

Sound XR(Sound Extended Reality) for Immersive Play

5.1ch Sound XR Chair

5.1 ch Sound











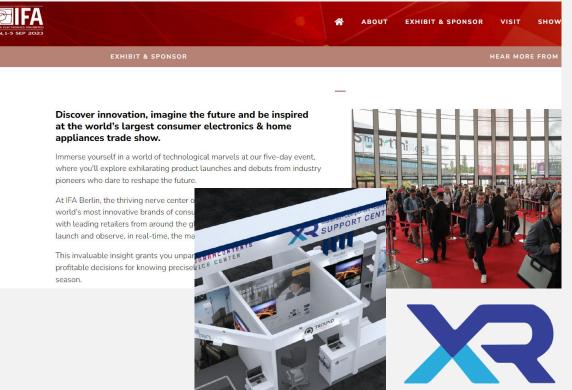




Official Launching the Sound XR at IFA 2023

sponsored by Development Center for XR Materials-Parts-Device

(1st.~ 5th.Sept. 2023, Jeonbuk Technopark, Booth# H27-150, IFA Next, IFA, Messe Berlin, Messedamm 22, 14055 Berlin, Germany)





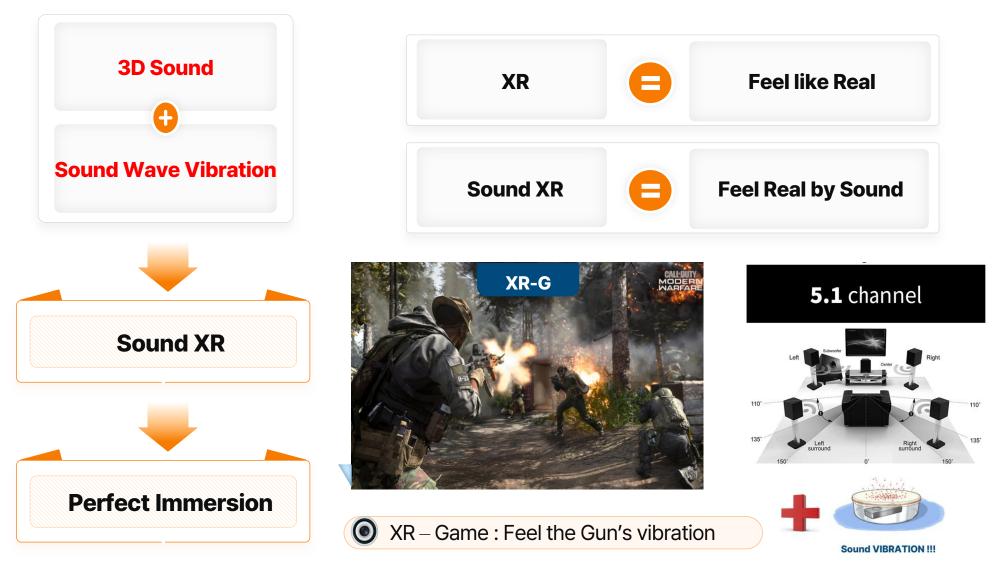
IFA Next

This zone brings together the world's top innovators, research institutes, promising startups, and forward-thinking businesses. Discover how next-gen tech is transforming everyday consumer living — and meet some of the companies making that happen at the Startup Hub. Find out More





What is Sound XR (Sound Extended Reality)?





Financial Plan

Core Competitiveness

Chapter 01. Market Needs



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Opinion Political Op-Eds Social Commentary

Opinion: How Apple's Vision Pro could change the world

"

Opinion by Rizwan Virk Published 9:11 AM EDT, Fri June 9, 2023



META / APPLE / WWDC 2023

Here's what Mark Zuckerberg thinks about Apple's Vision Pro

/ Zuckerberg headset unve with Meta em that it 'could future of com not the one t

By Alex Heath, a deputy editor a covered the tech industry for ow Jun 9, 2023, 4:16 AM GMT+9 |



Mark Zuckerberg wearing the Meta Quest 3. Image: Meta

Apple, Meta dreams True XR. Sound XR completes the dream.





