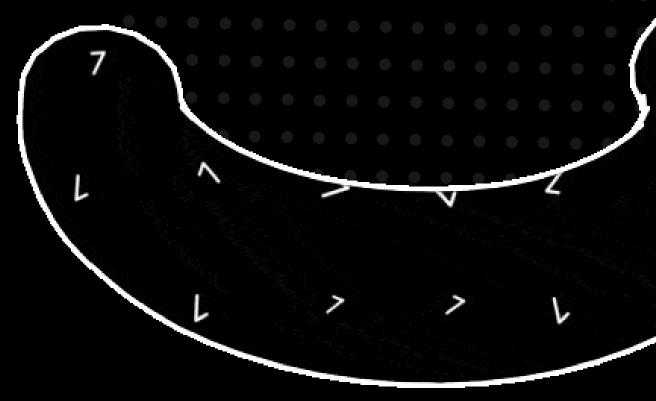
Group 1
Wenbin Chen, Zeming Zhang
Zihua Ma, Huiyi He, Geon Yoo,
Emily Mu





Final Presentation



Table of Content

1 ER GAMES IN INDUSTRY

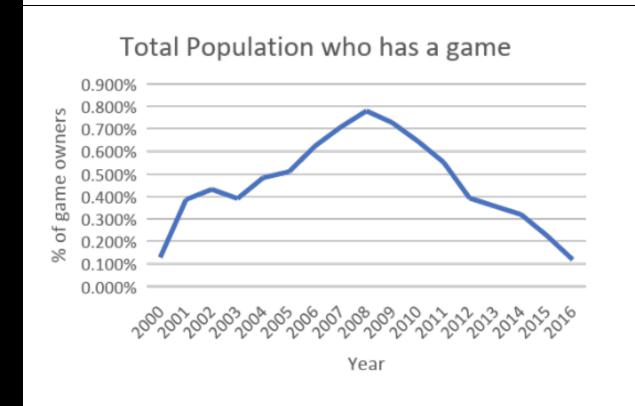
TARGET MARKET

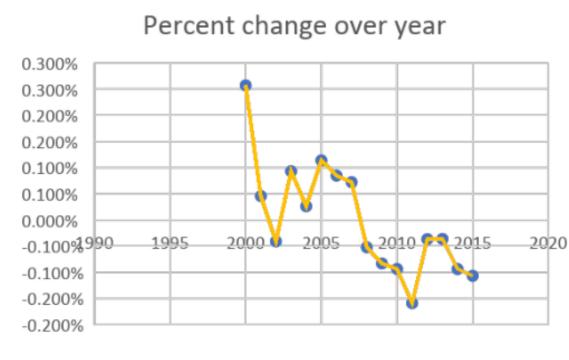
FUTURE MARKET ANALYSIS

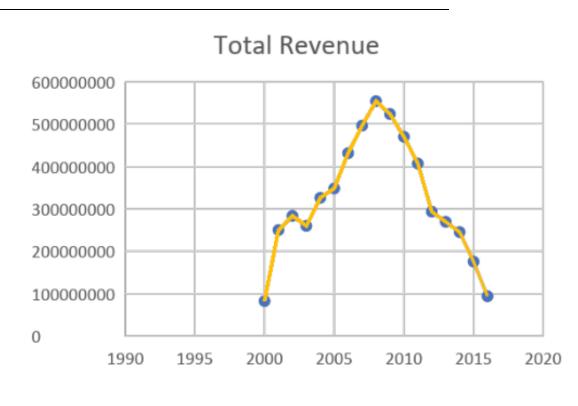
How should ER Games ensure they are in line with the trends of the industry?

- WHAT IS THE TREND OF THE INDUSTRY?
- GAMING INDUSTRY AS A WHOLE.









