Hicks v. PGA Tour, Inc., 897 F.3d 1109, 1120 (9th Cir. 2018) (citation omitted); see id. at 1120-21 (relevant antitrust market must include "the group or groups of sellers or producers who have actual or potential ability to deprive each other of significant levels of business"). In all cases, the relevant antitrust market must reflect "economic reality," Epic Games, Inc. v. Apple Inc., 559 F. Supp. 3d 898, 1015 (N.D. Cal. 2021) — which the FTC's nine-app "VR dedicated fitness" market does not.

- 362. The FTC's market definition fails because it did not establish that it was proper to exclude from the relevant market fitness products, services, and apps on-VR (e.g., Gym Class) and off-VR (e.g., Apple Fitness+) that are "reasonabl[y] interchangeab[le]" by consumers "based upon price, use and qualities." *United States v. Oracle Corp.*, 331 F. Supp. 2d 1098, 1131 (N.D. Cal. 2004). Scores of products, services, and apps are available to consumers who want to exercise, *see supra* ¶¶ 74-76, a point the FTC concedes, *see supra* ¶ 146. That includes dozens of "connected fitness" products off-VR, e.g., Apple Fitness+, the Peloton Guide, and the Peloton mobile app, among many more. *See supra* ¶¶ 74, 89, 152. To the extent Meta's internal VR app categorization bears on this inquiry as the FTC suggests it is undisputed that there are more than 100 additional VR apps on just the Quest platform alone that Meta classifies as "fitness." *See supra* ¶ 90.
- 363. Actual user substitution data which Meta can track because it owns the VR platform confirm that Supernatural competes with a range of fitness products, not just eight other "VR dedicated fitness" apps. See supra ¶¶ 84-87, 151. Defendants' expert analysis of that data showed that, of Supernatural users who stopped using the app, started using another supposed "VR dedicated fitness" app. See supra ¶ 87. That means of former Supernatural subscribers either gave up on fitness altogether or, more plausibly, switched to different VR apps or off-VR products that the FTC omits from its market definition. That would be consistent with the FTC expert's own survey, which if credited at all found that consumers would switch from Supernatural to off-VR fitness products. See supra ¶ 147.

364. Industry participants confirm that so-called "VR dedicated fitness" apps compete with these many other on-VR and off-VR products, belying the FTC's market definition. *See Rothery Storage & Van Co. v. Atlas Van Lines, Inc.*, 792 F.2d 210, 219 (D.C. Cir. 1986) (crediting the view of industry participants). Every "VR dedicated fitness" app developer to testify agreed that it competes with many fitness products and services outside the FTC's market definition. *See supra* ¶ 79-83.

. *See supra* ¶¶ 77-78, 154.

- 365. By contrast, the FTC's nine-app market draws support from no fact witness testimony or ordinary course business documents. *See supra* ¶ 148. The FTC instead bases its market definition on an advocacy letter prepared for this litigation that identifies "Selected Competitors," ignoring that the same letter elsewhere identifies other VR fitness apps, including , and lists many off-VR competitors to Supernatural. *See supra* ¶¶ 149-150. Even the FTC's own expert refused to opine that there is a "VR dedicated fitness" market with just the nine apps the FTC identifies (or even that should not be in the market). *See supra* ¶ 110.
- 366. Against that industry backdrop, the FTC has tried to meet its burden to establish a relevant antitrust market through two alternative paths: First, the FTC relies on Dr. Singer's hypothetical monopolist test. Second, the FTC tries to define a market based on common features shared among "VR dedicated fitness" apps and supposedly no other products. Neither succeeds.

a. The Hypothetical Monopolist Test Is Irreparably Flawed – Leaving the FTC Without Proof of Its Market Definition

367. The FTC's asserted market of "VR dedicated fitness" apps depends on the testimony of its economic expert, Dr. Singer, but Dr. Singer provided no reliable testimony in support of the FTC's proposed market. See supra ¶ 117. To begin, Dr. Singer denied that he had offered any opinion that the relevant market is limited to the nine apps identified by the FTC – and he refused to say which apps were in or out of his proposed market. See supra ¶¶ 110-111. For this reason alone, the FTC is left without any expert testimony to support its market definition.

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368. Furthermore, Dr. Singer has repeatedly stated – many times in his written rebuttal report, and clearly in testimony – that he does not have an opinion regarding market definition sufficient to establish a relevant antitrust market independent of his quantitative analysis. See supra ¶¶ 114-116. Accordingly, his opinion that "VR dedicated fitness" apps are a relevant market depends on a "hypothetical monopolist test," which in turn relies on the results of a 150-person survey that Dr. Singer designed but did not himself perform. See supra ¶ 112-113.

369. For the many reasons discussed above, see supra ¶ 118-145, the Court declines to credit Dr. Singer's survey, hypothetical monopolist test, or the market definition opinion for which the survey is the linchpin. See Epic Games, 559 F. Supp. 3d at 963. It is evident that the survey is plagued by more than mere flaws. The Court finds no basis to conclude that Dr. Singer conducted a survey of Supernatural subscribers, see supra ¶ 118 – as opposed to persons who simply wanted to get paid for completing a poorly designed survey that generated hundreds of implausible or demonstrably false responses, see supra ¶ 119-131. Dr. Singer performed no quality control for the survey, nor did he implement it (nor did Qualtrics, the firm he said he relied on). See supra ¶¶ 141-143. In any event, Dr. Singer manipulated the survey results, see supra ¶¶ 132-138, which did not target the relevant set of users and potential users or even test the relevant market he proposes (as opposed to one that includes a mix of both on-VR and off-VR products), see supra ¶¶ 139-140 (wrong test), 145 (wrong population).

