

Executive Summary

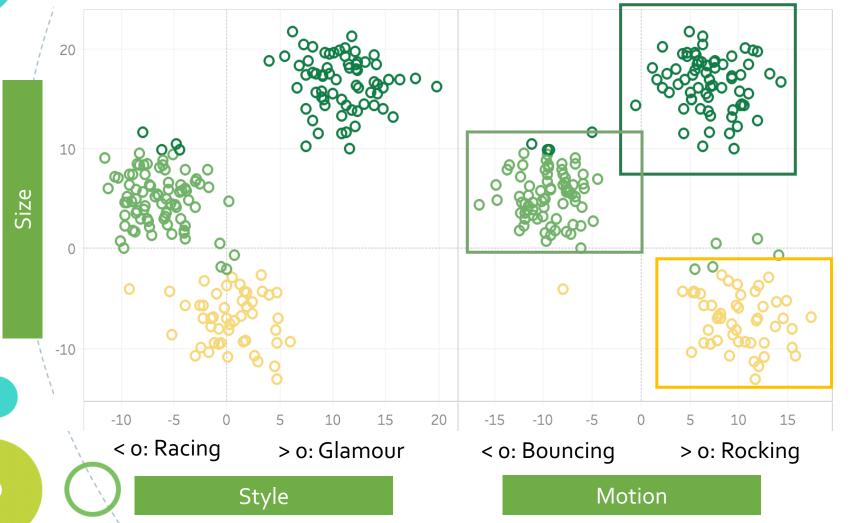
- Cluster Analysis indicates that **three segments** is optimal for EarlyRiders: boy's group, girl's group and small size preference group.
- According to the result of priori analysis, gender is a significant factor to consider for segmentation.
- By developing new product lines, EarlyRiders can occupy more than 80% of the market.
- Overall, EarlyRiders can earn over \$800,000 in five years.

Final Recommendation:

- Plan A: Launch profile 3 and profile 15 in Year1 and change to profile 4 and profile 16 in Year 2.
- Plan B: Gain market share step by step by changing product line every year from Year 1 to Year 4.

Segmentation

Post-hoc analysis shows three distinct groups considering size, style and motion.



Segment 1

Price: Low Size: Large

Motion: Bouncing

Style: Racing

Segment 2

Price: Low Size: Large

Motion: Rocking

Style: Glamorous

Segment 3

Price: Low

Size: Small

Motion: Rocking

Style: No Preference

Segmentation

Boys and girls have different preferences, which represent segment 1 and segment 2 in post-hoc analysis.

/			Seg	gments' Prefere	nce		
/		Age	Gender	Price	Size	Motion	Style
	Α	2 years old	Воу	Low	Large	No Preference	Racing
	В	3-4 years old	Воу	Low	Large	Bouncing	Racing
	C 2 years old		Girl	Low	Large	Rocking	Glamorous
	D 3-4 years old		Girl	Low	Large	Rocking	Glamorous
1		Segment 1		Segment 3		Seg	gment 2
leal oduct	Profile 6			Like Small Size Prod (No gender/age diffe		Pro Pro	ofile 6 ofile 10 ofile 14 ofile 15

* Ideal products do not include large but cheap horses.

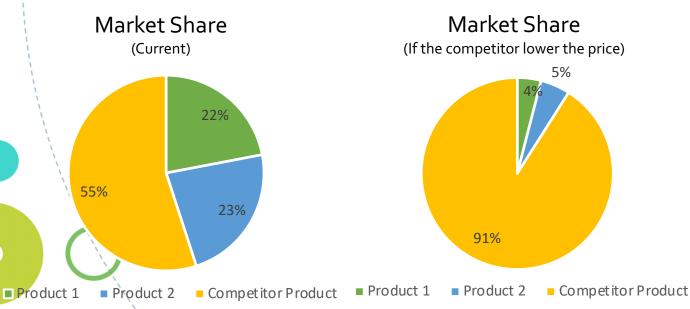
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Market Analysis

EarlyRiders's current product lines do not meet market needs.

