

Project 3: Rexon Movie Theater



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Learning Objectives

On completion of this project, you will be able to:

- Understand the Rexon Movie Theatre(RMT) project background
- Analyze the various factors that led to the customers being unhappy with the cinema experience at RMT
- Infer how the pilot run at Audi 1 helped improve the overall customer experience



PEOPLE AND PROCESS

Define Phase

Project Background

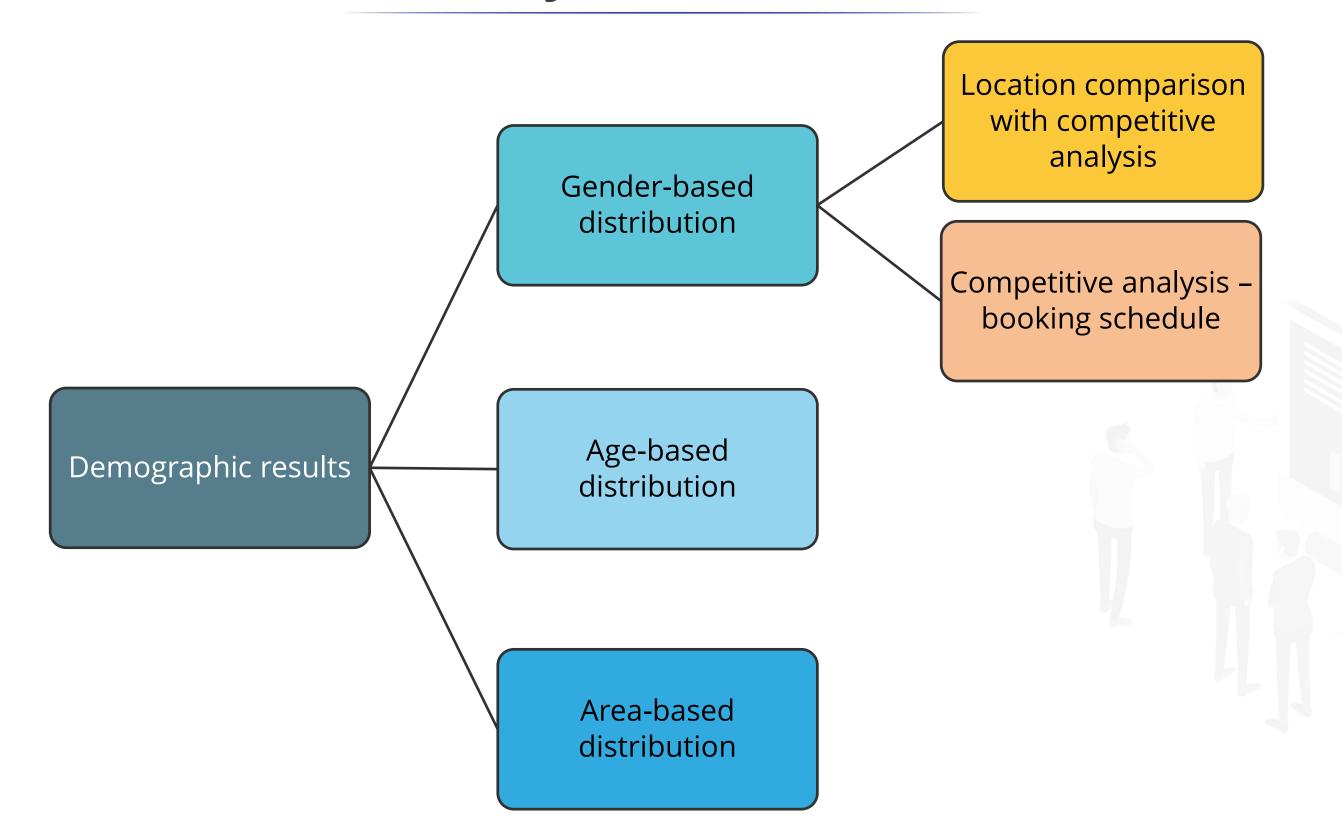


Rexon Movie Theater(RMT) has been in the film exhibition business for the last three years, opening multiplexes at two areas: BMR and RSVO.

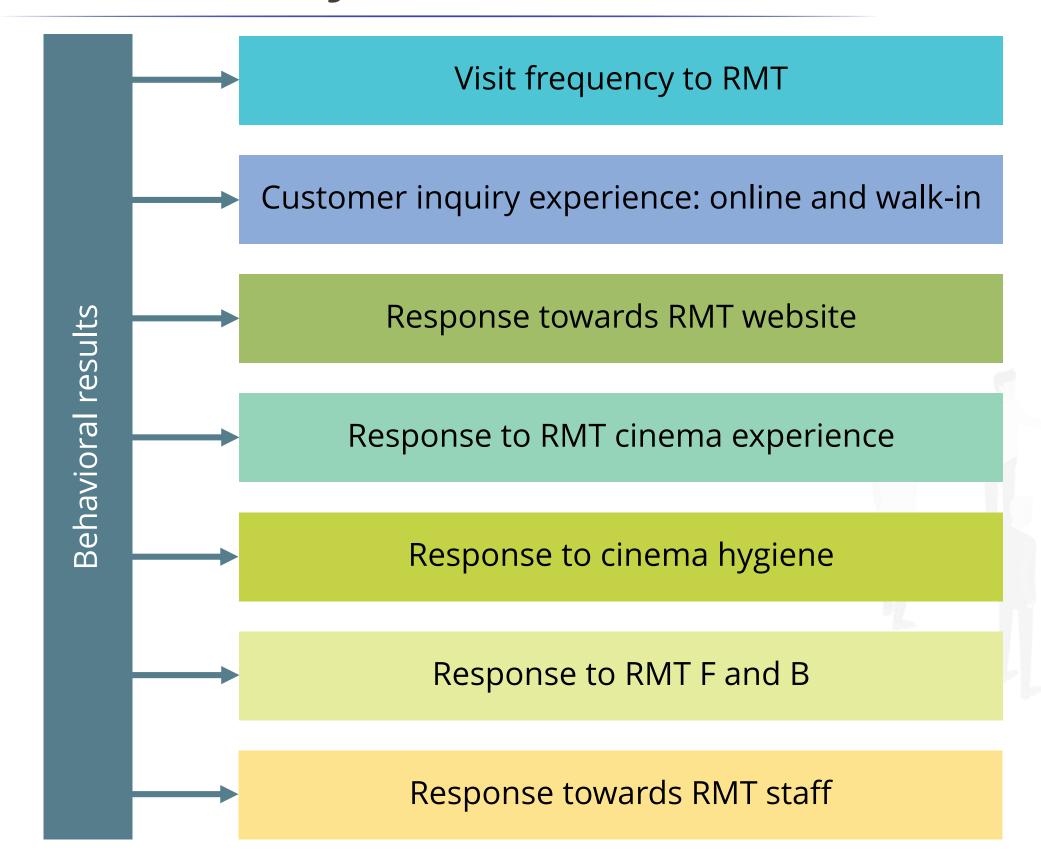
The company CEO has deputed Six Sigma Black Belt Tim Cruz to improve the current conditions so as to attract more audience. This is the first time Tim Cruz has conducted a survey to gauge customer experience at Rexon Movie Theater.

The survey was conducted from 22nd March to 26th April, 2019. 150 patrons participated in the survey – 75 for Rexon Movie Theater at BMR and 75 for Rexon Movie Theater at RSVO. The survey was done for two parts.

Survey Results: Part 1



Survey Results: Part 2



Gender-based Distribution

Survey report part I		Place		Percentage		Total	Total 0/
Survey repor	t part i	BMR	RSVO	BMR	RSVO	Total	Total %
Condor	Female	40	29	53%	39%	69	46%
Gender	Male	35	46	47%	61%	81	54%
Grand To	tal	75	75	100%	100%	150	100%

- There are 61% male respondents at RSVO
- Lesser female patrons at RSVO (observed from survey and security guard response)

Inferences

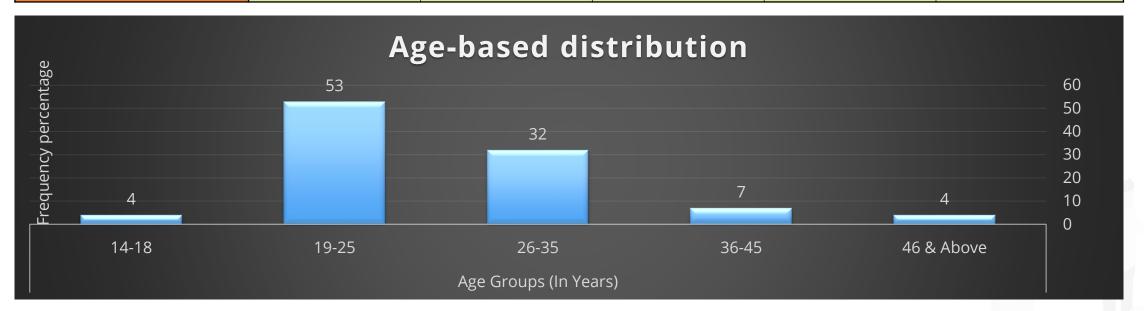
Largely, male members make purchase decisions at RSVO

Possible causes of female experience lacking at RSVO:

- Is safety a concern
- Is movie watching a taboo for females
- Did females not respond to the survey

Age-based Distribution

D14D		Age groups (in years)				
BMR	14-18	19-25	26-35	36-45	46 and above	
Frequency %	4	53	32	7	4	



Inferences

Largest respondents in BMR are in the 19-25 age bracket

Food court on the floor below BMR offering a wide range of delicacies acting as a meeting hub for young couples

Age-based Distribution (Contd.)