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Business Strate

Financial Plan

Summary

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Chapter 01. Market Needs



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Opinion Political Op-Eds Social Commentary

Opinion: How Apple's Vision Pro could change the world

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Imagine. iChair of Apple, Oculus Chair of Meta

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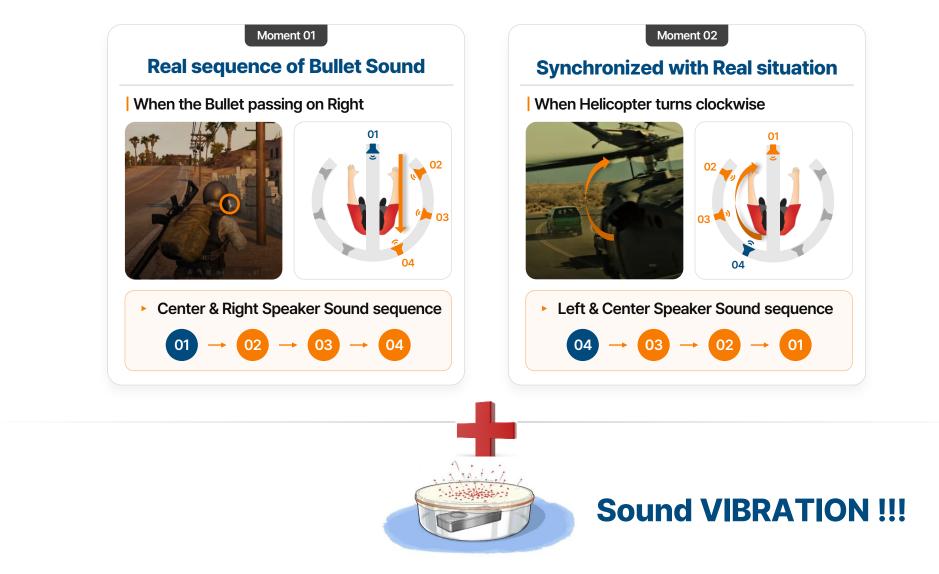
Financial Plan