Without Dr. Singer's survey, there is no hypothetical monopolist test, and, without that quantitative analysis, there is no market definition – Dr. Singer has said that he does not have an opinion independent of his test. See supra ¶¶ 114-116. That alone ends the FTC's case – the FTC cannot define the relevant antitrust market through lawyer argument without an economic expert. See Teradata Corp. v. SAP SE, 570 F. Supp. 3d 810, 852 (N.D. Cal. 2021) ("when, as here, an expert opinion is not supported by sufficient facts to validate it in the eyes of the law, or when indisputable record facts contradict or otherwise render the opinion unreasonable, it cannot support a jury's verdict and therefore summary judgment is appropriate" on "the issue of market definition"); Hynix Semiconductor Inc. v. Rambus Inc., 2008 WL 73689, at *10 n.13 (N.D. Cal. Jan. 5, 2008) ("Establishing market definition in this case likely requires expert testimony."); see also

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Defendants' Proposed Findings of Fact & Conclusions of Law

AFMS LLC v. United Parcel Serv. Co., 105 F. Supp. 3d 1061, 1076-77 (C.D. Cal. 2015) ("Without any expert testimony to opine on the scope of the relevant market, it is difficult to see how Plaintiff could meet its evidentiary burden."), aff'd, 696 F. App'x 293 (9th Cir. 2017); see also United States v. Booz Allen Hamilton, Inc., 2022 WL 9976035, at *13 (D. Md. Oct. 17, 2022) (rejecting flawed test); FTC v. RAG-Stiftung, 436 F. Supp. 3d 278, 308-09 (D.D.C. 2020) (similar).

b. The Evidence Does Not Support "Practical Indicia" of the Nine-App "VR Dedicated Fitness" Market

371. Even if the FTC could proceed without Dr. Singer's opinion as to market definition (it cannot), the Court also concludes that the FTC has failed to define a market by reference to "practical indicia" independent of any reliable quantitative analysis. Brown Shoe Co. v. United States, 370 U.S. 294, 325 (1962). As noted, Dr. Singer did not offer any opinion that such practical indicia would be sufficient without more to define the market – he instead disavowed that position, repeatedly. See supra ¶¶ 114-116. For the reasons above, the Court finds that the FTC's attempt to define its market based on "practical indicia" – and without the support of any economic expert opinion – contradicts the overwhelming weight of industry evidence, see supra ¶¶ 74-83, 88-89, 152-154, which shows that Supernatural and other VR fitness products compete with non-VR fitness products – sometimes more directly than they do with each other, see supra ¶ 84-87, 147.

372. First, the evidence does not show that VR fitness – simply because it takes advantage of VR technology or has a single characteristic ("immersiveness") – does not compete with other fitness products. "[M]erely asserting that a commodity is in some way unique is insufficient to plead" – let alone prove – "a relevant market." Concord Assocs., L.P. v. Entm't Props. Tr., 817 F.3d 46, 54 (2d Cir. 2016); see also IT&T Corp. v. Gen. Tel. & Elecs. Corp., 518 F.2d 913, 932 (9th Cir. 1975) (market definition turns on what is "economically significant"); hiQ Labs, Inc. v. LinkedIn Corp., 485 F. Supp. 3d 1137, 1149 (N.D. Cal. 2020) (differentiated features do not put products in separate markets); Oracle, 331 F. Supp. 2d at 1159 (similar). The FTC makes no showing that "immersion" or other VR features are uniquely appealing to consumers – such that they would not switch to another fitness product without those features – or even that other on-VR and off-VR products the FTC omits are not comparably "immersive." See supra

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¶¶ 74, 154. Merely identifying a differentiated feature – VR is separate because it is VR – is a tautology, not evidence of a separate market. *See In re Super Premium Ice Cream Distrib. Antitrust Litig.*, 691 F. Supp. 1262, 1268 (N.D. Cal. 1988) (rejecting market defined by reference to "physical or price differences" because "various adjectives" do not "establish separate markets"), *aff'd sub nom. Haagen-Dazs Co. v. Double Rainbow Gourmet Ice Creams, Inc.*, 895 F.2d 1417 (9th Cir. 1990).

Second, "VR dedicated fitness" apps are not distinguished from all other fitness 373. products by different prices and pricing models. To start, "the relevant market is not governed by the presence of a price differential between competing products," Twin City Sportservice, Inc. v. Charles O. Finley & Co., 512 F.2d 1264, 1274 (9th Cir. 1975), and products are not in separate markets "simply because consumers pay for those products in different ways," Lab. Corp., 2011 WL 3100372, at *18. See also Oracle, 331 F. Supp. 2d at 1121 ("[P]roducts competing against one another in a differentiated product market may have widely different prices."). But even if the FTC's position had legal backing, the claimed "VR dedicated fitness app" market omits many products – on-VR and off-VR – that are comparably priced to or even cheaper than the in-market apps. See supra ¶¶ 74, 155. And many of the FTC's in-market apps are not even themselves subscription products but instead employ a range of different pricing models. See supra ¶ 108, 155; see also W. Parcel Express v. United Parcel Serv. of Am., Inc., 65 F. Supp. 2d 1052, 1059-60 (N.D. Cal. 1998) (rejecting plaintiff's "attempt to define the market on the basis of price or product variances" because "the record [in the case] show[ed] both a spectrum of consumer choices, and active competition for those choices"), aff'd, 190 F.3d 974 (9th Cir. 1999).

374. *Third*, there is no evidence that "VR dedicated fitness" apps appeal to "distinct customers." *Brown Shoe*, 370 U.S. at 325; *see also Oracle*, 331 F. Supp. 2d at 1131 ("the issue is not what solutions the customers would *like* or *prefer* for" the need they are satisfying, but rather "what they *could* do in the event of an anticompetitive price increase by [the hypothesized] postmerger"). The evidence shows only that VR fitness apps appeal to a different demographic – more women and older consumers – than VR *video games*. *See supra* ¶ 281. That says nothing about whether "VR dedicated fitness" apps appeal to a demographic of fitness consumers unwilling to

substitute to off-VR fitness products or that users, once they purchase a VR headset, will not experiment with other VR fitness apps that are not within the FTC's set of nine. *See supra* ¶¶ 74, 83-87.