Age groups(in years)					
RSVO	14-18	19-25	26-35	36-45	46 and Above
Frequency %	12	34	29	20	5



Inferences

Relatively even distribution of age groups at RSVO

Presence of **Fusions** multi-cuisine family restaurant

Area-based Distribution

Location comparison

Parameters	BMR	RSVO	
Locality	Office and college area	Residential area	
Competitor in the closest vicinity	8-10 kms. E2 cinema	AGP 4.6 kms; Frames 9.3 kms.	
Premise benefit	E2 is stand alone cinema; BMR is in a commercial complex with food court below	RSVO has a family restaurant below; AGP is a stand-alone cinema; frames is inside a popular shopping mall	
Location advantage	BMR is ideally located	Frames has location advantage	

Area-based Distribution (Contd.)

Competitive analysis - booking schedule								
Compotitivo analysi	<u> </u>				Days			
Competitive analysi	5	F	S	Su	M	Τ	W	Thu
BMR	Adv booking	Υ	Υ	Υ	Υ	Υ	Υ	Υ
DIVIK	Schedule	2	2	1	2	1	1	1
E2	Adv booking	Υ	Υ	Υ	Z	N	N	N
	Schedule	1	1	1	2	2	2	2

BMR

- More shows on F, S, M
- Booking opens for entire week in advance

E2

- More shows on M, T, W, Thu
- Booking opens on Thu at 4:00 PM for advance booking for F, S, Su

Area-based Distribution (Contd.)

	Competitive analysis – booking schedule							
Commeti	4:		Days					
Competi	tive analysis	F	S	Su	М	Т	W	Thu
DCMO	Adv booking	Υ	Υ	Υ	Υ	Υ	Y	Υ
RSVO	Schedule	3	3	3	1	1	1	1
ACD	Adv booking	Υ	Υ	Υ	N	N	N	N
AGP	Schedule	2	3	3	1	1	1	1
FRAMES	Adv booking	Υ	Υ	Υ	N	N	N	N
INAIVILS	Schedule	3	3	3	2	2	2	2

RSVO

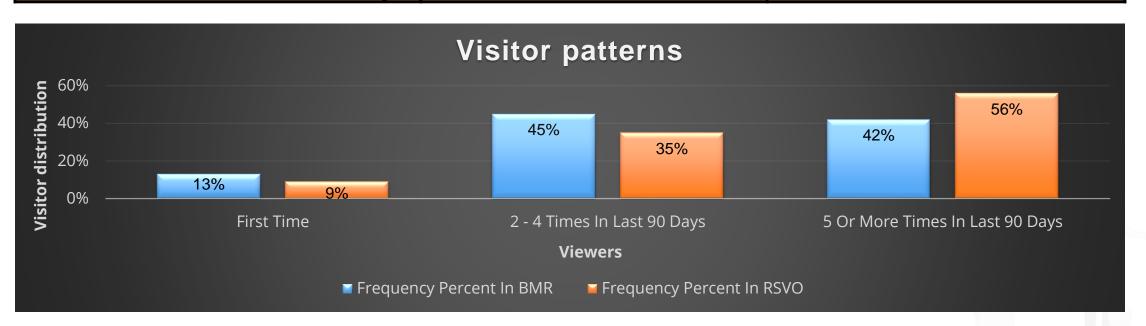
- More shows on F, S and Su
- Booking opens for entire week in advance

AGP and FRAMES

- More shows on F, S and Su
- Booking opens on Thu at 5:00 pm for advance booking for F, S and Su

Survey Report Part 2: Visit Frequency

Viewers	Frequency percent in BMR	Frequency percent in RSVO
First time	13%	9%
2 - 4 times in last 90 days	45%	35%
5 or more times in last 90 days	42%	56%



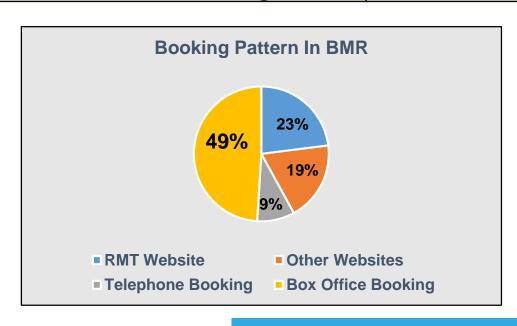
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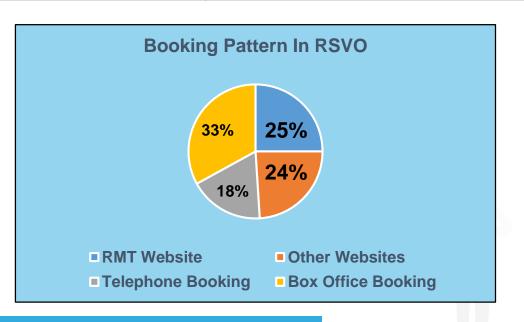
Repeat viewers, who are IT professionals and students from nearby offices, hostels and campus in BMR, dominate

Dominated by very frequent repeat viewers from the vicinity at RSVO

RMT Booking Pattern

Booking Options	Frequency Percent In BMR	Frequency Percent In RSVO
Cinema Website	23%	25%
Other Websites	19%	24%
Telephone Booking	9%	18%
Box Office Booking	49%	33%





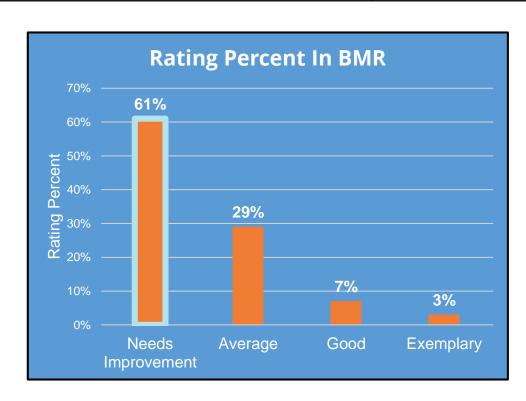
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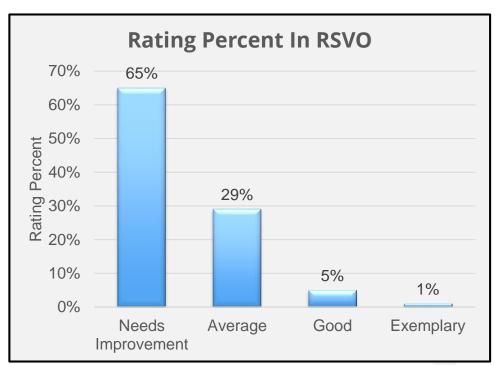
In BMR, viewers prefer box office purchase with no additional cost to the tickets

Viewers prefer online purchase and are willing to pay additional convenience charges at RSVO

RMT Cinema Experience

Cinema experience	Rating percent in BMR	Rating percent in RSVO
Needs improvement	61%	65%
Average	29%	29%
Good	7%	5%
Exemplary	3%	1%





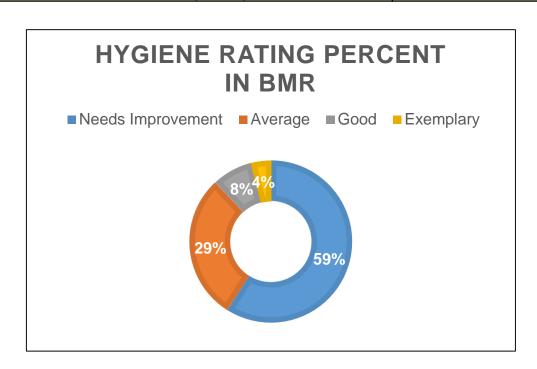
Inference

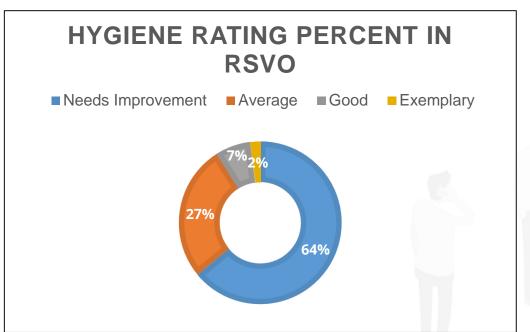
Viewers are not happy with the cinema experience at RMT (both BMR and RSVO)



RMT Cinema Experience

Cinema hygiene	Rating percent in BMR	Rating percent in RSVO
Needs improvement	59%	64%
Average	29%	27%
Good	8%	7%
Exemplary	4%	2%





Inference

Viewers are facing issues with the cinema hygiene at RMT (both at BMR and RSVO)

RMT F and B Experience

F and B price	Rating percent in BMR	Rating percent in RSVO	
Affordable	37%	45%	
Expensive yet will buy	39%	31%	
Expensive; will not buy	24%	24%	

F and B quality	Rating percent in BMR	Rating percent in RSVO
Needs improvement	7%	5%
Average	23%	25%
Good	32%	39%
Exemplary	38%	31%

F and B variety	Rating percent in BMR	Rating percent in RSVO
Needs to increase varieties	17%	15%
Serves sufficient varieties	83%	85%

Inference

Viewers are very happy with the F and B at RMT(both at BMR and RSVO)

RMT Staff Positive Experience

Parameter	RSVO	BMR
Staff is friendly	67%	69%
Staff is well-behaved	68%	68%
Staff is cooperative	51%	53%
Staff is helpful	53%	55%

Inferences

Viewers are satisfied with the RMT staff (both at BMR and RSVO)

RMT Areas Of Improvement

Viewers are not happy with the cinema experience at RMT(both BMR and RSVO)

Viewers are facing issues with the cinema hygiene at RMT(both at BMR and RSVO)

Inferences

Currently, viewers are still visiting RMT, however, if the issues are not addressed, they would soon opt for other alternatives

Project Charter

Problem statement

- Overall average of 63% of the viewers are not happy with the RMT cinema experience and 62% of them are unhappy with the RMT cinema hygiene.
- If the issues are not addressed now, viewers will opt for other alternatives which will decrease the revenue, making it difficult for RMT to continue with the business in next 6-8 months.
- This might result in a shut down or RMT being taken over by the competitors.

