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9		DISTRICT COURT CT OF CALIFORNIA
10		DIVISION
11		
12	FEDERAL TRADE COMMISSION,	
13	Plaintiff,	Case No. 5:22-cv-04325-EJD
14	V.	PLAINTIFF FEDERAL TRADE
15	META PLATFORMS, INC., et al.	COMMISSION'S POST-HEARING PROPOSED FINDINGS OF FACT AND
16	Defendants.	CONCLUSIONS OF LAW
		FILED UNDER SEAL
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28	PLAINTIFF'S POST-HEARING PROPOSED FINDINGS	S OF FACT AND CONC. OF LAW
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PLAINTIFF FEDERAL TRADE COMMISSION'S PROPOSED FINDINGS OF FACT

A. The Parties and the Proposed Acquisition

- 1. Through an Agreement and Plan of Merger dated October 22, 2021, Meta Platforms, Inc. ("Meta") proposes to acquire Within Unlimited, Inc. ("Within") (the "Acquisition"), for approximately PX6 (Agreement and Plan of Merger) at 1, 100.
- 2. Defendant Meta, formerly known as Facebook, is a publicly traded company organized under the laws of Delaware with headquarters in Menlo Park, California. PX6 (Agreement and Plan of Merger) at 1, 161.
- 3. Meta is one of the largest technology companies in the world, with profits exceeding \$46 billion in 2021. PX937 (Meta 2021 Form 10-K) at 51.
- 4. Meta's "Family of Apps"—Facebook, Instagram, Messenger, and WhatsApp—claim nearly 3.6 billion "monthly active people." PX937 (Meta 2021 Form 10-K) at 50.
- 5. Meta also develops and commercializes virtual reality ("VR") and other metaverse products in its Reality Labs division. Stojsavljevic (Meta) Hr'g Tr. at 71:2-13; Zuckerberg (Meta) Hr'g Tr. at 1278:23-1279:1.
- 6. Defendant Within is a privately held virtual reality company organized under the laws of Delaware with headquarters—and its principal business—in Los Angeles, California.

 PX6 (Agreement and Plan of Merger) at 1, 161.
- 7. Within's flagship product is Supernatural, a VR dedicated fitness application ("app") that offers over 800 fully immersive, trainer-led workouts set to music in various virtual settings from the Galapagos Islands to the Great Wall of China. Dkt. No. 83 (Defendant Within Unlimited, Inc.'s Answer and Affirmative Defenses) ¶ 25.
- 8. Within began development of Supernatural in and released the product in the Oculus store in April 2020. PX5 at 77; Milk (Within) Hr'g Tr. at 679:22-680:6.
 - B. Virtual Reality Technology and the "Metaverse"
 - 9. VR technology allows users to put on a VR headset, such as Meta's market-

leading Quest 2, and enter an immersive digital experience. E.g., Zuckerberg (Meta) Hr'g Tr. at

platforms.").

10. Relative to other digital devices, "the primary differentiator of VR is immersion, what we call feeling like you're teleported to a different place, feeling like when you move your head and look around, you're in a new space and seeing virtual things as if they are real, which

is virtual reality." Rabkin (Meta) Hr'g Tr. at 835:15-836:4.

1299:12-16 ("[W]hat the metaverse and AR/VR enable are the sense of immersion and

embodiment and physicality that I think is somewhat different from other computing

- 11. Users typically engage with the VR experience through a headset that displays a stereoscopic image in front of each eye to place a user in a digitally captured and reproduced or fully rendered, three-dimensional environment. Stojsavljevic (Meta) Hr'g Tr. at 72:25-73:16.
- 12. On current-generation VR headsets, users can look and even move around in that three-dimensional space, which is often referred to as "Six-Degrees of Freedom" or "6DOF." *Id.* at 73:17-74:3.
- 13. Cutting-edge VR technology creates an immersive digital experience that enables users to instantly be transported anywhere in the world, backward or forward in time, into outer space or fictional lands—all from the comfort and safety of their own homes. *Id.* at 74:4-6; Milk (Within) Hr'g Tr. at 678:6-679:7.
- 14. Unlike a game, video, or app on a tablet, phone, or monitor, the three-dimensional VR environment creates the perception of completely surrounding the user, enabling the user to feel "immersed" in the projected space. *E.g.*, Stojsavljevic (Meta) Hr'g Tr. at 74:7-9; Rabkin (Meta) Hr'g Tr. at 835:15:836-3; PX314 (Meta) at 1; PX713 (Within) at 25, 41; DX1226 (Payne (Alphabet) Dep.) at 124:11-125:179:12-130:1.
- 15. As Meta's founder, CEO, Chairman, and controlling shareholder Mark Zuckerberg has explained, "you're right there with another person or in another place and that's very different from every experience of technology that we've had before." Zuckerberg (Meta) Hr'g Tr. at 1269:9-12; PX931 at 4; *accord* PX54 (Bosworth (Meta) Dep.) at 50:7-13 ("

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- 16. VR users interact with content, or applications ("apps"), on their headsets to engage in VR experiences. *E.g.*, Stojsavljevic (Meta) Hr'g Tr. at 74:23-75:3.
- 17. Users can download apps from app stores like the Meta Quest Store, which connect VR app developers and users in an online marketplace through which developers can offer their products to users for download onto their individual VR devices. Stojsavljevic (Meta) Hr'g Tr. at 79:16-22; Pruett (Meta) Hr'g Tr. at 219:19-254; PX55 (Verdu (Meta) Dep.) at 51:17-22.
- 18. Meta's Reality Labs division develops and commercializes software, including apps, for Meta's virtual reality headsets. Stojsavljevic (Meta) Hr'g Tr. at 71:2-13.
- 19. App availability and prices on the Quest Store can and do vary by country, as Quest headsets have a dynamic region lock that tracks a user's geolocation and may block content in certain regions. *Id.* at 79:23-80:6 (content can be "region locked" or "geo locked"); PX969 at 1-2.
- 20. VR is a major technology for the "metaverse," which generally refers to the idea of persistent, connected online virtual worlds. Zuckerberg (Meta) Hr'g Tr. at 1292:1-4; PX54 (Bosworth (Meta) Dep.) at 49:21-54:25.

C. Mr. Zuckerberg Decided Facebook's Future Is the Metaverse and Has Committed Tens of Billions of Dollars to His Vision

- 21. Although best known for its "Family of Apps," Meta in recent years has committed substantial resources and billions of dollars to its metaverse business. PX559 (Meta) at 1; Zuckerberg (Meta) Hr'g Tr. at 1280:2-6, 9-18, 1282:12-15.
- 22. Meta has pursued this course because Mr. Zuckerberg believes that the metaverse will be the "next major computing platform," like personal desktops and mobile

1	phones before it. Zuckerberg (Meta) Hr'g Tr. at 1269	9:22-25; PX559 (Meta) at 1-2; PX181
2	2 (Meta) at 5 ("We're here to make virtual reality the n	ext major computing platform"); PX374
3	3 (Meta) at 1 ("	"); PX50 (Zuckerberg (Meta) Dep.) a
4	4 22:11-24, 59:8-60:6.	
5	5 23. On October 28, 2021, Facebook chang	ged its name to Meta Platforms, Inc., to
6	6 reflect this vision and priority. Zuckerberg (Meta) Hi	e'g Tr. at 1268:1-7; PX951 (Meta) at 1, 4;
7	7 see also PX50 (Zuckerberg (Meta) Dep.) at 66:25-67	:10-13 ("
8	8	
9	9 .").	
10	0 24. The company's rebranding came with	the stated goal "to bring the metaverse to
11	1 life" by "moving beyond 2D screens toward immersi	ve experiences like augmented and virtual
12	2 reality to help build the next evolution in social techn	nology." PX932 (Meta) at 1, 3; Zuckerberg
13	3 (Meta) Hr'g Tr. at 1268:15-17.	
14	4 25. VR is the primary technology in which	h Meta has invested to build the metaverse
15	5 PX168 (Meta) at 1, 4; PX205 (Meta) at 1; PX412 (M	feta) at 1.
16	6 Meta's foray into VR began in 2014,	when it (then Facebook) acquired headset-
17	7 manufacturer Oculus VR, Inc., "the leader in immers	ive virtual reality technology," for
18	8 approximately \$2 billion. PX928 (Meta) at 1; Zucker	berg (Meta) Hr'g Tr. at 1276:21-1277:8.
19	9 27. Since then, Meta has focused its future	e on the potential of VR, and "continued to
20	invest, and invest heavily in VR and AR." Zuckerber	rg (Meta) Hr'g Tr. at 1278:12-14.
21	21 28. With the company's name change in C	October 2021, Mr. Zuckerberg declared that
22	"all of our products, including our apps, now share a	new vision: to help bring the metaverse to
23	life." PX951 (Meta) at 4.	
24	24 29. As Meta employees noted when Mr. 2	Zuckerberg decided to commit the
25	company's future to the metaverse: "Massive wheels	are turning and resources are flowing. The
26	effort will be made." PX120 (Meta) at 2.	
27	30. From 2020 through September 2022,	Meta spent over \$31 billion on Reality

1	Labs. PX937	(Meta 2021 Form 10-K) at 51; PX975 (Meta Q3 2022 Form 10-Q) at 31.
2	31.	Meta spent more than \$10 billion dollars on Reality Labs in 2021 and
3		. PX937 (Meta 2021 Form 10-K) at
4	51; PX975 (N	Meta Q3 2022 Form 10-Q) at 31 (showing that Meta is on course to spend \$14.5
5	billion in 202	(2); Zuckerberg (Meta) Hr'g Tr. at 1280:14-16, 1283:18-22.
6	32.	Meta boasts more than 10,000 developers in its Reality Labs Division as of
7	October 2022	2—up from just 50 in 2014. Carmack (Meta) Hr'g Tr. at 553:11-16; see also PX54
8	(Bosworth (N	Meta) Dep.) at 27:8-11 (number of engineers in Reality Labs in the thousands);
9	PX710 at 2 (
10).
11	33.	In 2021, the same year as Meta announced the Acquisition, Mr. Zuckerberg
12	made the dec	ision
13		
14		. Zuckerberg (Meta) Hr'g Tr. at 1283:18-1284:21.
15	34.	As Mr. Zuckerberg explained, "no matter how long it takes for VR to become a
16	big thing, [M	eta] can keep on funding [developers] as along as our business does reasonably
17	. [W]e can no	ow, you know, support those teams in building out multi-year things, but which
18	is somewhat	unique in the space." Zuckerberg (Meta) Hr'g Tr. at 1328:20-25, 1330:15-17.
19	D.	Meta Is Already Well on Its Way to Its Dominating This "Next Major
20		Computing Platform"
21	35.	The Quest 2 is the "dominant" platform in the United States today, with the
22	largest install	ed base of users. Janszen (VirZoom) Hr'g Tr. at 1152:4-8; see also Garcia (Odders
23	Lab) Hr'g Tr	. at 1100:20-1101:3 (testifying that
24).
25	36.	In 2020, Meta's VR headset sales accounted for of all VR
26	headsets sold	worldwide. PX109 (Meta) at 13.
27	37.	In 2021, that percentage surged, with Meta's headsets accounting for
28		
		Post-Hearing Proposed Findings of Fact and Conc. of Law 22-CV-04325-EJD 5

1	approximately . DX1230 (Carlton (Defendants' Expert) Rep.) at ¶ 36, Table 2
2	VR devices were sold in 2021), ¶ 37 n.41 (Meta sold VR devices in
3	2021).
4	38. For worldwide sales of VR and AR devices in 2021, Meta's devices accounted
5	for 78% of the market's revenues. PX15 (Singer Rep.) ¶ 21, see also Singer (FTC Expert) Hr'g
6	Tr. at 332:24-333:2 ("according to IDC, they have 80 percent of worldwide VR headsets, 80
7	percent market share").
8	39. When not on sale, the Quest 2 headset retails for \$399. Stojsavljevic (Meta) Hr'ş
9	Tr. at 77:2-5.
10	40. As of December 2022, the Quest 2 was on sale for approximately \$350. <i>Id.</i> at
11	77:2-3.
12	41. The \$399 price point reflects a \$100 price increase that Meta implemented in
13	August of 2022. Singer (FTC Expert) Hr'g Tr. at 333:4-6; Carlton (Defendants' Expert) Hr'g
14	Tr. at 1467:17-22.
15	42. Unlike earlier Meta headsets that had to be tethered to a personal computer,
16	Quest headsets can operate "standalone," Stojsavljevic (Meta) Hr'g Tr. at 75:10-25; the Quest 2
17	and Quest Pro can be used in tethered mode with a PC, but they do not need to be. Id. at 93:14-
18	15.
19	43.
20	Garcia (Odders Lab) Hr'g Tr. at 1100:4-18.
21	44. Content can be designed in a way to highlight the unique features of non-tethere
22	headsets, such as by requiring or allowing users to spin around in a way that would cause a user
23	of a tethered headset to become tangled in the cord. Stojsavljevic (Meta) Hr'g Tr. at 101:21-
24	102:10.
25	45. A tethered headset
26	. PX818 (Sony) at 11 (
27	
28	

PLAINTIFF'S POST-HEARING PROPOSED FINDINGS OF FACT AND CONC. OF LAW

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); DX1224 (Wyss (Sony) Dep.) at 88:10-15, 92:5-15 ("
16	.").
46.	In fact, VirZoom stopped working with all other platforms except Meta's based
-	tions that Meta would become dominant, which proved to be an accurate
	nszen (VirZoom) Hr'g Tr. at 1123:11-1124:1-2, 1151:22-1152:8, 1166:15-23.
47.	
	. PX818 (Sony) at 11 (
	"); DX1224 (Wyss (Sony) Dep.) at 88:10-15.
48.	The PlayStation VR must be tethered to a PlayStation 4 console; the PlayStation
R 2, which	has not yet been released, will need to be tethered to a PlayStation 5. Stojsavljevic
Meta) Hr'g 7	Fr. at 78:14-25.
49.	In addition to being untethered, Meta's Quest devices also differ from other VR
eadsets in th	at they are far less expensive:
a.	Sony's PlayStation VR2 headset, as yet unreleased,
	. DX1224 (Wyss (Sony) Dep.) at 82:19-83:02, 84:14-
	85:14.
b.	Valve's Index headset is
	, not including the cost of the required personal computer. DX1229 (Cain
	(Valve) Dep.) at 81:4-18. Moreover, Valve has
	<i>Id.</i> at 27:3-9, 80:1-10; see also Garcia (Odders Lab) Hr'g Tr. at
	<i>Id.</i> at 27:3-9, 80:1-10; <i>see also</i> Garcia (Odders Lab) Hr'g Tr. at 1092:23-1093:10 (testifying that HTC has not released the new headset and that

1		being more expensive than the Quest 2).
2	50.	Although certain major companies have plans to develop, or have developed, a
3	virtual reality	or augmented reality device, those products are not currently available in the
4	United States:	
5	a.	ByteDance does not sell its Pico headset in the United States. Garcia (Odders
6		Lab) Hr'g Tr. at 1093:141-16; Pruett (Meta) Hr'g Tr. at 272:10-14. It has
7		
8		, and
9		. DX1221 (Choate (ByteDance)
10		Dep.) at 10:9-14, 24:11-18, 93:8-11.
11	b.	Apple has yet to market any VR headset. PX55 (Verdu (Meta) Dep.) at 243:12-
12		18; Milk (Within) Hr'g. Tr. at 762:3-4.
13		
14		. PX74 (Casanova (Apple) Dep.) at 123:14-124:6.
15	c.	Alphabet
16		. DX1226 (Payne
17		(Alphabet) Dep.) at 12:7-22, 13:4-19, 14:2-17, 15:17-19, 18:17-19, 19:3-12.
18		There is
19		. Id. at 26:5-10, 28:2-
20		15.
21	51.	Meta subsidizes its VR headsets or sells them at cost in order to attract users.
22	Bosworth (Me	eta) Hr'g Tr. at 1016:7-9 ("On one side you have consumers, and we want more of
23	them, so we're	e willing to subsidize their presence by reducing the cost that they have to pay for
24	a device"); PX	X951 (Meta) at 3.
25	52.	In part because of the absence of meaningful headset competition in the United
26	States, Meta ra	aised the price of its two-year-old Quest 2 headsets by \$100 in 2022. Singer (FTC
27	Expert) Hr'g	Γr. at 333:4-6.
28		
	PLAINTIFF'S P	OST-HEARING PROPOSED FINDINGS OF FACT AND CONC. OF LAW

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	1	
1	Meta Platforn	ns, Inc.'s Answer and Affirmative Defenses) ¶ 33; Stojsavljevic (Meta) Hr'g Tr. at
2	86:17-19 (refe	erencing PX315), 87:11-13; PX315 at 004 (showing that Beat Saber is
3		on Meta's VR platforms with approximately in lifetime
4	revenue; next	highest earning app had approximately in lifetime revenue).
5	61.	Beat Saber alone brings in more revenue than the next five highest-grossing apps
6	combined. Dk	ct. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶
7	4.	
8	62.	Meta acquired Beat Saber by purchasing Beat Games studios in late 2019. Dkt.
9	No. 84 (Defer	ndant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 4.
10	63.	Meta executives have described Beat Saber as a "must own/must play title."
11	PX55 (Verdu	(Meta) Dep.) at 55:2-16; PX342 (Meta) at 4.
12	64.	Meta owns three of the top five applications by lifetime revenue as of March
13	2022. Stojsav	ljevic (Meta) Hr'g Tr. at 87:7-10; PX315 at 004 (
14).
15	65.	In the past three years, Meta has purchased at least nine VR app studios with
16	track records	of building VR apps from scratch (Stojsavljevic (Meta) Hr'g Tr. at 87:5-88:2),
17	including clos	sing three additional VR studio acquisitions after announcing its proposed
18	acquisition of	Within:
19	a.	In November 2019, Meta acquired Beat Games, maker of Beat Saber. PX4 at 172
20		(incorporating PX505); Dkt. No. 84 (Defendant Meta Platform, Inc.'s Answer
21		and Affirmative Defenses) ¶ 33. Beat Games continues to release new
22		functionality and song packs for Beat Saber. Stojsavljevic (Meta) Hr'g Tr. at
23		88:9-15.
24	b.	In January 2020, Meta acquired Sanzaru Games, maker of the fantasy Viking
25		combat game Asgard's Wrath. PX4 at 172 (incorporating PX505); Dkt. No. 84
26		(Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 34;
27		Stojsavljevic (Meta) Hr'g Tr. at 93:7-9. Sanzaru is currently working on

. Id. at 93:16-20, PX555 (Meta) at 2.

- c. In May 2020, Meta acquired Ready at Dawn Studios, maker of Lone Echo II, a zero-gravity adventure game, and Echo VR, an online team-based e-sports game (PX4 at 118 n. 227, 119 n. 231; Dkt. No. 84 (Defendant Meta Platform, Inc.'s Answer and Affirmative Defenses) ¶ 34); Stojsavljevic (Meta) Hr'g Tr. at 89:10-17. Lone Echo II and Echo VR were both released *after* Ready at Dawn was acquired by Meta. PX4 (Meta) at 118, 119; Stojsavljevic (Meta) Hr'g Tr. at 89:23-90:1. The Ready at Dawn Team shifted from working on a and a to a new product Stojsavljevic (Meta) Hr'g Tr. at 92:9-11, 92:18-93:3; PX52 Stojsavljevic (Meta) Deposition at 44:13-16, 46:2-7.
- d. In April 2021, Meta acquired Downpour Interactive, maker of Onward, a teambased tactical military first-person shooter. PX4 at 172 (incorporating PX505); Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 34; Stojsavljevic (Meta) Hr'g Tr. at 89:4-6. The Downpour team continues to develop new content for Onward. *Id.* at 89:7-9.
- e. In May 2021, Meta acquired BigBox VR, maker of Population One, a multiplayer first-person battle royale shooter. PX4 at 172 (incorporating PX505); Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 34; Bosworth (Meta) Hr'g Tr. at 1054:17-19; Stojsavljevic (Meta) Hr'g Tr. at 88:19-21. Big Box VR continues to develop new content for Population One. Stojsavljevic (Meta) Hr'g Tr. at 88:22-24.
- f. In June 2021, Meta acquired Unit 2 Games, the maker of Crayta, a collaborative platform that allows users to create and play their own games. PX4 at 172 (incorporating PX505); Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 34. Unit 2 Games works on building Meta's Horizon applications. Stojsavljevic (Meta) Hr'g Tr. at 80:25-81:7.