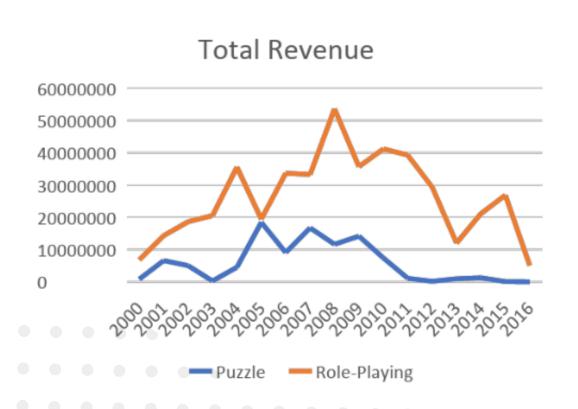


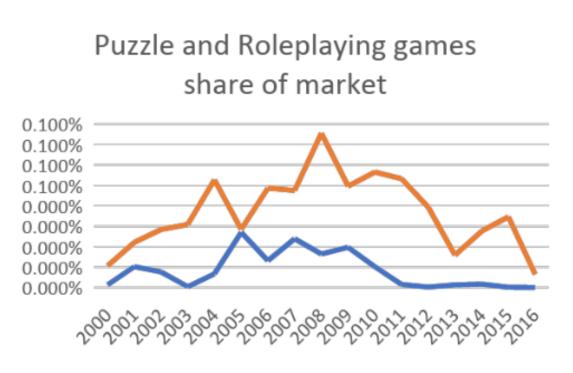
How should ER Games ensure they are in line with the trends of the industry?

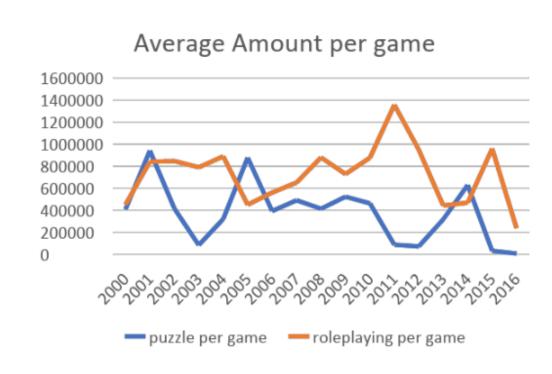
(<)

(>)

Specifically focused on trend of puzzle and role-playing game genre.