To improve the RMT cinema experience for BMR and RSVO by 70%, and RMT cinema hygiene by 85%, in next 8 months, so as to retain the existing viewers and also attract viewers from the competitors for higher profitability.

Goal statement



Project Charter (Contd.)

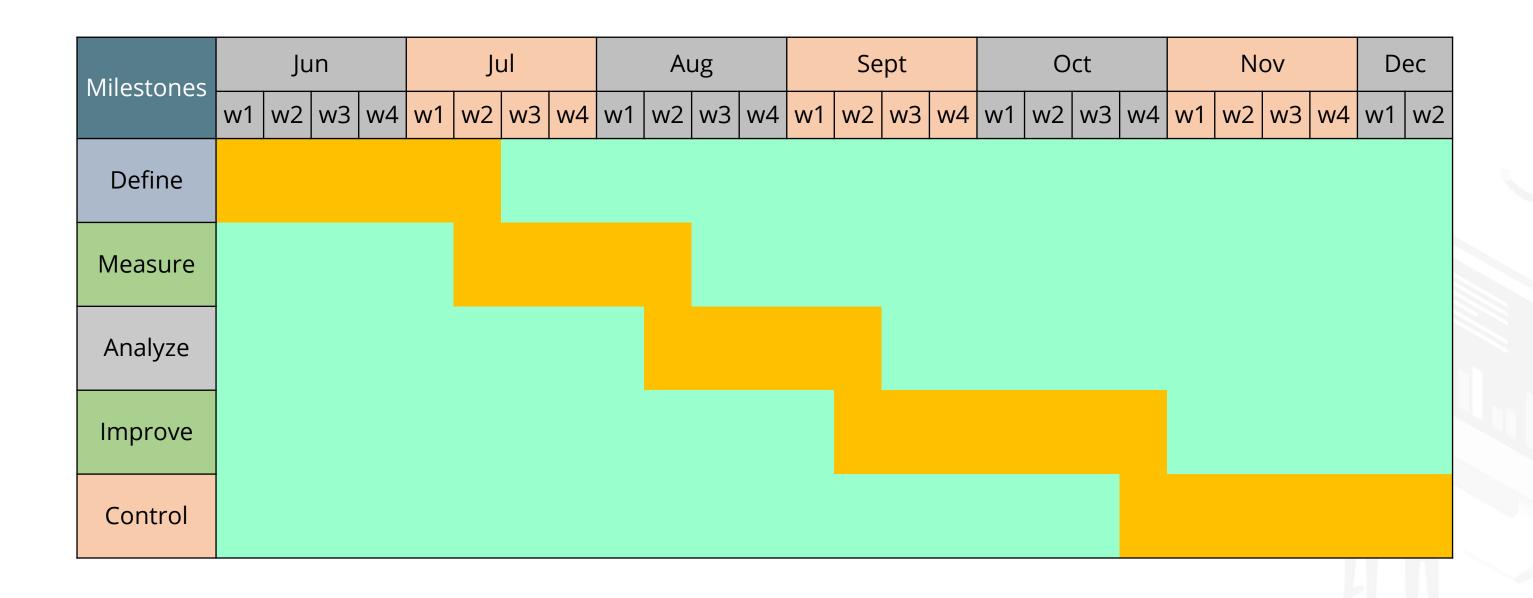
Business case

- If the RMT cinema experience and the RMT cinema hygiene is not improved, competitors E2, AGP and Frames will gain the market shares of RMT in next 6-8 months where the problem will be affecting the existing RMT viewers by 50% more than the current condition resulting in a revenue drop by 70% by the end of 12 months.
- If RMT cinema experience and cinema hygiene is improved by 75% within next 6-8 months; we would be able to retain the current viewers and also further get 15% of the growing market share due to increased brand value and better viewer experience and viewer reviews pushing the revenue up by 20% in the next 12 months.

To work on and bring improvement on RMT cinema experience and RMT cinema hygiene which will enhance viewer experience and help to retain the existing viewer base and increase the new viewers increasing overall profitability for RMT for both BMR and RSVO.

Project scoping

Project Milestones



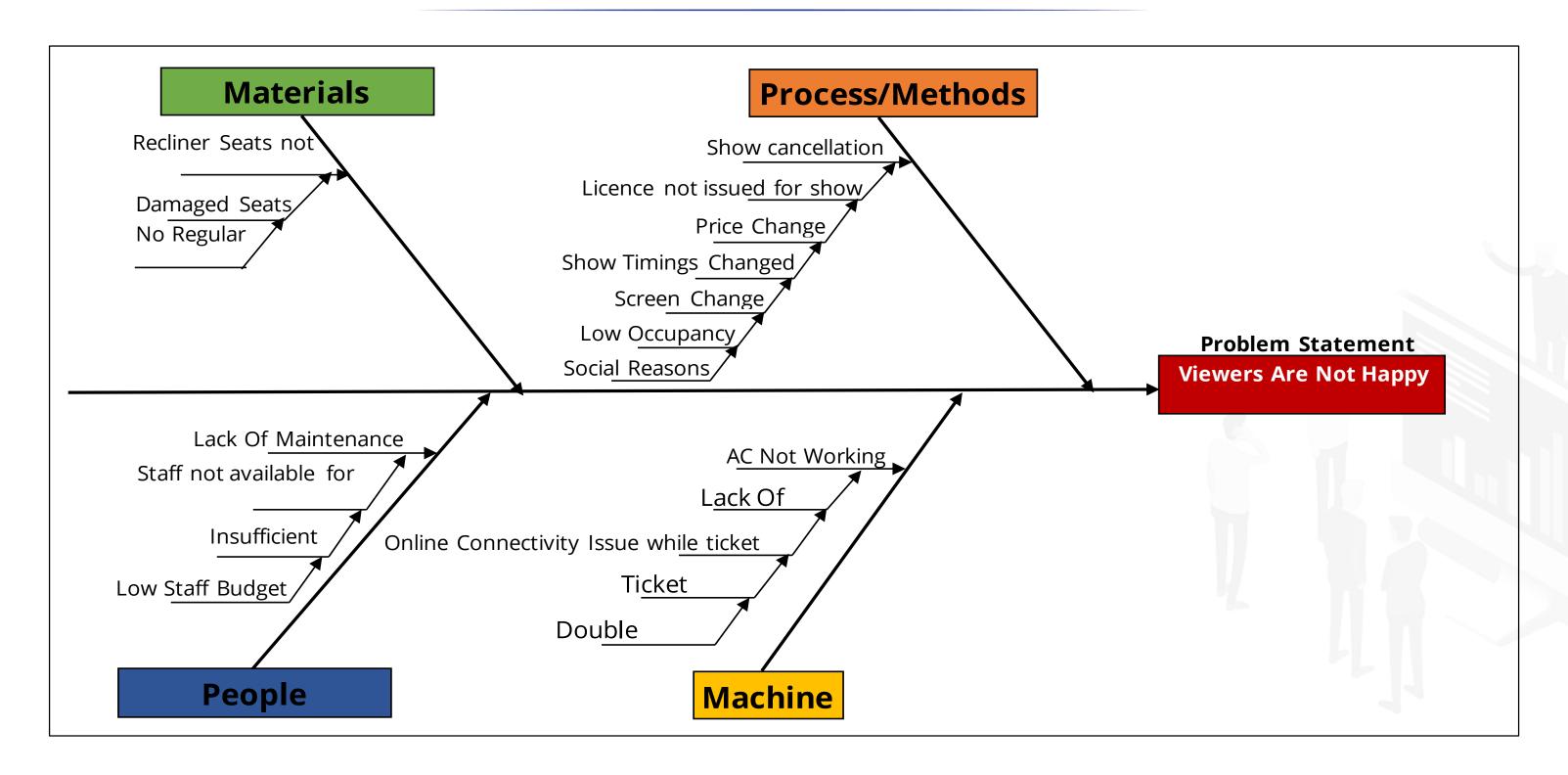
RACI Model

Team members	Define	Measure	Analyze	Improve	Control
Black belt	A	A	R/A	R/A	A
Process owner	C/I	C/I	С	C/I	A/I
Process manager	С	С	С	C	R/I
Green belt	R	R			
Financial representative			I		