375. The only evidence of actual user behavior confirms that consumers substitute

Supernatural for many fitness products. To start,

. See supra ¶ 84-85. Tellingly,

. See supra ¶ 86. By contrast, only a fraction of users who stop using Supernatural — — — — — switch to another on-VR fitness product, even if they keep using the Quest headset for other apps. See supra ¶ 87. Such evidence, particularly when combined with the testimony of app developers, see supra ¶ 79-83, shows that the FTC's claim that the relevant competition is among "VR dedicated fitness" apps ignores the competition that actually influences the conduct of market participants — Meta and app developers alike.

2. The FTC Does Not Show That the "VR Dedicated Fitness App" Market Is Oligopolistic – as *Marine Bancorporation* Requires

- 376. Because potential competition "comes into play only where there are dominant participants in the target market engaging in interdependent or parallel behavior and with the capacity effectively to determine price and total output of goods or services" i.e., oligopoly behavior and structure the FTC must demonstrate that it is likely to establish that the claimed market fits that exacting description. *Marine Bancorporation*, 418 U.S. at 630. The FTC has not seriously attempted to do so, offering no evidence of an oligopoly, instead urging a different interpretation of *Marine Bancorporation*. However, the Court reads *Marine Bancorporation* to mean what it says, which forecloses both of the FTC's potential competition theories.
- 377. First, the FTC presented no evidence of oligopolistic behavior such that "there are dominant participants in the target market engaging in interdependent or parallel behavior," Marine Bancorporation, 418 U.S. at 630, e.g., coordinating as to parallel pricing, output restraints, or anything similar, see Brooke Grp. Ltd. v. Brown & Williamson Tobacco Corp., 509 U.S. 209, 227

 (1993) (defining oligopoly behavior); *Missouri Portland*, 498 F.2d at 860 (Friendly, J.) (describing oligopoly in rejecting potential competition claim). The FTC did not offer proof as to this element of its claim *and* failed to contest evidence directly contrary to it: every "VR dedicated fitness" app developer to testify has confirmed that there is no coordinated behavior, but instead intense competition, constant consumer turnover, and limited profitability. *See supra* ¶ 106. The FTC's expert expressly declined to offer any opinion that there is oligopolistic coordination among current market participants. *See supra* ¶ 107; *see also supra* ¶¶ 90-105 (discussing actual and expected new VR fitness entry). And Defendants' expert testified that there is no such oligopolistic conduct. *See supra* ¶ 109. The purportedly in-market apps have distinct pricing models and prices, the opposite of coordination. *See supra* ¶ 108. It is uncontested that the nine so-called "VR dedicated fitness" apps are not engaged in parallel behavior – not as to price, output, quality, or any other conduct. *See supra* ¶¶ 106-109. That alone ends the FTC's claim.

378. Second, there is no evidence that the structure of the claimed market is such that the nine selected apps have "the capacity effectively to determine price and total output of goods or services." Marine Bancorporation, 418 U.S. at 630. For firms to have such power, "entry barriers must be significant." Rebel Oil, 51 F.3d at 1439; see B.A.T. Indus., 1984 WL 565384, at *8 (rejecting potential competition); see also United States v. Syufy Enters., 903 F.2d 659, 671 n.21 (9th Cir. 1990) ("the lack of entry barriers prevents the government from prevailing on its Clayton Act claim"). "Entry barriers are additional long-run costs that were not incurred by incumbent firms but must be incurred by new entrants, or factors in the market that deter entry while permitting incumbent firms to earn monopoly returns." Rebel Oil, 51 F.3d at 1439.

379. Those factors are absent here and the proof belies the existence of "barriers" in the sense that implicates antitrust – that is, barriers beyond those that go with starting any new enterprise. New entry in the FTC's purported market is constant, with more expected, *see supra* ¶ 91-102, 104; even the FTC's economist concedes many firms could enter, *see supra* ¶ 103. The FTC increased the number of in-market firms from five to nine since filing its complaint – most of which entered after Supernatural, *see supra* ¶ 91 – which alone proves there are no significant entry barriers. Two of the apps the FTC identifies as being in the market entered this year – and both are

associated with off-VR fitness products, establishing that such non-VR products are a likely source of entry. *See supra* ¶ 92. And every in-market firm began as a small startup, with few VR engineers and without substantial cash or a network of users. *See supra* ¶¶ 264-265. That ends the claim. *See United States v. Hughes Tools Co.*, 415 F. Supp. 637, 643-44 (C.D. Cal. 1976).

- 380. As to Meta's control of the Quest platform, the evidence shows that Meta's economic incentive and actual strategy for growing its VR ecosystem is to facilitate the entry of as many third-party apps as possible. See supra ¶¶ 49-51. That is how Meta competes against other platforms VR/AR and non-VR to generate a return on its billions of VR/AR investment. See supra ¶¶ 32-33. Moreover, even if Meta were to restrict access to its store, there are many alternative platforms for VR app distribution that Meta does not control both at the hardware level and the app store level, including some stores (like SteamVR) that work on Quest devices. See supra ¶¶ 20-26 (many VR headsets), 35-36, 43 (many distribution platforms). In light of looming competition from other VR platforms including —