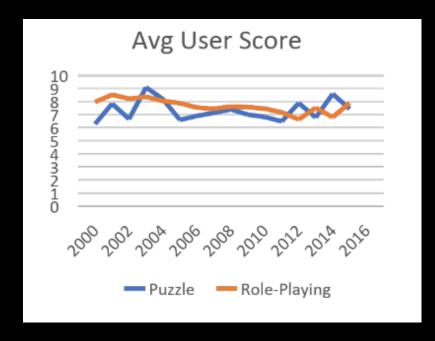


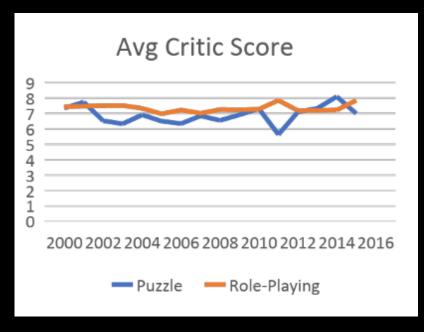


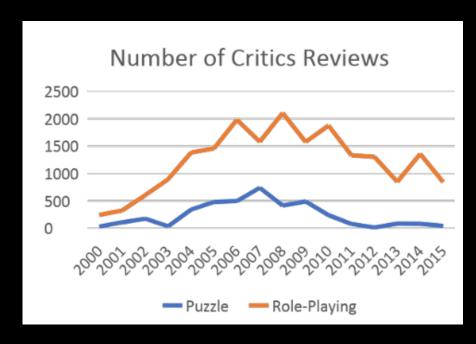


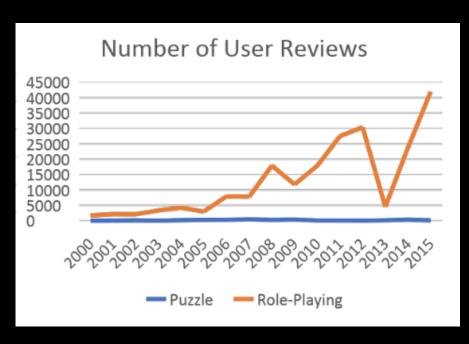
Trends of the Industry

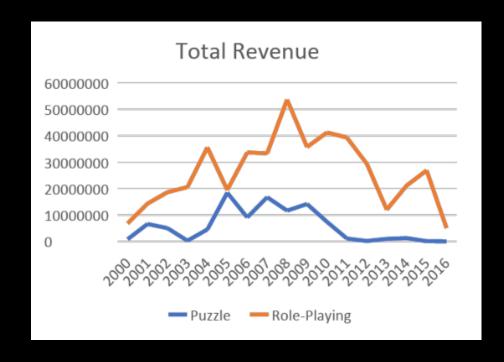
Critics and player base



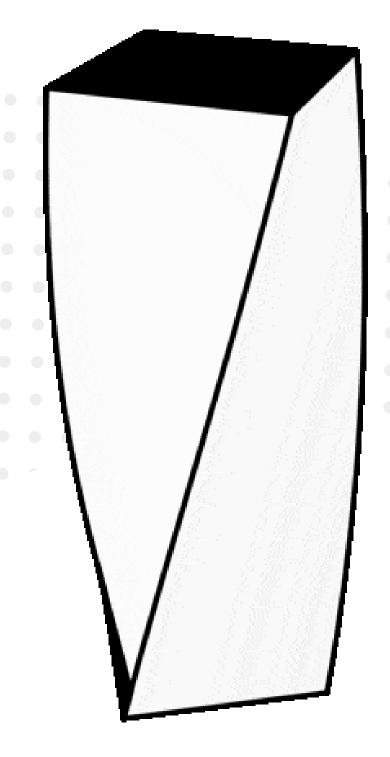












How should ER Games ensure they are in line with the trends of the industry?

Using Critics Score and User Score we see the future whether that helps with sale of games.

				Number	
	RSquare	RASE	N	of Splits	AICc
Training	0.118	0.4077687	5991	12	6281.28
Validation	0.312	0.3274506	2071		



Result: it is not a good indicator with a r^2 of 0.118



					I lleabe to beauton				
year_of_release	genre	critic_score	user_score	total sales	Likely to buy or not	critic score	player score	percentpop	
	Racing	8.2	8.3	35520000	1	7.6	8	0.05%	
2009	Sports	8	8	32770000	1	8.2	8.3	0.05%	
2006	Platform	8.9	8.5	29800000	1	8	8	0.04%	
2006	Misc	5.8	6.6	28910000	1	8.9	8.5	0.04%	
2009	Platform	8.7	8.4	28320000	1	5.8	6.6	0.04%	
2005	Racing	9.1	8.6	23210000	1	8.7	8.4	0.03%	
2007	Sports	8	7.7	22700000	1	9.1	8.6	0.03%	
2010	Misc	6.1	6.3	21820000	1	8	7.7	0.03%	
2009	Sports	8	7.4	21800000	1	6.1	6.3	0.03%	
2013	Action	9.7	8.2	21050000	1	8	7.4	0.03%	
2004	Action	9.5	9	20810000	1	9.7	8.2	0.03%	
2005	Misc	7.7	7.9	20140000	1	9.5	9	0.03%	
2013	Action	9.7	8.1	16270000	1	7.7	7.9	0.02%	
2002	Action	9.5	8.7	16150000	1	9.7	8.1	0.03%	
2005	Puzzle	7.7	7.1	15280000	1	9.5	8.7	0.02%	
2001	Racing	9.5	8.4	14970000	1	7.7	7.1	0.02%	
2011	Shooter	8.8	3.4	14730000	1	9.5	8.4	0.02%	
2010	Shooter	8.7	6.3	14620000	1	8.8	3.4	0.02%	
2012	Shooter	8.3	5.3	13790000	1	8.7	6.3	0.02%	
2012	Shooter	8.3	4.8	13680000	1	8.3	5.3	0.02%	
2009	Shooter	9.4	6.3	13470000	1	8.3	4.8	0.02%	
2011	Shooter	8.8	3.2	13330000	1	9.4	6.3	0.02%	
2001	Action	9.7	8.5	13100000	1	8.8	3.2	0.02%	
2008	Fighting	9.3	8.9	12840000	1	9.7	8.5	0.02%	
2011	Racing	8.5	8.2	12650000	1	9.3	8.9	0.02%	

How should ER Games ensure they are in line with the trends of the industry?