PEOPLE AND PROCESS

Measure Phase

Fishbone Diagram



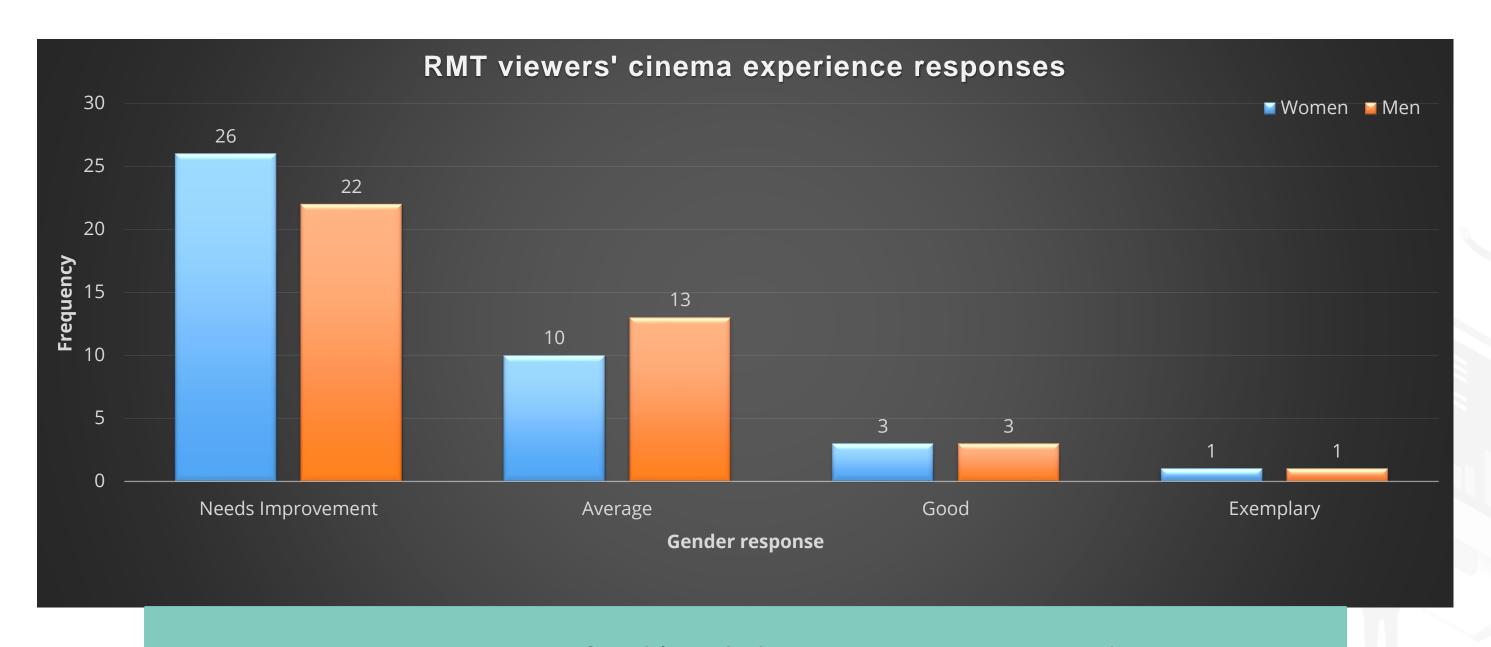
Viewers' Cinema Experience Responses (40 Women and 40 Men)

Names	Needs Improvement	Average	Good	Exemplary
Emma	Y			
Ava		Υ		
Sophia	Υ			
Mia	Υ			
Harper			Υ	
Olivia				Υ
Isabella	Υ			
Charlotte	Υ			
Amanda	Υ			
Jia		Υ		
Evelyn	Υ			
Abigail		Υ		
Emily	Υ			
Avery			Υ	
Sofia	Υ			
Camila	Y			
Aria		Υ		
Scarlett	Υ			
Victoria	Y			
Madison		Υ		
Luna	Υ			
Grace	Y			
Chloe	Y			
Penelope		Υ		
Layla	Υ			
Riley	Υ			

Names	Needs Improvement	Average	Good	Exemplary
Zoey	miprovernene		Υ	
Nora		Υ	-	
Lily	Υ			
Eleanor	Υ			
Hannah	Υ			
Lillian		Υ		
Addison	Y			
Aubrey	Υ			
Ellie		Υ		
Stella	Υ			
Natalie	Υ			
Zoe		Υ		
Leah	Υ			
Hazel	Υ			
Chris	Υ			
Andy			Υ	
Calvin	Υ			
Alex	Υ			
Robert		Υ		
Nick		Υ		
Brian	Υ			
Chris		Υ		
Dave	Υ			
Patrick		Υ		
Colin	Υ			
Michael	Υ			
Dan		Υ		

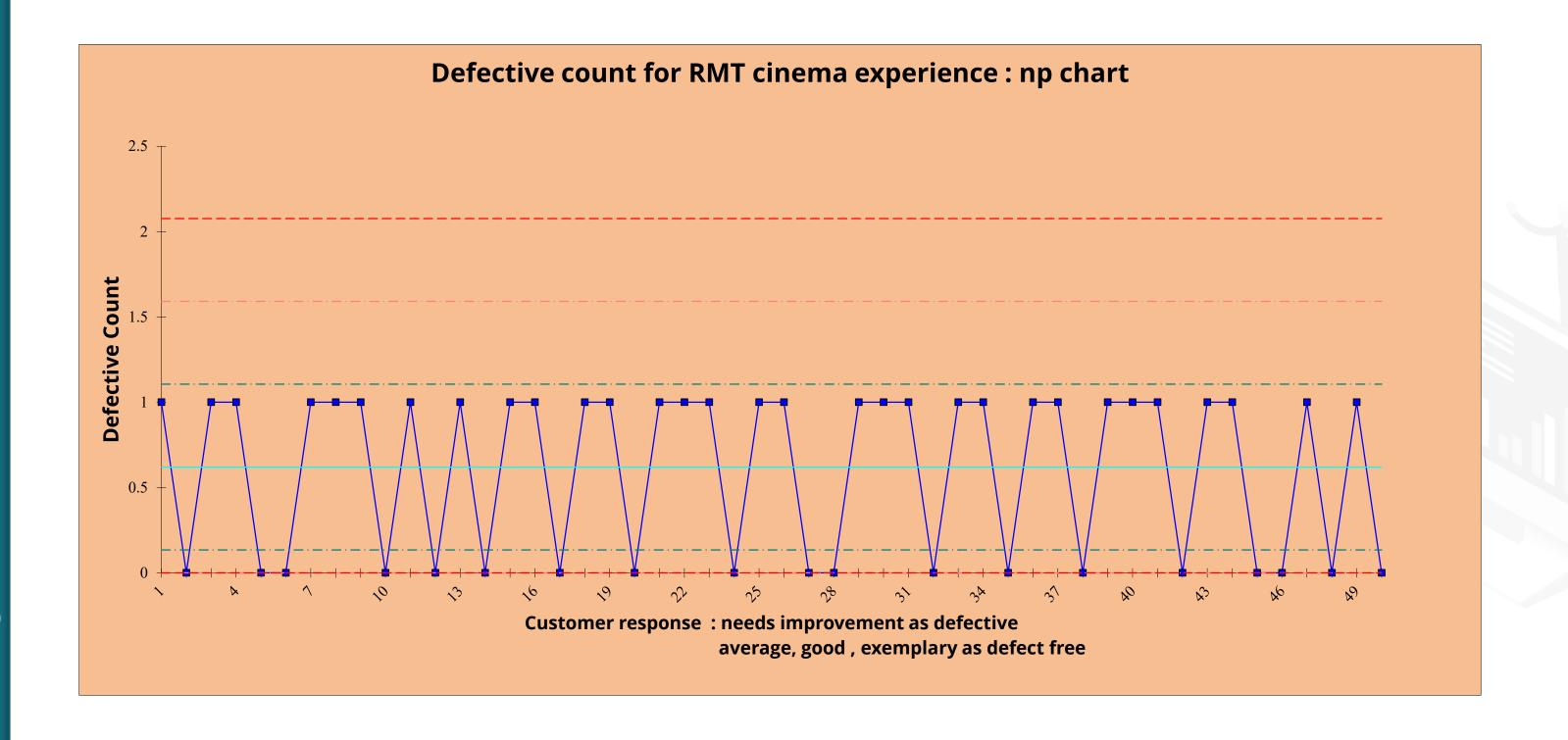
	Needs			
Names		Average	Good	Exemplary
Cı	Improvement			, ,
Steve	Υ			
Ben	Υ			
Adam		Υ		
Eric	Υ			
Jeff	Υ			
Andrew		Υ		
Matt			Υ	
Harry	Υ			
Joe	Υ			
George		Υ		
John			Υ	
Keith	Υ			
Kevin		Υ		
James	Υ			
Christian		Υ		
Mark	Υ			
Peter	Υ			
Zach		Υ		
Ryan	Υ			
Sam	Υ			
Tom		Υ		
Trevor	Υ			
Will	Υ			
Noah		Υ		
Austin				Υ
Jade	Υ			
Ashley	Υ			

Viewers' Cinema Experience Responses (40 Women and 40 Men) (Contd.)