- g. In November 2021, Meta acquired Twisted Pixel, a studio that makes various games, including Path of the Warrior (a fighting game), B-Team (a first-person shooter), and Wilson's Heart (a mystery noir thriller game). PX4 at 172 (incorporating PX505); Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 34; Bosworth (Meta) Hr'g Tr. at 1055:3-4. Twisted Pixel is working on a VR game based on

 Stojsavljevic (Meta) Hr'g Tr. at 93:22-94:3; PX555 (Meta) at 3.
- h. In the second quarter of 2022, Meta acquired Armature Studio, a studio that codevelops VR apps with other studios, a skill set that is "unique" and "very rare." Stojsavljevic (Meta) Hr'g Tr. at 124:23-125:18; PX52 (Stojsavljevic (Meta) Dep.) at 55:7-13, 136:24-137:23; PX17 (Meta Responses and Objections to FTC Interrogatory No. 1) at 8. Armature ported the console game Resident Evil 4 to VR; it has also developed a fencing prototype that Meta has shown publicly. Stojsavljevic (Meta) Hr'g Tr. at 95:13-18. Armature is currently assisting Sanzaru with in addition to a non-public project based on licensed IP. *Id.* at 96:8-10, 15-19. Meta could assign the Armature team to other VR app development projects. *Id.* at 96:15-19.
- i. In September 2022, Meta acquired Camouflaj and its sister studio Darkwind Media, which are currently developing a VR app for Quest and recently released Ironman VR on Quest. Stojsavljevic (Meta) Hr'g Tr. at 81:13-16, 94:18-20; PX555 at 003; PX17 (Meta Responses and Objections to FTC Interrogatory No. 1) at 10; Bosworth (Meta) Hr'g Tr. at 1055:5-6.
- 66. Meta has also successfully developed its own apps. Carmack (Meta) Hr'g Tr. at 556:17-559:8; Zuckerberg (Meta) Hr'g Tr. at 1285:15-17; Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 35.
 - 67. These apps include:
 - a. Horizon Worlds, a massively multiplayer online game that allows users to build,

- share, and interact in virtual worlds. Stojsavljevic (Meta) Hr'g Tr. at 83:9-15; Bosworth (Meta) Hr'g Tr. at 1051:9-11; Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 35.
- b. Horizon Workrooms, a productivity app that lets teams of people share their computer screens, collaborate on virtual whiteboards, and more. Stojsavljevic (Meta) Hr'g Tr. at 83:-22; Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 35; Bosworth (Meta) Hr'g Tr. at 1052:7-9.
- c. Horizon Venues, a live-events app that lets users experience concerts, sporting events, and more. Stojsavljevic (Meta) Hr'g Tr. at 83:9-19; Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 35.
- d. Horizon Home, a social-space app that lets users hang out with their friends, watch videos together, and join multiplayer VR games together. Dkt. No. 84 (Defendant Meta Platforms, Inc.'s Answer and Affirmative Defenses) ¶ 35.
- e. Dead and Buried, a multiplayer shooter game for the Oculus Rift and Go devices, and Dead and Buried II, developed for the Quest and Quest 2 devices.
 Carmack (Meta) Hr'g Tr. at 557:9-12; Bosworth (Meta) Hr'g Tr. at 1051:18-20.
- f. Oculus TV, an app that plays immersive 360-degree and 180-degree VR media. Carmack (Meta) Hr'g Tr. at 557:5-6.
- 68. Meta's first-party studios have developed and continue to develop multiple apps for Meta's VR platform, with some of the acquired studios focused on developing new applications, and others working on providing a regular flow of updated content for existing applications. Bosworth (Meta) Hr'g Tr. at 1051:21-24; Stojsavljevic (Meta) Hr'g Tr. at 88:3-8; PX52 (Stojsavljevic (Meta) Dep.) at 43:4-22, *supra* at ¶ 65.
- 69. Meta has also developed "shells," which are a wrapper program for any platform or game and the "first application that you see when you put on" a headset. Carmack (Meta) Hr'g Tr. at 547:10-548:20; PX55 (Verdu (Meta) Dep.) at 85:25-86:19.
 - 70. In addition to its first-party studios, Meta also boasts a Developer Relations

1		. PX66 (Rubin (Meta) Dep.) a
2	92:9-13, 93:3	3-12; see also Bosworth (Meta) Hr'g Tr. at 992:24-993:12 (noting that Meta is
3		irst party social" app called Horizon that competes with third party social spaces
4	"Rec Room"	and "VR Chat.").
5	78.	In fact, Meta
6	. Zuck	erberg (Meta) Hr'g Tr. at 1288:2-13.
7	79.	According to Mr. Zuckerberg, Facebook "was and still is generally a very strong
8	software con	npany." Zuckerberg Hr'g Tr. at 1276:10-12.
9	80.	66
10		." Zuckerberg (Meta) Hr'g Tr. at
11	1285:18-21.	
12	81.	Meta's first-party studios group is continuing to develop original content that
13	will compete	with third parties across a number of genres. See supra Findings of Fact ¶ 65.
14	82.	Meta has created multiple VR video apps, despite the presence of third-party
15	developers w	with competing products, including Within. See PX4 (Meta) at 117-18 (listing
16	"Oculus TV"	'and "Oculus Video" among Meta's first-party software services); Carmack (Meta
17	Hr'g Tr. at 5	57:3-6 ("Meta built 360 Videos"); Koblin (Within) Hr'g Tr. at 604:2-5 (Within has
18	a "360 video	player" in addition to Supernatural).
19	F.	Meta Has Long Recognized That Content Drives VR Adoption
20	83.	As mentioned above, Meta's "goal is to create a new type, a new age of
21	computing d	evice." Rabkin (Meta) Hr'g Tr. at 801:14-15; see also Bosworth (Meta) Hr'g Tr. at
22	1049:13-15.	
23	84.	To achieve this vision, Meta has focused on bringing new users to its VR
24	platform. E.g	g., Rabkin (Meta) Hr'g Tr. at 805:8-12 ("Developers will not build for a computing
25	platform that	has 10,000 users. They'd rather build for an existing operating system that will –
26	where building	ng that software once is a fixed cost, and then that software can have access to a
27	billion peopl	e.").

85. Meta acknowledges that good content (apps) brings new users to VR and drives sales of its Quest headsets. *E.g.*, Zuckerberg (Meta) Hr'g Tr. at 1294:16-1295:2 (agreeing that "VR content plays an important role in the adoption of VR," that "a lot of people get a VR system because there's specific content that they want to engage with," and that "good content will lead to higher headset sales"); Stojsavljevic (Meta) Hr'g Tr. at 108:9-14 ("a lot of people buy [the headset] for the content"); PX55 (Verdu Dep.) at 128:12-18 ("Q. And great content leads to more people using Quest devices? A. Yes. Q. And great content leads to more use of Quest devices by the persons who own those Quest devices; correct? A. That's correct."); PX239 (Meta) at 1 ("

- 86. As Mr. Stojsavljevic explained, users "don't tend to put on a headset without content. It would be like buying a T.V. without a movie or T.V. show to watch." Stojsavljevic (Meta) Hr'g Tr. at 101:6-13; *accord* Rabkin (Meta) Hr'g Tr. at 805:13-14 ("People will not come to a platform if there's not a million things to do on it.").
- 87. Or as Mr. Zuckerberg observed, "The apps, I think, tend to hold the platform together more than the other way around." Zuckerberg (Meta) Hr'g Tr. at 1272:24-1273:2.
- 88. Meta sees "having more or different types of content" as a "differentiator" between its devices and other devices. Stojsavljevic (Meta) Hr'g Tr. at 101:6-13.
- 89. Content can differentiate between platforms if it exists on one platform but not another platform; the absence of content on a given platform can be a "negative differentiator" relative to other platforms that have that content. *Id.* at 101:21-102:7.
- 90. Content can also highlight features on one device that are not available on others. *Id.*
- 91. Indeed, Meta refers to key apps that drive adoption of Quest headsets, like Beat Saber, as "system sellers." Zuckerberg (Meta) Hr'g Tr. at 1295:12-13 ("Q. And you would consider Beat Saber a system seller; right? A. Yeah, I think so."); Stojsavljevic (Meta) Hr'g Tr. at 107:23-108:8; PX55 (Verdu (Meta) Dep.) at 51:7-16; PX342 (Meta) at 2.

1	92. Sales of Quest headsets, in turn, can drive new content by app developers, in
2	what Meta has referred to as a effect—otherwise known as "network effects."
3	PX100 (Meta) at 2-3; PX54 (Bosworth (Meta) Dep.) at 243:19-245:19; PX361 (Meta) at 4
4	("There will be strong network effects to a successful Metaverse").
5	93. As Meta fully recognizes, the acquisition of new users, content, and developers
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7	Bosworth (Meta) Hr'g Tr. at 1048:24-1049:4; PX54 (Bosworth (Meta) Dep.) at
8	242:2-19
9	
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11	94. Through content, Meta has also sought to keep users engaged and using its VR
12	products, which it refers to as retention. E.g., Stojsavljevic (Meta) Hr'g Tr. at 108:15-109:7;
13	PX55 (Verdu (Meta) Dep.) at 75:18-76:3.
14	95. Retention is important because
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16	
17	PX50 (Zuckerberg (Meta) Dep.) at
18	167:17-168-12; see also Pruett (Meta) Hr'g Tr. at 271:5-8 (retention is important to Meta
19	because "even if people buy a device and leave it on the shelf, then we're not making a product
20	that has good customer value.").
21	96. Content can also be a "big differentiator[]" between VR platforms. PX522
22	(Meta) at 1.
23	97. As Meta's Director of First Party Studios Rade Stojsavljevic agreed that "content
24	can be a differentiator if it exists on one platform, but does not exist on another platform";
25	content can be a "negative differentiator" if it "doesn't exist on a platform"; and content can
26	also "highlight the unique features of a device." Stojsavljevic (Meta) Hr'g Tr. at 101:21-
27	102:10.

- 98. For non-tethered platforms, content can allow a "different and probably better" experience by letting users move more freely without needing to "dodge" a wire or cord. *Id*.
- 99. Not surprisingly, Mr. Zuckerberg has implored Meta personnel to "get aggressive" with content after hearing industry rumors that Apple was going to build a headset, PX522 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 100:19-101:1, 105:13-15, and senior leaders at Oculus Studios sought to "build a moat via experienced VR developer acquisitions." PX527 (Meta) at 3.
- 100. Meta's VR Content organization is tasked with bringing new content to Meta's platform through a variety of funding models and channels. Rabkin (Meta) Hr'g Tr. at 807:10-23.
- 101. New content can include first-party apps developed directly by Meta employees through its studios group, which, by the fall of 2020, was capable of "growing organically" without having to acquire more companies. PX55 (Verdu (Meta) Dep.) at 117:5-118:12; see also PX568 (Meta) at 1

(ellipsis in original); Carmack (Meta) Hr'g Tr. at 559:9-12 (agreeing that Meta could "stack out a killer development team"); PX367 (Meta) at 1

- 102. New content can also include apps built by third parties, including those who may receive some funding or support from Meta. Rabkin (Meta) Hr'g Tr. at 807:14-23.
- 103. In cases where the development investment is "outside of the realm of what the business would justify" or "something where the return on the investment is so dubious" that Meta needs to shoulder the risk, Meta may fully fund or nearly-fully fund an outside content project, which Meta refers to as "second party" development. Stojsavljevic (Meta) Hr'g Tr. at 106:16-21, 107:14-22.
- 104. When Meta fully funds outside content, it seeks a period of exclusivity because it is taking on the financial risk for a title and funding them "outside of what the business would

1	justify." Id. at 107:14-22.
2	105. Meta acknowledges that investment in content can help grow use cases like
3	fitness. PX63 (Rabkin (Meta) Dep.) at 44:11-45:1.
4	106. The VR Content organization was overseen by Michael Verdu until a
5	reorganization following Mr. Verdu's departure from Meta, when it was taken over by Jason
6	Rubin and made part of Meta's "Metaverse" organization. Rabkin (Meta) Hr'g Tr. at 856:1-7;
7	PX66 (Rubin (Meta) Dep.) at 145:16-46:4.
8	107. Currently, Meta's VR Content organization boasts
9	employees. PX63 (Rabkin (Meta) Dep.) at 228:9-14; PX66 (Rubin (Meta) Dep.) at 22:14-17.
0	108. Meta's first-party studios group alone—which includes all but one of the VR
1	development studios Meta has acquired since 2019—boasts approximately 570 employees.
2	Stojsavljevic (Meta) Hr'g Tr. at 81:18-82:19 (testifying that approximately 40 people work for
3	Beat Games, 40 people work for Big Box VR, 50 people work for Downpour, 120 people work
4	for Ready at Dawn, 140 people work for Sanzaru, 60 people work for Twisted Pixel, 70 people
5	work for Camouflaj, and 50 people work for Armature); that number does not include the
.6	individuals that work on Meta's Horizon products or the acquired studio Unit 2 Games. <i>Id.</i> at
7	80:25-81:7; PX52 (Stojsavljevic (Meta) Dep.) at 22:13-23
.8	
9	109. At the end of 2019, the VR Content organization anticipated that it would "spend
20	between now and the end of 2023 on a two prong strategy to inflect VR
21	adoption, engagement, and retention." PX162 (Meta) at 2.
22	110. As of November 2021, Meta anticipated investing in developing
23	VR content in 2022 alone. PX227 (Meta) at 2; see also PX54 (Bosworth (Meta) Dep.) at 42:13-
24	43:16, 57:21-59:12).
25	111. Under Mr. Rubin, the Metaverse Content organization spends approximately
26	a year. PX66 (Rubin (Meta) Dep.) at 24:5-25:8.
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G. **Meta Seeks to Develop Use Cases Beyond Gaming**

- Until recently, VR experiences have almost always involved games, and thus 112. attracted a heavily male, and young, audience. Zuckerberg (Meta) Hr'g Tr. at 1293:10-19 ("in general you're correct that the [gaming] category overall I think skews younger and more male"); Stojsavljevic (Meta) Hr'g Tr. at 105:13-19 ("we had a core bit of content that was geared towards gamers") & 112:18-113:4 ("we were predominantly male on the Quest headset"); PX250 (Meta) at 1
- 113. To attract new users beyond young men, Meta has identified—and encouraged a number of VR "use cases" beyond games. E.g., Zuckerberg (Meta) Hr'g Tr. at 1292:7-10 ("We're trying to build it into something with multiple use cases.") & 1292:24-1293:1 (agreeing that "Meta needs to support a bunch of different use cases that are valuable for all different demographics"); Rabkin (Meta) Hr'g Tr. at 801:14-19 ("we need as many use cases as possible to get – you know, our dream is to have hundreds of millions of people using our technology").
 - 114. As explained by Mr. Zuckerberg:

PX50 (Zuckerberg (Meta) Dep.) at 84:5-16; see also id. at 198:1-4

Zuckerberg (Meta) Hr'g Tr. at 1293:6-9

- (agreeing that "a big goal of Meta's is to show that there are going to be a lot of use cases that are going to make VR a more general platform than just for gaming").
- Fundamentally, Meta is trying to build a "new technology and a new computing 115. platform," which requires that the device have "as many use cases as possible" so that people use their devices regularly. Rabkin (Meta) Hr'g Tr. at 801:6-13.
 - For VR to be successful, people have to be "doing a lot of different things," so 116.

for Meta, as Meta Vice President Mark Rabkin testified, "use cases are like Pokemons we
have to collect them all." Rabkin (Meta) Hr'g Tr. at 811:4-11; accord id. at 857:18-22 ("our
goal is to build a platform that is not narrowly defined by one use. And we're starting from a
point that only had one use, gaming, and internally we would keep talking about, we do not
want it to be a console. We want it to be broader.")

- 117. Meta has identified a number of discrete "use cases" within VR, including gaming, social, productivity, fitness, and media. Rabkin (Meta) Hr'g Tr. at 801:22-803:14; *Id.* at 856:22-858:4 (listing use cases beyond gaming including social, productivity and work, fitness, and media consumption); Bosworth (Meta) Hr'g Tr. at 1051:6-1052:9 (listing use cases where Meta has invested); *Id.* at 1006:21-1007:5 (listing additional use cases including fitness); Zuckerberg (Meta) Hr'g. at 1292:18-1293:9; *see also* PX 954 (Meta Q2 2021 earnings call) at 5 (noting that Meta has seen "compelling use cases and other forms of entertainment as well, as well as work, creativity and fitness" on Quest 2); PX 917 (Meta Q1 2021 earnings call) at 4 (noting that Meta is seeing the app ecosystem "broaden out beyond games into other categories" including "social" as well as "productivity and even fitness apps.").
- 118. Gaming and social are the largest use cases, and gaming is historically the largest use case in VR. Rabkin (Meta) Hr'g Tr. at 802:1-7.
- 119. From the start of his VR ambitions, Mr. Zuckerberg "was expecting . . . was that we'd build most of the apps and software services ourselves." PX50 (Zuckerberg (Meta) Dep.) at 57:12-16; *see also* PX559 (Meta) at 1.
- 120. To date, Meta has invested as a first party—and competes with third-party developers—in all of the foregoing use cases with only one exception: fitness.
 - a. Meta boasts three of the five largest gaming apps and is in the process of internally developing more. *Supra* Findings of Fact ¶¶ 64–65.
 - b. Meta has a first-party social app called Horizon Worlds that it built internally from scratch. *Supra* Findings of Fact ¶ 67a;
 - c. Meta has a first-party productivity app called Horizon Workrooms that it built

1	internally from scratch. Supra Findings of Fact ¶ 67b.
2	d. Meta has internally developed video apps Oculus TV and Oculus Video, and a
3	live events app called Horizon Venues. Supra Findings of Fact ¶¶ 67c, 67.f,82.
4	121. In social,
5	continued to compete via its internally
6	developed Horizon Worlds app in what has emerged as one of the two largest use cases in VR.
7	Supra Findings of Fact ¶¶ 72–78; see also Zuckerberg (Meta) Hr'g Tr. at 1288:20-22
8	
9	1291:10-18 ("the first major category that we went after was games in terms of helping to build
10	that. And then the next category are going to be social and communication platforms that, you
11	know, we're working on but others, like Rec Room like you mentioned, are serving, too");
12	Rabkin (Meta) Hr'g Tr. at 802:4 ("Today the two biggest use cases are gaming and social").
13	122. The only use case where Meta does not presently have a first-party app is fitness;
14	through the proposed Acquisition, Meta seeks to spend in excess of to gain a first-
15	party presence in that space. See PX6 (Agreement and Plan of Merger) at 100-01 ("Merger
16	Consideration").
17	H. VR Dedicated Fitness Apps Like Within's Supernatural Offer a Unique
18	Fitness Experience
19	123. Both Meta and Within refer to VR apps intended to provide immersive at-home
20	structured physical exercise as "deliberate" or "dedicated" fitness apps ("VR dedicated fitness
21	apps"). E.g., Rabkin (Meta) Hr'g Tr. at 831:12-24 (discussing PX179 at 2, "Rade to present a
22	proposal to Rabkin on expanding Beat Saber to deliberate fitness"); PX286 (Meta) at 1
23	PX62 (Milk (Within) Dep) at
24	56:14-23 Milk (Within)
25	Hr'g Tr. at 681:19-21; PX487 (Meta) at 4
26	
27	PX55 (Verdu (Meta) Dep.) at 120:18-24; Pruett (Meta) Hr'g Tr. at 263:6-18
28	
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1	(agreeing that a deliberate fitness app is "one that is specifically marketed to customers for the
2	purpose of exercise"), 263:19-264:2; PX4 at 169
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4	
5	& 163
6	
7	PX60 (Paynter (Meta) 30(b)(6)
8	Dep.) at 22:21-24:1; PX62 (Milk (Within) Dep.) at 56:14-23.
9	124. They do so because, despite fitness-like movement in some applications,
10	dedicated fitness services offer a different use case and appeal to different users. PX60 (Paynter
11	(Meta) Dep.) at 23:13-24:1 ("incidental fitness" refers to apps that "you could be physically
12	active in an potentially get a workout in, but it wasn't designed with fitness in mind as the
13	primary use case."); Pruett (Meta) Hr'g Tr. at 266:13-21 (agreeing that "customers for
14	deliberate fitness applications have different goals than customers for video games"); Milk
15	(Within) Hr'g Tr. at 682:22-683:7; 731:1-7
16	
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18	125. More recently, in the spring of 2022, Meta has adopted the terminology "trainer
19	workout" apps to refer to apps it previously referred to as "deliberate fitness" apps. PX60
20	(Paynter (Meta) 30(b)(6) Dep.) at 22:21-24:20, 65:20-66:13; PX219 (Meta) at 7
21	
22	126. Typical characteristics of VR dedicated fitness apps include workouts designed
23	by trainers or fitness experts and intended to maximize exertion and physical movement for the
24	purpose of exercise. PX487 (Meta) at 4 (deliberate fitness apps are "Designed to allow a player
25	to deliberately set and attain fitness goals with fitness-specific features, i.e., coaching, trackable
26	progress"); PX435 at 8 (defining "deliberate fitness" as "[a]pps that are designed primarily for
27	fitness purposes."); PX63 (Rabkin (Meta) Dep.) at 179:25-181:13; PX62 (Milk (Within) Dep.)
28	

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at 33:7-23; Pruett (Meta) Hr'g Tr. at 263:14-264:2 (customers expect deliberate fitness apps to have features such as calorie tracking, workout regimens, and the ability to set fitness goals); PX66 (Rubin (Meta) Dep.) at 133:5-11 (referring to Supernatural and FitXR as VR physical fitness apps).