 Meta would be shooting itself in the foot if it restricted access to its platform. See supra ¶¶ 33-34.
- 381. The FTC does not offer evidence that that Meta "curates" the Quest Store to inhibit the entry of apps competitive with its own. Nor could it Meta finances, supports, and promotes apps that compete with some of Meta's most popular VR titles. *See supra* ¶¶ 41, 51. Meta instead reviews the apps it spotlights in the Quest Store for quality to ensure a positive user experience (and avoid new users encountering low-quality VR apps that might deter them from using the platform, harming all apps). *See supra* ¶¶ 37-40. But even for lower-quality apps, Meta provides distribution via the App Lab to thousands of third-party titles. *See supra* ¶¶ 36-37. Meta also allows consumers to download apps from other distribution platforms via sideloading. *See supra* ¶ 42.
- 382. As a matter of law, the FTC cannot carry its burden as to this element of its potential competition claim by showing only that the claimed "VR dedicated fitness app" market is concentrated (by some measures) at a particular snapshot in time. *See Marine Bancorporation*, 418 U.S. at 632 n.34 (requiring evidence of "actual market behavior, and especially the presence . . . of significant parallel conduct"); *United States v. Black & Decker Mfg. Co.*, 430 F. Supp. 729, 744 (D. Md. 1976) ("The defendants may . . . introduce evidence that the concentration ratios . . . do not

accurately reflect the competitive nature of the market."). Those concentration ratios depend on the FTC's proposed market definition, which this Court has rejected for the reasons explained above. Moreover, "introducing evidence of concentration ratios" at most "established a prima facie case that the [target] market was a *candidate* for the potential-competition doctrine." *Marine Bancorporation*, 418 U.S. at 631 (emphasis added); *see also Tenneco*, 689 F.2d at 352-53 (same). Concentration is only one indicator of a structure that makes interdependent conduct possible, but "concentration ratios . . . can be unreliable indicators of actual market behavior" that must yield to evidence of actual "economic characteristics" when it is available (as is the case here). *Marine Bancorporation*, 418 U.S. at 631.

383. Where market shares are changing rapidly and entry is frequent – as is true here, *see supra* ¶¶ 91-93 – a snapshot of current revenues says little about the future competitive conditions of a market. *See Marine Bancorporation*, 418 U.S. at 631 ("[T]here would be no need for concern about the prospects of long-term deconcentration of a market which is in fact genuinely competitive."). And even where there is both significant concentration and protective barriers (not so here), the Supreme Court in *Marine Bancorporation* acknowledged a potential competition concern only after noting that there was also "no significant evidence of the absence of parallel behavior," *id.* at 631-32 – while, here, everyone (including the FTC's economist) found no parallel behavior. *See also Republic of Texas*, 649 F.2d at 1045-46 (similar).

subsequent and clear direction. See Marine Bancorporation, 418 U.S. at 623 (explaining that United States v. El Paso Natural Gas Co., 376 U.S. 651 (1964), cited by the FTC, "was in reality . . . an actual-competition rather than a potential competition case"). And earlier cases (including those on which the FTC relies) are precursors to the Marine Bancorporation rule, e.g., United States v. Penn-Olin Chem. Co., 378 U.S. 158 (1964), explained that potential competition applies where there is an entrant "waiting anxiously to enter an oligopolistic market." Id. at 174 (emphasis added); see also United States v. Phillips Petroleum Co., 367 F. Supp. 1226, 1254 (C.D. Cal. 1973) (accepting a potential competition claim after finding in-market participants are protected by "extremely high barriers to entry," i.e., oligopoly structure), aff'd mem., 418 U.S. 906 (1974).

supra ¶¶ 351-352 (collecting cases). As noted above, the "clear proof" standard is the one that will apply in the FTC administrative proceeding – see In re Altria Grp., Inc., 2022 WL 622476, at *66-67 & n.34 (FTC Feb. 23, 2022) (Chappell, ALJ) (applying B.A.T. Industries as Commission precedent) – and this Court's inquiry is to "predict likelihood of success on the merits at the FTC's administrative proceedings." Meta, 2022 WL 16637996, at *4. As the FTC's ALJ recently held (citing B.A.T. Industries), for actual potential competition claims "the FTC must establish that the alleged potential entrant would have entered the market independently . . . but for the challenged merger," which "requires proof, not only that the alleged actual potential entrant possesses the capabilities, economic incentives, and interest to feasibly enter the relevant market, but also that entry would have occurred within the near future." Altria, 2022 WL 622476, at *214 (emphases added) (applying a "reasonable probability" standard to the timing element, not the entry element, and noting that "a 'reasonable probability' that the alleged potential entrant would have 'eventually entered' . . . is insufficient because such an 'eventual entry' test is wholly speculative').

388. But whether the standard is "clear proof" or "reasonable probability," the FTC's evidence fails to satisfy it.

389. The evidence is unequivocal that Meta executives with authority to approve first-party app development – and authorize budgets even to start that work – never did so, never saw a proposal for doing so, and would not have approved such a proposal had one existed. *See supra* ¶ 164-166, 169-171, 195, 198, 208-220, 233-234. Lower-level Meta witnesses discussed ideas for possible fitness apps or modifications but never came forward with a plan to develop one – as confirmed by sworn testimony and contemporaneous documents as to all of the various alternatives the FTC has suggested, from building from scratch to modifying Beat Saber, and even cloning Beat Saber (a litigation invention and not an idea that Meta ever considered). *See supra* ¶ 163-181 (building from scratch), 182-221 (modifying Beat Saber), 222-232 (the "cloning" hypothesis). The ideas went nowhere because Meta has no fitness expertise, *see supra* ¶ 169-170, 173, 208, limited history of successfully building VR apps from scratch, *see supra* ¶ 169-174, higher priorities, *see supra* ¶ 175-176, 233-234, 238, 280, 283, and no interest modifying Beat Saber against the wishes of Beat Games and its development team, *see supra* ¶ 193-202.

390. The Court declines to credit Dr. Singer's alternate interpretation of the evidence or his ultimate opinion that Meta would develop its own fitness app. *See supra* ¶ 235-241. Dr. Singer is an economist, not a factfinder, and his interpretation of documents and testimony is not entitled to any weight. *See Wilson v. Muckala*, 303 F.3d 1207, 1218 (10th Cir. 2002) ("The credibility of witness testimony is a matter left to the [factfinder] and generally is not an appropriate subject for expert testimony."); *United States v. Adams*, 271 F.3d 1236, 1246 (10th Cir. 2001) (similar). Further, the Court disagrees with Dr. Singer's interpretation of the documents he cites in support of his opinion – none amounts to a plan or proposal to develop any kind of VR fitness app. *See supra* ¶ 242-249.