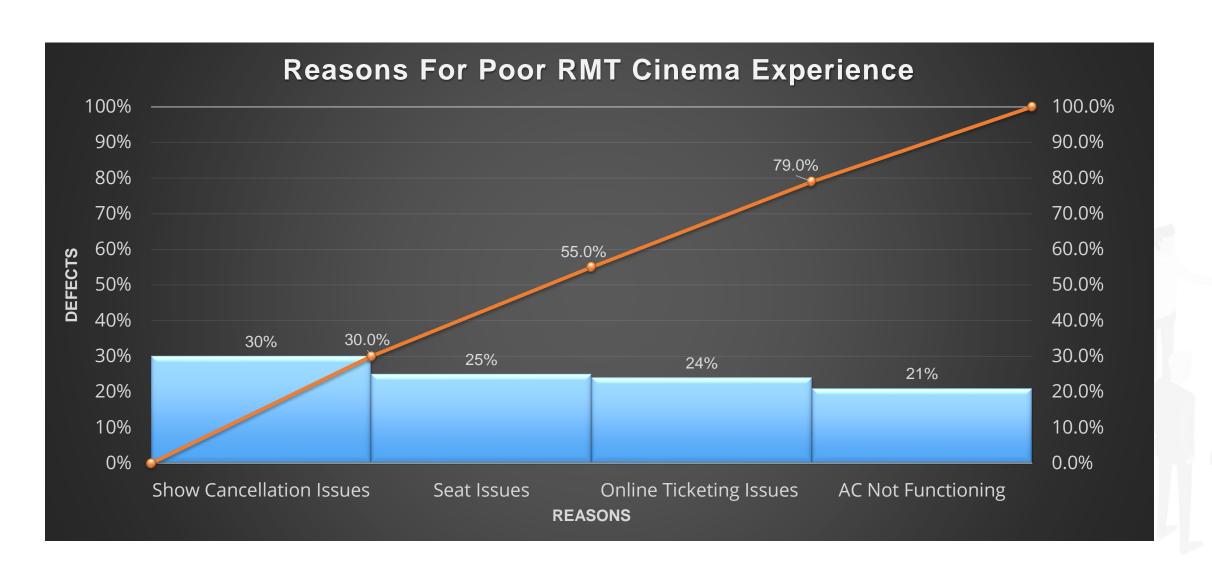
Women viewers are more uncomfortable with the RMT cinema experience than men viewers

Viewers' Cinema Experience Responses (40 Women and 40 Men) (Contd.)



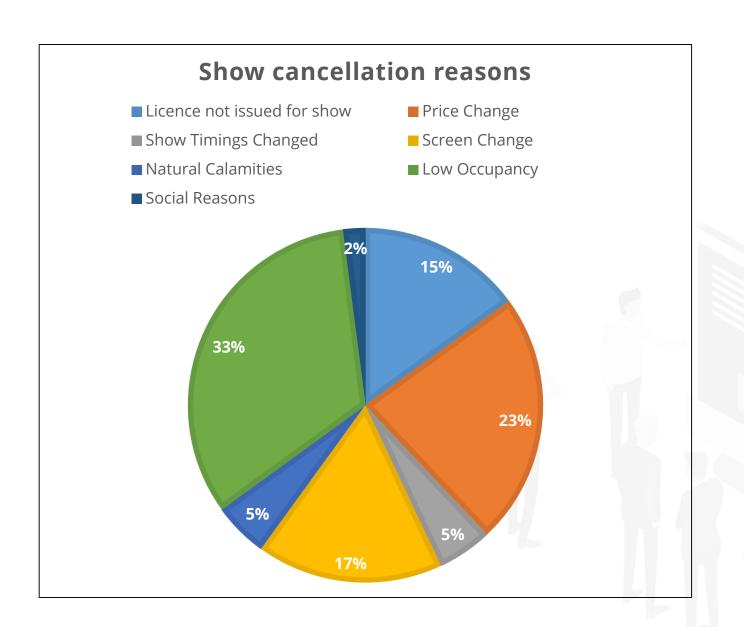
RMT Viewers' Poor Cinema Experience Reasons

Seat issues Online ticket booking issues		AC not functioning	Show cancellation issues	
25%	24%	21%	30%	



Reasons For Show Cancellation

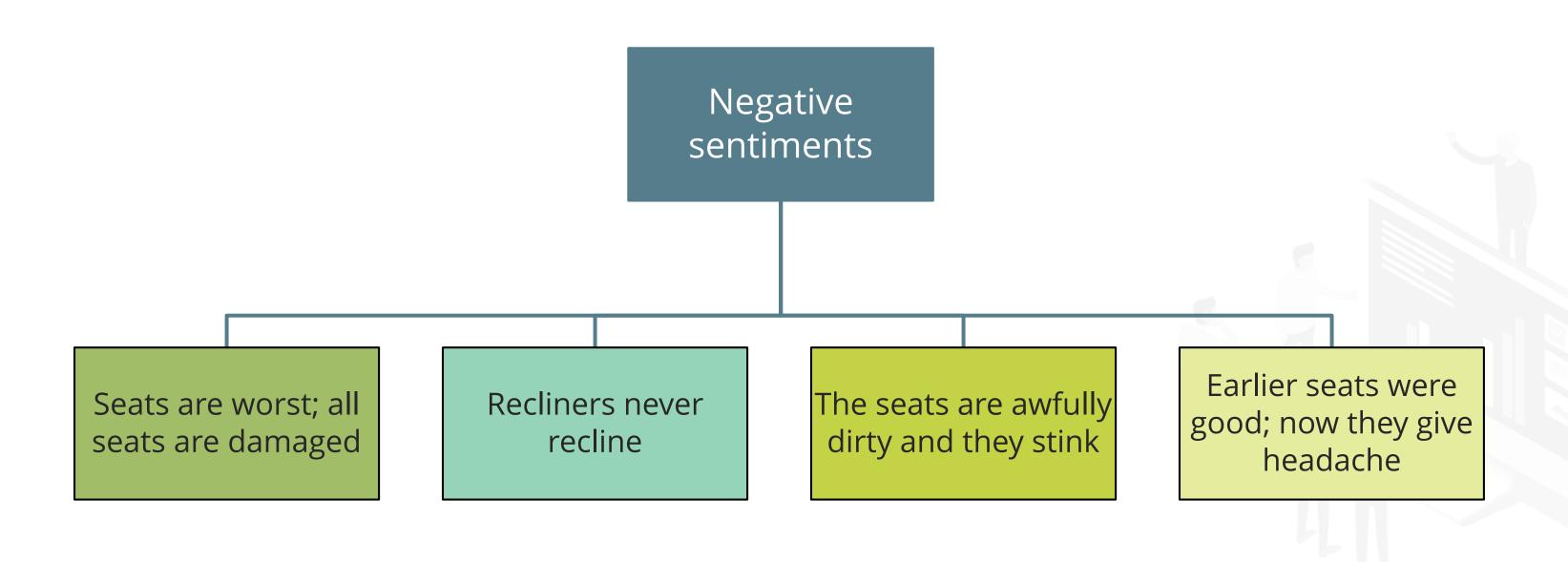
Reasons for show cancellations					
License not issued for show	15%				
Price change	23%				
Show timings changed	5%				
Screen change	17%				
Natural calamities	5%				
Low occupancy	33%				
Social reasons	2%				