Core Competitiveness

Chapter 01. Market Needs



* For Player, For Immersive Play





Core Competitiveness

CEO

Business Strategy

Financial Plan

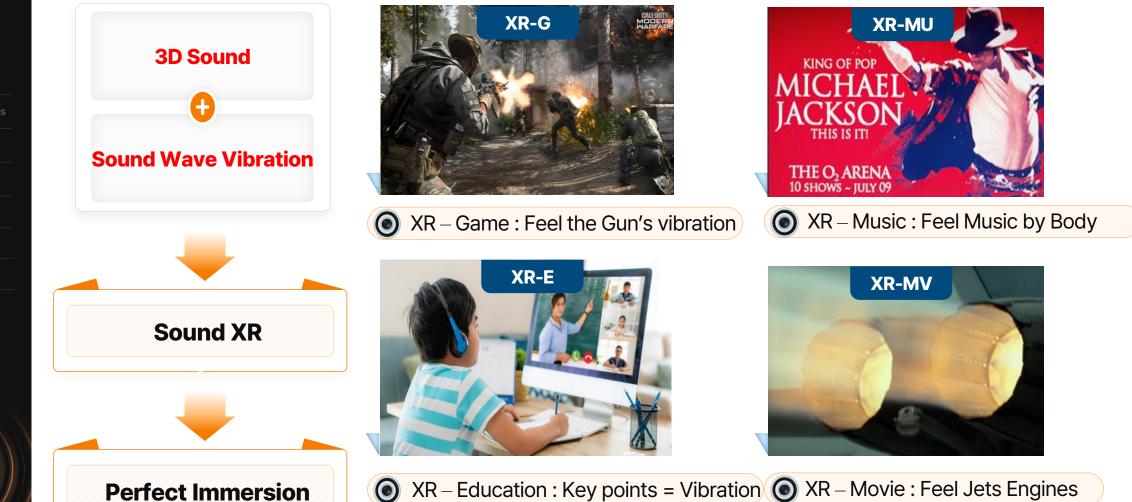
Summary

Appendix

Chapter 01. Market Needs



⁶ Immersion is not something you feel. Now, you can 'own' it

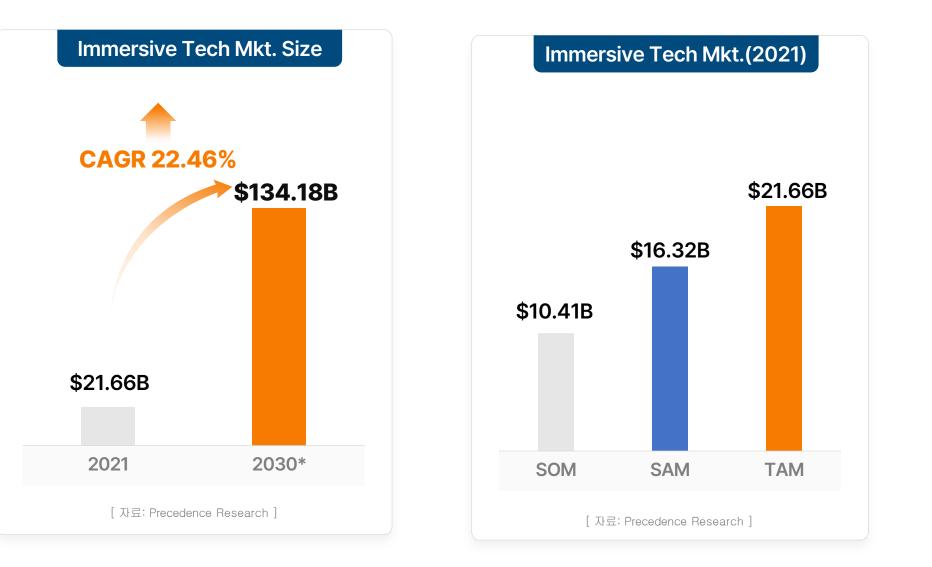




Chapter 01. Market Needs



Immersive Technology Market



Market Needs

Core Competitiveness

CEO

Business Str

Financial Plan

Summary

Appendix





Chapter 02. Core Competitiveness



"REAL 5.1ch Surround Sound + Vibration Sound XR Chair"

Market Needs

Core Competitiveness

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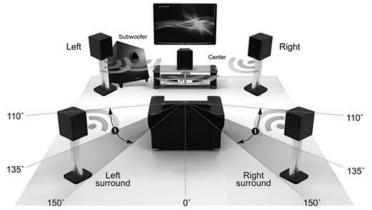
Business Strategy

Financial Plan

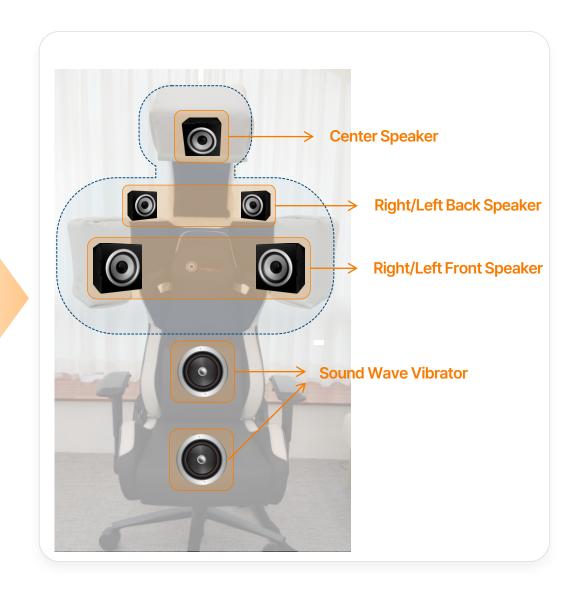
Summary

Appendix

5.1 channel



(image from Denon)





Core Competitiveness

Business Strategy

Chapter 02. **Core Competitiveness**



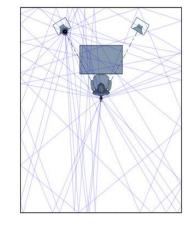


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66 **,** Why Sound XR is so Special

1. NO Reflected Sound, just DIRECT Sound! World First Direct Sound System (Powerful, Original)

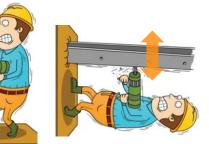




Summary

2. 2way direction(Up-Down, Front-Back) Direct Contact Sound Wave Vibration, not via Air





3. Powerful Sound inside, Not too noisy outside (Anti-Noise structure)







Chapter 02. Core Competitiveness



Why Sound XR is so Special

4. True Spatial Audio, Space Creation by Sound XR
= 1 Sound XR Chair = Create your Private Listening Room

5.1 channel

* 1 Room value = USD 81,000

*1 Room = 14m (Ministry of Land & Transport, 2022)

* Average dimension of Apartment = 74.6 m (Statistical office, 2022)

* Average price of Apartment = USD 430,000(KB Bank, 2022)