- 127. VR dedicated fitness apps offer distinct functionality when compared to other VR apps, including those apps, such as rhythm and active sports games, that provide an incidental fitness benefit ("incidental fitness apps"). Zuckerberg (Meta) Hr'g Tr. at 1300:18-1301:2 ("I would consider something to be a fitness app primarily, or in the phrase that you're using, a dedicated fitness app, if the whole purpose of the app is fitness and if it were entirely in VR. But -- and I guess that's trying to draw some distinction from fitness experiences that use other platforms or potentially experiences in VR that have a fitness or movement component of them but are not primarily a fitness thing."); Rabkin (Meta) Hr'g Tr. at 862:23-863:2 (distinguishing between apps based on "music and dance and rhythm" and those based on "fitness"); Pruett (Meta) Hr'g Tr. at 266:1-12 (identifying deliberate fitness app features that distinguish Supernatural from Beat Saber); PX487 (Meta) at 4 (for incidental fitness apps, "[p]eople are primarily playing games, and as a by-product get a workout ('come for the games, stay for the fitness')"); Koblin (Within) Hr'g Tr. at 606:5-8 (VR games that require some incidental physical exertion are not a fitness offering).
- 128. For example, VR dedicated fitness apps may feature adjusting difficulty so that users never "fail" a workout; they may feature workouts designed by trainers or fitness experts; they are designed to maximize exertion and physical movement for the purpose of exercise; and they may feature classes or other active coaching. *E.g.*, PX346 (Meta) at 7 ("a critical attribute of a successful fitness app is the flow of evergreen content new workouts, instructors, music, levels, etc. in a true live experience."); PX55 (Verdu (Meta) Dep.) at 193:10-23 ("there is the evergreen flow of content, and then there is the validation and the input provided by subject matter experts in fitness"); PX66 (Rubin (Meta) Dep.) at 168:15-18 ("They're subscription, which requires in the case of most of the fitness apps constant updates, almost daily, with new

content"); PX60 (Paynter (Meta) 30(b)(6) Dep.) at 27:9-16 (describing trainers as an important part of trainer workout apps); PX1 (Meta) at 3 n.10 Indeed, during the Federal Trade Commission's pre-complaint investigation 129. process, Meta itself emphasized a number of these different features to the Federal Trade Commission to differentiate between VR apps like Supernatural and gaming apps, such as Beat Saber:

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11 || 1107:1.

PX1 (Meta) at 9.

- 130. Unlike even active and "superficially similar" apps like Beat Saber, dedicated fitness apps "target different users, with distinct demographic characteristics and usage patterns," have "different pricing strategies and structures," and each compete with a "distinct and growing set of apps," including apps on VR platforms. PX1 (Meta at 2-3).
- 131. Meta and Within are not alone in recognizing VR dedicated fitness apps as distinct from VR rhythm and gaming apps:

Garcia (Odders) Hr'g Tr. at 1105:18-

- 132. VR dedicated fitness apps are designed, built, and marketed with the intent of providing workout routines and delivering a fitness benefit to the user over time. *E.g.*, PX55 (Verdu (Meta) Dep.) at 23:8-20 ("A fitness app to me is one that is designed and built from the ground up to create workout routines that have a fitness effect over time. And if you're going to make a promise to a consumer around a fitness benefit, then the delivery of that benefit should be pretty carefully constructed and validated."); Pruett (Meta) Hr'g Tr. at 263:9-18 (fitness apps are "specifically marketed to the customer as being specifically for the purpose of exercise" and they "advertis[e] to the customer that they will get a fitness benefit by using the application").
- 133. As acknowledged by Meta's VR content ecosystem leadership, it is "important for an application to communicate clearly that it is a fitness application . . . because customers for deliberate fitness applications have different goals than customers for video games." Pruett (Meta) Hr'g Tr. at 266:13-20.
- 134. VR dedicated fitness apps typically offer distinct prices as compared to other VR apps—specifically, a subscription-based pricing model as compared to a one-time fee. PX55 (Verdu (Meta) Dep.) at 56:11-57:6; Singer (FTC Expert) Hr'g Tr. at 358:23-359:6, ("You will see other markers as well. . . . But, for example, subscription pricing, that's unique to this

category"); see also Milk (Within) Hr'g Tr. at 671:10-19; PX66 (Rubin (Meta) Dep.) at 168:15-16.

- 135. A subscription-based pricing model "maps very well to the problems that a lot of fitness I think related products have, which is that in order to not get boring, in order to make sure that your workout is always fresh and interesting, they need to have new regimens or new music or new workout routines." Pruett (Meta) Hr'g Tr. at 269:19-23; *see also id.* at 269:5-8 (agreeing that "it was reasonable to expect that fitness apps over time on the Quest platform would trend towards subscriptions as a monetization strategy").
- 136. By contrast, the majority of video game applications on the Quest platform are not a good fit for subscriptions as a monetization strategy because most of them do not have an ongoing content pipeline. *Id.* at 270:12-17.
- VR apps, including incidental fitness apps; specifically, the market for dedicated fitness skews older and more female than other VR categories like "games." PX118 (Meta) at 2; Stojsavljevic (Meta) Hr'g Tr. at 129:15-16 ("the fact that fitness has more broad appeal to women than gaming in general makes it just even more exciting"); Bosworth (Meta) Hr'g Tr. at 1035:18-22 (agreeing that Meta's internal analysis reflected its perception that "users of VR fitness apps represent a distinct category of customer compared to overall users of other VR apps on its platform"); PX55 (Verdu (Meta) Dep.) at 61:13-62:13; PX1 (Meta) at 2; PX66 (Rubin (Meta) Dep. at 132:9-11

PX4 (Meta) at 167-168

; see also Milk (Within) Hr'g Tr. at 684:16-

25; PX62 (Milk (Within) Dep.) at 152:19-153:7; PX66 (Rubin (Meta) Dep.) at 132:7-14

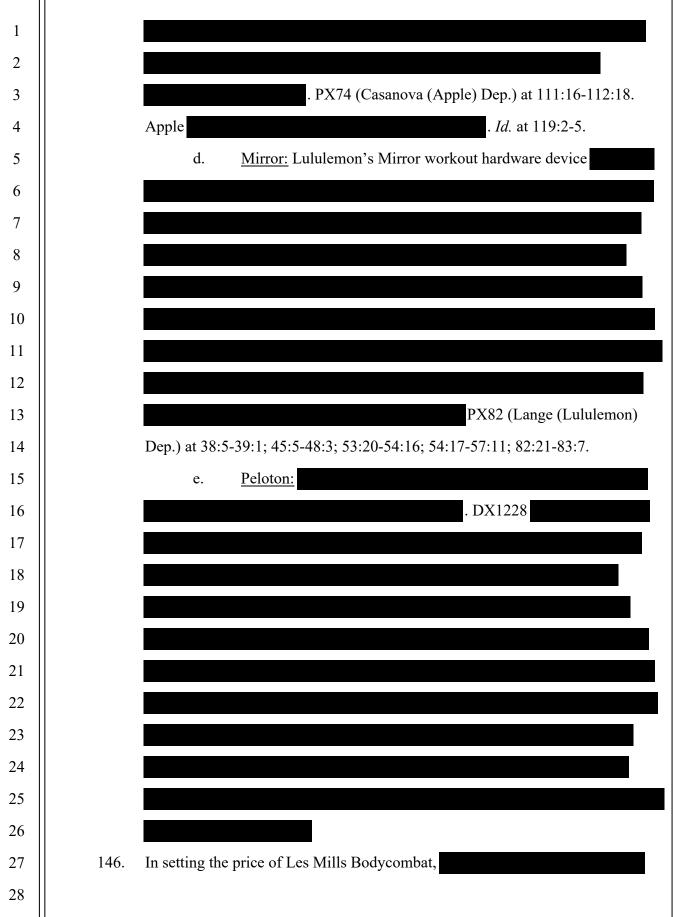
- 138. Unlike other at-home fitness products, VR dedicated fitness apps enable users to exercise in fully immersive, 360-degree virtual environments. *See generally* DDX6 (Within); Rabkin (Meta) Hr'g Tr. at 835:24-25 ("the primary differentiator of VR is immersion"); PX314 (Meta) at 1; PX713 (Within) at 25, 41; PX66 (Rubin (Meta) Dep.) at 245:16-248:11; Koblin (Within) Hr'g Tr. at 606:11-17; Milk (Within) Hr'g Tr. at 675:4-8.
- 139. As Mr. Zuckerberg explained, VR dedicated fitness apps are distinct from other digital fitness apps "in the sense that most VR experiences are different in that you're embodied and you feel like you're present there." Zuckerberg (Meta) Hr'g Tr. at 1298:5-6.
- 140. Fitness is a unique type of experience in VR "in the sense that what the metaverse and AR/VR enable are the sense of immersion and embodiment and physicality that I think is somewhat different from other computing platforms. I think that's going to be true for fitness just like it is for the other categories as well." *Id.* at 1299:14-18.
- 141. Movement "is a difference that makes [VR] interesting for a fitness app. But I would say the primary differentiator of VR is immersion, what we call feeling like you're teleported to a different place, feeling like when you move your head and look around, you're in a new space and seeing virtual things as if they are real, which is virtual reality." Rabkin (Meta) Hr'g Tr. at 835:20-836:3.
- 142. "There are [fitness] experiences on phones and computers . . . [but] the physicality and presence that you feel with these platforms is different not just in fitness, but across all of these experiences." Zuckerberg (Meta) Hr'g Tr. at 1305:18-22.
- 143. The sensors in a VR headset and controllers also allow for a degree of tracking, adjustment, and feedback that non-immersive exercise programs cannot match. *See* DDX6 (Within) (demonstrative Supernatural video); PX620 at 16

Janszen (VirZoom) Hr'g Tr. at 1140:4-12; PX56 (Carmack

(Meta) Dep.) at 30:3-22; PX4 (Meta) at 23

	& 114
	144. And, unlike other at-home smart fitness devices, VR headsets are fully portab
l	and take up little space. Vickey (Defendants' Expert) Hr'g Tr. at 1202:12-18 (the Hydrow is
	'very expensive piece of equipment" for which Dr. Vickey did not have room because he
l	'downsized [his] house"); PX66 (Rubin (Meta) Dep.) at 248:11-13; PX573 (Meta) at 2 (noting
	space and portability as distinctions between VR fitness products and Peloton).
	145. The following examples are illustrative as to how VR fitness apps differ from
	other at-home fitness products:
	a. <u>Nike Training Club:</u> Nike's digital app Nike Training Club
	features DX1222
	(Healey (Nike) Dep.) at 44:2-45:15; see also Milk (Within) Hr'g Tr. at 677:12
	17 (referring to PX906 at 3 "the home fitness paradigm for the most part, mea
	copying what an instructor is doing on a screen"). Nike does not
	DX1222 (Healey (Nike) Dep.) at 27:15-17,
	32:16-33:7, 37:2-5, 43:17-20.
	b. <u>Equinox</u> : Equinox does not
	DX1227 (Klim (Equinox) Dep.) at 16:16-18, 56:1-15. Indeed, Within
	saw
	Koblin (Within) Hr'g Tr. at
	615:15-25.
	c. <u>Apple Fitness+:</u> Apple's Fitness+ app features
l	

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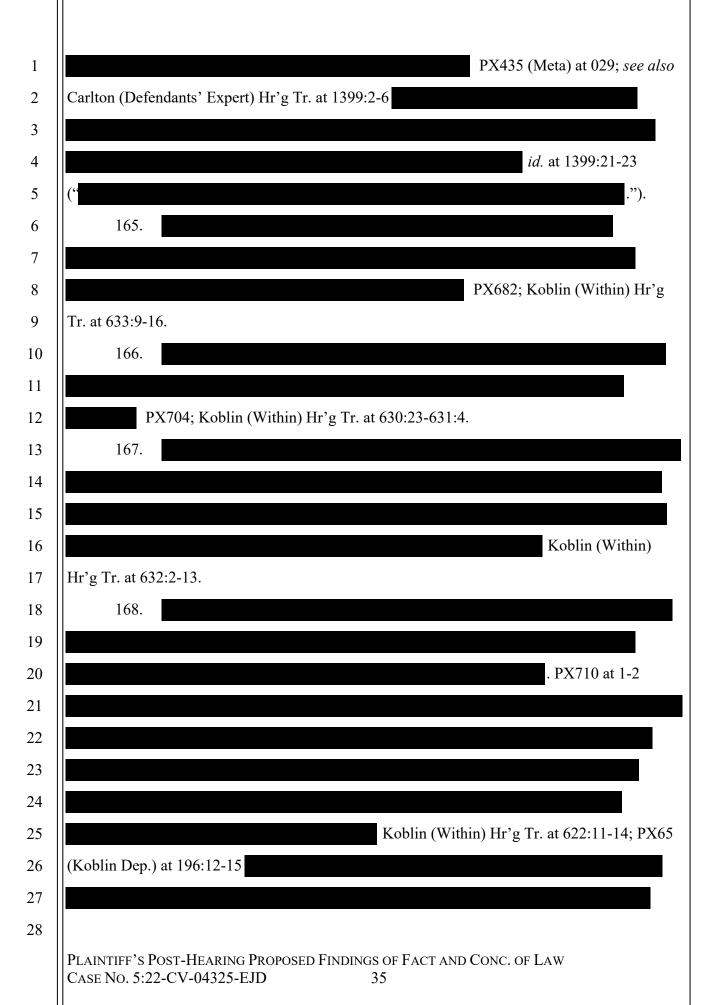
	DX1220 (Garcia (Odders Lab) Dep.) at
137:4-8, 209	:3-10; Garcia (Odders Lab) Hr'g Tr. at 1107:6-1108:1
147.	Meta's Quest 2 VR headset is also far less expensive than other at-home smart
devices; for e	example, a Peloton smart bicycle costs over \$1,000, with an additional \$44 per
month subsci	ription cost, compared to the cost of \$399 for the Meta Quest 2 plus \$18.99 per
month for Su	pernatural. PX15 (Singer Rep.) ¶¶ 39, 42; PX664 (Within) at 1; DX1228 (Sander
(Peloton) De	p.) at 60:6-20
	; see also PX66 (Rubin (Meta) Dep.) at 252:13-20
	; Koblin (Within) Hr'g Tr. at 612:18-613:14.
148.	Meta has considered partnerships with at least two at-home smart fitness device
makers	which further indicates that Meta does not consider them to
be competito	rs to VR dedicated fitness apps. PX64 (Rabkin (Meta) 30(b)(6) Dep.) at 30:3-9
149.	Managyan VD dedicated fitness and tanget years with less fitness experience
	Moreover, VR dedicated fitness apps target users with less fitness experience,
	whom traditional exercise solutions are unappealing or unavailable. PX318 (Met
` .	portunity is encouraging users who don't think about fitness much as well as user
	outine, not the fitness buff who is better served by the likes of Peloton cycling or
	ses"); PX56 (Carmack (Meta) Dep.) at 81:15-82:1; PX51 (Cibula (Within) 30(b)(
Dep.) at 84:1	-19
	PX529 (Meta) at 3-4; PX56

	PX788
(Within) at 1,	13-15
150.	Meta does not view Peloton as a close competitor of VR fitness apps becau
Meta sees VF	as "target[ing] casual fitness users (not elite)"; further, Meta defines "casual
fitness users"	as "People who do not have a fitness routine that works for them" and an "el
fitness" produ	act as "A product optimized for intensity and calories burned (like Peloton)."
DX1003 (Me	ta) at 4-5.
151.	Similarly, as Within's co-founder and CEO Chris Milk has explained, "wor
out in Supern	atural feels like you're a champion of a sport from the future. I love that and
haven't felt tl	nat sense of athleticism ever on a treadmill or an exercise bike." PX906 at 3-4
152.	
	PX788 at 1; Milk (Within) Hr'g Tr. at 4 at 691:1
I.	Within's Supernatural Is the Market Leader Among VR Dedicated Fit
	Apps
153.	Launched in April 2020, Within's Supernatural is now the market leader an
VR dedicated	PX15 (Singer Rep.) ¶¶ 73-75; Sin
(FTC Expert)	Hr'g Tr. 386:14-24
154.	Through deals with major music studios, Supernatural continues to grow its
	h includes songs from A-list artists like Katy Perry, Imagine Dragons, Lady (
	. Dkt. No. 83 (Defendant Within Unlimited, Inc.'s Answer and Affirmative
	(
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1	Defenses) ¶ 25; see also Koblin (Within) Hr'g Tr. at 605:6-14 (Music is extremely important to
2	Supernatural); Milk (Within) Hr'g Tr. at 718:9-16
3	
4	155. Customers access Supernatural's offerings by paying a subscription fee of
5	\$18.99 per month or \$179.99 per year. Dkt. No. 83 (Defendant Within Unlimited, Inc.'s Answer
6	and Affirmative Defenses) ¶¶ 25, 47; PX65 (Koblin (Within) Dep.) at 37:17-38:4.
7	156. Supernatural is presently only available on Meta's Quest headsets. Dkt. No. 83
8	(Defendant Within Unlimited, Inc.'s Answer and Affirmative Defenses) ¶ 25; Bosworth (Meta)
9	Hr'g Tr. at 1030:21-23.
10	157. Other VR dedicated fitness apps include FitXR, Holofit, VZFit, Les Mills
11	Bodycombat and Liteboxer VR, although Supernatural is the market leader. PX15 (Singer
12	Rep.) at ¶ 76, Table 2-A; see also Koblin (Within) Hr'g Tr. at 626:5-11
13	
14	; PX62 (Milk (Within) Dep.) at 137:14-138:8 (
15	
16	Zuckerberg (Meta) Hr'g Tr. at 1301:4-
17	10 (agreeing Supernatural, FitXR, and Les Mills Bodycombat are all "fully focused on fitness");
18	PX53 (Pruett (Meta) Dep. Tr.) at 138:17-25 (agreeing that Supernatural, FitXR, and Holofit are
19	all deliberate fitness products); PX5 (Within) at 16-17
20	; PX1 at 23 (listing nine VR
21	competitors of Supernatural, including two owned by FitXR); Garcia (Odders) Hr'g Tr. at
22	1106:12-21
23	
24	158. Supernatural and comprised of revenues generated by VR
25	dedicated fitness apps in 2022, according to the available data produced by Meta and Within.
26	PX15 (Singer Rep.) ¶ 76, Table 2-A; Singer (FTC Expert) Hr'g Tr. at 386:19-22
27	
28	
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1		387:18-389:23.
2	159.	Including additional applications such as Gym Class does not meaningfully
3	change the an	alysis:
4	a.	Even if one considers those apps as VR dedicated fitness apps, Supernatural and
5		still comprise of the revenues generated by VR dedicated fitness
6		apps. PX16 (Singer Rebuttal Rep.) ¶ 127, Table 2.
7	b.	When considering usage—specifically, hours spent in each app—
8		of hours spent in 2022. DX1230
9		(Carlton (Defendants' Expert) Rep.) ¶ 59, Table 8.
10	160.	Moreover, even considering both VR deliberate and incidental fitness apps
11	together, there	e are only monthly active users, followed by
12		. See PX435 (Meta) at 30; see also PX15 (Singer Rep.) at \P 75,
13	Table 2-B.	
14	161.	Within has identified as Supernatural's PX762
15	(Within) at 1	see also Koblin (Within) Hr'g Tr.
16	at 626:6-627:	5; PX731
17	; PX6	2 (Milk Dep.) at 153:8-18.
18	162.	It has also acknowledged that
19		See PX5 at 41; Koblin (Within) Hr'g Tr. at 625:13-626:1
20		
21		
22		PX705
23		
24	163.	Supernatural users
25		. Koblin (Within) Hr'g Tr. at 627:18-21.
26	164.	Meta's internal analyses likewise suggest that there is "Cannibalization among
27	Deliberate Fit	eness Apps,"
28		
		Post-Hearing Proposed Findings of Fact and Conc. of Law 2-CV-04325-EJD 34



169	. Supernatural's
	. PX479 (Met
at 4	
	PX478 (Meta) at 4
	; Stojsavljevic (Meta) Hr'g Tr. at 168:15-17, 24-25 ("Subscriptions were
broken on t	he platform I believe at this time [Supernatural was] using an off platform
subscription	n processing service); PX53 (Pruett (Meta) Dep.) at 266:15-271:16.
170	. In a candid internal exchange, Meta staff suggested that the fact that
	. PX381 (M
at 1; see als	so PX66 (Rubin (Meta) Dep.) at 209:20-21
	; Stojsavljevic (Meta) Hr'g Tr. at 168:15-16 ("What I
didn't knov	v at the time is that subscriptions were broken on the platform ").
J.	Fitness Is a Key Use Case for VR Because Dedicated Fitness Apps Drive
	New—And More Diverse—Users to VR
171	. Within's CEO Chris Milk has referred to fitness as the
PX62 (Milk	(Within) Dep.) at 22:20-23:20; PX657 (Within) at 1; PX965 at 11; Milk (Within
Hr'g Tr. at	673:2-11.
172	. Meta has observed that fitness brings opportunities to both attract new users t
VR and to s	sell more content to existing users in ways that can be habit-forming, encouraging
repeat use a	and high user retention rates. E.g., PX2 at 2 ("VR fitness, though still relatively
small, is a b	proadly appealing, fast growing, habitual use case that demonstrates potential to
further this	mission by broadening VR's appeal to new audiences and increasing platform
retention.")	; PX55 (Verdu (Meta) Dep.) at 107:7-24; see also infra Findings of Fact ¶¶ 173–
PLAINTIFF'S	S POST-HEARING PROPOSED FINDINGS OF FACT AND CONC. OF LAW

188.