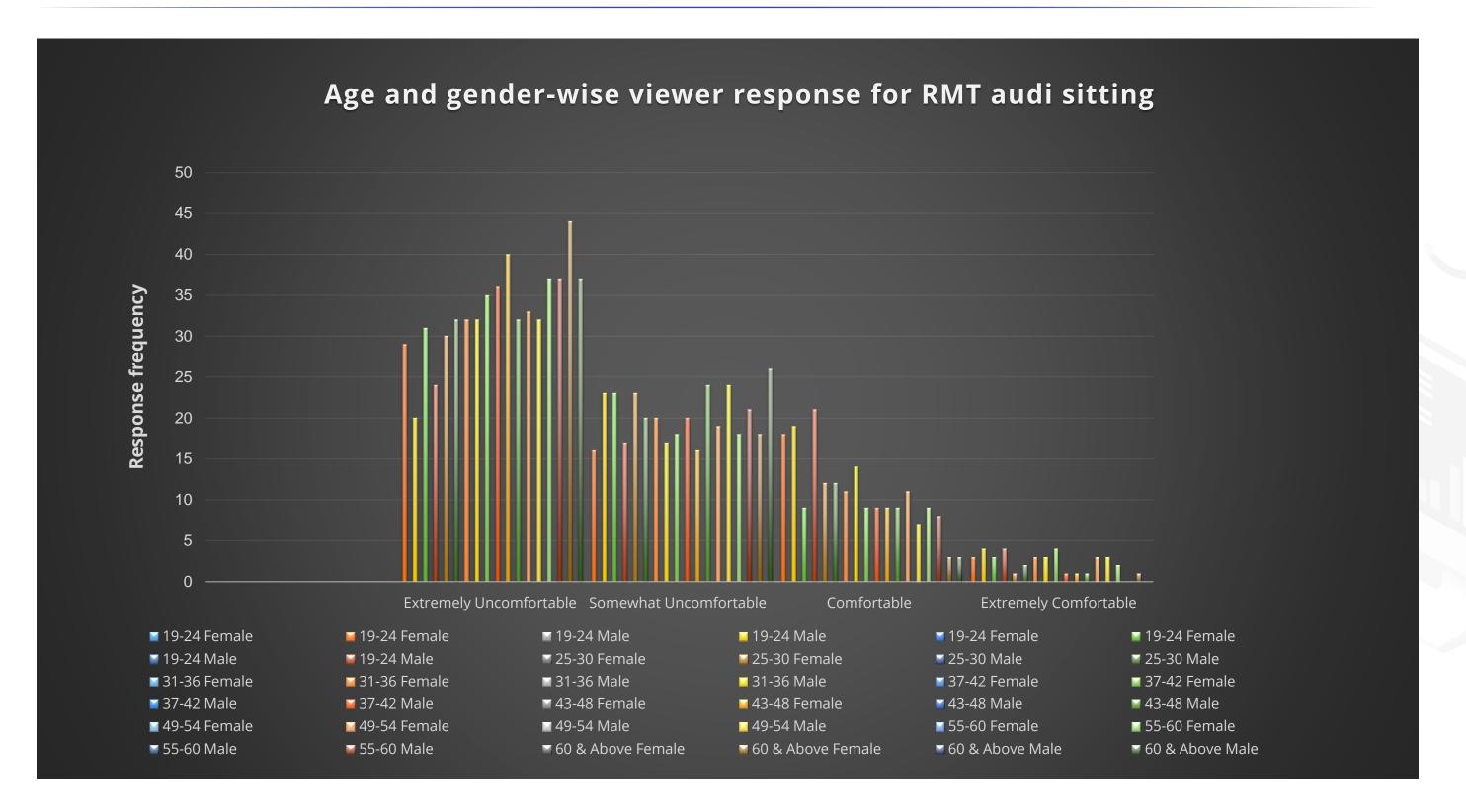
RMT Auditorium Seat Experience

			Response frequencies towards seats				
Age	Gender	Profession	Extremely uncomfortable	Somewhat uncomfortable	Comfortable	Extremely comfortable	
	Famala	Working	15	9	8	1	
10 24	Female	Student	14	7	10	2	
19-24	N/I-I-	Working	9	12	9	3	
	Male	Student	11	11	10	1	
		Working	16	11	4	2	
	Female	Not					
9-24		working/student	15	12	5	1	
9-24		Working	13	9	8	3	
	Male	Not					
		working/student	11	8	13	1	
	Famala	Working	17	11	5	0	
vE 20	Female	Not working	13	12	7	1	
25-30	NA-L-	Working	15	11	6	1	
Male	Male	Business	17	9	6	1	
	Fl.	Working	19	9	4	1	
4 26	Female	Not working	13	11	7	2	
31-36	Male	Working	15	7	9	2	
		Business	17	10	5	1	
		Working	18	9	4	2	
	Female	Not working	17	9	5	2	
7-42		Working	17	11	4	1	
	Male	Business	19	9	5	0	
		Working	21	9	3	0	
	Female	Not working	19	7	6	1	
3-48		Working	17	11	5	0	
	Male	Business	15	13	4	1	
		Working	16	8	6	3	
	Female	Not working	17	11	5	0	
9-54		Working	15	13	4	1	
	Male	Business	17	11	3	2	
		Working	20	7	5	1	
	Female	Not working	17	11	4	1	
5-60		Working	18	10	5	0	
	Male	Business/retired	19	11	3	0	
	_	Working	21	9	2	1	
) and	Female	Not working	23	9	1	0	
bove		Working	18	14	1	0	
	Male	Not working	19	12	2	0	

RMT Auditorium Seat Experience

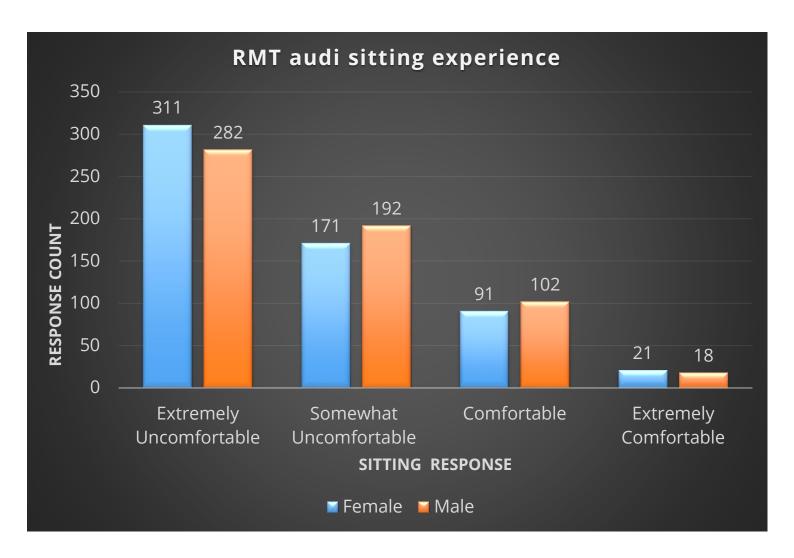


RMT Auditorium Seat Experience (Contd.)





RMT Auditorium Seat Experience (Contd.)



Gender responses	Female	Male	Female %	Male %
Extremely uncomfortable	311	282	26.17845118	23.73737
Somewhat uncomfortable	171	192	14.39393939	16.16162
Comfortable	91	102	7.65993266	8.585859
Extremely comfortable	21	18	1.767676768	1.515152

26.17% female viewers and 23.73% male viewers are extremely uncomfortable with RMT audi sitting experience.

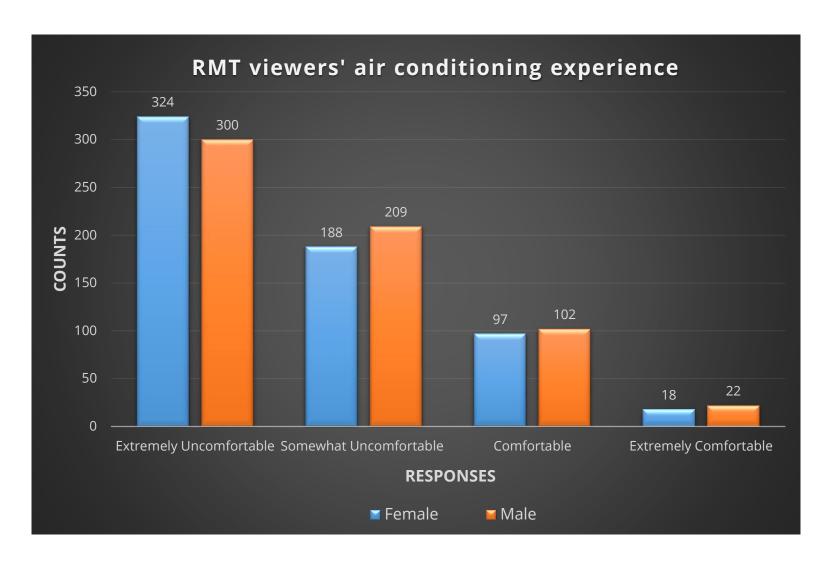
26.17% female viewers and 23.73% male viewers are uncomfortable with RMT audi sitting experience.

RMT Auditorium Air Conditioning Experience

			Response frequencies towards AC			
Age	Gender	Profession	Extremely uncomfortable	Somewhat uncomfortable	Comfortable	Extremely comfortable
	Fomale	Working	16	10	7	2
19-24	-24 Female Male	Student	15	8	11	1
19-24	Male	Working	10	13	Comfortable 7	2
	Iviale	Student	12	10	Comfortable 7 11 10 11 3 6 9 10 5 7 5 6 10 6 5 6 5 3 6 5 3 6 5 3 7	2
	Female	Working	18	13	3	1
10.24	remale	Not working/student	14	13	6	2
19-24	Mala	Working	14	11	11 10 9 5 13 7 9 7	1
	Male	Not working/student	13	11 9	10	1
Famala	Working	19	9	5	2	
Female	Female	Not working	14	13	7	1
25-30	NA -1 -	Working	18	9	7	1
	Male	Business	19	10	5	1
	F1-	Working	19	11	5	0
	Female	Not working	15	13	6	1
31-36		Working	16	8	10	1
	Male	Business	15	13		1
	E	Working	19	9	5	2
4-	Female	Not working	18	10	6	1
37-42	Male	Working	18	11	5	1
	Male	Business	19	11	5	0
		Working	23	8	3	1
40.40	Female	Not working	17	11	6	1
43-48		Working	19	11	5	0
	Male	Business	16	15	3	1
		Working	19	9	7	0
	Female	Not working	17	11	6	1
49-54		Working	17	15	2	1
	Male	Business	18	13	3	1
		Working	21	9	4	1
	Female	Not working	17	11	5	2
55-60		Working	19	11	4	1
	Male	Business/retired	19	12	3	1
		Working	22	9	3	1
60 and	Female	Not working	21	11	2	1
Above		Working	19	13	2	1
	Male	Not working	19	12	2	2



RMT Auditorium Air Conditioning Experience (Contd.)