Market Needs

Core Competitiveness

CEO

Business Strategy

Financial Plan

Summary

Appendix



Core Competitiveness

CEO

Business Strategy

Financial Plan

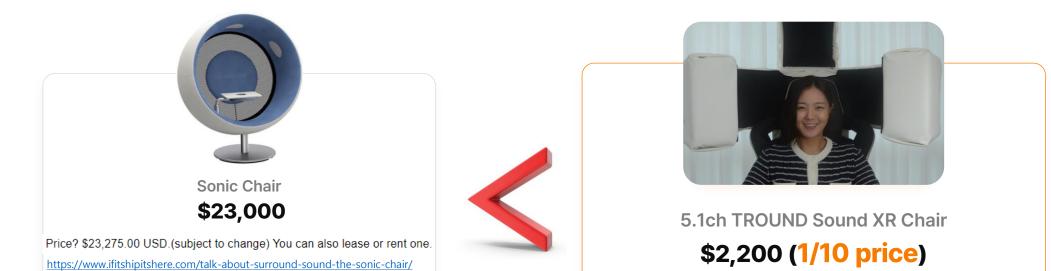
Summary

Appendix





" Design, Function, and Price "



	Sonic Chair	TROUND Sound XR Chair	
Sound	Side + Up/Down direction	Side + UP/Down + Front + Back	
Anti-Noise	Back + Side	Back + Side	
Vibration	No	Back rest + Seat Vibration	
Mobility	Fixed Position	Free direction	



Core Competitiveness

- CEO
- **Business Strateg**
- Financial Plan
- Summary
- Appendix

Passion on Audio (30s Sound Chair Patents)

JB Park I 박 재 범 (●) www.linkedin.com/in/troundjb

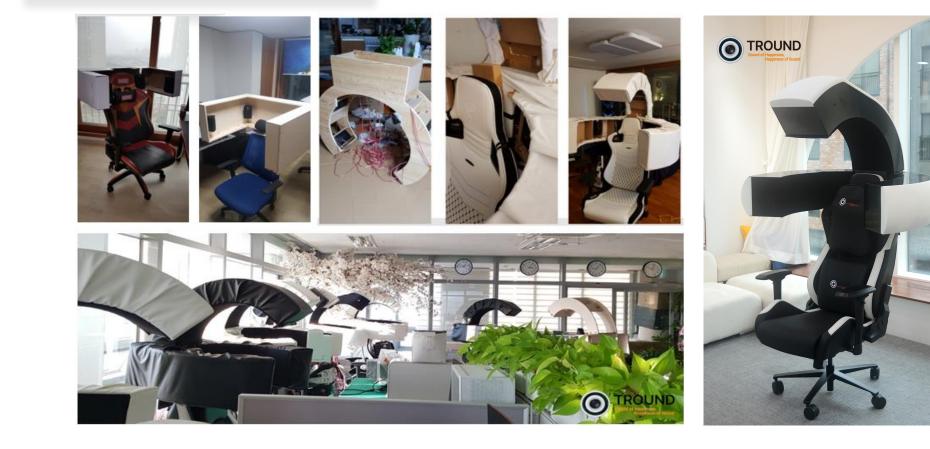
"

- SpringerNature Managing Director (Nature Journals)
- World Largest Sound Chair Patents [30s]

Chapter 03.

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Financial Plan



World Best

Chapter 03.

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Canada

USA

21 Registered Sound Chair Patents

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Patents, Worldwide.

30s Sound Chair Patents, Worldwide "