173.

, Meta recognized that fitness was "retentive" and "could attract a broader audience, particularly female" and older users. PX207 (Meta) at 3, 12; PX532 (Meta) at 1 ("Fitness is retentive"); Stojsavljevic (Meta) Hr'g Tr. at 112:18-113:14; PX55 (Verdu (Meta) Dep.) at 62:11-13 ("Q. And you also thought it could lead to older users as well; is that right? A. I did."); see also Milk (Within) Hr'g Tr. at 684:10-685:2; PX2 (Meta) at 2; Bosworth (Meta) Hr'g Tr. at 1035:8-22.

174. On top of its diversification of the user base, and retention of that user base, Meta also recognized that fitness was "uniquely friendly to the subscription business model," which executives at Meta saw as "the future." PX118 (Meta) at 2 (also noting that fitness apps "show promising patterns of engagement and retention"); PX386 (Meta) at 12 (deliberate fitness

Bosworth (Meta) Hr'g Tr. at 1042:8-1043:15; PX528 (Meta) at 2

- 175. "From a pure business perspective, you know, a subscription is an ongoing, an ongoing payment method, right? You continue to monetize the user over time as long as the customer continues to subscribe." Pruett (Meta) at Hr'g Tr. at 269:15-18; *see also id.* at 266:1-7 (one of the features that "differentiated Supernatural from video games like Beat Saber" is "the subscription monetization system that they [Within] had proposed.").
- 176. As such, by early 2021, Meta was "starting to look closely at the fitness trend since it's very exciting." PX448 (Meta) at 2.
- 177. Mr. Rabkin agreed that fitness highlights the unique nature of VR in a way that other VR uses cases may not and explained that "every new use case in VR tends to bring out a different aspect of VR for the people. I think fitness definitely does that, you know, body and exercise connection for people obviously. . . . As a use case it's a little bit different. It highlights different things about VR that other use cases do not." Rabkin (Meta) Hr'g Tr. at 836:23-

837:11.

about VR fitness: "[W]hen there is momentum, when people are getting into it and doing a new thing in VR, everyone internally, from every line engineer to the very senior leader, we get very excited. That's another proof point, another kind of brick in the wall of, hey, VR is becoming something, and it's not just for gaming, like there's a new thing." Rabkin (Meta) Hr'g Tr. at 811:12-18.

- 179. As such, Meta executives, including Mr. Zuckerberg, began to repeatedly, and consistently, extol the potential of fitness to become a key "use case" for VR. Zuckerberg (Meta) Hr'g Tr. at 1297:11-15 ("Q. And it's an exciting new use case; correct? A. Yeah, I think so. Q. You hope that fitness can emerge as a key use case in VR; right? A. I think it would be great if it could, yes."), 1305:5-6 ("I thought this could be a use case in VR and AR and showed some examples that I thought were exciting."), and 1301:19-1303:22 (discussing references to VR fitness as well as Facebook's quarterly earnings calls in the first and second quarters of 2021); PX118 (Meta) at 1 (Mr. Zuckerberg: "I'm bullish on fitness.").
- 180. According to Mr. Verdu, former Vice President of VR Content, Mr. Zuckerberg "certainly developed an enthusiasm for the category, as I had." PX55 (Verdu (Meta) Dep.) at 174:13-175:23; *see also* Stojsavljevic (Meta) Hr'g Tr. at 130:19-131:1.
- 181. This interest at the highest levels of the company led Meta employees to conclude that, in internal analyses, they would need to show "perhaps not much" to justify investment in the VR dedicated fitness space. PX125 (Meta) at 3.
- 182. Indeed, members of the VR Content organization had determined, by spring 2021, that "fitness is the right place to invest" and had "the potential to become core to VR." PX522 at 1 (fitness is the "right category"); Stojsavljevic (Meta) Hr'g Tr. at 111:5-9 (describing PX522 and noting "at that time [January 2021] fitness was a category that we were looking at that might be a place to get into"); PX179 (Meta) at 2 ("Fitness has the potential to become core to VR. We believe Fitness will broaden and diversify our user base and increase Oculus

I	frequency of use"); PX52 (Stojsavljevic (Meta) Dep.) at 74:18-19 ("what I mean by 'right
2	category' is fitness is the right place to invest").
3	183. Since that time, Meta has pursued a multifaceted strategy to promote fitness on
4	its devices, including developing platform-level tools such as Oculus Move, a fitness tracker
5	that Quest users can deploy to track their time spent moving and calories burned across apps.
6	Zuckerberg (Meta) Hr'g Tr. at 1305:23-1304:6; Carmack (Meta) Hr'g Tr. at 558:22-23; Rabkin
7	(Meta) Hr'g Tr. at 832:10-11 ("We were very busy on the acquisition strategy and on the
8	platform investments for fitness."); PX58 (Dass (Meta) 30(b)(6) Dep.) at 10:21-11:8.
9	184. Meta built Oculus Move from scratch PX50
10	(Zuckerberg (Meta) Dep.) at 131:7-14;
11	
12	Zuckerberg (Meta) Hr'g Tr. at 1289:4-24.
13	185. Meta has also produced the Quest 2 Active Pack, which includes a wipeable
14	interface, wrist straps, and adjustable knuckle straps, PX63 Rabkin (Meta) Dep. at 225:5-
15	227:16; PX50 (Zuckerberg (Meta) Dep.) at 214:11-23, and has considered
16	
17	PX349 (Meta) at 1; PX557 (Meta) at 49, 64; PX438
18	(Meta) (
19	186. By August 2021, Meta had deemed fitness a PX314
20	(Meta) at 1; PX63 (Rabkin (Meta) Dep.) at 218:11-219:1.
21	187. Fitness continues to be a for Meta; an April 2022 strategy
22	document that was prepared for Mr. Zuckerberg identified fitness as
23	PX386 (Meta) at 11; Bosworth (Meta) Hr'g
24	Tr. at 1041:6-17.
25	188. At that time, Meta recognized deliberate fitness as
26	PX386 (Meta) at 12; Bosworth (Meta) Hr'g Tr. at 1042:8-23; Carmack (Meta)
27	Hr'g Tr. at 560:8-22; PX318 at 1 ("fitness has organically grown to 20 percent of Quest MAP
	In g 11. at 300.0 22, 1713 to at 1 (Helicos has organically grown to 20 percent of Quest William
28	In g in at 500.0 22, 1715 to at 1 (naiess has organically grown to 20 percent or Quest with

and is one of the [fastest growing] Oculus user segments" (brackets in original)).

189. Because of fitness's appeal to a broader demographic of VR users, even Defendants' economic expert recognizes that "there's no question that" fitness "could be important to bring in some demographic, some new people" to the Quest Platform. Carlton (Defendants' Expert) Hr'g Tr. at 1372:23-24.

K. Meta Saw the Beat Saber Acquisition as a "Vector Into Fitness"

- 190. Recognizing the potential for VR dedicated fitness apps to both expand its user audience and drive retention, and thus propel headset sales and app monetization, Meta has explored multiple pathways to enter VR dedicated fitness with its own product. *See infra* Findings of Fact ¶¶ 191–211; 234–287.
- 191. One natural pathway was expanding Beat Saber, which employs the same slashing mechanic as Supernatural, to include fitness offerings. Stojsavljevic (Meta) Hr'g Tr. at 137:8-14; Rabkin (Meta) Hr'g Tr. 851:15-19 (Beat Saber "was a very, very natural target for ideas from people all over the team to say, hey, is this a thing that could be expanded? Is this a thing that could be grown? And there was a lot of buzz around that thinking at that time.").
- 192. Meta has acknowledged the similarity in mechanics between Beat Saber and Supernatural. PX2 (Meta) at 3 (discussing Within's reliance "on a proven game mechanic"); Bosworth (Meta) Hr'g Tr. at 1034:12-20; *see also* Stojsavljevic (Meta) Hr'g Tr. at 137:15-17 ("I viewed it as a derivative title of Beat Saber").
 - 193. Within has

Milk (Within) Hr'g Tr. at 682:18-

21; PX965 at 8-9.

194. And Meta employees have repeatedly referred to Supernatural as a "clone" or "knock-off" of Beat Saber. *E.g.*, Pruett (Meta) Hr'g Tr. at 244:25-245:5, 265:24-25; PX246 (Meta) at 1; PX110 (Meta) at 1; PX466 (Meta) at 1; PX561 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 156:5-23; PX179 (Meta) at 1; *see also* Milk (Within) Hr'g Tr. at 682:18-21

2	195. Beat Saber is widely recognized as providing incidental fitness benefits, and
	many users play Beat Saber for exercise. Carmack (Meta) Hr'g Tr. at 561:20-23; PX525 at 1;
	Stojsavljevic (Meta) Hr'g Tr. at 138:3-10 (Beat Saber is "already the number one fitness app";
	the number of people that use the "Fit Beat" track in Beat Saber exceeds many fitness titles);
	PX66 (Rubin (Meta) Dep.) at 167:17-24 PX229 (Meta) at 5.
	196. As early as August 2019, and prior to its acquisition of Beat Games, Meta was
	pressing Beat Games to build a sequel to Beat Saber with a "fitness feature,"
	PX249 (Meta) at 1
	PX55 (Verdu (Meta) Dep.) at 21:10-22:3, 27:6-28:1.
	197. Mr. Verdu, the sponsor for the Beat Games deal, believed Beat Saber could go
	further and develop a version with the functionalities of a VR dedicated fitness app. PX55
	(Verdu (Meta) Dep.) at 23:21-24:1, 63:10-21; PX342 (Meta) at 2
	198. When Meta was weighing a bid to acquire Beat Games later that year, it foresaw
	Beat Saber PX342 (Meta) at 2, with the
	PX162 (Meta) at 3; PX55 (Verdu (Meta)
	Dep.) at 90:7-15.
	199. Deal strategy documents
	PX162 (Meta) at 3.
	200. According to Mr. Verdu, the acquisition "was a way for us to enter the home
	fitness space, which I certainly thought would be a way of getting a whole bunch of people to
	adopt VR and buy headsets who might not otherwise do so." PX55 (Verdu (Meta) Dep.) at
	60:8-12; <i>see also id.</i> at 63:4-21.
	201. Mr. Verdu was "enchanted with the idea that Beat Saber could be adapted either
	with a new probably with a new version, to to be a fitness app more than just a game app."

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1	month that Supernatural launched, Meta released a "particular song that we were exploring
2	fitness with for" for Beat Saber called "FitBeat." Stojsavljevic (Meta) Hr'g Tr. at 119:21-120:17
3	("the idea [was] that we could do something interesting with fitness there"); see also PX56
4	(Carmack (Meta) Dep.) at 63:8-64:1
5	PX77 (Beck (Meta) Dep.) at 101:23-
6	103:11.
7	208. Beat Games' cofounder Jaroslav Beck, who created FitBeat, repeatedly referred
8	to it as "the fitness song" before naming it FitBeat. PX586 (Meta) at 1; PX376 (Meta) at 3.
9	209. From the day of its launch, FitBeat earned atypical acclaim from players to the
10	point that Mr. Beck wrote
11	PX575 (Meta) at 7.
12	210. Because of the size of the Beat Saber userbase, the number of players that used
13	FitBeat at the beginning of 2021 was "larger than any fitness app" at that time. Stojsavljevic
14	(Meta) Hr'g Tr. at 119:17-120:7.
15	211. In addition to FitBeat, Meta added a way to "loop" gameplay so users could keep
16	up physical activity in Beat Saber without stopping. PX54 (Bosworth (Meta) Dep.) at 141:19-22
17	
18	
19	L. Within Perceived Meta as a Potential Entrant into VR Dedicated Fitness
20	212. Given Meta's vast resources, the market's potential, and the similarity between
21	Beat Saber and Supernatural, Within recognized that Meta was uniquely poised to enter the VR
22	dedicated fitness. <i>Infra</i> Findings of Fact ¶¶ 213–225.
23	213.
24	
25	PX607 (Within) at 2.
26	214. Within's investors did so as well, as demonstrated by a
27	
28	
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	. DX1083 (Within) at 15-16; Milk (Within) Hr'g Tr. at 70
707:8-708:5.	
215.	
	. DX1083 (Within) at 16
Milk (Within	a) Hr'g Tr. at 706:4-9, 707:12-708:5, 766:18-767:1
216.	
	PX730 (Within) at 1; Milk (Within) Hr'g Tr. at 692:22-693:69
594:19-69 5 1	3, 695:18-23, 696:7-22.
217.	Specifically, Mr. Milk was concerned that
217.	Specifically, wir. wink was concerned that
	Mills (Wiston) II.e.
(0(10,607.6	Milk (Within) Hr'g
696:18-697:2	
218.	In response to this threat, Mr. Milk stated that
	PX730 (Wi
at 1; Milk (W	Vithin) Hr'g Tr. at 695:18-23.
219.	Another Within document from this time period reads:
	PX619 (Within) at 4; Milk (Within) Hr's
at 699:7-16.	
220.	Within's concerns continued following the launch of Supernatural: for example 1.
n a June 202	20 Supernatural strategy presentation,
	PX615 (Within) at 8; Milk (Within)

1	Tr. at 704:14-20.
2	221.
3	
4	
5	PX62 (Milk (Within) Dep. at 112:22-113:12; PX729 (Within) at 1.
6	222. Meta also hired away the head of product for Supernatural at Within to work at
7	Meta following the Supernatural launch, which was a to Within. PX767 (Within)
8	at 1, Milk (Within) Hr'g Tr. at 712:13-22; PX111 (Meta) at 1.
9	223. Meta has hired several other Within employees and continues to do so,
10	
11	PX767 (Within) at 2; Milk (Within) Hr'g Tr. at 711:22-714:4.
12	224.
13	
14	Milk (Within)
15	Hr'g Tr. at 713:20-25.
16	225. In the summer of 2020,
17	
18	
19	PX305 (Meta) at 2; PX54 (Bosworth (Meta) Dep.) at 178:14-79:22.
20	226. Meta also knew that Within perceived it as a potential entrant into the VR
21	dedicated fitness market; during a meeting with Within in April 2021, Melissa Brown, head of
22	Meta's Developer Relations, wrote to Michael Verdu and Anand Dass: "They also very much
23	worry that we will create a fitness first app internally that takes their market share." PX514
24	(Meta) at 2; see also PX67 (Brown (Meta) Dep.) at 115:5-117:18.
25	227. Based on this threat, Within developed competitive strategies for Supernatural
26	with the specter of Meta's potential entry in mind. <i>Infra</i> Findings of Fact ¶¶ 229–232.
27	228. Within has long recognized that it must innovate and continually improve its
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product to dis	stance itself from potential competition; as Within's CEO explained,
	" PX621 (Within) at 2.
229.	
	PX615 (Within) at 9.
230.	Within also sought to
	PX615 (Within) at 9
231.	Within's efforts ultimately led Within executive Jonny Ahdout to remark in
October 2021	, while preparing to launch Within's boxing modality and publicizing the vast
catalogue of	songs available to Supernatural users:
PX61	6 (Within) at 2.
232.	Within was also concerned about making any moves that would limit its abil
to compete a	gainst Meta as a potential entrant;
	." PX620 (Within) at 36; Milk
(Within) Hr's	g Tr. at 700:16-701:2.
233.	The same document next warns that
	PX620 (Within) at 36; Mi
(Within) Hr's	g Tr. at 702:13-17.
M .	Meta Gets "Serious" About Fitness and Aims to Develop Its Own VR
	Dedicated Fitness App
234.	The COVID-19 crisis, which occurred just after Meta's acquisition of Beat
Games in late	e 2019, naturally heightened Meta's longstanding interest in the VR dedicated
fitness space.	PX207 (Meta) at 3 ("COVID was the perfect stimulus").
235.	In addition, holiday usage data from 2020 showed that fitness "might have
	Post-Hearing Proposed Findings of Fact and Conc. of Law 22-CV-04325-EJD 46

product market fit," and drove higher percentages of women to Meta's VR platform than games. Stojsavljevic (Meta) Hr'g Tr. at 111:20-112:21, 127:13-16.

- 236. By mid-February 2021, a combination of holiday data, internal chatter, and social media led to excitement about fitness as a use case, as Meta saw fitness as a potential segment beyond gaming that could appeal to women and make Meta's VR devices more general devices instead of niche gaming devices. *Id.* at 128:11-13; 129:15-16; PX52 (Stojsavljevic (Meta) Dep.) at 84:17-22 ("At that time this would this is mid-February more of the org had looked at that holiday data, and there was a lot of discussion about an excitement about the fitness segment, particularly growing that female demographic on the platform and having potential product market fit.").
- 237. Chatter about VR fitness was "all over" Meta: it was "cross-functional," it was "in internal work groups," and it was coming from fans of Oculus outside Reality Labs—in short "it was coming throughout the organization." Stojsavljevic (Meta) Hr'g Tr. at 129:17-25.
- 238. Thus, by February 2021, the VR Content organization recognized that "we need to get serious about doing something big in fitness." PX189 (Meta) at 1.
- 239. Something "big in fitness" meant Meta "should do a really good title in that space" which could have meant building something in the fitness space or "it could have been a funded application, it could have been better positioning in the store for fitness . . . it could have been an acquisition. It was just some way to fulfill what customers were telling [Meta] that they wanted." Stojsavljevic (Meta) Hr'g Tr. at 131:4-21.
- 240. Mr. Stojsavljevic specifically proposed building something in the fitness space, *id.* at 131:18-25, which Meta "definitely" has the capabilities to do. Rabkin (Meta) Hr'g Tr. at 815:7-8.
- 241. Given this excitement, in early 2021 Meta engaged in "a strategy exercise to decide between [its] alternatives" in fitness. PX117 (Meta) at 1.
- 242. As part of this exercise, Mr. Stojsavljevic began exploring a separate Beat Saber fitness offering, including through a partnership with Peloton, which "would be killer." PX189

1	(Meta) at 1; PX52 (Stojsavljevic (Meta) Dep.) at 81:11-12, 82:23-24 ("It would have been a – a
2	fitness application or potentially a fitness mode of the existing game I was interested in it
3	specifically because of the holiday data which we reviewed in early 2021, yes.").
4	243. Mr. Verdu "was very excited about it and was trying to convince, you know,
5	[Mr. Rabkin and] Mark Zuckerberg," Rabkin (Meta) Hr'g Tr. at 851:20-852:8, and told Mr.
6	Stojsavljevic "to pursue the idea further," Stojsavljevic (Meta) Hr'g Tr. at 135:3-12; accord
7	PX52 (Stojsavljevic (Meta) Dep.) at 90:18-25; Rabkin (Meta) Hr'g Tr. at 851:20-25 (Verdu
8	
9	244. Mr. Rabkin was
10	
11	PX63 (Rabkin (Meta) Dep.) at 172:6-
12	173:5.
13	245. And Mr. Rubin
14	PX66 (Rubin (Meta) Dep.) at 125:19-126:12.
15	246. Mr. Stojsavljevic saw the proposal as a brand licensing deal with Peloton that
16	would get Meta credibility as a fitness content, as well as access to coaches. Stojsavljevic
17	(Meta) Hr'g Tr. at 132:17-133:3.
18	247. Stojsavljevic and Verdu discussed the Beat Saber fitness idea with Mr. Verdu on
19	multiple occasions. See, e.g., PX189 (work chat between Mr. Stojsavljevic and Mr. Verdu abour
20	"doing something big in fitness"); PX524 (February 19, 2021 calendar invite to discuss "Beat
21	Games update, fitness idea").
22	248. A Peloton partnership appealed to Mr. Verdu "just because it would be a way of
23	making a big splash in the home fitness market with a brand that was already established there,
24	and a collection of subject matter experts who could help us." PX55 (Verdu (Meta) Dep.) at
25	201:24-202:8.
26	249. Other members of the VR Content organization were similarly excited about a
27	Beat Saber partnership with Peloton in February 2021. PX256 (Meta) at 1
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1 ; PX111 (Meta) at 1. 2 250. During a February 23, 2021 meeting with Mr. Stojsavljevic and others, Bill 3 Allred, the former head of product at Within for Supernatural and newly hired Meta employee, 4 Stojsavljevic (Meta) Hr'g Tr. at 145:23-146:17, discussed his background at Supernatural and noted that he was "really intrigued by the idea of partnering with Peloton, which seems like it 5 would supercharge content creation while also impacting device sales via the brand affiliation 6 7 more than owning a fitness studio." PX111 (Meta) at 1. 8 251. He and Mr. Stojsavljevic discussed the process of creating a tool chain to create the song maps needed for the regular content releases a fitness product could need. Stojsavljevic 9 10 (Meta) Hr'g Tr. at 148:14-21. A March 2021 presentation entitled "Operation Twinkie" declared Peloton and 11 12 Beat Saber "a natural fit" and proposed partnering with Peloton to "position[] Beat Saber 13 directly as a fitness app." PX527 (Meta) at 5. Subscription services are the best path to a financially successful VR platform, 14 253. 15 PX118 (Meta) at 2; PX306 (Meta) at 2 16 17 (Meta) at 2, 5 18 19 20 21 254. Besides a partnership with an established fitness brand like Peloton, other means for expanding Beat Saber into dedicated fitness included organically building out the Beat Saber 22 23 app, through hiring efforts that would take "8-12mos . . . conservatively." PX144 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 142:2-8. 24 At this time, Messrs. Zuckerberg and Bosworth were supportive of "[g]rowing 25 255. [Meta's first-party] studios organically, essentially hiring more people in the studios to see if 26

PX342

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they can make more great products." PX55 (Verdu (Meta) Dep.) at 204:22-205:8.