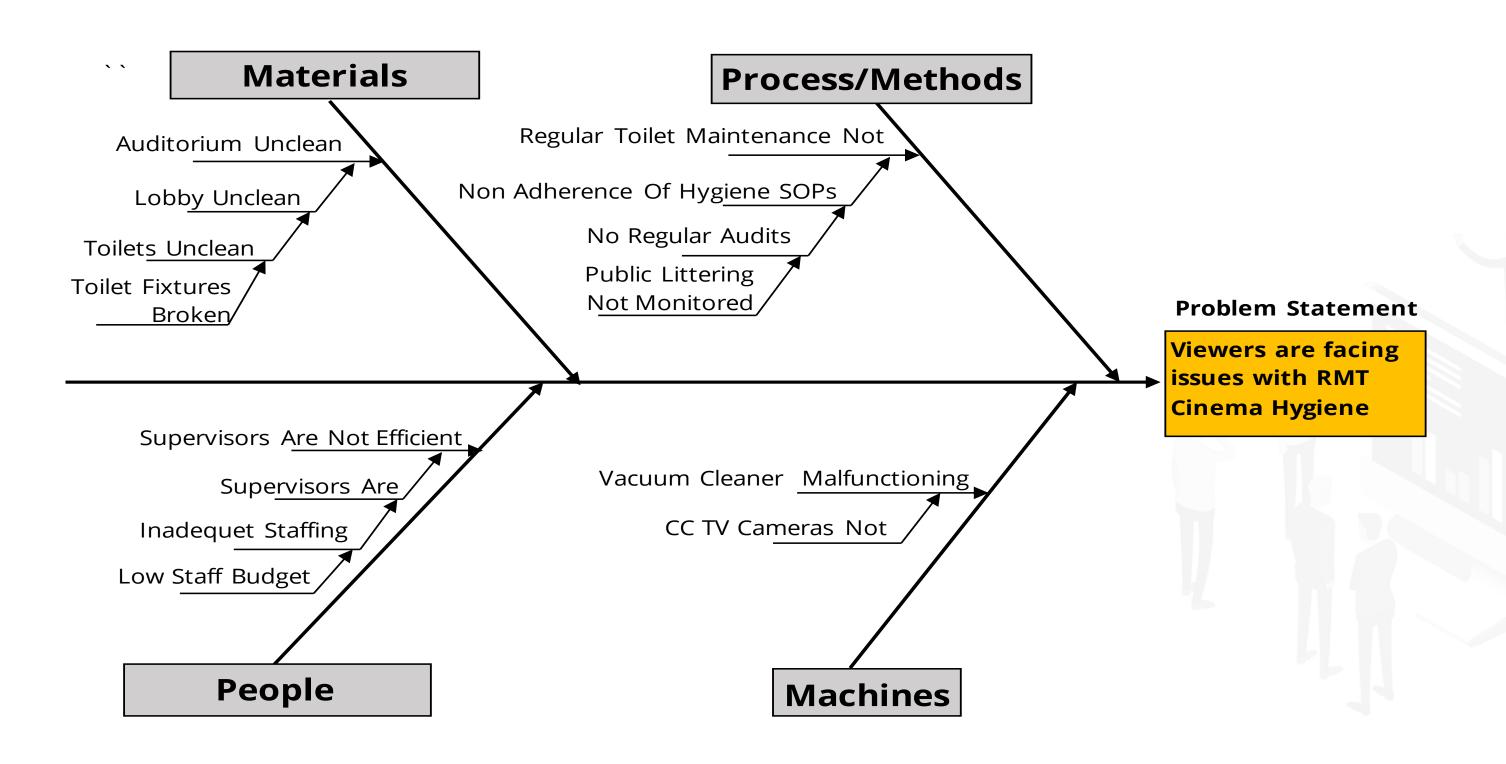
Gender responses	Female	Male	Female %	Male %
Extremely uncomfortable	324	300	25.71428571	23.80952381
Somewhat uncomfortable	188	209	14.92063492	16.58730159
Comfortable	97	102	7.698412698	8.095238095
Extremely comfortable	18	22	1.428571429	1.746031746

25.71% female viewers and 23.80% male viewers are extremely uncomfortable with RMT audi AC experience.

14.92% female viewers and 16.58% male viewers are uncomfortable with RMT audi AC experience.

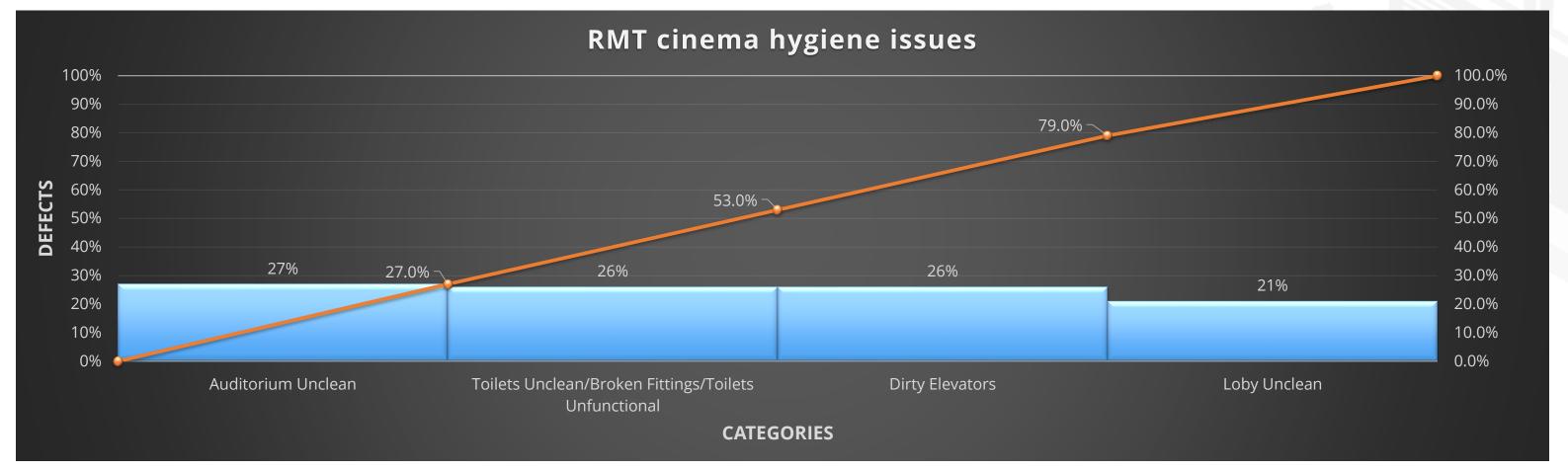


Cause and Effect Analysis



Cause and Effect Analysis (Contd.)

Theater hygiene issue:				
Auditorium unclean	27%			
Lobby unclean	21%			
Toilets unclean/broken fittings/toilets non-functional	26%			
Dirty elevators	26%			



SIPOC

S		P	0	С
Suppliers	Inputs	Process	Outputs	Customers
Provider RMT cinema	Input requirements and measures Box office	Start: Customer checks for movie at RMT online or offline	Output requirements and measures Movie ticket	Receiver Customers
Housekeeping RMT F and B	ABC security staff Elevator	High-level process description: Customer checks for the show timings	F and B experience RMT food and beverage items purchased by	
ABC security	RMT lobby	Customer checks for the ticket prices	customers	
RMT staff	Projector and sound			
	Screen	Customer chooses the seats in the auditorium		
	Recliner seats	Customer books the tickets online or at the counter by paying		
	Ac	Customer reaches RMT theater, 15 minutes prior to the show time		
	Lighting	Customer undergoes security check		
	F and B	Customer takes the elevator		
	Toilets	Customer reaches RMT lobby and waits		
	Drinking water	After auditorium cleaning is completed by RMT housekeeping, entry to audi is opened		
	Exit steps	Customer enters the auditorium		
		Customer sits on the allocated seat		
		During movie or during the interval, customer may use the toilets		
		During interval customer may order for RMT F and B		
		When movie is over, customer leaves the auditorium through the exit		
		End : Customer uses the exit steps to go out of the RMT cinema premises		



Cause and Effect Matrix

Kpovs	Viewer cinema experience	Viewer ticketing experience	Viewer amenities access	Rank
Weightage	10	9	9	
Kpivs				
Smooth ticket booking	7	10	0	160
Lobby clean and fresh	5	0	10	140
Auditorium clean and fresh	10	2	6	172
Perfect recliner seats	10	3	4	163
AC optimally working	10	2	3	145
Toilets clean, fresh and operative	6	3	10	177
Clean and functional elevators	5	2	9	149

PEOPLE AND PROCESS

Analyze Phase

RMT Viewers' Cinema Experience

Show cancellation reasons:

- 1. Low occupancy
- 2. Price change
- 3. Screen change
- 4. License not issued for show
- 5. Show timings changed
- 6. Natural calamities
- 7. Social reasons

Resolutions to stop show cancellation:

- Strict adherence of movie projections even at no guest attendance to save studio
- 2. Introduce dynamic pricing as per demands
- 3. Remove convenience charges for online bookings
- 4. Introduce **app** offers during off day or off beat show timings
- 5. Announce confirmed show timings and issue ticket after the license to projection is confirmed
- 6. Stringently follow one day advance booking policy
- 7. Take customer details at box office while issuing physical tickets for advance bookings
 - 3. Inform the viewers in advance for any changes/cancellations
- 9. Train staff to enable such **special case** management without viewer dissatisfactions



RMT Auditorium Sitting and Hygiene

Recliners maintenance:

- 1. Check and change the damaged seat covers
- 2. Check and repair the recliners for reclining
- 3. Check and change the seat sponge
- 4. Audit the recliners every 5 days
- 5. Disinfect the recliners after the last show every day
- 6. Monitor the viewers, damaging the seats intentionally at any point

Auditorium hygiene:

- 1. Clean and audit the auditorium after every show
- 2. Audit for SOP adherence
- 3. Deep disinfect and clean the auditorium every day after the last show
- 4. Change the carpets every month
- 5. Introduce weekly cleaning 5s
- 6. Clean and disinfect the AC ducts every week



RMT Auditorium AC and RMT Online Portals

Air conditioning maintenance:

- 1. Check and maintain the inner acoustic insulation on panels
- 2. Check and maintain the AC fans for low noise
- 3. Maintain AC for fresh air treatment with highly variable occupancy rate for comfort
- 4. Maintain air heating and/or air-cooling AC capacity
- 5. Monitor humidity control for viewers' comfort
- 6. Regular AMC to be done for the auditorium AC
- 7. Regular electricity consumption check to be performed

RMT online portals:

- 1. Extra **convenience charges** to be removed from RMT portal to empower viewers book tickets at their convenience
- 2. Introduce dynamic pricing through online portals
- Install better servers for faster and better online viewer experience
- 4. Launch and maintain **RMT app** for cell phone users
- 5. Provide bonus points for repeat bookings with RMT
- 6. Do regular maintenance of websites and apps with regular update posting
- 7. Encourage and monitor viewers' online reviews



RMT Theatre Hygiene

Lobbies and toilets maintenance:

- 1. Maintain lobby seats and tables after every 2 hours
- 2. Check and maintain lobby air conditioning regularly
- 3. Check and maintain lobby lightings
- 4. Repair the broken fixtures in the toilets
- 5. Disinfect the lobby and toilets in every shift
- 6. Ensure the toiletries are available for the viewers
- 7. Audit the toilets and lobbies for maintenance adherence and share reports in every shift