year_of_rele genre	publisher	na_sales	eu_sales	jp_sales	other_sales	critic_score	critic_count	user_score	user_count	developer	rating	total sales	populationye percentpop	percent inter ratingdiff	f p
2006 Sports	Ninti	41360000	28960000	3770000	8450000	7.6	51	. 8	322	Ninti	C	82540000	6.9222[+10 0.1199	9.6923E-08	1
2008 Racing	Ninti	15680000	12760000	3790000	3290000	8.2	73	8.3	709	Ninti	Ε	35520000	7.1037E+10 0.0509	2.3367E-07	1
2009 Sports	Ninti	15610000	10930000	3280000	2950000	8	73	8	192	Ninti	Ε	32770000	7.196E+10 0.0469	2.4413E-07	1
2006 Platform	Ninti	11280000	9140000	6500000	2880000	8.9	65	8.5	431	Ninti	Ε	29800000	6.9222E+10 0.0439	2.8524E-07	1
2006 Misc	Ninti	13960000	9180000	2930000	2840000	5.8	43	6.6	129	Ninti	Ε	28910000	6.9222E+10 0.0429	2.283E-07	1
2009 Platform	Ninti	14440000	6940000	4700000	2240000	8.7	80	8.4	594	Minti	Ε	28320000	7.1968+10 0.0399	2.9661E-07	1
2005 Racing	Minti	9710000	7470000	4130000	1900000	9.1	64	8.6	464	Ninti	Ε	23210000	6.8327E+10 0.0349	3.7053E-07	1
2007 Sports	Ninti	8920000	8030000	3600000	2150000	8	63	7.7	146	Ninti	Ε	22700000	7.0123E+10 0.0329	3.3921E-07	1
2010 Misc	Microsoft Ga	15000000	4890000	240000	1690000	6.1	45	6.3	106	Good Science	e E	21820000	7.2889E+10 0.0309	2.8873E-07	1
2009 Sports	Ninti	9010000	8490000	2530000	1770000	8	33	7.4	52	Ninti	ε	21800000	7.1968+10 0.0309	3.3945E-07	1
2013 Action	Take-Two Int	7020000	9090000	980000	3960000	9.7	50	8.2	3994	Rockstar No	M	21050000	7.5722E+10 0.0289	3.8955E-07	3
2004 Action	Take-Two Int	9430000	400000	410000	10570000	9.5	80	9	1588	Rockstar No	M	20810000	6.7438E+10 0.0319	4.3248E-07	3
2005 Misc	Ninti	4740000	9200000	4160000	2040000	7.7	51	7.9	50	Ninti	E	20140000	6.8327E+10 0.0299	3.9225E-07	1
2013 Action	Take-Two Int	9660000	5140000	60000	1410000	9.7	51	8.1	3711	Rockstar No	M	16270000	7.5722[+10 0.0219	4.9785E-07	3
2002 Action	Take-Two Int	8410000	5490000	470000	1780000	9.5	63	8.7	730	Rockstar No	M	16150000	6.5678E+10 0.0259	5.387E-07	3
2005 Puzzle	Ninti	3430000	5350000	5320000	1180000	7.7	37	7.1	19	Ninti	Ε	15280000	6.8327E+10 0.0229	4.6466E-07	1
2001 Racing	Sony Comput	6850000	5090000	1870000	1160000	9.5	54	8.4	314	Polyphony D	(E	14970000	6.4806E+10 0.0239	5.6112E-07	1
2011 Shooter	Activision	9040000	4240000	130000	1320000	8.8	83	3.4	8713	Infinity War	M	14730000	7.3814E+10 0.0209	2.3082E-07	3
2010 Shooter	Activision	9700000	3680000	110000	1130000	8.7	81	6.3	1454	Treyarch	M	14620000	7.2889E+10 0.0209	4.3092E-07	3
2012 Shooter	Activision	4990000	5730000	650000	2420000	8.3	2:	5.3	922	Treyarch	M	13790000	7.4759E+10 0.0189	3.8434E-07	3
2012 Shooter	Activision	8250000	4240000	70000	1120000	8.3	73	4.8	2256	Treyarch	M	13680000	7.4759E+10 0.0189	3.5088E-07	3
2009 Shooter	Activision	8520000	3590000	80000	1280000	9.4	100	6.3	2698	Infinity War	M	13470000	7.196E+10 0.0199	4.6771E-07	3
2011 Shooter	Activision	5540000	5730000	490000	1570000	8.8	31	3.2	5234	Infinity War	M	13330000	7.3814E+10 0.0189	2.4006E-07	3

Result: it is not a good indicator with a r^2 of 0.118

So how do

theyare

with the

trendsor

they ensure

how do they

break out of

01

Realistically realizing their market potential.

02

In 2016 Puzzle made \$10,000 and Role playing made \$5,040,000 in total with Puzzle averaging \$10,000 per game and \$240,000 per game so at a 0.107% decrease in money going in, the company has to make realistic goals.

03

And based on the decision tree critic and player base feedback does not have a big influence on sales.









Which market besides the US should ER Games target when releasing the game?