1	256. Indeed, in 2021, Meta had "grand and "grand"," so Mr. Zuckerberg
2	
3	. Zuckerberg (Meta) Hr'g Tr. 1283:18-1284:21.
4	257. Meta could have also expanded Beat Saber into dedicated fitness by "buy[ing] a
5	studio for development capacity." PX144 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 142:2-8.
6	258. Specifically, at this time in early March 2021, Meta considered acquiring
7	Armature "to build a fitness-first product based on Beat Saber x their sports experience"
8	because "Armature is uniquely positioned to deliver on our fitness / sports ambitions." PX527
9	(Meta) at 8; Stojsavljevic (Meta) Hr'g Tr. at 124:12-22.
10	259. Meta ultimately purchased Armature in 2022. Zuckerberg (Meta) Hr'g Tr. at
11	1309:7-18; Bosworth (Meta) Hr'g Tr. at 1055:12-14; Stojsavljevic (Meta) Hr'g Tr. at 127:8-11;
12	PX555 (Meta) at 3.
13	260. On March 4, 2021, Mr. Verdu apprised Mr. Zuckerberg of Meta's internal efforts
14	to build its own VR dedicated fitness app, explaining that "we're starting a project to create a
15	fitness SKU of Beat Saber, maybe in partnership with an established fitness brand like Peloton –
16	who could also create the steady stream of content needed to 'feed the subscription beast'
17	including workouts, music, and instructor-led classes." PX118 (Meta) at 2.
18	261. At Meta (then-Facebook), vice presidents like Mr. Verdu
19	. Zuckerberg (Meta) Hr'g Tr. at
20	1287:15-18.
21	262. If there was "a budget approved for the creation of games and apps, and some of
22	that was spent internally," then Mr. Verdu "felt like [he] had the discretion to put those funds to
23	use as needed" in support of the company's goals, PX55 (Verdu (Meta) Dep.) at 88:5-18; this
24	budget expanded as Meta acquired game studios. <i>Id.</i> at 88:19-89:8.
25	263. Mr. Verdu was also empowered to approve up to \$50 million in third-party
26	grants and investments. <i>Id.</i> at 71:24-72:4.
27	264. Mr. Zuckerberg's approval was thus not necessary for the expansion of Beat
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1	Saber into fitness. Zuckerberg (Meta) Hr'g Tr. at 1311:21-1312:3 (testifying that "I'm not sure
2	that a formal process would have been required"); PX50 (Zuckerberg (Meta) Dep.) at 144:2-11
3	("
4	.").
5	265. Moreover, in reference to expanding Beat Saber into a dedicated fitness app, Mr
6	Zuckerberg explained that "I do not believe that I ever told people that they could not expressly
7	do that." Zuckerberg (Meta) Hr'g Tr. at 1311:10-16.
8	266. Mr. Zuckerberg responded supportively and enthusiastically within minutes to
9	Mr. Verdu's March 4 email: "I'm bullish on fitness. A partnership with Peloton for Beat Saber
10	sounds awesome! I'd love to see that happen. Let me know how I can help." PX118 (Meta) at 1
11	267. In sending his response, Mr. Zuckerberg was expressing enthusiasm for the idea
12	of a partnership between Peloton and Beat Saber for a VR dedicated fitness app and hopeful that
13	others would follow up on the idea. Zuckerberg (Meta) Hr'g Tr. at 1310:22-1311:3.
14	268. That very same day, on March 4, 2021, Messrs. Verdu and Stojsavljevic
15	finalized a presentation entitled "Operation Twinkie," which was part of a broader plan to
16	expand the content organization. Stojsavljevic (Meta) Hr'g Tr. at 107:23-108:5, 118:10-14.
17	269. "Operation Twinkie" described "strategies" including "Build a wholly owned
18	fitness offering using a combination of in-house tech and acqui-hired talent." PX527 (Meta) at
19	1.
20	270. Despite the fact that Meta had not positioned Beat Saber as a fitness app beyond
21	the release of a single track, Meta had seen signals that some people were already using Beat
22	Saber for fitness. See supra Findings of Fact ¶ 195, Stojsavljevic (Meta) Hr'g Tr. at 120:6-14.
23	271. Meta had concerns that—because Beat Saber was a game—it would not have
24	credibility in the fitness space without an established fitness brand partner. Stojsavljevic (Meta)
25	Hr'g Tr. at 120:18-121:3.
26	272. A partnership could also provide Meta with access to coaches. <i>Id.</i> at 121:9-16.
27	273. As part of the proposal, Mr. Stojsavljevic and his collaborators named Armature
28	

as the team to "Acquihire" in order to "build a fitness-first product." PX 527 (Meta) at 8.

- 274. If Meta needed to hire new employees, however, it estimated it would need approximately 20 to 30 people to do the work associated with a Beat Saber fitness offering in connection with Peloton. Stojsavljevic (Meta) Hr'g Tr. at 143:8-12.
- 275. Meta viewed time to market as "important when you have a nascent market," and believed that an "acqui-hire was a way to shortcut" a hiring process that could take as long as 8-12 months before Meta could start building the product. PX144 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 140:1-8, 142:2-8
- 276. Armature in particular had a track record of co-development—collaborating with partners to bring a product to market—that was "very rare." Stojsavljevic (Meta) Hr'g Tr. at 124:23-126:6 (describing Armature's co-development expertise).
- 277. Armature was not just a developer, it was a AAA developer—a developer of apps that are both high-quality and large-scale. PX144 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 142:23-143:7.
- 278. At the time, in March 2021, Armature had a team working on Resident Evil, which has since been released, as well as a team that had been doing contract work for studios other than Meta, which could have been repurposed for a Beat Saber fitness project.

 Stojsavljevic (Meta) Hr'g Tr. at 142:13-22.
- 279. The "Operation Twinkie" presentation also proposed the acquisitions of Twisted Pixel, Camouflaj, and Darkwind in order to build "exclusive system-sellers content." PX527 (Meta) at 4, 11-12; Stojsavljevic (Meta) Hr'g Tr. at 126:11-127:2.
- 280. Exclusive system sellers content is content that would only be available on Meta's platform. Stojsavljevic (Meta) Hr'g Tr. at 119:3-10.
- 281. Meta ultimately did acquire Armature, as well as Camouflaj, Darkwind, and Twisted Pixel. *Id.* at 81:11-16, 127:3-11.
- 282. In addition to existing game studios, or engaging with Armature, Meta also has other capabilities that would enable it to expand Beat Saber into fitness, including a technical

- setup that would allow "anyone" with video recording capabilities to shoot stereoscopic video for VR, *id.* at 144:2-25, and a team of lawyers and business development personnel called "FB Music" or "Facebook Music" that work on music licensing. *Id.* at 158:12-25.
- 283. The "Operation Twinkie" presentation recognized that strong brand awareness around Beat Saber would have facilitated Meta's entry into the dedicated fitness space. PX527 (Meta) at 5 ("Beat Saber is already the #1 VR fitness app in terms of MAP [monthly active people] so why not double down? We've never positioned Beat Saber directly as a fitness app but if we partnered with Peloton we could.").
- 284. Specifically, users already associate Meta's Beat Saber app with fitness; a dedicated fitness-oriented version of Beat Saber would be in line with users' understanding of the Beat Saber brand. PX527 (Meta) at 5; PX407 (Meta) at 1-2.
- 285. While Meta was developing paths to enter VR dedicated fitness with its own product, it also was considering entering the space through acquisition of an existing VR dedicated fitness app. *E.g.*, Rabkin (Meta) Hr'g Tr. at 826:16-827:12; PX118 (Meta) at 2.
- 286. One purported reason to investigate the acquisition route was because "We don't have the capabilities to build the Fitness experience in-house," PX179 (Meta) at 2.
- 287. That same document, however, had as an action item that Mr. Stojsavljevic would present a "proposal" to Mr. Rabkin on expanding Beat Saber into deliberate fitness. PX179 (Meta) at 2; Stojsavljevic (Meta) Hr'g Tr. at 152:14-22; *see also* PX55 (Verdu (Meta) Dep.) at 231:13-232:8 (recognizing this could be an "inconsistency" alongside the statement that Meta lacked "the capabilities to build the fitness experience in house").
- 288. Moreover, meeting attendees viewed Mr. Stojsavljevic's proposal as something "completely separate" from building a fitness application entirely with in-house resources, Stojsavljevic (Meta) Hr'g Tr. at 155:3-17.
- 289. Further, Meta "could definitely build an application" for VR dedicated fitness on its own, Rabkin (Meta) Hr'g Tr. at 815:5-9, because Meta already has engineers with the skill set to both expand Beat Saber into fitness and to build a VR dedicated fitness app from scratch,

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1	Carmack (Meta) Hr'g Tr. at 559:9-12 (agreeing that Meta could "stack out a killer development
2	team" and noting that "inside of those 10,000 employees, there are certainly many talented
3	people") & 562:20-563:1 ("As a competent programmer, I could change the application for
4	different design requirements. I do not have fitness specific skill sets, but I can change anything
5	that was important in the program to serve whatever design goals were put before me."); PX56
6	(Carmack (Meta) Dep.) at 39:24-40:4 ("
7), 51:18-21
8	
9); see also id. at 53:18-54:6 (Meta could have
10); cf. Koblin (Within) Hr'g Tr. at 653:25-654:9 (Q. "Why
11	did you determine that Meta was the right company to sell to"? A. " They're leaders in the
12	space I'm excited about the opportunity to get to work with some of the world's top minds
13	in immersive technology.").
14	290. In any event, to whatever extent it is true that Meta lacked capabilities in March
15	2021, that problem could have been solved by a hiring process that would "conservatively" take
16	8-12 months or by acquiring a development studio like Armature, which Meta subsequently did.
17	PX144 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 142:2-12.
18	291. As such, despite any concerns about in-house resource availability, Meta
19	continued to consider Mr. Stojsavljevic's proposal to expand Beat Saber into fitness because it
20	had a path to bring the talent it needed in house. Stojsavljevic (Meta) Hr'g Tr. at 154:23-
21	155:13.
22	292. In fact, Meta has either employed or tried to hire Within employees in the past,
23	as there is overlap in the roles for which each company seeks to hire individuals. <i>Id.</i> at 203:21-
24	204:5.
25	293.
26	. Milk (Within) Hr'g Tr. at 711:15-19; PX767
27	(Within) at 2 ; PX62 (Milk (Within)
28	
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D	ep.) at 109:	129-13
	294.	These employees, hired by Meta to work on Meta VR products,
		Milk
	Vithin) Hr'g	g Tr. at 712:13-16; 713:4-11; PX767 (Within) at 2
	295.	
	Milk	x (Within) Hr'g Tr. at 711:22-714:4; PX767 (Within) at 2
); PX62 (Milk (Within)
D	ep.) at 106:2	24-107:6, 109:25-110:3 (noting,
	296.	Thus, although Meta had, by March 11, 2021, decided to
		it was still undertaking parallel
ef	forts to "ex	pand[] Beat Saber to deliberate fitness." PX179 (Meta) at 2.
	297.	Those parallel efforts were a "big topic of discussion at that time," and "there
w	as a lot of b	uzz around that thinking at that time." Rabkin (Meta) Hr'g Tr. at 851:5-19.
	298.	Mr. Stojsavljevic continued to believe that "a fitness collaboration between Beat
Sa	aber and Pel	oton is the best way" to address "
		" PX407 (Meta) at 1.
	299.	Accordingly, at the end of March 2021, Mr. Stojsavljevic asked a contractor who
w	orked with l	him to research his proposal. Stojsavljevic (Meta) Hr'g Tr. at 163:25-164:11;
PZ	X121 (Meta).
	300.	At that same time, Mr. Stojsavljevic was informing colleagues that a pitch would
go	to executiv	ves in April with a . PX533
(N	Meta) at 1.	
	301.	Later, in June 2021, just as Meta was making an offer to purchase Within, Mr.
11		Post-Hearing Proposed Findings of Fact and Conc. of Law 2-CV-04325-EJD 55

1	Stojsavljevic told a colleague that he was "still tempted to take on the work" to make his Beat
2	Saber/Peloton proposal happen. PX341 (Meta) at 1-2; Stojsavljevic (Meta) Hr'g. Tr. at 169:5-
3	170:1.
4	302. Although Mr. Stojsavljevic may not have had the bandwidth at the time to take
5	on such a project personally, he had taken on projects in the past to prove that he could do so.
6	Stojsavljevic (Meta) Hr'g Tr. at 170:2-171:12 ("[W]hen you tell me I'm not going to do
7	something, I'm going to try to prove you wrong"); PX341 (Meta) at 2.
8	303. Additionally,
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11	PX52 (Stojsavljevic (Meta) Dep.) at 240:11-241:7.
12	304. Separate from Mr. Stojsavljevic's proposal to work with Peloton, in May of
13	2021, Meta employees including Michael Verdu, Anand Dass, and others discussed a possible
14	partnership with for Quest content. See PX57 (Dass
15	(Meta) Dep.) at 268:24-270:7, 270:15-271:9, 271:10-273:3.
16	305. And, in June 2021,
17	
18	PX125 (Meta) at 2
19	DX1003 (Meta) at 6
20	").
21	306. That working group also examined a PX125 (Meta) at 3.
22	307. Specifically, members of the working group noted that "
23	
24	Id.
25	308. The group examined possible acquisitions other than Supernatural as well. <i>Id.</i> at
26	4.
27	309. Internal development efforts were tabled when Meta decided to pursue an
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acquisition of Within in June 2021. Stojsavljevic (Meta) Hr'g Tr. at 164:20-165:11; PX341 (Meta) at 2.

- 310. When Meta ran into difficulties negotiating with Within in September of 2022, Meta communicated to Within that it was "intent in the space," and senior content organization executives resumed the examination of alternatives, including developing a Beat Saber fitness variant. *See Infra* Findings of Fact ¶¶ 319–322.
 - 311. Even after signing the deal, Meta has

PX438 (Meta) at 1; PX64

(Rabkin (Meta) 30(b)(6) Dep.) at 33:20-36:4.

- N. Instead of Building its Own VR Dedicated Fitness App, Meta Decides to Buy the Market Leader
- 312. Meta's strategy for market entry shifted when the company learned in approximately June 2021 that Within, the market leader in dedicated fitness, was discussing a potential acquisition with Apple Inc. ("Apple"). *Infra* Findings of Fact ¶¶ 313–314.
- 313. As Mr. Verdu, deal sponsor for the Within acquisition, explained, "Mark has been pushing us to go into fitness first-party, and we were in the midst of a strategy exercise to decide between our alternatives when Supernatural became in play (supposedly pursued by Apple), which accelerated everything." PX117 (Meta) at 1; *see also* PX55 (Verdu (Meta) Dep.) at 240:8-241:4; PX579 (Meta) at 1 ("we had a big analysis of the fitness app sector going on when this [Within acquisition] got sudden momentum because of another offer").
- 314. Meta feared that Apple would one day begin distributing Supernatural exclusively through its own platform and withdraw the app from the Quest Store. PX55 (Verdu (Meta) Dep.) at 242:22-243:3 ("I was quite afraid that over time, Apple would take Supernatural off of our platform and put it on their own.").
- 315. To date, Apple has never marketed any VR headset (versus Meta's marketing of several different models over nearly a decade) and has zero headset sales (versus over 10

million units	sold to consumers by Meta). PX55 (Verdu (Meta) Dep.) at 243:12-18; Milk
(Within) Hr'g	g Tr. at 762:3-4.
316.	
	PX74 (Casanova (Apple) Dep.) at 113:17-114:11; 119:2-5.
317.	Id
t 114:12-116	5:2; 117:13-118:1.
318.	In July 2021,
	PX62 (Milk (Within) Dep.) at 129:2-14; Singer (FTC Expert) Hr'g Tr. at
27:13-22.	
319.	Two months later, on September 15, 2021, however,
	PX66 (Rubin (Meta) Dep.) at 128:4-12; PX123 (Meta) at 1.
320.	In response, after seeking guidance from Mr. Zuckerberg, Meta employees
ommunicate	d to Within that Meta was "intent in the space," even if the Acquisition did not
roceed. PX1	23 (Meta) at 1; PX66 (Rubin (Meta) Dep.) at 158:3-162:22; PX560 (Meta) at 2.
321.	That included the option to build a fitness-focused app based on Beat Saber.
X123 (Meta) at 2; PX66 (Rubin (Meta) Dep.) at 162:18-22.
322.	Meta's threat worked: Within ultimately agreed to a purchase price of
PX54	4 (Bosworth (Meta) Dep.) at 210:17-21.
323.	The purchase price is more than the amount of money Within has
aised in its e	ntire existence, during which time it developed Supernatural and build it into
V	7R dedicated fitness app. PX2 (Meta) at 1; Bosworth (Meta) Hr'g Tr. at 1034:1-4;
inger (FTC	Expert) Hr'g Tr. at 350:167-351:12, ("They are paying—I'm not going to disclose
ne amount—	but an extreme multiple over their own internal valuations of what the company is
vorth");	in fact, the purchase price is
	Within raised in its
Di aintiee's I	POST-HEARING PROPOSED FINDINGS OF FACT AND CONC. OF LAW

1	Milk (Within) Hr'g Tr. at 681:8-14.
2	324. Meta could have built its own VR dedicated fitness app for less than the
3	it proposes to spend to acquire Within. PX54 (Bosworth) (Meta) Dep.) at 210:17-21.
4	325. Meta preferred to buy rather than build a VR dedicated fitness app because "we
5	do not have any competitive advantage building fitness apps for us to think that we would have
6	a success rate higher than the market success rate trying to build a new experience for the VR."
7	Rabkin (Meta) Hr'g Tr. at 858:19-859:11.
8	326. Meta would choose to buy another company rather than to build its own offering
9	unless its own plan to build is among "the best, best, best ideas." <i>Id.</i> at 832:14-833:22.
10	327. Buying Within, however, was not the only way Meta could have developed the
11	production capabilities and expertise needed to create a premium VR fitness experience.
12	Bosworth (Meta) Hr'g Tr. at 1037:6-10.
13	328. Of the 99 employees at Within at the time Meta and Within inked their deal, just
14	22 were involved in "content," which included producers and editors in addition to coaches and
15	choreographers; the remainder were split between engineers, the product team, the design team,
16	admin, marketing, and operations—i.e., talent Meta already has. PX2 (Meta) at 1.
17	329. Moreover, employees at Meta viewed Supernatural as "derivative" of Meta's
18	own Beat Saber product and viewed Within as a "low quality developer[]" when compared to
19	the existing talent already at Meta. PX561 (Meta) at 1; Stojsavljevic (Meta) Hr'g Tr. at 137:8-
20	17; 161:21-162:7; cf. Rabkin (Meta) Hr'g Tr. at 812:17-813: (explaining numerous reasons that
21	Meta wants to acquire Supernatural, none of which relate to innovativeness).
22	330.
23	
24	Zuckerberg (Meta) Hr'g Tr. 1283:18-1284:21; after all,
25	PX384 (Meta)
26	at 1; PX576at 1-2; PX55 (Verdu (Meta) Dep.) at 253:24-254:12.
27	331. Additionally, Meta has identified no synergies associated with the Acquisition:

1	337. Meta does tend to leave acquired content on other devices when that content has
2	already been available on those devices to avoid upsetting customers or harming its brand, but
3	porting content to new devices takes additional time and programming effort; in some cases, it
4	is impossible or requires significant changes. Stojsavljevic (Meta) Hr'g Tr. at 103:24-104:25.
5	338. Among other things, Meta management assesses the development time and
6	opportunity cost of porting applications to other VR headsets. PX 52 (Stojsavljevic (Meta)
7	Dep.) at 38:20-39:20.
8	O. VR Dedicated Fitness Is Characterized by High Barriers to Entry
9	339. According to Mr. Milk, Within's CEO, "
10	
11	" Milk (Within)
12	Hr'g Tr. at 719:4-720:8.
13	340. As Mr. Milk explained to an investor, Supernatural is
14	
15	. Id. at 717:19-718:5.
16	341. He added
17	<i>Id.</i> at 718:9-21.
18	342. Indeed, building a successful VR dedicated fitness app requires
19	
20	PX667 (Within) at 60; PX5 (Within) at 18
21	"); PX712 (Within) at 48
22	;
23	PX111 (Meta) at 1
24); Milk (Within) Hr'g Tr. at 717:19-720:8.
25	343. Building a high-quality entrant also requires "talent needed to create true triple
26	VR experiences," talent that Meta acknowledges is increasingly "scarce." PX118 (Meta) at 1;
27	see also PX527 (Meta) at 3 ("There is an ongoing arms race amongst platform owners
28	
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1	Now is the time to build a moat"); PX52 (Stojsavljevic (Meta) Dep.) at 115:24-116:5
2) & 119:9-
3	120:4 (
4	344. Moreover, as a general matter, developing applications for virtual reality
5	requires a unique skill set: failure to understand things like object interaction can break
6	immersion, and it thus takes time for developers to learn how to make users feel immersed in
7	VR. Stojsavljevic (Meta) Hr'g Tr. at 113:19-115:3.
8	345. It can take new developers months to learn core VR building blocks such as
9	hands and grabbing objects. <i>Id.</i> at 115:9-19.
10	346. One of the reasons that Meta has acquired first party studios is because of
11	concerns that, without the acquisitions, it would not have access to the top-level VR talent at
12	those studios. <i>Id.</i> at 114:23-115:13.
13	347. VR talent is scarce enough that
14	
15	Milk (Within) Hr'g Tr. at 713:22-25
16	
17);
18	see also PX767 (Within) at 2; PX305 (Meta) at 2-3 (
19	
20	
21).
22	348. In addition to scarce talent, inclusion on the Quest Store itself is a significant
23	barrier to entry over which Meta exercises total control. <i>Infra</i> Findings of Fact ¶¶ 349–377.
24	349. Developing a high-quality VR fitness app is a substantial undertaking in both
25	time and money, and may not be worthwhile if a company is shut out of the Quest platform; as a
26	result, Odders Lab pitched its fitness concept to Meta before even starting development, Garcia
27	(Odders Lab) Hr'g Tr. at 1073:5-13, and VirZoom stopped working with all other platforms, in
28	
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part, because	of its expectation that Meta would become the dominant platform, which proved
to be an accu	rate prediction. Janszen (VirZoom) Hr'g Tr. at 1124:1-2, 1151:22-1152:8, 1166:8-
25.	
350.	In addition to seeking store approval, the Odders Lab team also sought and
received fund	ling from Meta in order to build out their fitness app. Garcia (Odders Lab) Hr'g Tr.
at 1073:22-10	074:1.
351.	In total, Odders Lab has received
	<i>Id.</i> at 1103:25-1104:24.
352.	And taking this funding
	<i>Id.</i> at 1104:25-1105:15.
353.	Likewise, VirZoom, which is
	Janszen (VirZoom) Hr'g Tr. at 1163:8-15, 1164:5-1165:13.
354.	The Quest Store provides huge discoverability benefits to apps that are published
to it. Pruett (1	Meta) Hr'g Tr. at 223:5-8; PX53 (Pruett (Meta) Dep.) at 124:11-125:19.
355.	Prior to appearing on the Quest Store, apps must meet certain technical
requirements	·
Pruett (Meta)	Hr'g Tr. at 222:23-223:8; PX53 (Pruett (Meta) Dep.) at 31:4-17.
356.	That is because Meta
	. Pruett (Meta) Hr'g Tr. at 223:10-12; 233:25-
234:13; PX27	76 (Meta) at 1; see also PX53 (Pruett (Meta) Dep.) at 51:5-20 (
) & 59:11-60:23.
357.	Through "uniqueness," Meta is trying to evaluate whether apps are sufficiently
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differentiated from apps already in the Quest Store. Pruett (Meta) Hr'g Tr. at 236:17-237:6 (
).
. Pruett (Meta) Hr'g Tr.)
at 238:21-239:16; PX246 (Meta) at 1
).
359. When it comes to Meta's curation of the Quest Store,
Pruett (Meta) Hr'g Tr. at 232:20-
233:11 (
), 258:8-14 (the ability to make
"subjective or strategic decisions about content curation is the core of [Meta's] content
strategy"); Carmack (Meta) Hr'g Tr. at 573:7-9 (agreeing that there is "not a clearcut objective
set of rules for a third party app to get onto the Quest Store"); PX56 (Carmack (Meta) Dep.) at
19:17-20:8 (
); PX465 (Meta) at 3 ("we must not throw away the ability to make
subjective or strategic decisions about content curation. That is the core of our content
strategy.").
360. Not only is Meta's Quest Store review criteria subjective, it is ever-changing, as
Meta is tuning and tweaking the quality bar for reviewing third party applications all of the
time. Pruett (Meta) Hr'g Tr. at 246:13-19; see also id. at 248:19-249:7 (agreeing that "Meta's
decision in reviewing the same app could be different depending on when that application is
being reviewed").
361. Even in instances where Meta permits an app to list on the Quest Store, the
process is uncertain and cumbersome because "most applications require more than one
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1	submission." Carmack (Meta) Hr'g Tr. at 573:22-24; Pruett (Meta) Hr'g Tr. at 249:1-3 ("It's
2	fairly common for developers who didn't make it through the first time to come back and apply
3	again and make it through their second time.").
4	362.
5	. Pruett (Meta) Hr'g Tr. at
6	220:11-13.
7	363. Meta has a policy of not providing feedback to applications that are rejected
8	from the Quest Store. <i>Id.</i> at 281:18-21 (Meta will "generally not" provide detailed feedback to
9	developers explaining the basis for the decision to reject their app from the Quest Store);
10	Carmack (Meta) Hr'g Tr. at 574:5-16 ("There's no official format for feedback" to third party
11	developers about getting onto the Quest Store, and it has "been relayed" not to give
12	unsuccessful developers specific feedback).
13	364.
14	PX145 (Meta) at 1; see also Carmack (Meta) Hr'g Tr. at 571:9-12; PX56 (Carmack
15	(Meta) Dep. at 17:24-18:1
16).
17	365.
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19	
20	Pruett (Meta) Hr'g
21	Tr. at 231:4-8.
22	<i>Id.</i> at
23	229:1-4 (
24); see also id. at 230:1-2
25).
26	367. Meta's first-party developers also have access to headset systems and software
27	that third party developers do not. Carmack (Meta) Hr'g Tr. at 554:19-556:15).
28	
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1	368. Meta also controls which apps are placed in "featured slots" on the Quest Store.
2	Id. at 571:16-17.
3	369. Placement in featured slots improves an app's uptake and growth. Carmack
4	(Meta) Hr'g Tr. at 571:18-25 ("It's like getting an end cap at a physical store"); PX56 (Carmack
5	(Meta) Dep.) at 24:21-25:1
6	
7).
8	370. Meta does not ever feature App Lab apps in its Quest Store. Pruett (Meta) Hr'g
9	Tr. at 289:22-290:2.
10	371. Apps that do not make it into the Quest Store are much less likely to be
11	financially successful. <i>Id.</i> at 290:21-291:14 (agreeing that as a whole Quest Store apps make
12	more money than App Lab apps).
13	372. Users cannot browse for content on App Lab; they must explicitly search for the
14	names of specific apps. Carmack (Meta) Hr'g Tr. at 570:24-571:8; Pruett (Meta) Hr'g Tr. at
15	289:3-10.
16	373. In the aggregate, App Lab apps are lower quality than apps distributed through
17	the Quest Store; they are also more difficult for users to discover. Pruett (Meta) Hr'g Tr. at
18	288:6-11, 18-24.
19	374. Before downloading an App Lab app, users must click through a warning
20	message stating that Meta has not reviewed it. <i>Id.</i> at 289:11-18.
21	DX1100 at
22	66; Milk (Within) Hr'g Tr. at 721:3-12.
23	376. According to Mr. Milk, because Supernatural is available only on Meta's Quest
24	platform, Milk (Within)
25	Hr'g Tr. at 723:8-17.
26	377. When negotiating this deal,
27	
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); see also PX731 (Within) at 1
378.	"[N]etwork effects are when you get some kind of either like efficiency bene
or a growth b	penefit or something as more people join and invite others." PX63 (Rabkin (Me
Dep.) at 157:	5-8.
379.	Meta is actively aiming to achieve network effects in VR; according to Mr.
Rabkin, netw	ork effects are "one of the things that we're really trying to pursue right now as
make happen	. It would be really nice if more people joining made it more appealing for other
to join." Rab	kin (Meta) Hr'g Tr. at 844:23-845:3.
380.	VR dedicated fitness apps generally experience network effects—that is, the
notion that or	nce an app "build[s] up a big community of customers who are working out
together, it ci	reates value for those who are already in," and that "more people who join mak
the network 1	more valuable than it was." Singer (FTC Expert) Hr'g Tr. at 397:12-17).
381.	In particular, Supernatural's social features such as leaderboards, the ability t
follow friend	s' workouts through the mobile app, and its active Facebook community provide
value to exist	ting and new users that cannot be replicated without a large, existing network o
users. PX15	(Singer Rep.) at ¶ 91; PX51 (Cibula (Within 30(b)(6)) Dep.) at 89:14-90:4
(·
382.	Meta itself has recognized that VR fitness apps
PX135 (Meta	a) at 3
); PX57 (Dass (Meta) Dep.) at 64:8-18; PX136 (Meta) at
).

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reason to acquire it. Rabkin (Meta) Hr'g Tr. at 813:16-21 (Within "built not just a fitness product, VR, which is an insane challenge, but a community of people and was able to grow and manage it. We're like, ah, this fits in so well with what we want to do in the Meta[verse] group, and we want that community and we want those groups of people and we want people doing stuff.").

- 384. Enhancing the social aspects of VR fitness "is one of [Meta's] ideas for fitness. . . [E]nhancing the social aspect of things is a very common strategy we attempt with a lot of use cases because that is a thing, you know, that we think we're good at." *Id.* at 839:17-24.
 - 385. "[I]n terms of social, I think Meta are experts." *Id.* at 842:17.
- 386. One of Meta's "sweet spots" is "scaling an existing experience, growing it, making it more social, making it more metaverse." *Id.* at 860:14-16.

PLAINTIFF FEDERAL TRADE COMMISSION'S PROPOSED CONCLUSIONS OF LAW

- Section 7 of the Clayton Act prohibits mergers when "the effect of such acquisition may be substantially to lessen competition, or to tend to create a monopoly." 15
 U.S.C. § 18.
- 2. Section 7 analysis "necessarily focuses on 'probabilities, not certainties." St. Alphonsus Med. Ctr.-Nampa Inc. v. St. Luke's Health Sys. Ltd, 778 F.3d 775, 783 (9th Cir. 2015) (quoting Brown Shoe Co. v. United States, 370 U.S. 294, 323 (1962)).
- 3. This entails "a prediction of [the merger's] impact upon competitive conditions in the future; this is what is meant when it is said that the amended § 7 was intended to arrest anticompetitive tendencies in their incipiency." *Id.* (quoting *United States v. Phila. Nat'l Bank*, 374 U.S. 321, 362 (1963)).
- 4. Section 13(b) of the Federal Trade Commission Act, 15 U.S.C. § 53(b), authorizes the Federal Trade Commission, whenever it has reason to believe that a proposed merger is unlawful, to seek preliminary injunctive relief to prevent consummation of a merger until the Commission has the opportunity to adjudicate the merger's legality in an

administrative proceeding.

- 5. Specifically, Section 13(b) "allows a district court to grant the Commission a preliminary injunction '[u]pon a proper showing that, weighing the equities and considering the Commission's likelihood of ultimate success, such action would be in the public interest." *FTC* v. Affordable Media, LLC, 179 F.3d 1228, 1233 (9th Cir. 1999) (quoting 15 U.S.C. § 53(b)).
- 6. The statute "places a lighter burden on the Commission than that imposed on private litigants by the traditional equity standard." *FTC v. Warner Commc'ns Inc.*, 742 F.2d 1156, 1159 (9th Cir. 1984). *FTC v. Lancaster Colony Corp.*, 434 F. Supp. 1088, 1096 (S.D.N.Y. 1977) ("The equities to be weighed here are not the usual equities of private litigation but public equities.").
- 7. "Under this more lenient standard, 'a court must 1) determine the likelihood that the Commission will ultimately succeed on the merits and 2) balance the equities." *Affordable Media*, 179 F.3d at 1233 (quoting *Warner Commc'ns*, 742 F.2d at 1160); *accord FTC v. World Wide Factors, Ltd.*, 882 F.2d 344, 347 (9th Cir. 1989) ("Because irreparable injury must be presumed in a statutory enforcement action, the district court need only to find some chance of probable success on the merits.").
- 8. In weighing the equities under § 13(b), "public equities receive far greater weight." *Warner Commc'ns*, 742 F.2d at 1165.
- 9. Public equities include effective enforcement of the antitrust laws and ensuring the Commission's ability to obtain adequate relief if it ultimately prevails on the merits. *Id*.
- 10. Preliminary injunctions under § 13(b) "are meant to be readily available to preserve the status quo while the FTC develops its ultimate case." *FTC v. Whole Foods Mkt., Inc.*, 548 F.3d 1028, 1036 (D.C. Cir. 2008); *accord FTC v. Food Town Stores, Inc.*, 539 F.2d 1339, 1342 (4th Cir. 1976) ("The only purpose of a proceeding under § 13 is to preserve the status quo until FTC can perform its function.").
- 11. The Federal Trade Commission has shown that it is likely to succeed on the merits of its Section 7 challenge in the agency's administrative court, and the equities favor

issuing a preliminary injunction.

A. The Federal Trade Commission Is Likely to Succeed on the Merits of Its Section 7 Challenge

- 12. In evaluating the Federal Trade Commission's likelihood of success on the merits, courts consider the Federal Trade Commission's ability to prove that the effect of the Acquisition "may be substantially to lessen competition, or to tend to create a monopoly" in violation of Section 7 of the Clayton Act. Warner Commc'ns, 742 F.2d at 1160 (emphasis in original) ("It is well established that a section 7 violation is proven upon a showing of reasonable probability of anticompetitive effect"); accord United States v. Marine Bancorp., 418 U.S. 602, 622 (1974) ("[T]he proscription expressed in § 7 against mergers 'when a "tendency" toward monopoly or [a] "reasonable likelihood" of a substantial lessening of competition in the relevant market is shown,' applies alike to actual and potential-competition cases." (quoting United States v. Penn-Olin Chem. Co., 378 U.S. 158, 171 (1964)).
- 13. The Ninth Circuit has explained that the "Commission meets its burden if it 'raise[s] questions going to the merits so serious, substantial, difficult and doubtful as to make them fair ground for thorough investigation, study, deliberation and determination by the FTC in the first instance and ultimately by the Court of Appeals." Warner Commc'ns, 742 F.2d at 1162 (alteration in original) (quoting FTC v. Nat'l Tea Co., 603 F.2d 694, 698 (8th Cir. 1979)); see also Whole Foods Mkt., 548 F.3d at 1036 ("[A]t this preliminary phase [the FTC] just has to raise substantial doubts about a transaction. One may have such doubts without knowing exactly what arguments will eventually prevail.").
- 14. Because the issue is a "narrow one," the court "do[es] not resolve the conflicts in the evidence, compare concentration ratios and effects on competition in other cases, or undertake an extensive analysis of the antitrust issues." *Warner Commc'ns*, 742 F.2d at 1164; see also California v. Am. Stores Co., 872 F.2d 837, 841 (9th Cir. 1989) ("At this stage, we do not resolve conflicts in the evidence."), rev'd on other grounds, California v. Am. Stores Co., 495 U.S. 271 (1990); FTC v. H.J. Heinz Co., 246 F.3d 708, 714 (D.C. Cir. 2001) (the Federal

Trade Commission "is not required to *establish* that the proposed merger would in fact violate Section 7" (emphasis in original)); *FTC v. CCC Holdings Inc.*, 605 F. Supp. 2d 26, 67 (D.D.C. 2009) ("the district court's task is not 'to determine whether the antitrust laws have been or are about to be violated. That adjudicatory function is vested in the FTC in the first instance" (quoting *Whole Foods Mkt.*, 548 F.3d at 1042 (Tatel, J., concurring))).

- 15. Rather, this Court's task is only to "measure the probability that, after an administrative hearing . . . the Commission will succeed in proving that the effect of the [proposed] merger 'may be substantially to lessen competition, or to tend to create a monopoly' in violation of section 7." *H.J. Heinz*, 246 F.3d at 714 (quoting 15 U.S.C. § 18).
- 16. The Supreme Court has recognized that Section 7 of the Clayton Act prohibits the elimination of potential competition as well as present competition. *E.g., Marine Bancorp.*, 418 U.S. at 623-25; *United States v. Falstaff Brewing Corp.*, 410 U.S. 526, 531-32 (1973); *see also Dehoog v. Anhesuer-Busch InBev SA/NV*, 899 F.3d 758, 764 (9th Cir. 2018) (citing approvingly to *Falstaff*, 410 U.S. 526 (1973); *United States v. Penn-Olin Chem. Co.*, 378 U.S. 158 (1964); and *United States v. El Paso Nat. Gas Co.*, 376 U.S. 651 (1964)).
- 17. Courts have recognized two distinct types of anticompetitive harm that can occur from mergers that eliminate potential competition in a concentrated relevant market.
- 18. First, a merger can lessen "actual potential competition," when it eliminates a firm that is reasonably probable to enter the relevant market through alternative means absent the illegal acquisition. *See United States v. Phillips Petrol. Co.*, 367 F. Supp. 1226, 1232 (C.D. Cal. 1973) (describing the harm to competition that may arise from the loss of an "entry effect"), *aff'd, Phillips Petrol. Co. v. United States*, 418 U.S. 906 (1974); *see also Yamaha Motor Co. Ltd. v. FTC*, 657 F.2d 971, 977-79 (8th Cir. 1981).
- 19. Second, a merger can lessen "perceived potential competition" when it eliminates "a potential competitor on the fringe of the market with likely influence on existing competition." *Falstaff Brewing*, 410 U.S. at 533-34; *accord Marine Bancorp.*, 418 U.S. at 624-25 ("the Court has interpreted § 7 as encompassing what is commonly known as the 'wings

effect'—the *probability* that the acquiring firm prompted premerger procompetitive effects within the target market by being perceived by the existing firms in that market as likely to enter de novo." (citing *Falstaff*, 410 U.S. at 531-37) (emphasis added)).

- 20. Where, as here, an acquisition eliminates both a perceived potential competitor and an actual potential competitor, the "combination renders the anticompetitive consequences of the acquisition even greater." *Phillips Petrol.*, 367 F. Supp. at 1234.
- 21. The Acquisition is likely to result in anticompetitive harm by lessening competition in the VR Dedicated Fitness App market, where Within's Supernatural is the leading firm in a highly concentrated market. *Infra* Conclusions of Law ¶¶ 70–94.
- 22. The proposed Acquisition will preclude Meta's reasonably probable entry through alternative means, thereby denying consumers the benefit of adding another effective competitor to the market. *Infra* Conclusions of Law ¶¶ 96–132; *see Yamaha Motor*, 657 F.2d at 977-79; *Phillips Petrol. Co.*, 367 F. Supp. at 1232.
- 23. The proposed Acquisition will also eliminate the current procompetitive influence on existing competition that Meta's threat of potential entry provides from the edge of the market. *Infra* Conclusions of Law ¶¶ 133–151; *Marine Bancorp.*, 418 U.S. at 624-25; *Falstaff Brewing*, 410 U.S. at 533-34; *Phillips Petrol.*, 367 F. Supp. at 1232-34.
- 24. Few firms are comparably situated to Meta with respect to entry into the VR Dedicated Fitness App market, and new entry or expansion is unlikely to be sufficient to offset the competitive harm of the proposed Acquisition. *Infra* Conclusions of Law at ¶¶ 152–157; *see also, e.g., United States v. Bazaarvoice, Inc.*, No. 13-cv-00133, 2014 WL 203966, at *71 (N.D. Cal. Jan. 8, 2014) (noting that it is the defendants' burden at trial to show that alternative entry will be timely, likely, and sufficient in magnitude and character to deter or counteract the competitive effects of concern).

1. The Relevant Market Is the Sale of VR Dedicated Fitness Apps in the United States

- 25. "Determination of the relevant product and geographic markets is a necessary predicate to deciding whether a merger contravenes the Clayton Act." *St. Alphonsus*, 778 F.3d at 783.
- 26. This is true whether the merger is alleged to have anticompetitive effects on existing competition or on potential competition. *Marine Bancorp.*, 418 U.S. at 618.
- 27. "[A] relevant market is the group of sellers or producers who have the actual or potential ability to deprive each other of significant levels of business." *St. Alphonsus*, 778 F.3d at 784 (9th Cir. 2015) (internal quotation marks omitted).
- 28. "Relevant markets need not have precise metes and bounds." *Pac. Steel Grp. v. Comm. Metals Co.*, No. 20-CV-07683, 2022 WL 1225030, at *7 (N.D. Cal. Apr. 26, 2022); accord United States v. Bertelsmann SE & CO. KGaA, 2022 WL 16949715, at *18 (D.D.C. Nov. 15, 2022) ("Market definition is more art than science, and it is critical to remember that the goal of the exercise is to enable and facilitate the examination of competitive effects.") (citation omitted).
- 29. Even where broad markets exist that contain all "sellers [that] must, at some level, compete with one another . . . the mere fact that a firm may be termed a competitor in the overall market place does not necessarily require that it be included in the relevant market for antitrust purposes." FTC v. Staples, Inc. 970 F. Supp. 1066, 1074 (D.D.C. 1997); accord FTC v. Peabody Energy Corp., 492 F. Supp. 3d 865, 886 (E.D. Mo. 2020) ("It is indisputable on the record in this case that coal competes with natural gas and renewables in a broader energy market. Still, the FTC has presented more than sufficient evidence that there is also a distinct competitive market among SPRB coal producers that satisfies the applicable criteria for market definition." (emphasis in original)); cf. L.A. Mem. Coliseum Comm'n v. Nat'l Football League, 726 F.2d 1381, 1393 (9th Cir. 1984).
 - 30. "Customers often confront a range of possible substitutes Market shares of

different products in narrowly defined markets are more likely to capture the relative competitive significance of these products, and often more accurately reflect competition between close substitutes." *See* U.S. Dep't of Justice & Federal Trade Commission Horizontal Merger Guidelines ("Guidelines") (2010) § 4.