- standard. See Siemens, 621 F.2d at 507-08 ("reliance upon a few memoranda of lower echelon" employees "as indicative of an intent to enter the market de novo is misplaced," particularly where "their views do not appear to have been brought to the attention of the decision-making management"); Atl. Richfield, 549 F.2d at 296 ("continuing studies as to the best means of entry . . . fail[] to show a significant commitment at the decisional level"). The FTC must show at least what the ALJ will require in the administrative proceeding: "concrete" planning such as a presentation through ordinary course business channels (here each of the Review, game-design document, greenlight process, and approval authority matrix) as well as approval from decision-level management. B.A.T. Indus., 1984 WL 565384, at *6; see also Atl. Richfield, 549 F.2d at 296-97 (requiring "a significant commitment at the decisional level"). There is no evidence that ever happened, would have happened absent the deal, or will happen in the future. See supra ¶¶ 210-221, 233-234.
- 392. Further, the FTC's claim fails for the additional and independent reason that no evidence shows that Meta's entry would or could be "imminent." *Marine Bancorporation*, 418 U.S. at 623 n.22; *see also B.A.T. Indus.*, 1984 WL 565384, at *10 (absent imminent entry, "[t]he likelihood of injury to future competition may . . . not be particularly great even if independent entry but for the merger or acquisition is a virtual certainty"). Removing by acquisition the mere "ephemeral possibility" of actual entry at some "wholly speculative" date uncertain has no effect on competition. *BOC Int'l*, 557 F.2d at 28-29 (requiring at least entry in the "near future," rejecting FTC claim without that showing); *see also Siemens*, 621 F.2d at 507 (similar). And the undisputed

record is that it would take Meta,

See supra ¶¶ 177-181. If there is a "VR dedicated fitness" app market at all, it loses nothing by forgoing hypothetical, speculative, and delayed entry from Meta. Were there doubt, the FTC's

expert has conceded that many other firms could enter, too. See supra ¶ 103.

- 393. The failure of the FTC's evidence is especially clear in light of *Steris*, the FTC's most recent effort to block an acquisition under Section 13(b) based on a claim of actual potential competition. There, the district court accepted the FTC's proposed standard and found its showing to be inadequate. *See Steris*, 133 F. Supp. 3d at 966 (citing FTC brief: "The FTC asserts that the acquisition of an actual potential competitor violates Section 7 if (1) the relevant market is highly concentrated, (2) **the competitor 'probably' would have entered the market**, (3) its entry would have had pro-competitive effects, and (4) **there are few other firms that can enter effectively**.") (emphases added).
- 394. The *Steris* court held that the minimum necessary to show even a "reasonable probability" of entry would be evidence that, "if the merger does not go through," the potential entrant "is likely to revive its plans and build . . . in the near future." 133 F. Supp. 3d at 977. But there is no such evidence here; the uncontradicted testimony of Meta executives supported by contemporaneous business documents prepared in the ordinary course is that the company never had plans to build its own VR fitness app and will not make, let alone adopt and authorize funding for, those plans for the first time if the Court enjoins this transaction. *See supra* ¶¶ 389-391.
- 395. The contrast between the facts in this case and *Steris* is instructive. There, the acquired company was already providing its services in Europe i.e., it was already making the competitive product at issue so there was no question of building from scratch and there was a plan to enter the U.S. geographic market that the *board of directors approved*. *See Steris*, 133 F. Supp. 3d at 972-73. Following board approval, "core team members" attended a "kickoff" to launch the U.S. endeavor. *Id.* at 973. The target had begun securing options contracts from U.S. customers that it would serve upon entry into that geographic market. *Id.* The target even had

signed a "lease extension" for the buildout of a U.S. facility. *Id.* at 974. Despite that evidence – far greater than what the FTC presents here – the district court found that it was not even "reasonabl[y]" "probabl[e]" that there would be de novo entry but for the acquisition. *Id.* at 978.

396. The FTC places significant weight on *Penn-Olin* – to no avail. There, the government presented evidence "beyond question" that the two potential entrants had "the inclination, resources and know-how to enter th[e] market" and "evidenced a long-sustained and strong interest in entering the market area" – yet even those "strong circumstances" gave the Supreme Court no reason "to disturb the [district] court's finding that there was not a reasonable probability that both [potential entrants] would have built a plant." *Penn-Olin*, 378 U.S. at 174-75; *see id.* at 176-77.

397. In fact, the post-remand history of *Penn-Olin* – in which the Supreme Court subsequently affirmed another rejection of the potential competition claim at issue – confirms the legal and factual infirmity of the FTC's position here. On remand, the district court rejected the actual potential competition claim, finding it was not reasonably probable that either firm would enter absent the transaction. The court credited live testimony from executive decision makers, explaining that "it is essential to distinguish between the views and actions of those in the [potential entrant's] organization who were charged with decision making responsibility, and those whose function it was to make preliminary studies and recommendations." *United States v. Penn-Olin Chem. Co.*, 246 F. Supp. 917, 919 (D. Del. 1965) ("Obviously the former are vastly more significant than those of the latter in predicting hypothetically what [the potential entrant] would have done but for the [transaction]."), *aff 'd by an equally divided Court*, 389 U.S. 308 (1967); *see also id.* at 927 ("But even if a proposal for [independent entry] would have passed muster with the staff, . . . no intelligent forecast can be made as to the likelihood of its approval by the Board of Directors who had the final say.").