- Total Sales: Puzzle + Role-playing
- Sales Per Capita = Sales / Population

**We calculate the popultions in these four different areas each year

NA Population	NA Sales per Perso	EU Population	EU Sales per Pe	JP Population	JP Sales per Pe	Other Population	Other Sales per Person
516818555	8.003%	455424684	6.359%	127854000	2.949%	68122293636	0.012%
528816311	2.965%	457909685	2.787%	128063000	2.959%	69922655834	0.005%
534740514	2.919%	459123683	2.381%	128047000	2.562%	70838285980	0.004%





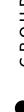


genre	Puzzle+Role Playing		
Average of NA Sales per F	e Average of EU Sales per P	e Average of JP Sales per Pe	Average of Other Sales per Pe
0.00056275	3 0.000364128	0.00114669	7.79091E-07
genre	Puzzle+Role Playing	r	
Var of NA Sales per Perso	n Var of EU Sales per Persor	Var of JP Sales per Person	Var of Other Sales per Person
1.02693E-0	6 9.19047E-07	7 1.09037E-05	3.40653E-12
1.020331-0	J.130-17 E U.	1.030372 03	0110000 22
1.020336-0	3.130472 0	1.030372 03	0000
genre	Puzzle+Role Playing		
			Count of other_sales

WHICH MARKET BESIDES THE US SHOULD ER GAMES TARGET WHEN RELEASING THE GAME?

AB Testing!





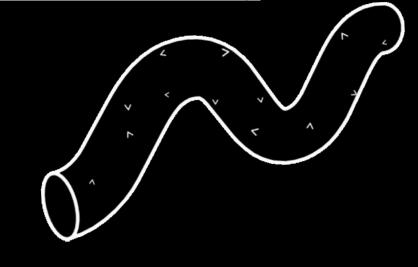


5% threshold

	NA vs EU	NA vs JP	NA vs Other	
diff	-0.000198624	0.000583938	-0.000561973	
z-score	-4.079760308	4.844023243	-15.88970763	
p-value	99.9977%	0.0001%	100.0000%	