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NO	Status	Country	Dates	Title	Owner	Reg. numbers
1	Registered	Korea	2020.09.02	Multi Channel Sound Chair	TROUND	10-2153707
2	Registered	Korea	2023.01.19	Chair with Display Device	TROUND	10-2020-0185831
3	Registered	Korea	2021.11.26	Multi Channel Sound Chair	JB Park	1023336950000
4	Registered	Korea	2022.02.03	Multi Channel Sound Chair	JB Park	10-2359742
5	Registered	Korea	2022.01.26	Multi Channel Sound Chair	JB Park	10-2357554
6	Registered	Korea	2022.01.13	Multi Channel Sound Chair	JB Park	10-2352425
7	Registered	Korea	2022.03.22	Multi Channel Sound Chair	JB Park	10-2378865
8	Registered	Korea	2022.03.29	Multi Channel Sound Chair	JB Park	10-2020-0082897
9	Registered	Korea	2022.07.25	Multi Channel Sound Chair	JB Park	10-2020-0108977
10	Registered	Korea	2022.06.02	Multi Channel Sound Chair	JB Park	10-2406224
11	Registered	Korea	2022.11.11	MOVABLE CHAIR PROVIDED WITH CABLE PROTECTING MEANS	JB Park	10-2020-0138346
12	Reviewing	Korea	2021.08.19	Multi Channel Sound Chair	JB Park	10-2021-0109345
13	Reviewing	Korea	2022.08.09	Chairbase and its Chair	TROUND	10-2022-0099176
14	Registered	Taiwan	2021.06.25	Multi Channel Sound Chair	JB Park	109135771
15	Registered	China	2021.03.30	Multi Channel Sound Chair	JB Park	12821572
16	Registered	Canada	2022.07.20	Multi Channel Sound Chair	TROUND	21351P0001CA01
17	Registered	Japan	2022.08.04	Multi Channel Sound Chair	JB Park	2020-137029
18	Registered	PCT	2021.12.27	Chair with Display Device	TROUND	PCT/KR2021/019920
19	Reviewing	USA	2020.08.04	Multi Channel Sound Chair	JB Park	16/984,684
20	Registered	USA	2023.07.17	MOVABLE CHAIR PROVIDED WITH CABLE PROTECTING MEANS	TROUND	17731491
21	Registered	USA	2023.05.09	Multi Channel Sound Chair	TROUND	17/821,332
22	Reviewing	USA	2022.08.18	Multi Channel Sound Chair	TROUND	17/820,776
23	Registered	USA	2023.07.26	Multi Channel Sound Chair	TROUND	18/045,990
24	Registered	USA	2023.07.26	Multi Channel Sound Chair	TROUND	18/155,956
25	Reviewing	USA	2023.01.11	Multi Channel Sound Chair	TROUND	18/153,196
26	Reviewing	USA	2023.01.11	Wireless Speaker Chair	TROUND	18/153,176
27	Registered	China	2023.03.28	Multi Channel Sound Chair	TROUND	2023032802054960
28	Reviewing	China	2023.01.31	Multi Channel Sound Chair	TROUND	PCT/KR2021/010465
29	Reviewing	China	2023.01.31	Multi Channel Sound Chair	TROUND	PCT/KR2021/011071
30	Reviewing	China	2023.01.30	Wireless Speaker Chair	TROUND	PCT/KR2021/010468
31	Reviewing	EU	2020.10.22	Multi Channel Sound Chair	TROUND	20203396.5





CEO

Financial Plan





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Chapter 03.

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19 'TROUND' Trademarks, Worldwide



NO	Status	Country	Dates (Y.M.D)	Title	Class (Products)	Owner	Reg. numbers
1	Registered	Korea	2022.03.22	트라운드	#09(Speaker), #20(Chair), #35(Chair Sales)	TROUND	4018476830000
2	Registered	Korea	2022.03.22	TROUND	#09(Speaker), #20(Chair), #35(Chair Sales)	TROUND	4018476840000
3	Registered	Korea	2021.02.01	트라운드	#35(Beverage Sales)	JB Park	4016884370000
4	Registered	Korea	2021.02.01	TROUND	#35(Beverage Sales)	JB Park	4016884380000
5	Registered	Korea	2021.03.26	트라운드	#41(PC Café)	JB Park	4017084710000
6	Registered	Korea	2021.03.26	TROUND	#41(PC Café)	JB Park	4017084720000
7	Registered	Korea	2022.01.26	LOGO	#20(Chair)	JB Park	4018262040000
8	Registered	Korea	2022.03.22	LOGO	#09(Speaker)	JB Park	4018476850000
9	Registered	Korea	2022.03.22	LOGO	#35(Chair Sales)	JB Park	4018476860000
10	Registered	Korea	2022.03.22	LOGO	#41(PC Café)	JB Park	4018476870000
11	Reviewing	Korea	2022.11.15	트라운드	#09 (Cables)	TROUND	7020220001531
12	Reviewing	Korea	2022.11.15	TROUND	#09 (Cables)	TROUND	7020220001532
13	Reviewing	EU	2022.12.05	TROUND	#20(Chair)	TROUND	018804460
14	Reviewing	Indonesia	2022.12.08	TROUND	#20(Chair)	TROUND	DID2022101013
15	Reviewing	Mexico	2022.12.08	TROUND	#20(Chair)	TROUND	411629
16	Reviewing	India	2022.12.07	TROUND	#20(Chair)	TROUND	5712940
17	Registered	Japan	2023.06.27	TROUND	#20(Chair)	TROUND	2022-140407
18	Reviewing	USA	2022.12.06	TROUND	#20(Chair)	TROUND	97705942
19	Reviewing	China	2022.12.07	TROUND	#20(Chair)	TROUND	68740179
20	Reviewing	Korea	2023.05.11	Sound XR	#20(Chair)	TROUND	0083307

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Chapter 03.