Current Situation

	Early	Competitor	
Price	\$139.99	\$139.99	\$139.99
Size	18"	18"	26"
Motion	Rocking	Rocking	Rocking
Style	Glamorous	Racing	Racing



Strategy

Target both girls and boys groups. Launch 26" Bouncing Glamorous.

Provide small size horse, since the competitor do not sell small toy horse.

Price high first. If competitors lower its price, can respond by lowering prices as well.

Take over the market step by step. Competitors may not respond to the smaller change of market share.

Market Simulation: Plan A

Launch profile 3 and profile 15 in Year1 and change to profile 4 and profile 16 in Year 2.

Market Share Analysis

			Profile 3	Profile 4	Profile 5	Profile 7 (Competitor Origin)	Profile 8 (Competito r Respond)	Profile 13	Profile 15	Profile 16	Profit
	Year o	Current: 5 &13			0.22	0.570		0.21			
	Year 1	Launch: 3 &15	0.385			0.17			0.445		\$198,869.1
	Year 2	Launch: 4&16		0.355			0.18			0.465	\$152,231
	Year 3	Launch: 4&16		0.355			0.18			0.465	\$456,693
1 1	Year 4	Launch: 4&16		0.355			0.18			0.465	\$456,693
,	Year 5	Launch: 4/16		0.355			0.18			0.465	\$456,693

• Competitor's Response: Year 2 Lower Price

• Cannibalization: No cannibalization

• Total profit for five years: \$807,793.1

Market Simulation: Plan B

Gain market share step by step by changing product line every year from Year 1 to Year 4.

Market Share Analysis

		Profile 2	Profile 5	Profile 7 (Competitor Origin)	Profile 8 (Competitor Respond)	Profile 11	Profile 13	Profile 15	Profile 16	Profit
Year o	Current: 5 &13		0.22	0.570			0.21			
Year 1	Launch: 7&11			0.425		0.575				\$160,552.4
Year 2	Launch: 7&2	0.660		0.34						\$170,365.8
Year 3	Launch: 2 &15	0.625		0.04				0.355		\$234,621.9
Year 4	Launch: 2&16	0.325			0.255				0.42	\$296,422.6
Year 5	Launch: 2&16	0.325			0.255				0.42	\$296,422.6

• Competitor's Response: Year 2 & Year 3: No response Year 4 lower price

• Cannibalization: No cannibalization

• Total profit for five years: \$861,962.7

Market Simulation: Sensitivity Analysis for Plan B

The competitor may notice the decreasing trend of market share and respond earlier than expected.



1								
	Profile 2	Profile 5	Profile 7	Profile 8	Profile 11	Profile 13	Profile 15	Profile 16
Year o		0.22	0.570			0.21		
Year 1			0.425		0.575			
Year 2	0.660		0.34					
Year 3	0.335			0.445			0.22	
Year 4	0.325			0.255				0.42
Year 5	0.325			0.255				0.42
	Year 1 Year 2 Year 3 Year 4	Year o Year 1 Year 2 0.660 Year 3 0.335 Year 4 0.325	Year o 0.22 Year 1 Year 2 0.660 Year 3 0.335 Year 4 0.325	Year o 0.22 0.570 Year 1 0.425 Year 2 0.660 0.34 Year 3 0.335 Year 4 0.325	Year o 0.22 0.570 Year 1 0.425 Year 2 0.660 0.34 Year 3 0.335 0.445 Year 4 0.325 0.255	Year o 0.22 0.570 Year 1 0.425 0.575 Year 2 0.660 0.34 Year 3 0.445 Year 4 0.325 0.255	Year o 0.22 0.570 0.21 Year 1 0.425 0.575 Year 2 0.660 0.34 Year 3 0.335 0.445 Year 4 0.325 0.255	Year o 0.22 0.570 0.21 Year 1 0.425 0.575 Year 2 0.660 0.34 Year 3 0.335 0.445 Year 4 0.325 0.255