- 31. As such, "[w]ell-defined submarkets may exist which, in themselves, constitute product markets for antitrust purposes." *Staples, Inc.*, 970 F. Supp. at 1074 (quoting *Brown Shoe Co. v. United States*, 370 U.S. 294, 325 (1962).
- 32. The Court must examine "each economically significant submarket [i.e., relevant antitrust market] to determine if there is a reasonable probability that the merger will substantially lessen competition. If such probability is found to exist, the merger is proscribed." *Staples*, 970 F. Supp. at 1075 (quoting *Brown Shoe*, 370 U.S. at 294).
- 33. In defining relevant product markets (a term of art in antitrust law), courts often evaluate "such practical indicia as industry or public recognition of the [relevant market] as a separate economic entity, the product's peculiar characteristics and uses, unique production facilities, distinct customers, distinct prices, sensitivity to price changes, and specialized vendors." *Brown Shoe*, 370 U.S. at 325.
- 34. Courts in this District have repeatedly acknowledged that a relevant antitrust market can be defined by reference to *Brown Shoe*'s practical indicia. *E.g.*, *Klein v. Facebook*, *Inc.*, 580 F. Supp. 3d 743, 764-67 (N.D. Cal. 2022) ("A plaintiff may allege a distinct submarket for a product by alleging 'practical indicia' of the submarket. . . . [A] plaintiff may support its product market definition by pleading facts which show 'industry or public recognition of the [market] as a separate economic entity, the product's peculiar characteristics and uses, unique production facilities, distinct customers, distinct prices, sensitivity to price changes, and specialized vendors." (quoting *Brown Shoe*, 370 U.S. at 325)); *Dang v. San Francisco Forty Niners*, 964 F. Supp. 2d 1097, 1107 (N.D. Cal. 2013).
- 35. These practical indicia were meant as "practical aids in identifying zones of actual or potential competition rather than with the view that their presence or absence would dispose,

in talismanic fashion, of the submarket issue." *Int'l Tel. & Telegraph Corp. v. Gen. Tel. & Elec. Corp.*, 518 F.2d 913, 932 (9th Cir. 1975); *see also Staples*, 970 F. Supp. at 1075 ("Since the Court described these factors as 'practical indicia' rather than requirements, subsequent cases have found that submarkets can exist even if only some of these factors are present.").

- 36. Both the *Brown Shoe* practical indicia and the Hypothetical Monopolist Test ("HMT") demonstrate that VR dedicated fitness apps, like Within's Supernatural app, are an appropriate relevant product market in which to evaluate the Acquisition.
- 37. VR dedicated fitness apps are designed so users can exercise through a structured physical workout in a virtual setting anywhere they choose to use their highly portable VR headset. *Supra* Findings of Fact ¶¶ 123–152.
- 38. Typical characteristics of VR dedicated fitness apps include workouts designed by trainers or fitness experts, gameplay designed to maximize exertion and physical movement for the purpose of exercise, calorie tracking, and classes or other active coaching. *Supra* Findings of Fact ¶¶ 126–133.
- 39. In this way, VR dedicated fitness apps feature "peculiar characteristics and uses" that distinguish them from other VR apps. *See Brown Shoe*, 370 U.S. at 325.
- 40. They are also distinct from other VR apps in other ways consistent with the *Brown Shoe* factors: They typically offer distinct prices as compared to other VR apps specifically, a subscription-based pricing model as compared to a one-time fee, and their distinct customer base is differentiated from other apps in terms of both age (older) and gender (more female). *Supra* Findings of Fact ¶¶ 134–135.
- 41. Thus, it is not surprising that *Meta and Within themselves* recognize a separate and distinct category of VR dedicated fitness apps. *Supra* Findings of Fact ¶ 123.
- 42. Meta's own analyses show that when users leave one of the two largest VR dedicated fitness apps, the other tends to gain users; in other words, Meta's own real-world data analysis shows that users leaving one VR dedicated fitness app largely gravitate towards a different VR dedicated fitness app. *See supra* Findings of Fact ¶ 164.

- 43. Moreover, functional, technological, and price differences consistent with the *Brown Shoe* practical indicia show that non-VR at-home smart fitness solutions and at-home exercise products are distinct from VR dedicated fitness apps.
- 44. Unlike other at-home smart fitness solutions and exercise products, VR dedicated fitness apps enable users to exercise in fully immersive, 360-degree environments; they are also fully portable and take up little space. *Supra* Findings of Fact ¶¶ 138–145.
- 45. They are also far less expensive; a Peloton bicycle costs over \$1,000, with an additional \$44 per month subscription cost, compared to \$399 for Meta's Quest 2 plus \$18.99 per month for Supernatural. PX15 (Singer Rep.) ¶ 68; *supra* Findings of Fact ¶ 147.
- 46. Meta's and Within's own documents show that VR dedicated fitness apps primarily target a different type of consumer—specifically, VR enthusiasts with less fitness experience—than traditional gym-goers or users of other at-home smart fitness products. *Supra* Findings of Fact ¶¶ 149–150.
- 47. Lastly, the VR Dedicated Fitness App market satisfies the hypothetical monopolist test ("HMT"), further confirming it is an appropriate relevant product market in which to evaluate the effects of the Acquisition. PX15 (Singer Rep.) ¶¶ 29-35, 49-69.
- 48. This test asks whether a hypothetical monopolist could profitably impose at least a small but significant and nontransitory increase in price ("SSNIP") on a collection of products, including at least one product sold by one of the merging firms. *See* Guidelines § 4.1.2.
- 49. The Federal Trade Commission's expert Dr. Hal Singer performed a quantitative analysis—specifically, a critical loss implementation of the HMT—to independently corroborate Dr. Singer's own qualitative market analysis, PX15 § I.A; Singer (FTC Expert) Hr'g Tr. at 356:8-357:4, and to test whether a particular set of candidate products could be used to analyze the VR Dedicated Fitness App market. Singer (FTC Expert) Hr'g Tr. at 359:20-360:19.
 - 50. The list of candidate VR dedicated fitness products Dr. Singer tested in his HMT

- came from a white paper submitted by Meta during the Federal Trade Commission's investigation of the merger. PX15 (Singer Rep.) at ¶ 46, n.85 (citing PX1, Appendix A); Singer (FTC Expert) Hr'g Tr. at 361:5-12.
- 51. Because prices for the candidate VR dedicated fitness apps identified by Meta to the Federal Trade Commission have almost never changed, Dr. Singer conducted a consumer survey to estimate the price sensitivities necessary to carry out an HMT. Singer (FTC Expert) Hr'g Tr. at 365:2-20.
- 52. His survey showed that over 95% of Supernatural users would keep their Supernatural subscriptions in response to a SSNIP on Supernatural or a set of VR dedicated fitness apps identified by Meta and Within to the Federal Trade Commission as VR apps that compete with Supernatural. PX15 (Singer Rep.) at ¶¶ 63-64, Table 1.
- 53. These results, combined with the margins for VR dedicated fitness products, indicate that a hypothetical monopolist could profitably impose a SSNIP on VR dedicated fitness apps, and therefore that VR dedicated fitness apps constitute an appropriate and relevant antitrust market. *Id.* at ¶¶ 49-69.
- 54. The analysis of the *Brown Shoe* practical indicia and the results of Dr. Singer's HMT are each independent and sufficient bases to conclude that the relevant market for evaluating this transaction is the market for VR dedicated fitness apps. *Brown Shoe Co.*, 370 U.S. at 320-21 ("Congress neither adopted nor rejected specifically any particular tests for measuring the relevant markets, either as defined in terms of product or in terms of geographic locus of competition, within which the anti-competitive effects of a merger were to be judged.")
- 55. The *Brown Shoe* analysis does not rely on Dr. Singer's survey or expert testimony. Singer (FTC Expert) Hr'g Tr. at 540:8-21.
- 56. The United States is an appropriate relevant geographic market in which to assess the probable effects of the proposed Acquisition. PX15 (Singer Rep.) at ¶¶ 70-73; Carlton (Defendants' Expert) Hr'g Tr. at 1448:19-22.
 - 57. "The relevant geographic market is the area of effective competition where

quotation marks omitted).

58. As the Supreme Court has explained, the relevant geographic market must "correspond to the commercial realities of the industry" as determined by a "pragmatic, factual,

approach." Brown Shoe, 370 U.S. at 336.

buyers can turn for alternate sources of supply." St. Alphonsus, 778 F.3d at 784 (internal

- 59. While "technology knows no borders," the "area of effective competition" is the United States because the "realities of selling" differ across national borders including differences in regulatory regimes, intellectual property licensing, languages, and availability. *Bazaarvoice, Inc.*, 2014 WL 203966, at **27, 68.
- 60. Due to limitations on its music licenses, Supernatural is currently available only in the U.S. and Canada; Meta Quest headsets also have a dynamic region lock, such that a user's geolocation determines content availability and prices. *Supra* Findings of Fact ¶¶ 19; Milk (Within) Hr'g Tr. at 671:7-9.
- 61. In addition, not all headsets are sold in all countries; headsets sold abroad and any associated proprietary content are effectively unavailable to United States consumers unless and until the headset's manufacturer chooses to make that headset available in the United States. *See supra* Findings of Fact ¶ 50.a.
- 62. Given these commercial realities, the United States is an appropriate relevant geographic market in which to analyze the likely effects of the Acquisition.

2. The Acquisition May Substantially Lessen Competition in the VR Dedicated Fitness App Market

- 63. Section 7 of the Clayton Act prohibits transactions where "the effect of such acquisition may be substantially to lessen competition, or tend to create a monopoly" regardless of whether the competition eliminated is present or potential. *E.g.*, *Falstaff Brewing*, 410 U.S. at 527 n.1 (quoting 15 U.S.C. § 18).
- 64. "The potential-competition doctrine has meaning only as applied to concentrated markets." *Marine Bancorp.*, 418 U.S. at 630.

- 65. "If the target market performs as a competitive market in traditional antitrust terms, the participants in the market will have no occasion to fashion their behavior to take into account the presence of a potential entrant." *Id*.
- 66. For a theory of anticompetitive harm based on actual potential competition, the government must additionally show that the merger would eliminate a firm that is reasonably probable to enter the relevant market through alternative means, leading to deconcentration or other procompetitive effects in the market. *See, e.g.*, *Phillips Petrol.*, 367 F. Supp. at 1239 (determining Phillips was a likely unilateral entrant based on its size, resources, capability, and motivation with respect to entry into an "adjacent attractive market"); *BOC Int'l Ltd. v. FTC*, 557 F.2d 24, 29 n.7 (2d Cir. 1977) (requiring only a reasonable probability that the acquiring firm would enter the relevant market). ¹
- 67. For perceived potential competition, the question is whether the merger would eliminate "a potential competitor on the fringe of the market with likely influence on existing competition." *Falstaff Brewing*, 410 U.S. at 533-34.
- 68. That the market may be an emerging one poised for rapid growth might make it particularly susceptible to antitrust harm. *Bazaarvoice*, 2014 WL 203966 at *76 ("rapid technological progress may provide a climate favorable to increased concentration of market power rather than the opposite.") (quoting *Greyhound Computer Corp.*, *Inc. v. Int'l Bus*.

¹ That Federal Trade Commission counsel in one case almost a decade ago suggested an additional element requiring that the acquiring firm be one of only a few entrants does not mean that is the settled law. In that case, critically, the court assumed, without deciding, the validity of the actual potential competition doctrine and did not reach the issue of whether any individual element was required. *See FTC v. Steris*, 133 F. Supp. 3d 962, 966 (N.D. Ohio 2015). In any event, the barriers to entry in this case demonstrate that only few firms—and, in particular, Meta—are uniquely positioned to enter with a successful product to challenge the market leader, Supernatural. *See infra* Conclusions of Law 152–157.

Machines Corp., 559 F.2d 488, 497 (9th Cir. 1977)); In re Union Carbide Corp., 59 F.T.C. 614, 1961 WL 65409, at *35 (F.T.C. Sept. 25, 1961) ("Any lessening of competition is therefore doubly harmful in a new industry since its inevitable effect is to slow down the growth rate of the industry.").

- 69. "Nascency" of a market does not insulate its leaders from antitrust scrutiny: "suffice it to say that it would be inimical to the purpose of the Sherman Act to allow monopolists free reign to squash nascent, albeit unproven, competitors at will—particularly in industries marked by rapid technological advance and frequent paradigm shifts." *United States v. Microsoft Corp.*, 253 F.3d 34, 79 (D.C. Cir. 2001).
 - a) The VR Dedicated Fitness App Market Is Concentrated
- 70. The VR Dedicated Fitness App market more than satisfies the requirement of a concentrated market.
- 71. The government can make a prima facie showing that a market is concentrated based on market-share statistics alone. *Marine Bancorp.*, 418 U.S at 631; *Tenneco, Inc. v. FTC*, 689 F.2d 346, 352 (2d Cir. 1982) ("Four-firm concentration was over 90% and two-firm concentration was over 77%. . . . This fact alone 'established a prima facie case that the . . . market was a candidate for the potential-competition doctrine." (quoting *Marine Bancorp.*, 418 U.S. at 631)).
- 72. In *Marine Bancorp*., for example, the Supreme Court found that the Government carried its burden at trial by offering evidence that three firms controlled 92 percent of the relevant market, a figure high enough to conclude that the market was "oligopolistic." *Marine Bancorp.*, 418 U.S. at 631-32.
- 73. Similarly, in *Yamaha Motor*, the Eighth Circuit affirmed the Commission's finding, after a trial on the merits, that the relevant market was "oligopolistic" where the "top four firms had 98.6% of the dollar volume" and the top two firms "controlled 85.0% of the market by dollar volume." 657 F.2d at 979.
 - 74. In Marine Bancorp., the Supreme Court further explained that the potential

competition "doctrine 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. If the target market performs as a competitive market in traditional antitrust terms, the participants in the market will have no occasion to fashion their behavior to take into account the presence of a potential entrant." 418 U.S. at 630.

- 75. This statement reflected economic understanding of the time, in which market concentration was understood to manifest mainly through price and output coordination; in the ensuing decades, however, antitrust law and economics have increasingly recognized other harms from limited competition, such as harm to innovation and harm from eliminating direct (unilateral) competition between market participants. *Guidelines* § 6 (unilateral effects) & § 6.4 (innovation and product variety: "curtailment of innovation could take the form of reduced incentive to continue with an existing product-development effort or reduced incentive to initiate development of new products").
- 76. Indeed, mergers can lessen competition in a variety of ways besides raising prices or restricting output. *See, e.g., United States v. AT&T, Inc.*, 916 F.3d 1029, 1045 (D.C. Cir. 2019) ("[M]ergers can create harms beyond higher prices for consumers, including decreased product quality and reduced innovation."); *United States v. H & R Block, Inc.*, 833 F. Supp. 2d 36, 82 (D.D.C. 2011 (finding merger could yield multiple anticompetitive effects, including limited innovation); *see also United States v. Bertelsmann SE & CO. KGaA*, 2022 WL 16949715, at *30 (D.D.C. Nov. 15, 2022) (publishers' merger could lead to worse contract terms being offered to authors).
- 77. Importantly, Section 7 of the Clayton Act—the statute at issue in *Marine Bancorp*. and under which the Federal Trade Commission has brought its challenge to the proposed Acquisition—does *not* require a showing of actual anticompetitive behavior. *FTC v. Procter & Gamble Co.*, 386 U.S. 568, 577 (1967) ("If the enforcement of § 7 turned on the existence of actual anticompetitive practices, the congressional policy of thwarting such

practices in their incipiency would be frustrated."); *cf. Brown Shoe Co.*, 370 U.S. at 328-329 ("the tests for measuring the legality of any particular economic arrangement under the Clayton Act are to be less stringent than those used in applying the Sherman Act.").

- 78. That is because Section 7 prohibits acquisitions affecting commerce where "the effect of such acquisition *may be* substantially to lessen competition, or tend to create a monopoly." 15 U.S.C. § 18 (emphasis added).
- 79. In other words, there is no requirement under Section 7 to prove conspiracy or unlawful behavior in the target market. *Compare Marine Bancorp*. 418 U.S. at 630-31, *with* 15 U.S.C. § 1 (Section 1 of the Sherman prohibits contracts, combinations, or conspiracies in restraint of trade and carries criminal penalties) & *Bell Atlantic Corp. v. Twombly*, 550 U.S. 544, 552 (2007) ("parallel business conduct, taken alone, [does] not state a claim under Section 1").
- 80. A common metric for evaluating market concentration is the Herfindahl-Hirschman Index ("HHI"). *St. Alphonsus*, 778 F.3d at 786; *Optronic Techs., Inc. v. Ningbo Sunny Elec. Co.*, 414 F. Supp. 3d 1256, 1263-64 (N.D. Cal. 2019).
- 81. HHI figures are calculated by summing the squares of the market share of each market participant. *Guidelines* § 5.3.
- 82. "HHI is a measure of industry concentration that has been widely accepted by courts considering antitrust merger and acquisition actions." *Optronic Techs., Inc.*, 414 F. Supp. 3d at 1263.
- 83. According to the *Guidelines*, a market is considered "moderately concentrated" when the HHI exceeds 1500, and "highly concentrated" when the HHI exceeds 2500. *Id*.
- 84. The level of market concentration in the VR Dedicated Fitness App market greatly exceeds what is required for the potential competition doctrine to apply; the market HHI is 6,917 based on the list of VR apps that compete with Supernatural provided by Meta and Within during the Federal Trade Commission's investigation, and 6,148 based on the apps in the "Fitness & Wellness" section of the Meta Quest Store. PX15 (Singer Rep.) ¶ 76.

- 85. Two applications—of the market's revenues. PX15 (Singer Rep.) ¶¶ 75-76, Table 2-A; *see also, e.g., Yamaha Motor*, 657 F.2d at 974 (top four firms accounted for 98.6 percent and top two for 85 percent of the relevant market); *Phillips Petrol.*, 367 F. Supp. at 1253 (top four accounted for 58 percent).
- 86. The presence or entry of smaller VR dedicated fitness apps outside the two lists relied on by the Federal Trade Commission's expert Dr. Singer—or even outside the core group of apps commonly identified by market participants as competing against Supernatural—does not meaningfully alter the concentration of the market for VR dedicated fitness apps. *See FTC v. Procter & Gamble Co.*, 386 U.S. 568, 578 (1967) (finding that the market at issue was oligopolistic despite "the existence of some 200 fringe firms"); *supra* Findings of Fact ¶¶ 159–160.
- 87. The Guidelines favor the use of revenues to measure market shares, because "[r]evenues in the relevant market tend to be the best measure of attractiveness to customers." Guidelines § 5.2.
- 88. While the Guidelines do allow for the use of alternate metrics for market concentration, there is no compelling reason for deviating from revenues in this case; here, there is no "new, much less expensive product [that] substantially erodes the revenues earned by" Supernatural. *Id.*; PX16 (Singer Rebuttal Rep.) ¶ 127, Table 2; PDX1 at 14.
- 89. Based on the *Brown Shoe* indicia, rhythm apps and active sport games such as Gym Class are not appropriate candidate products for the VR Dedicated Fitness App market. *Supra* Findings of Fact ¶¶ 126–133.
 - 90.
- 91. In any event, even when measuring shares by usage and using a broader set of potential products, three apps—

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Other Means Absent the Acquisition, Leading to Procompetitive Effects

- 96. The Supreme Court has stated that "[t]wo essential preconditions must exist before it is possible to resolve whether the [actual potential competition] theory, if proved, establishes a violation of § 7": (1) the acquiring firm has "available feasible means" for entering the market and (2) "that those means offer a substantial likelihood of ultimately producing deconcentration of that market or other significant procompetitive effects." *Marine Bancorp.*, 418 U.S. at 633.
- 97. Subsequent courts analyzing claims based on a theory of harm to actual potential competition have interpreted *Marine Bancorp*. to require a showing that there is a reasonable probability the acquiring firm would have entered the market but for the proposed acquisition, and that its entry would have had pro-competitive effects. *E.g.*, *Tenneco*, 689 F.2d at 352; *BOC Int'l*, 557 F.2d at 29 n.7.
- 98. A firm "must be considered to be a significant potential entrant" "where credible objective evidence shows the basic economic facts of the acquiring company's overall size, resources, capability, and motivation with respect to entry into an adjacent attractive market involving a line of commerce in which the firm is already heavily engaged." *Phillips Petrol.*, 367 F. Supp. at 1239.
- 99. Importantly, the inquiry focuses on *objective* evidence. *Id.* (subjective evidence, like testimony from company executives about their intentions, "while relevant and entitled to consideration, cannot be determinative in evaluating the legality of the acquisition under § 7. If strong objective evidence points to a contrary conclusion, the objective evidence must prevail"); *see also Falstaff Brewing*, 410 U.S. at 546 ("subjective evidence should be preferred only when the objective evidence is weak or contradictory.") (Marshall, J., concurring).
- 100. As the Supreme Court has explained, "[p]otential competition cannot be put to a subjective test." *Penn-Olin Chem. Co.*, 378 U.S. at 174.
- 101. The Court thus has cautioned that a requirement of evidence such as specific intent to enter a market absent an acquisition, would heighten the required showing under

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Section 7. *Id.* at 175 ("Unless we are going to require subjective evidence, this array of probability certainly reaches the prima facie stage. As we have indicated, to require more would be to read the statutory requirement of reasonable probability into a requirement of certainty. This we will not do.").