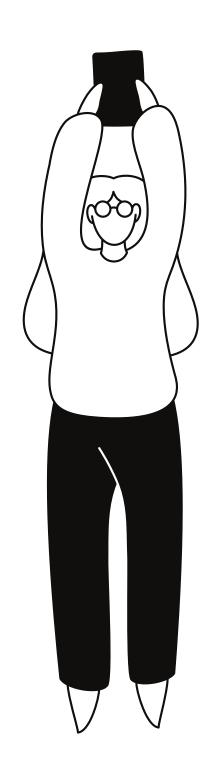
Result: Japanese market lowest p-value





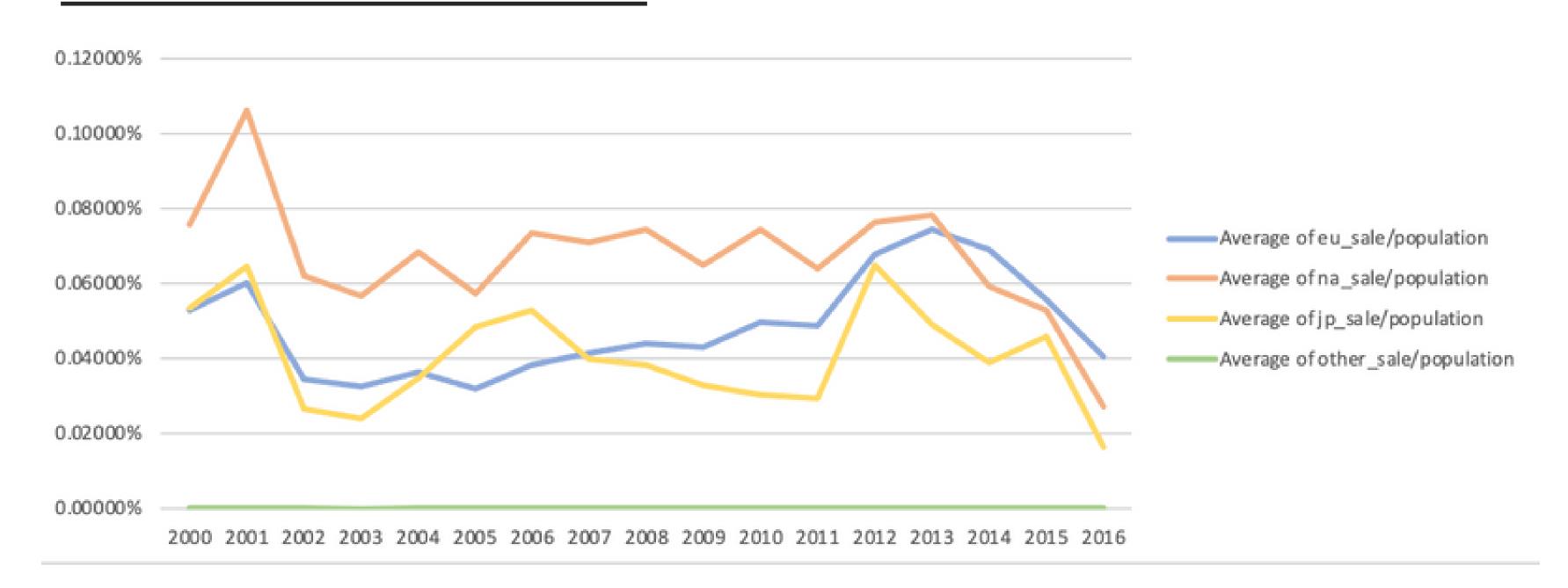
Future Market Analysis

WHAT IMPACT DOES THE CHANGING PREFERENCES AND DEMOGRAPHICS OF THE TYPICAL CONSUMER HAVE ON THE FOCUS OF ER GAMES?



REGIONAL ANALYSIS

Popularity of Each Region

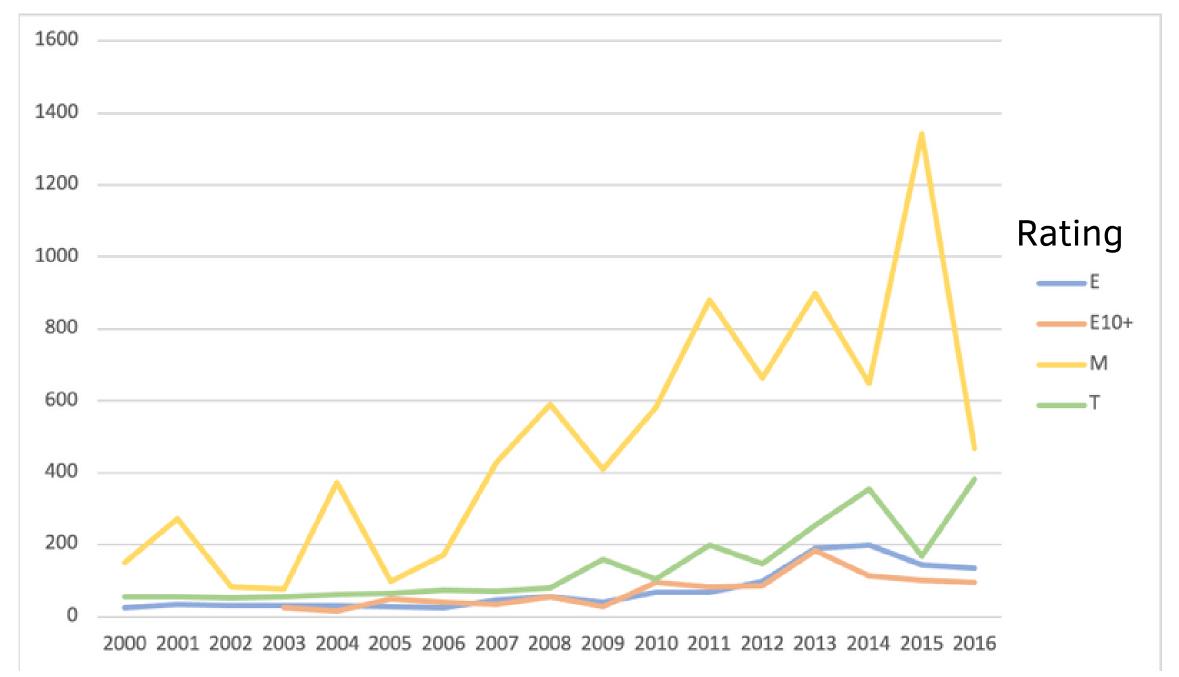


DEMOGRAPHICS ANALYSIS

Adult only (M) games have the highest user counts but dropped dramatically

Teenagers & older (T) is increasing (Greatest Potentials)