398. The FTC's effort to rely on "objective evidence" – effectively a claim that it need not show any planning of actual entry under any standard, so long as it can show Meta "could" have motive and resources to enter – is unsupported speculation that no court has accepted in decades as a basis to block an acquisition. *See Tenneco*, 689 F.2d at 353-54 ("interest," "incentive," and "financial resources" to enter only amounted to "unsupported speculation"); *Siemens*, 621 F.2d at

507 ("interest and incentive to enter" was "inadequate to demonstrate the likelihood, much less the certainty," of entry); *Mercantile Texas Corp. v. Bd. of Governors of Fed. Rsrv. Sys.*, 638 F.2d 1255, 1268 (5th Cir. Unit A Feb. 1981) (similar); *Atl. Richfield*, 549 F.2d at 299 (same). As the concurring opinion in *B.A.T. Industries* explained of the FTC's own precedent that will govern in the administrative proceeding here: "B.A.T. was intended as a test case to see if purely objective evidence could establish liability under the actual potential entrant theory. The answer today is that it cannot. Despite a well-litigated case which presented us with as extensive and in-depth an economic record as we are likely to see, the inherent limitations of economic evidence mean that, standing alone, it cannot meet a 'clear proof' (or, in my opinion, even a 'reasonable probability') standard." *B.A.T. Indus.*, 1984 WL 565384, at *26 (Bailey, Comm'r, concurring); *see also Bell Atl. Corp. v. Twombly*, 550 U.S. 544, 569 (2007) (holding speculation about potential entry insufficient to maintain Section 1 claim and noting that firms "do not expand without limit and none of them enters every market that an outside observer might regard as profitable").

had no plan to build a VR fitness app on its own, in any way, *see supra* ¶ 389-391 – the contemporaneous and "objective" documentary evidence forecloses the FTC's claim. Meta memorialized its decision *not* to build a VR fitness app from scratch – and even explained why modifying Beat Saber would not work, and why cloning Beat Saber would not work – months before approaching Within. *See supra* ¶ 173-176, 192-193. Equally telling is the absence of a single document indicating that any proposal to build a VR fitness app from scratch, modify Beat Saber, or clone Beat Saber initiated even one of the many stages of mandatory Review, a gamedesign document, the green-light process, and the Reality Labs approval authority matrix. *See supra* ¶ 210-213, 221. None exists. The FTC's own precedent concludes that is sufficient to defeat the claim. *See B.A.T. Indus.*, 1984 WL 565384, at *6 ("[I]f the firms' intention to enter independently has become sufficiently concrete . . . , that intention will ordinarily be memorialized in one documentary form or another.").

400. In any event, the objective factors the FTC identifies – such as financial resources and a VR platform on which to build – are not unique to Meta. *See supra* ¶ 262. And Meta is

without several objectively necessary tools to build a "VR dedicated fitness app," including fitness-knowledgeable VR engineers or any fitness background at all (

-). See supra ¶¶ 169-170, 260-261.
- 401. Finally, even if the "objective" and "subjective" evidence pointed in different directions in fact, both weigh decisively against the FTC's position here the Supreme Court affirmed *Penn-Olin* following remand, where the district court relied on testimony (like the uncontradicted testimony in this case) explaining that entry would not occur notwithstanding "objective" factors favoring potential entry. *See Penn-Olin*, 246 F. Supp. at 926, 932-33.
- 402. The Court concludes that the FTC has not shown a likelihood of success as to actual potential competition. The FTC has not carried its evidentiary burden even under the "reasonable probability" standard (*Steris* requires there be some proof the acquirer "would" enter not "could" enter). The Court need only compare the facts here to *Steris* where the FTC lost a Section 13(b) actual potential competition claim subject to "reasonable probability" despite showing board approval of a plan and steps to implement it to confirm that the FTC has not carried its burden.

2. The FTC Cannot Show That Meta Was One of Few Potential Entrants

- 403. The FTC has offered no proof that Meta is the only firm or one of very few firms that could enter as the FTC has previously acknowledged it must prove in a Section 13(b) case asserting a loss of actual potential competition, despite conspicuously abandoning here. *See Steris*, 133 F. Supp. 3d at 966 (citing FTC's brief). The FTC's newly minted litigation position that it can further lower the bar for its claim by dropping that element finds no support in any case law. *See Siemens*, 621 F.2d at 509; *Black & Decker*, 430 F. Supp. at 743 n.23. Not even *Steris* which assumed *arguendo* that the FTC's standard would apply allowed that an actual potential competition claim could succeed without showing "there are few other firms that can enter effectively." 133 F. Supp. 3d at 966.
- 404. And, indeed, the evidence establishes that many firms *could* enter and at least as effectively as Meta, if not more so. *See supra* ¶¶ 94-104. The same objective factors that the FTC identifies as evidence that Meta could enter such as access to capital and engineering resources,

and an incentive to succeed in VR/AR – are common to many firms, including every tiny startup to make a VR fitness app. See supra ¶¶ 262, 264. And Meta's status as a platform owner makes it no better positioned to enter than

. See supra $\P\P$ 95-

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. See supra ¶¶ 95-99. The FTC's expert confirmed that several large technology firms — each with vast resources, fitness experience (or even existing VR fitness products), or access to a VR platform (sometimes all three) — could build a VR fitness app. See supra ¶ 103.

C. The "Perceived Potential Competition" Theory Fails for Additional Reasons

- 405. The perceived potential competition theory fails because there is no evidence that "VR dedicated fitness" apps refrained from any "oligopolistic behavior" or other anticompetitive conduct because of the perception of Meta's potential entry. *Marine Bancorporation*, 418 U.S. at 624-25; *see Tenneco*, 689 F.2d at 355; *cf. Black & Decker*, 430 F. Supp. at 772-73 (rejecting potential competition claim because "the absence of any actual market response" to the potential entrant "tends to corroborate" the potential entrant's lack of "expertise" in the target market).
- 406. The Supreme Court was clear that this is a required element (stated in a conjunctive series) for a perceived potential competition claim: "In developing and applying the doctrine, the Court has recognized that a market extension merger may be unlawful if the target market is substantially concentrated, if the acquiring firm has the characteristics, capabilities, and economic incentive to render it a perceived potential de novo entrant, *and* if the acquiring firm's premerger presence on the fringe of the target market *in fact* tempered oligopolistic behavior on the part of existing participants in that market." *Marine Bancorporation*, 418 U.S. at 624-25 (emphases added). The FTC has not made that required showing here.
- 407. *First*, the FTC presented no evidence that existing or forthcoming "VR dedicated fitness" apps perceive Meta as a potential entrant. *See Ginsburg*, 649 F. Supp. 2d at 947 (dismissing perceived potential competition claim). *Every* in-market "VR dedicated fitness" app witness explained that it did not perceive Meta to be a likely entrant and that any possible entry by