Patents

(3 of 30s)

Multi Channel Sound Chair

Multi Channel Sound Chair

Wireless Sound Chair

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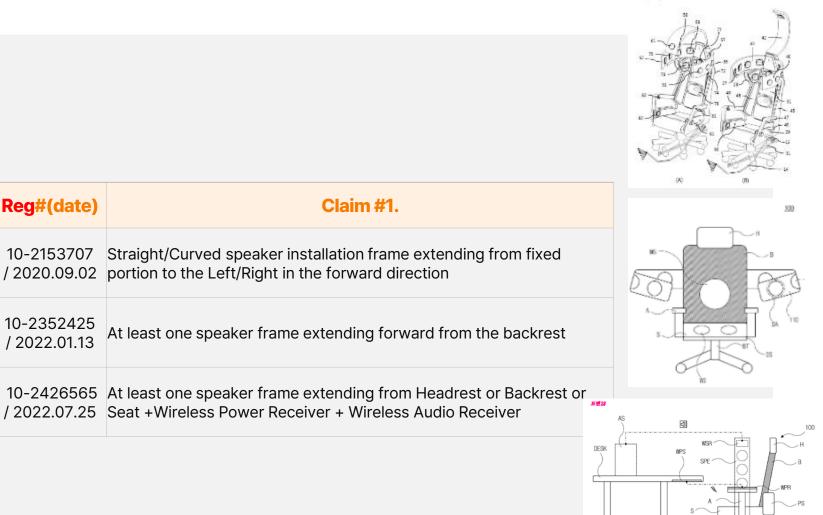
Financial Plan

⁴ Powerful Patent Rights⁹

Reg#(date)

10-2352425

/ 2022.01.13



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Core Competitiveness

CEO

Business Strategy

Financial Plan

Summary

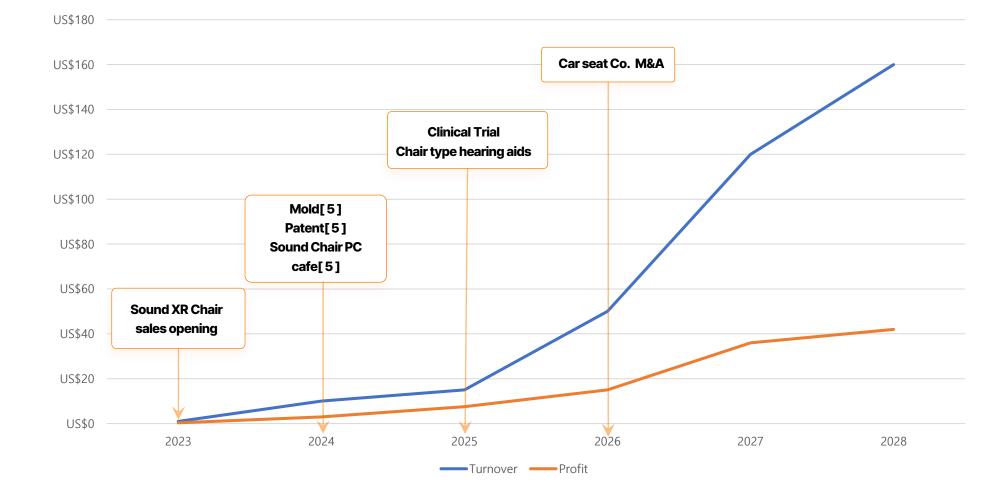
Appendix





" Turn over estimation"

2022 ~ 2027 (M.USD), US Market





Chapter 04. Business Strategy



* HOW TO MAKE SALES (2023) ! **



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Business Strategy

Financial Plan

Summary

Appendix



1. Sale by Each Component Item (Chair, Speaker, Wire, etc)

2. B2B, Slot Machine Sound XR Chair (confirmed trial on GKL, Paradise, Lotte Casino)



3. Expanding Product Line, 5.1ch, 7.1ch, 9.2ch, 13.2ch



(13.2ch Chair)