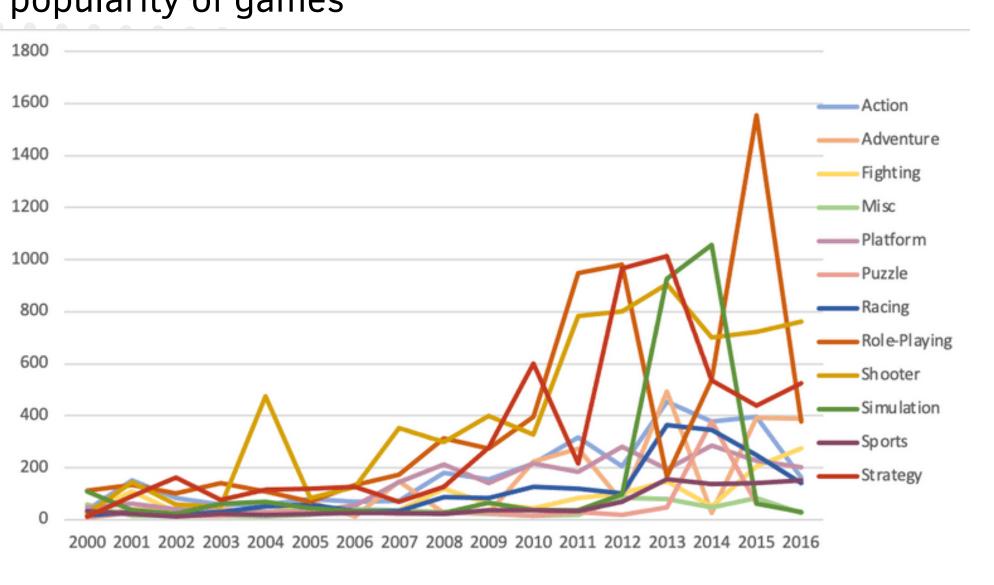
Average User counts

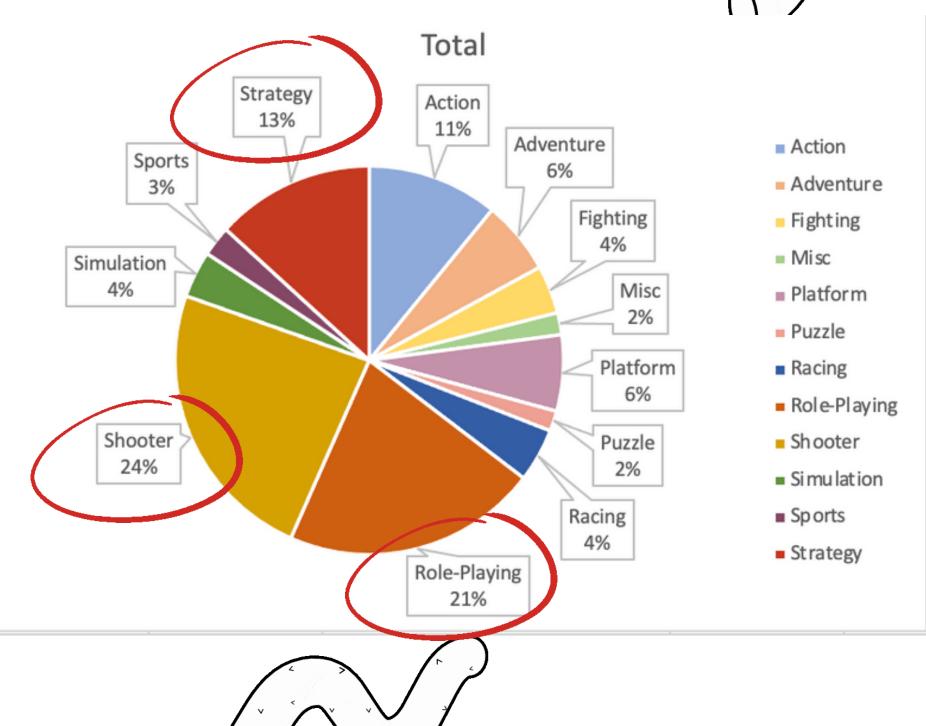


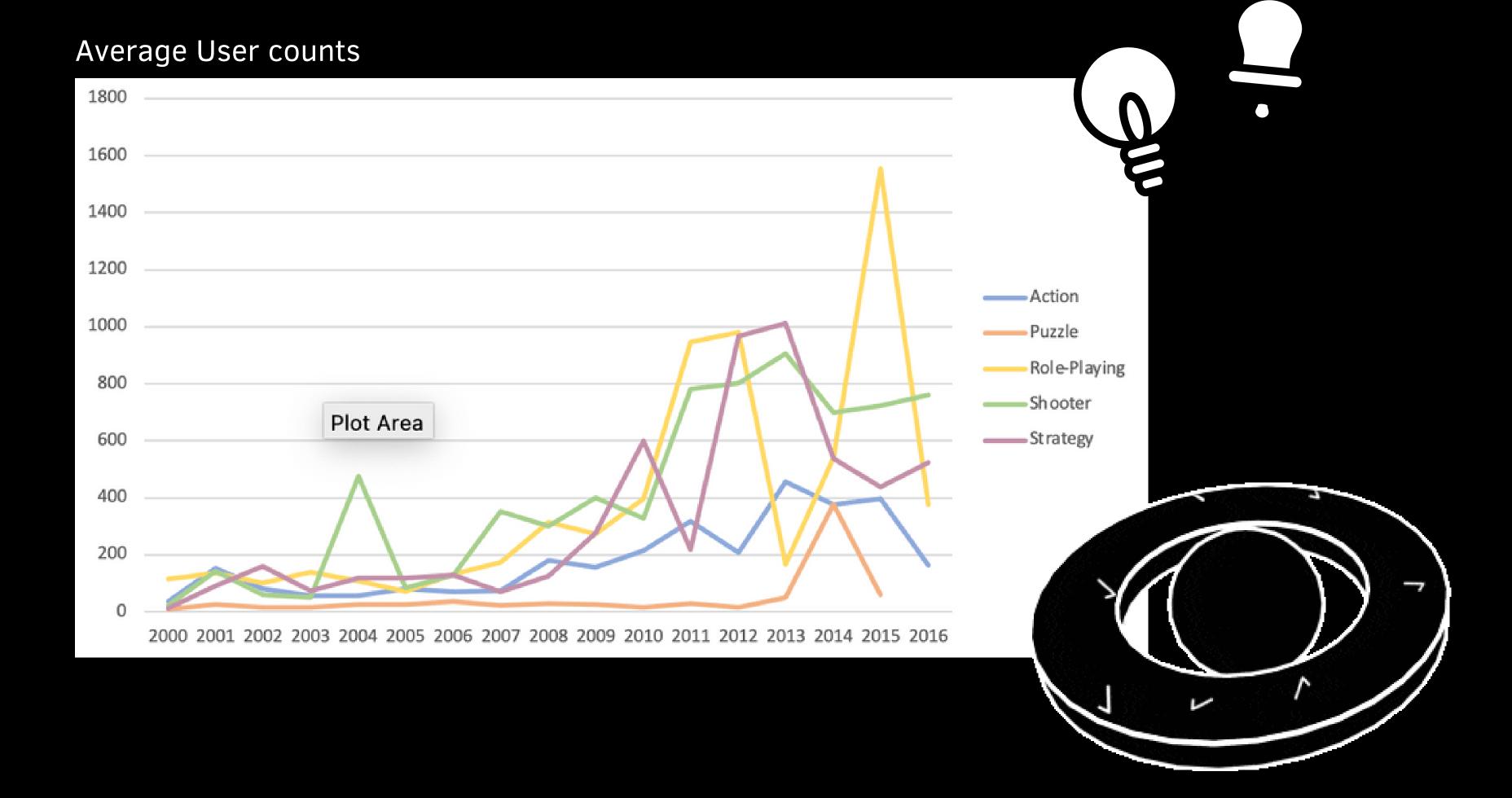


PREFERENCEANALYSIS

Average User counts to measure popularity of games









KEY TAKEAWAYS



Tracking