Meta had no effect on conduct, pricing, output, or innovation. See supra ¶¶ 250-254, 259. That reflects Meta's limited experience developing its own first-party VR apps, its difficulties in doing so, and its dearth of fitness expertise. See supra ¶¶ 260-262. This uncontradicted testimony from market participants, including Within, is dispositive. See Siemens, 621 F.2d at 509 (crediting market participant's testimony that acquirer's "possible entry never had any impact upon any pricing or marketing decision"); see also B.A.T. Indus., 1984 WL 565384, at *5 n.13 ("In perceived potential competition cases, courts have . . . relied upon the perceptions of incumbent firms to determine whether or not a potential entrant constraints incumbent behavior."). This evidence is also in accord with the documents on which the FTC relies – Within feared many competitive "threats" on-VR and off-VR (see supra ¶¶ 256-258) and foresaw that "other competitors" might "enter the market" (see supra ¶ 257), not Meta alone (or at all, see supra ¶ 259).

fitness" apps perceive Meta as a *uniquely* likely entrant – i.e., that it was the one firm at the edge of the "VR dedicated fitness" market without which existing participants will *in fact* engage in anticompetitive conduct. *See Siemens*, 621 F.2d at 509 ("Usually this is proved by evidence that the actual or perceived potential entrant is one of but a few likely entrants."); *Atl. Richfield*, 549 F.2d at 300 (similar); *Black & Decker*, 430 F. Supp. at 743 n.23 ("For the perceived potential entrant to enhance competitive possibilities, it must be part of a small group, since if a large group of potential entrants exists, the loss of one will be insignificant."). Current and future "VR dedicated fitness" apps monitor potential entry or expansion from many firms, including scores of other VR apps, as well as potential entry from off-VR fitness and technology firms. *See supra* ¶ 82, 94. That fear appears well-founded, as several of these firms have plans to enter, have at least considered entry, or have actually entered. *See supra* ¶ 95-102. And the FTC expert admitted that many large technology companies – including several with established fitness brands – could build VR fitness apps, a perception that market participants surely share with the FTC's economist. *See supra* ¶ 103.

D. The FTC Is Not Likely To Prove Harm to Consumers

409. The FTC has not shown a likelihood of success in proving, as it must, that the transaction is reasonably likely to harm competition and thereby consumers. *See supra* ¶¶ 338-340.

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For the reasons above, the Court has no basis to conclude that there is in fact a VR dedicated fitness market, that such a market is oligopolistic (or even concentrated), that Meta would in fact enter that market without the transaction, or that existing firms in this market altered their behavior in any way for fear of Meta entry. To the contrary, the evidence is that there is vibrant entry from small firms that perceive many competitive threats, spurring them to innovate, diversify prices and pricing models, and maximize the output of "VR dedicated fitness." There is, accordingly, no likelihood that allowing Meta and Within to close the transaction will make this already-competitive space less competitive. See supra ¶¶ 306-331.

- 410. Nor is there persuasive evidence that Meta would increase Supernatural's price if the acquisition is completed. See supra ¶ 315-317. The empirical, economic, and witness evidence is all the exact opposite – Meta is more likely to maintain (or cut) Supernatural's price, expand output, and enable Within to improve quality as part of the effort to attract more people to Quest and to VR generally. See supra ¶ 317. That is what Meta has done with past acquisitions, e.g., scaling Beat Saber, making it available to consumers on VR platforms off the Quest, and even making the app available for free for a time – all while allowing the Beat Games studio to innovate as it deems best. See supra ¶ 315-316. That reflects Meta's overriding incentive to increase the output and quality of VR apps generally, including by improving the Quest platform for fitness by sharing with third parties the innovations that Meta and Within can develop together. See supra ¶ 317.
- Meta's incentive, strategy, and executed plan which it followed as to third-party VR video games even after acquiring Beat Saber – is to grow the VR ecosystem by lowering app prices and increasing high-quality app content. See supra ¶¶ 298-299, 303, 319-321. The notion that Meta would try to recoup its investment in Within (to say nothing of its multibillion-dollar investment in VR generally) by increasing the price of Supernatural for its approximately subscribers by \$1 or \$2 a month does not "make economic sense." Adaptive Power Sols., 141 F.3d at 952.
- 412. The record also belies the notion that Meta might "foreclose" access to a critical
- input by withholding Supernatural from other VR platforms. Meta's economic incentive is to grow Supernatural by making it available to as many consumers as possible. See supra ¶¶ 323, 327. And

historically Meta has not limited its acquired apps to the Quest platform but instead has done the exact opposite with Beat Saber, its most successful VR app to date. *See supra* ¶¶ 324-326. There also is no evidence that Supernatural specifically is a critical input, necessary to the success of any VR/AR platforms such that simply cannot survive without it. *See PSKS, Inc. v. Leegin Creative Leather Prods., Inc.*, 615 F.3d 412, 418 (5th Cir. 2010) (rejecting vertical claim where market definition failed and there was "no structural barrier to the interchangeability of [purportedly foreclosed] products with goods produced by competing manufacturers"). Instead there are many VR fitness apps with constant new entry and many other firms capable of building VR fitness apps per the FTC's objective criteria. *See supra* ¶¶ 90-105.