Core Competitivene

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Business Strategy

Financial Plan

Summary

Appendix





What I got, What I need "

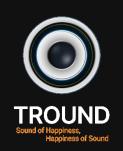
What I got (Government Subsidy, etc)

"

Year	Organization	Amount (USD)	ltem	Details
2022	Korea Credit Guarantee Fund, etc	373,000	5.1ch Sound Chair	More than 4times from Capital in 1 Year Time (incorporated Sept.2021)

What I need (Seed), USD1.2m

Year	ltem	Amount (USD)	Product	Details
2023	Design, OEM Product	500,000	2.1ch ~ 7.2ch Sound XR	1,000 qty
2023	International Patents	200,000	Patents from PPH	USA, EU, China, Japan, Canada, Vietnam, India, etc. (7 PTC)
2023	Sound Chair International PC Café Franchise (Expansion of Sound XR experience)	500,000	Sound XR PC Café	60 qty (University commercial district)
	TOTAL	1,200,000		



Financial Plan

Chapter 05. Financial Plan



What I got, What I need "

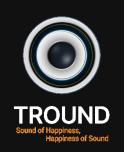
"

left What I need (Seed), Details

Year	Item	Amount (USD)	Product	Details
2023	Design, OEM Product	500,000	5.1ch Sound XR	1,000 qty
	Item		Budget	Remarks
Mold cost	Design		50,000	
	Molding]	120,000	Prehardening
	ABS resi	'n	40,000	1,000 qty
	AMP KC cert	ificate	10,000	2 qty
OEM	Chair		100,000	500 qty
	AMP(5.1 c	ch)	100,000	500 qty
	Speake	r	80,000	800 qty
TOTAL			500,000	

International Patents (by PCT) : USD 200,000

• USA, EU, Canada, Japan, China



Financial Plan

Chapter 05. Financial Plan



What I got, What I need "

"

• What I need (Seed), Details

Year	ltem	Amount (USD)	Product	Details
2023	Sound Chair International PC Café Franchise (Expansion of Sound XR experience)	500,000	Sound XR PC Café	60 qty (University commercial district)

	Item	Budget	Remarks
	Deposit	120,000	
Rental	Renovation	50,000	
	PC	180,000	60 qty
	Triple Monitor	40,000	60 qty
OEM	Sound XR Chair	80,000	60 qty
	Etc	30,000	Promotion, accessories, etc
TOTAL		500,000	
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Core Competitiveness

CEO

Business Strategy

Financial Plan

Summary

Appendix



Chapter 06. Summary



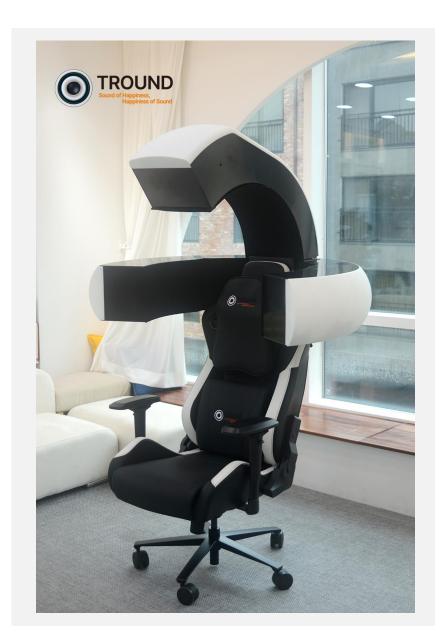
• 1. Item : 5.1ch + Vibration

2. Bring you real world on Chair(XR)

3. Invest on Market Creation Item

 TROUND Inc.
F801, HausD EL Tower, Jojeungdaero 35, Hanam, Kyunggi, 12918, South Korea JB Park
+82-31-699-1387
www.troundsound.com lock2open@gmail.com







Core Competitiveness

- CEO
- **Business Strategy**

Financial Plan

Summary

Appendix

Chapter 07.