---- Competitor's Response

Year 2: No response

Year 3: Lower price

---- Cannibalization

Cannibalization in Year 3

Profit

Year 1: \$160,552.4

Year 2: \$170,365.8

Year 3: \$118,599.3

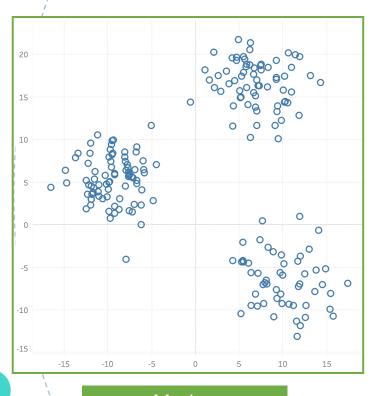
Year 4 & Year 5: \$296,422.6

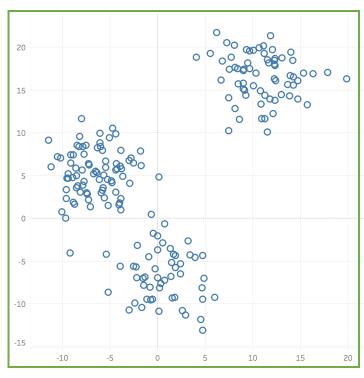
Total profit for five years: \$745,940.1

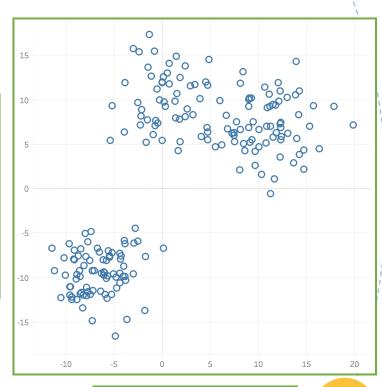
Sensitivity Analysis

Uncertainty: 60% probability that the competitor will not respond in Year 3; 40% probability otherwise.

Total profit for five years: \$861,962.7*60%+ \$745,940.1*40% = \$815,553.7







Motion

Motion

Style

Style

Appendix: Priori Analysis

	Segment Part-Utility Analysis								
Segment	Age	Gender	Price	Size	Motion	Style			
1	2 years old	male	16.1093	2.2297	0	-1.5307			
2	3-4 years old	male	16.1093	5.9586	-3.654	-1.5307			
3	2 years old	female	12.5368	5.6494	4.142	4.1931			
4	3-4 years old	female	12.5368	9.3783	0.488	4.1931			

Coefficient Summary

- Baseline: Price High, Size Small, Bouncing, Racing
- Large than o: prefer the opposite one
- Smaller than o: like the baseline

Appendix: Profit Calculation for Plan A

Profit Analysis for Plan A								
	Profit from Product 1	Profit from Product 2	Cost	Profit				
Year 1	126,925.90	125,276.50	53,333.33	198,869.07				
Year 2	93,094.07	99,136.90	40,000	152,230.97				
Year 3	93,094.07	99,136.90	40,000	152,230.97				
Year 4	93,094.07	99,136.90	40,000	152,230.97				
Year 5	93,094.07	99,136.90	40,000	152,230.97				
	807,792.95							

Appendix: Profit Calculation for Plan B

Profit Analysis for Plan B								
	Profit from Product 1	Profit from Product 2	Cost	Profit				
Year 1	187,219.10		26,666.67	160,552.43				
Year 2	197,032.50		26,666.67	170,365.83				
Year 3	187,103.80	94,184.75	46,666.67	234,621.88				
Year 4	98,597.96	89,613.33	40,000	148,211.29				
Year 5	98,597.96	89,613.33	40,000	148,211.29				
	861,962.72							

Profir Analysis for Sensitivity Analysis								
	Profit from Product 1	Profit from Product 2	Cost	Profit				
Year 1	187,219.10		26,666.67	160,552.43				
Year 2	197,032.50		26,666.67	170,365.83				
Year 3	103,832.30	61,433.67	46,666.67	118,599.30				
Year 4	98597.96	89613.33	40,000	148,211				
Year 5	98597.96	89613.33	40,000	148,211				
	745,940.14							