VR/AR platforms, not other "VR dedicated fitness" apps. An antitrust plaintiff must prove harm in the market alleged – here, "VR dedicated fitness" apps – and not some other market (e.g., for VR/AR platforms). See Times-Picayune Publ'g Co. v. United States, 345 U.S. 594, 610 (1953); see also Ohio v. Am. Express Co., 138 S. Ct. 2274, 2284 (2018). Moreover, the FTC never pleaded a claim based on vertical foreclosure. And as a matter of law the FTC cannot prevail on unpleaded legal theories. See La Asociacion de Trabajadores de Lake Forest v. City of Lake Forest, 624 F.3d 1083, 1089 (9th Cir. 2010); Challenge Printing Co. v. Elecs. for Imaging Inc., 2022 WL 4472065, at *6 (N.D. Cal. Sept. 26, 2022) (Davila, J.).

III. The Equities Disfavor Preliminary Injunctive Relief

- 414. The FTC also has not proven, as Section 13(b) requires at this stage, that the equities favor a preliminary injunction halting the transaction. See supra \P 336.
- 415. The Court considers both the public interest and the parties' private interests. *See supra* ¶ 336. Here, both equitable considerations disfavor a preliminary injunction because it would kill the transaction. *See supra* ¶ 12; *see also Arch Coal*, 329 F. Supp. 2d at 159-60 (denying Section 13(b) preliminary injunction after crediting testimony that the companies would "abandon the transaction" during the pendency of administrative proceedings). That makes the relief the FTC seeks particularly dramatic and the equities weighing against it particularly significant. *See FTC*

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v. Great Lakes Chem. Corp., 528 F. Supp. 84, 99 (N.D. Ill. 1981) ("the usual rule that a preliminary injunction is an extraordinary and drastic remedy is particularly true in the acquisition and merger context" because the "'preliminary' relief sought by the FTC would doom this transaction"); FTC v. Exxon Corp., 636 F.2d 1336, 1343 (D.C. Cir. 1980) (similar).

First, the public equities – which "include improved quality, lower prices, increased efficiency, [and] realization of economies of scale" – disfavor killing a pro-competitive transaction. Lab. Corp., 2011 WL 3100372, at *22; see also Warner, 742 F.2d at 1165 (recognizing public's interest in "beneficial economic effects and pro-competitive advantages"). An injunction would impede the development and sharing of improvements in VR technology and the Quest platform to the detriment of other VR fitness apps (none of whom testified against the transaction) and VR consumers. See supra ¶¶ 287-288, 297. It also would set back VR investment – deterring venture capital funding if the possibility of an exit by Meta acquisition (or any other large technology company that "could" build on its own) is off the table – again to the detriment of all VR developers and consumers (and potentially even the broader startup economy beyond VR/AR). See supra ¶¶ 300-302. Blocking this acquisition could call into question the ability of not just Meta but many other firms to engage in a common form of pro-competitive acquisition to the benefit of competition. See also United States v. AT&T Inc., 310 F. Supp. 3d 161, 193 (D.D.C. 2018) ("[C]omplicating the Government's challenge is the recognition among academics, courts, and antitrust enforcement authorities alike that many vertical mergers create vertical integration efficiencies between purchasers and sellers."), aff'd, 916 F.3d 1029 (D.C. Cir. 2019).

417. Second, the parties' private interests strongly weigh against preliminary injunctive relief. See FTC v. Evans Prods. Co., 775 F.2d 1084, 1089 (9th Cir. 1985) (denying injunction given defendant's "precarious financial position," which is an equitable consideration without a "failing firm" defense); FTC v. Simeon Mgmt. Corp., 532 F.2d 708, 717 (9th Cir. 1976) (Kennedy, J.) (similar); Lab. Corp., 2011 WL 3100372, at *23 (same, stating this "is also an important equitable consideration" – not a "failing firm" defense); see also FTC v. Freeman Hosp., 911 F. Supp. 1213, 1227-28 (W.D. Mo.) (similar), aff'd, 69 F.3d 260 (8th Cir. 1995). Halting the acquisition for an administrative proceeding will kill it. See supra ¶ 12.

See supra ¶¶ 13-

14, 72, 305-306. Meta will be at risk of falling behind VR rivals – as many are considering VR fitness – losing unrecoverable time to dynamic competition. *See supra* ¶¶ 95-102. These considerations are particularly acute given that VR is a dynamic, novel, and emerging technology. *See FTC v. Qualcomm Inc.*, 969 F.3d 974, 990-91 (9th Cir. 2020); *cf. United States v. Bazaarvoice, Inc.*, 2014 WL 203966, at *76 (N.D. Cal. Jan. 8, 2014) (declining "to weigh in on this debate").

418. Against these equitable considerations, the FTC has only posited that it "may" be difficult to unwind the acquisition after an administrative proceeding. But the FTC adduced zero evidence at trial – and cited to none in any of its pre-trial submissions – that "unscrambling the egg" is a concern here. The evidence is instead that Meta will hold Within as one of several independent studios granted decision-making autonomy and creative control. *See supra* ¶¶ 198-200. Without some evidence, and the FTC has provided nothing, the Court cannot say that this is a case where the two parties might become so intertwined as to make a separation difficult, let alone impracticable or impossible, after an administrative proceeding. *See Lab. Corp.*, 2011 WL 3100372, at *23; *Occidental Petroleum*, 1986 WL 952, at *16; *Great Lakes*, 528 F. Supp. at 87, 98.

CONCLUSION

The FTC asks this Court to be the first (ever) to invoke potential competition as a basis for enjoining a transaction under Section 13(b). To do so, the Court would need to be the first (ever) to reach the following holdings: (1) potential competition applies to a concededly non-oligopolistic market despite *Marine Bancorporation*; (2) the standard for actual potential competition is "reasonable probability" of entry *and* that standard does not require evidence of any formal plan, approval, budget, a single concrete step toward implementation, or proof that the acquirer is one of only a few possible entrants; and (3) a perceived potential competition claim can survive absent any testimony or document proving that a single in-market participant perceived the acquirer as a uniquely likely potential entrant. And even after all that, the Court would need to credit a survey marred by implausible and fake responses to define the relevant antitrust market. The FTC asks the Court to break too much new legal ground and overlook too many factual infirmities.

The Court DENIES the preliminary injunction.

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