Appendix. Research Data of Sound XR elements

Sound Vibration

Yingjie Fang1, Jing Ou1(B), Nick Bryan-Kinns2, Qingchun Kang1, Junshuai Zhang1, and Bing Guo1
Using Vibrotactile Device in Music Therapy to Support Wellbeing for People with Alzheimer's Disease
1 School of Design, Hunan University, Changsha 410082, Hunan, China jingou@hnu.edu.cn
2 School of Electronic Engineering and Computer Science, Queen Mary University of London, Mile End,
London E1 4NS, UK

Advances in Ergonomics in Design, Proceedings of the AHFE 2021 Virtual Conference on Ergonomics in Design, July 25-29, 2021, USA.

Bartel, L.; Mosabbir,

A. Possible Mechanisms for the Effects of Sound Vibration on Human Health. Healthcare 2021, 9, 597. https://doi.org/10.3390/healthcare9050597

Multisensory (ex. Hearing + Feeling) effects

- Brooks, A.L. (2021).

Interactive Multisensory VibroAcoustic Therapeutic Intervention (iMVATi). In: Brooks, A.L., Brahman, S., Kapralos, B., Nakajima, A., Tyerman, J., Jain, L.C. (eds) Recent Advances in Technologies for Inclusive Well-Being. Intelligent Systems Reference Library, vol 196. Springer, Cham.

 MARY KIM NGO AND CHARLES SPENCE, University of Oxford, Oxford, England Auditory, tactile, and multisensory cues facilitate search for dynamic visual stimuli Attention, Perception, & Psychophysics 2010, 72 (6), 1654-1665



Searching for a target defined by a conjunction of features in a complex and dynamically changing visual dis-200 msec (e.g., Dufour, 1999; Perrott et al., 1996; Perrott



Core Competitiveness

CEO

Business Strateg

Financial Plan

Summary

Appendix



Chapter 07. Appendix. User Experience



• Featured Item on Gaming Exhibition (Nov. 2022)



G STAR 2022

CES

https://youtube.com/shorts/ic5bjP6-r2A

• Pre-Launch at CES 2023 (Jan. 2023)



Premium

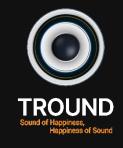
https://youtube.com/shorts/GoGv7JXJCwU



https://youtu.be/gjlf0bu9SUc



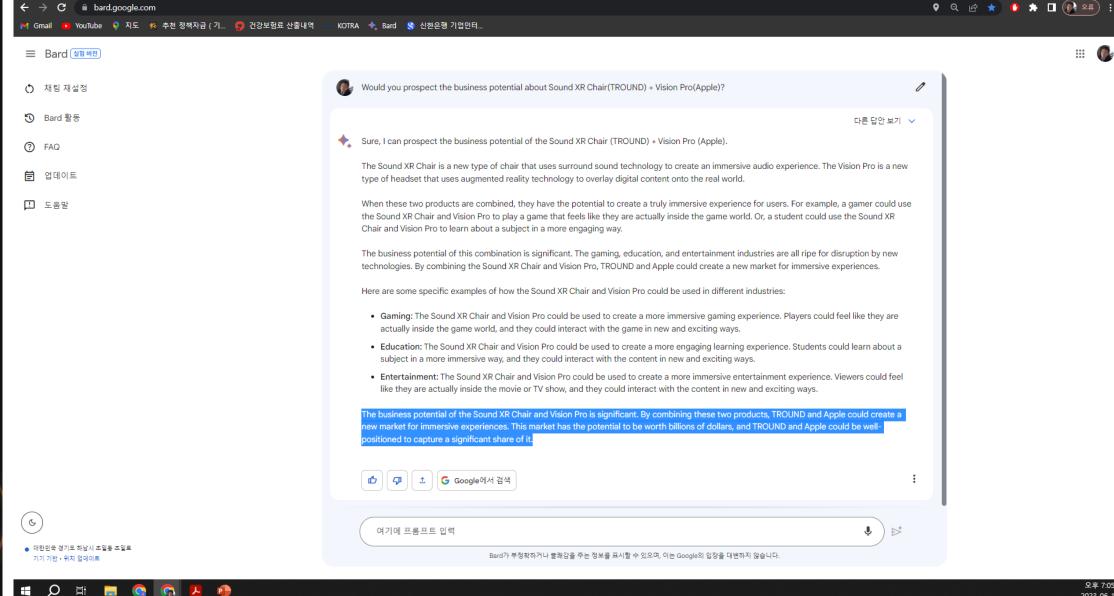
Chapter 07.



Core Competitiveness

Business Strategy

Summary



Appendix. Google AI (Bard) comments about 'Sound XR Chair' of TROUND (dated. 17th, June. 2023)