Real-time tracking of market trends



Adjustment

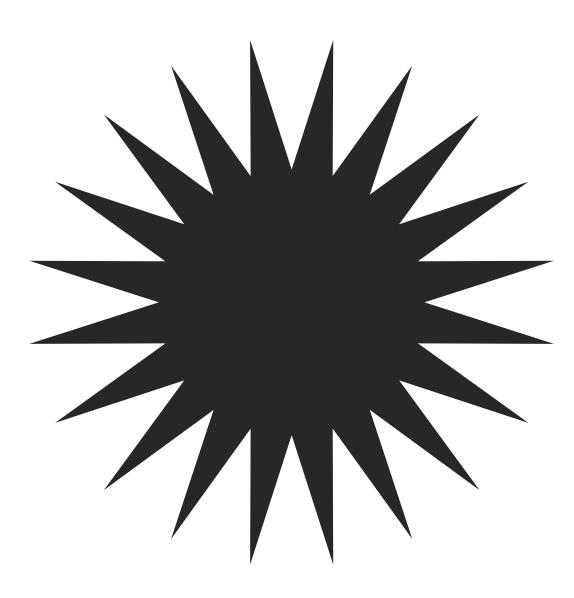
Timely adjustment of development direction



Survey

Fully understand user characteristics

THANKS FOR LISTENSING



MGT153 Group 1

Wenbin Chen, Zeming Zhang Zihua Ma, Huiyi He, Geon Yoo