102. In particular, courts should limit the role of "testimony by company officials as

- to the firm's future intent" in actual potential competition cases where objective evidence of a firm's capabilities and economic self-interest is available. Falstaff Brewing, 410 U.S. at 566-68 (Marshall, J., concurring) ("The reasons for so limiting the role of subjective evidence are not difficult to discern. . . . it is in the very nature of such evidence that in the usual case it is not worthy of credit. First, any statement of future intent will be inherently self-serving. A defendant in a § 7 case such as this wishes to enter the market by acquisition and its managers know that its ability to do so depends upon whether it can convince a court that it would not have entered de novo if entry by acquisition were prevented. It is thus strongly in management's interest to represent that it has no intention of entering de novo "); Phillips Petrol., 367 F. Supp. at 1238 ("It will thus be in a company's self-interest to present subjective evidence of a lack of any intent to enter the market unilaterally and of a lack of any effect on the competitive behavior of firms in the market arising from the company's presence on the edge of the market."); cf. Chicago Bridge & Iron Co. N.V. v. FTC, 534 F.3d 410, 435 (5th Cir. 2008) (evidence "deemed of limited value whenever such evidence could arguably be subject to manipulation"); United States v. Aetna, Inc., 240 F. Supp. 3d 1, 88 (D.D.C. 2017) (actions taken to improve litigation position should be discounted).
- 103. The standard is one of reasonable probability given that "[u]nequivocal proof that an acquiring firm actually would have entered de novo but for a merger is rarely available." *Marine Bancorp.*, 418 U.S. at 624; *accord BOC Int'l Ltd*, 557 F.2d at 29 n.7 ("In view of the ample express authority, including congressional authority, in favor of a reasonable probability standard . . . we decline to adopt any more stringent standard here."); *see also Yamaha Motor*, 657 F.2d at 977-79 (finding that Yamaha "probably" would have entered the relevant market

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absent the joint venture at issue); Rep. of Texas Corp. v. Bd. of Governors, 649 F.2d 1026, 1047 (5th Cir. 1981); United States v. Siemens Corp., 621 F.2d 499, 506-07 (2d Cir. 1980).

- 104. The Supreme Court has repeatedly endorsed the reasonable-probability-of-entry standard and cautioned against heightening it. Marine Bancorp., 418 U.S. at 641; Penn-Olin, 378 U.S. at 175.
- 105. A few scattered instances exist in which courts have applied a "clear proof" standard, but these outlier cases have involved only actual potential competition. FTC v. Atl. Richfield Co., 549 F.2d 289, 294 (4th Cir. 1977) (suggesting a novel requirement of "unequivocal proof" could apply "in a case where only actual potential competition is claimed") (emphasis added); In re B.A.T. Indus., Ltd., 1984 WL 565384, at *1-2 (F.T.C. Dec. 17, 1984) (applying a "clear proof" standard in a case that only alleged actual potential competition).
- 106. This case, however, involves both actual and perceived potential competition. See Phillips Petrol., 367 F. Supp. at 1234 (elimination of both perceived and actual potential competition "renders the anticompetitive consequences of the acquisition even greater").
- 107. In Altria Group, Inc., a case currently on appeal before the Commission, Chief Administrative Law Judge Chappell did not apply a "clear proof" standard; Judge Chappell instead found that Complaint Counsel in that case had failed to meet its burden under either standard and declined to decide between the two. 173 FTC 240, 317 n.34, 318-19 (F.T.C. 2022).
- 108. "[T]he loss of competition 'which is sufficiently probable and imminent' is the concern of § 7." Marine Bancorp., 418 U.S. at 623 n.22 (quoting United States v. Continental Can Co., 378 U.S. 441, 458 (1964)).
- A court, however, "need not decide whether the probable entry of the acquiring firm must be 'imminent' in an actual potential entrant situation." BOC Int'l Ltd., 557 F.2d at 29; accord Bertlesmann SE & CO. KGaA, 2022 WL 16949715, at *10 n.14 ("Although defendants quote from *United States v. Marine Bancorp*. for the proposition that a merger's anticompetitive effects must also be 'imminent' to violate the Clayton Act, the full quotation

from that case is that the 'loss of competition which is *sufficiently* probable and imminent' is the concern of § 7." (emphasis in original) (citations omitted)).

- 110. Objective evidence regarding Meta's "overall size, resources, capability, and motivation with respect to entry" demonstrate a reasonable probability that Meta would have entered the VR Dedicated Fitness App market but for the Acquisition. *See Phillips Petrol.* 367 F. Supp. at 1226 (listing factors).
- 111. Meta is a massive technology company with ample resources to develop a VR dedicated fitness app on its own, either by creating a new app from scratch; by adding dedicated fitness features, like trainers and coaching, to an existing app like Beat Saber; or by acquiring a generalist studio that could supplement Meta's formidable first-party studios in creating such an app. *Supra* Findings of Fact ¶¶ 254–290.
- 112. Mr. Zuckerberg has made VR and the metaverse the cornerstone of Meta's future, and Meta has spent tens of billions of dollars and hired thousands of engineers to achieve his vision. *Supra* Findings of Fact ¶¶ 21–34, 107–111.
- 113. In addition to ample resources, Meta also has the capabilities to develop a VR dedicated fitness app. *Supra* Findings of Fact ¶¶ 66–82, 323–330.
- 114. As Mr. Rabkin explained, "We could definitely build an application" for VR dedicated fitness. Rabkin (Meta) Hr'g Tr. at 815:5-9.
- 115. In just the last three years, Meta has acquired nine successful VR development studios with a track record of building, launching, and supporting VR apps. *Supra* Findings of Fact ¶ 65.
- 116. The company has successfully developed its own VR applications, including the productivity app Horizon Workrooms, Horizon Worlds (which, notably, Meta elected to build), and the gaming app Dead and Buried, among others. *Supra* Findings of Fact ¶¶ 67, 72–78.
- 117. The first-party studios that Meta owns have created at least twelve successful VR apps, some of which require regular content releases. *Supra* Findings of Fact ¶ 65.

- 126. Given its unique advantages and capabilities, Meta's independent entry into the VR Dedicated Fitness App market—derailed by the Acquisition—would have provided U.S. customers an innovative alternative likely to result in significant deconcentration and procompetitive benefits, including by, among other things, introducing a strong, well-established new rival to Supernatural and FitXR. *See, e.g., Yamaha Motor*, 657 F.2d at 979 ("Any new entrant of Yamaha's stature would have had an obvious procompetitive effect leading to some deconcentration."); *BOC Int'l, Ltd.*, 557 F.2d at 27 ("[T]ypically in an oligopolistic situation the entry of a large firm as a new competitor has significant procompetitive effects.").
- 127. By way of contrast, as the Supreme Court has recognized, a proposed acquisition that substitutes a "powerful acquiring firm" for a "smaller, but already dominant, firm" in a concentrated industry "may substantially reduce the competitive structure of the industry by raising entry barriers and by dissuading the smaller firms from aggressively competing." *Procter & Gamble Co.*, 386 U.S. at 578.
- 128. Even more so than the defendant in *Yamaha*, Meta is a well-established international firm "with considerable financial strength" and "considerable marketing experience in the United States," *Yamaha Motor*, 657 F.2d at 979, such that its entry "would have had an obvious procompetitive effect" in the VR Dedicated Fitness App market. *See id.*
- 129. This entry would increase consumer choice, increase innovation, spur additional competition to attract the best talent, and yield a host of other competitive benefits.
- 130. But if allowed to proceed, the Acquisition would simply swap an already "powerful acquiring firm" for the current market leader, potentially entrenching its existing position. *See Procter & Gamble Co.*, 386 U.S. 568 at 578.
- 131. Crucially, Meta's independent entry would add a new player to the mix while also maintaining the independent presence and competitive vitality of Supernatural, the most successful VR dedicated fitness app to date.
 - 132. Consumers will lose the benefit of this competition if the Acquisition proceeds.

Presence on the Edge of the Market Likely Benefits Competition The proposed Acquisition may also substantially lessen competition through the

c) Within Reasonably Perceived Meta as a Potential Entrant, and Meta's

- 133. The proposed Acquisition may also substantially lessen competition through the elimination of Meta as a perceived potential competitor on the edge of the relevant market with a likely procompetitive influence on competition. *See, e.g., Phillips Petrol.*, 367 F. Supp. at 1232-34.
- 134. Probabilistic proof of "likely influence" on existing competitors is sufficient; proof of "actual influence" is not necessary. *Falstaff Brewing*, 410 U.S. at 534 & n.13; *see also Marine Bancorp.*, 418 U.S. at 624 ("[T]he principal focus of the doctrine is on the likely effects of the premerger position of the acquiring firm on the fringe of the target market."); *United States v. Black & Decker Mfg. Co.*, 430 F. Supp. 729, 773 (D. Md. 1976) ("the government need not introduce evidence of actual market response"); *Phillips Petrol.*, 367 F. Supp. at 1257 ("[T]he objective evidence demonstrates the substantially of the procompetitive effects exerted by Phillips from its position on the edge of the market prior to the acquisition.").
- 135. The "same facts" that a district court must assess in determining a Clayton Act violation based on actual potential competition are "probative of [a] violation of § 7 through loss of a procompetitive on-the-fringe influence." *Falstaff Brewing*, 410 U.S. at 534 n.13; *accord Phillips Petrol.*, 367 F. Supp. at 1255.
- what [the Acquiring company's] internal company decisions were, but whether, given its financial capabilities and conditions in [the relevant] market, it would be reasonable to consider it a potential entrant in that market." *Falstaff Brewing*, 410 U.S. at 533; *see also Phillips Petrol*. 367 F. Supp. at 1255 (noting that evidence of a likely influence on existing competition "may be shown by direct evidence as well as by inference from objective economic facts" including "objective evidence of capability and motivation").
- 137. Notably, in a perceived potential competition case, a merger can lessen competition "even if it were assumed that the potential competitor would not actually have

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entered the market." *Phillips Petrol.*, 367 F. Supp. at 1234.

- Here, not only was it "reasonable" for Within to consider Meta a potential 138. entrant; Within's ordinary-course documents reveal that it in fact perceived Meta—and in particular Meta's wildly popular Beat Saber app—as "a potential competitor on the fringe of the market." Supra Findings of Fact ¶¶ 213–225; see Falstaff Brewing, 410 U.S. at 534.
- Moreover, Meta documents indicate that other VR dedicated fitness app companies perceived it as a potential entrant into the VR Dedicated Fitness App market. Supra Findings of Fact ¶ 226.
- 140. In September 2021, Within attempted to negotiate a purchase price, in response to which Meta executives communicated to Within that Meta was "intent in the space," even if the Acquisition did not proceed; not long thereafter, taking Meta's words to less than it had been heart, Within agreed to a purchase price that was seeking. Supra Findings of Fact ¶¶ 319–322.
- Irrespective of Within's subjective beliefs, objective evidence further supports 141. that it was reasonable for Within to perceive Meta as a potential entrant. See Phillips Petrol., 367 F. Supp. at 1255.
- 142. Meta's Beat Saber, the leading application on the Meta Quest Store, employs the same mechanics as Supernatural, and is widely recognized as providing incidental fitness benefits. Supra Findings of Fact ¶¶ 191–195.
- Further, Meta took steps to expand Beat Saber into the dedicated fitness space by releasing "FitBeat" in April 2020. *Supra* Findings of Fact ¶¶ 207–210.
- 144. Meta's presence on the edge of the VR Dedicated Fitness App market caused more than just the requisite "likely influence"; it provided actual procompetitive benefits that will be eliminated if the Acquisition is consummated. See Falstaff Brewing, 410 U.S. at 534; Phillips Petrol., 367 F. Supp. at 1232-34.
- 145. Within acknowledges that it must innovate and continually improve its product to distance itself from potential competition. Supra Findings of Fact ¶ 228.

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4	147.			
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6	PX615 (Within) at 8-9.			
7	148.			
8				
9	PX712 (Within) at 48.			
10	149. That Within did take into account potential entry confirms that the VR Dedicated			
11	Fitness App market is the type of market suited for the potential competition doctrine. <i>Marine</i>			
12	Bancorp., 418 U.S. at 631 ("If the target market performs as a competitive market in traditional			
13	antitrust terms, the participants in the market will have no occasion to fashion their behavior to			
14	take into account the presence of a potential entrant." (emphasis added)).			
15	150. In sum, Meta's position as a potential entrant on the edge of the market has a			
16	likely beneficial effect on competition that will be lost if Meta acquires Within. See Falstaff			
17	Brewing, 410 U.S. at 534; Phillips Petrol., 367 F. Supp. at 1232-34.			
18	151. This loss of perceived potential competition, coupled with the loss of actual			
19	potential competition, "renders the anticompetitive consequences of the acquisition even			
20	greater." Phillips Petrol., 367 F. Supp. at 1234.			
21	3. Defendants Have Failed to Rebut the Federal Trade Commission's Case			
22	152. Defendants cannot demonstrate that entry by others will be timely, likely, and			
23	sufficient, see Bazaarvoice, 2014 WL 203966, at *71, or that there are cognizable merger-			
24	specific efficiencies, to prevent the Acquisition's anticompetitive effects.			
25	153. Courts have repeatedly found that capital and labor costs, time, software			
26	development resources, and required minimum scale can all constitute barriers to entry. See,			
27	e.g., FTC v. Sysco Corp., 113 F. Supp. 3d 1, 80-81 (D.D.C. 2015) (finding that high capital and			

1	labor costs can be entry barriers); FTC v. CCC Holdings, Inc., 605 F. Supp. 2d. 26,52 (D.D.C.			
2	2009) (complexity of developing software and establishing a reputation constituted entry			
3	barriers); United States v. United Tote, Inc., 768 F. Supp. 1064, 1075 (D. Del. 1991) (time and			
4	effort to develop a competing product and gain customer acceptance constituted entry barriers)			
5	Phillips Petrol., 367 F. Supp. at 1254 (market at issue had "extremely high barriers to entry"			
6	given the costs that would be incurred to build from scratch, the number of firms in the industr			
7	and those firms' access to capital).			
8	154. The VR Dedicated Fitness App market is characterized by high barriers to entry.			
9	Supra Findings of Fact ¶¶ 339–386.			
10	155. Building a successful VR dedicated fitness app requires			
11	, and talent			
12	that Meta acknowledges is increasingly scarce. <i>Supra</i> Findings of Fact ¶¶ 343–347.			
13	156. Indeed, Meta's (mistaken) concerns that Apple may take Supernatural off of			
14	Meta's platform are an acknowledgement that it is difficult to build a successful VR dedicated			
15	fitness app. PX55 (Verdu (Meta) Dep.) at 242:3-243:3 (discussing Meta's concern about a			
16	possible acquisition by Apple and its desire to ensure that Supernatural remained available on			
17	Quest); Bosworth (Meta) Hr'g Tr. at 1008:5-25.			
18	157. Moreover, inclusion on the Quest Store itself and other advantages of owning the			
19	VR platform are significant barriers to entry over which Meta exercises total control. <i>Supra</i>			
20	Findings of Fact at ¶¶ 349–377; see also PX50 (Zuckerberg (Meta) Dep.) at 154:20-21 (
21); Garcia (Odders Lab) Hr'g Tr. 1102:16-23			
22				
23				
24				
25				
26				
27	158. The "Supreme Court has never expressly approved an efficiencies defense to a §			

7 claim," and the Ninth Circuit has stated that it "remain[s] skeptical about the efficiencies defense in general and about its scope in particular." *St. Alphonsus*, 778 F.3d at 788-89, 790.

- 159. In any event, to the extent such a defense is valid at all, Defendants would need to show "merger-specificity and verifiability" for any and all of their claimed efficiencies.

 United States v. Anthem, 855 F.3d 345, 355-56 (D.C. Cir. 2017)
- 160. No meaningful efficiencies defense has even been presented here: Meta's Chief Technology Officer, Mr. Bosworth, admitted: "I don't think we've identified any real synergies here. This is not -- this wasn't a synergistic acquisition in that way. . . . I don't know of any cost savings that have been identified" PX54 (Bosworth (Meta) Dep. at 160:21-161:13); accord Bosworth (Meta) Hr'g Tr. at 1049:19-21; 1053:6-22; DX1212 (Rubin 30(b)(6) (Meta) Dep.) at 18:25-19:22, 23:1-11.
- 161. Meta's economic expert testified that he had not independently verified or assessed the merger-specificity of any of Meta's claimed efficiencies here. Carlton (Defendants' Expert) Hr'g Tr. at 1443:17-25.
- 162. Further, following its prior acquisitions, businesses are integrated into Meta, and Meta has represented for every VR acquisition that it does not track

PX17 (Meta

Responses and Objections to FTC Interrogatory No. 1) at 8-12.

163. International music licensing is not efficiency in the relevant geographic market and should not be considered. *See* Guidelines § 10 n.14; *see also Anthem*, 855 F.3d at 363-64 (rejecting savings claims that, among other "analytic flaws," were "unmoored from the actual market at issue").

B. The Equities Support a Preliminary Injunction

164. "The second step in deciding whether to grant a preliminary injunction is to balance the equities." *Warner Commc'ns*, 742 F.2d at 1165.

1	165.	If the Commission has shown a likelihood of success, "a countershowing of	
2	private equities alone does not justify denial of a preliminary injunction." Id.		
3	166.	The "principal public equity" favoring a preliminary injunction is "the public	
4	interest in effective enforcement of the antitrust laws." H.J. Heinz, 246 F.3d at 726.		
5	167.	Without preliminary relief, the Commission may face the "daunting and	
6	potentially impossible task" of "unscrambling the eggs" if the proposed Acquisition is		
7	ultimately deemed unlawful. FTC v. Peabody Energy Corp., 492 F. Supp. 3d 865, 918 (E.D.		
8	Mo. 2020).		
9	168.	As such, "[n]o court has denied relief to the FTC in a 13(b) proceeding in which	
10	the FTC has demonstrated a likelihood of success on the merits." FTC v. ProMedica Health Sys		
11	Inc, 2011 WL 1219281, at *60 (N.D. Ohio Mar. 29, 2011).		
12	169.	Private equities do not support denial of a preliminary injunction. Dkt. No. 173	
13	(Order Granting in Part FTC's Motion to Strike) at 10 ("private equities alone do not outweigh		
14	the Commission's showing of likelihood of ultimate success." (quoting Warner, 742 F2d at		
15	1165)).		
16	170.	Within's survival is not in peril if the Court grants a preliminary injunction	
17	because		
18		" PX632 (Within) at 1.	
19	171.	In addition, the termination provisions of the merger agreement provide for a	
20		PX6 (Agreement and Plan of Merger) at	
21	75, § 7.3(a).		
22	172.	There is nothing in the merger agreement that	
23		See PX6 at 73-74, §§ 7.1, 7.1(b) (
24).	
25	173.	In fact,	
26		See PX6 at 73-74, §§ 7.1, 7.1(c)(ii)	
27			
28			
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(amphasis addad))
(emphasis added)). 174. Moreover, the agreement itself is contingent on obtaining approval from
applicable antitrust regulatory authorities or
PX6 (Agreement and Plan of Merger) at 65 § 5.1(c).
175.
Koblin (Within) Hr'g Tr. at 715:12-716:6.
176. Defendants have not advanced the "failing company defense." See Olin Corp. v.
FTC, 986 F.2d 1295, 1306-07 (9th Cir. 1993).
177. In any event, a "company invoking the defense has the burden of showing that its
resources [were] so depleted and the prospect of rehabilitation so remote that it faced the grave
probability of a business failure and further that it tried and failed to merge with a company
other than the acquiring one." Id. (internal quotation marks and citations omitted) (alteration in
original).
178. Defendants do not meet that burden here: Within's executives testified that the
Koblin (Within) Hr'g Tr. at 663:6-11;
664:24-665:5 ; Milk (Within) Hr'g Tr. at 758:18-25 .
179. The administrative trial in this proceeding is set to begin on January 19, 2023. In
the Matter of Meta Platforms, Inc., Mark Zuckerberg, and Within Unlimited, Inc., Dkt. No.
9411 (Scheduling Order, Sept. 2, 2022) at 4 ² .
180. Discovery in the administrative proceeding is complete but for the depositions of
² On December 22, 2022, the parties received correspondence from the Office of the
Administrative Law Judge directing them to meet and confer regarding filing a joint motion with
the Commission requesting expedited review and seeking a continuance or extension of the trial
date until two weeks after a ruling by this Court in the preliminary injunction proceeding.
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experts. *Id* at 3. 181. Here, the equities support entry of a preliminary injunction pending resolution of the administrative proceedings.

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