RMT elevator maintenance:

- 1. Regular monthly maintenance from the AMC
- During every shift, check the functioning of elevator buttons, lights, and fans
- 3. Audit the presence of elevator operators in every shift
- 4. Introduce weekly cleaning 5s
- 5. Clean and disinfect the elevators in every 3 hours
- 6. Maintain the reports with the senior management daily, weekly, and monthly

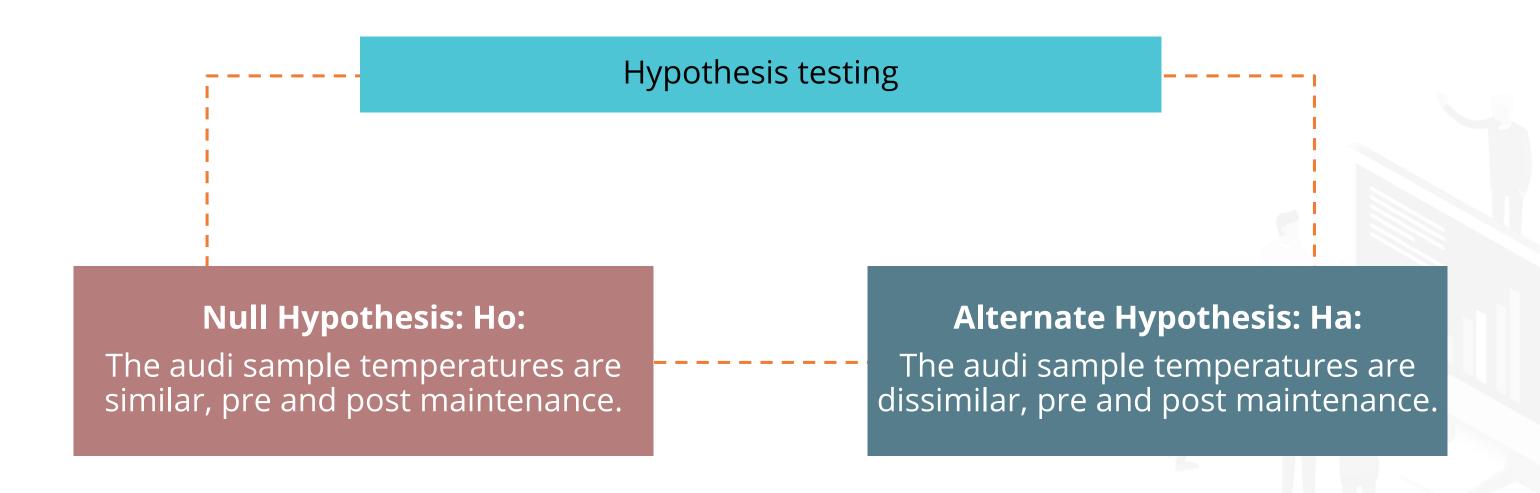


RMT Audi Temperature

Audi temperature sample in degrees pre maintenance	Audi temperature sample in degrees post maintenance
19	23
16	24
27	23
16	25
28	26
23	23
21	26
17	24
20	23
22	26
25	23
17	24
29	25
25	26
22	26
19	25
17	23
26	26
21	25
27	25



RMT Audi Temperature (Contd.)



RMT Audi Temperature (Contd.)

Hypothesis testing

T-test: paired two sample for means				
	Variable 2			
Mean	21.85	24.55		
Variance	17.92368421	1.523684211		
Observations	20	20		
Pearson correlation	0.288542573			
Hypothesized mean difference	0			
Df	19			
T stat	-2.97878469			
P(t<=t) one-tail	0.003857752			
T critical one-tail	1.729132812			
P(t<=t) two-tail	0.007715505			
T critical two-tail	2.093024054			

RMT Audi Temperature (Contd.)



P(T<=t) two-tail

0.007715505

Outcome: Reject null hypothesis

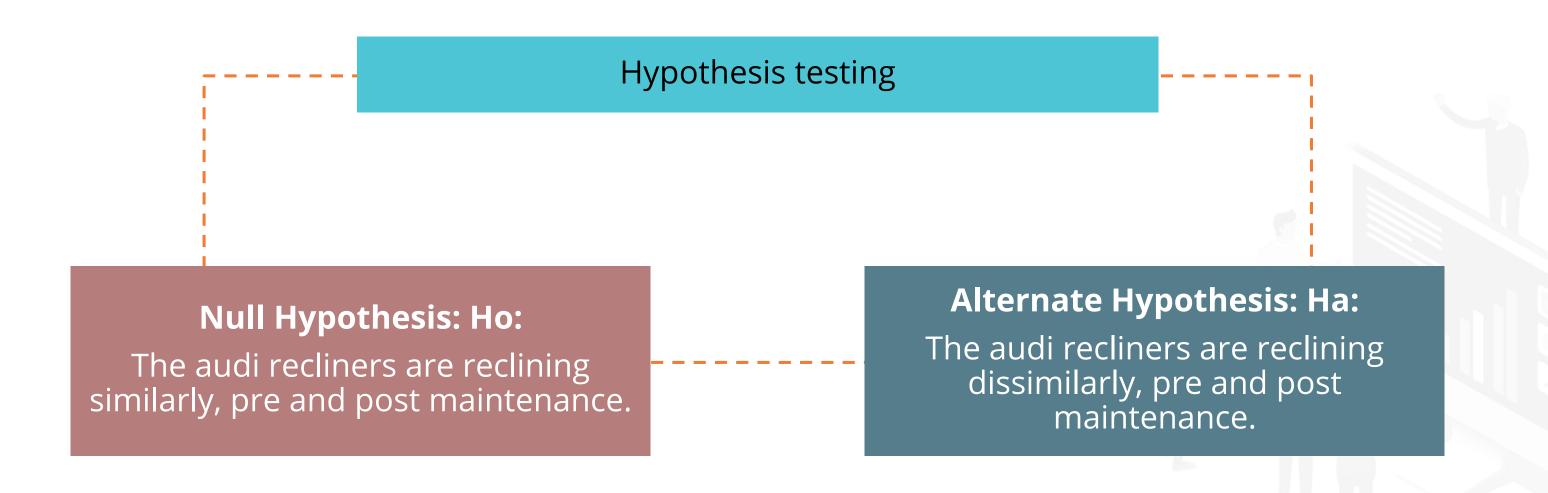
Alternate Hypothesis: Ha:

The audi sample temperatures are dissimilar, pre and post maintenance.

RMT Audi Recliner Tilt

Audi recliner seats maximum tilt in degrees before maintenance	Audi recliner seats maximum tilt in degrees after maintenance
112	128
105	129
96	128
98	130
113	130
108	128
99	132
115	133
117	127
129	128
97	130
96	131
119	127
123	128
126	128
95	132
94	127
115	130
112	129
121	131





Hypothesis testing

T-test: paired two sample for means					
	Variable 1	Variable 2			
Mean	109.5	129.3			
Variance	128.1578947	3.273684211			
Observations	20	20			
Pearson Correlation	-0.287788442				
Hypothesized Mean Difference	0				
df	19				
t Stat	-7.399063549				
P(T<=t) one-tail	2.61952E-07				
t Critical one-tail	1.729132812				
P(T<=t) two-tail	5.23904E-07				
t Critical two-tail	2.093024054				



P(T<=t) two-tail

5.23904E-07

Outcome: Reject null hypothesis

Alternate Hypothesis: Ha:

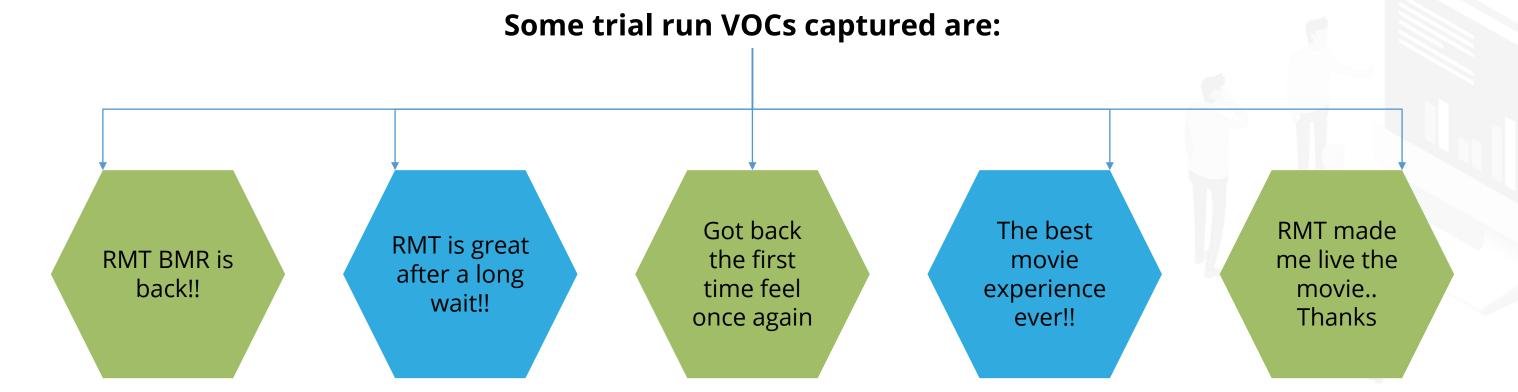
The audi recliners are reclining dissimilarly, pre and post maintenance.

PEOPLE AND PROCESS

Improve Phase

RMT BMR

A pilot is performed in AUDI 1 in RMT BMR for 3 weeks
Results are analyzed for the parameters in review

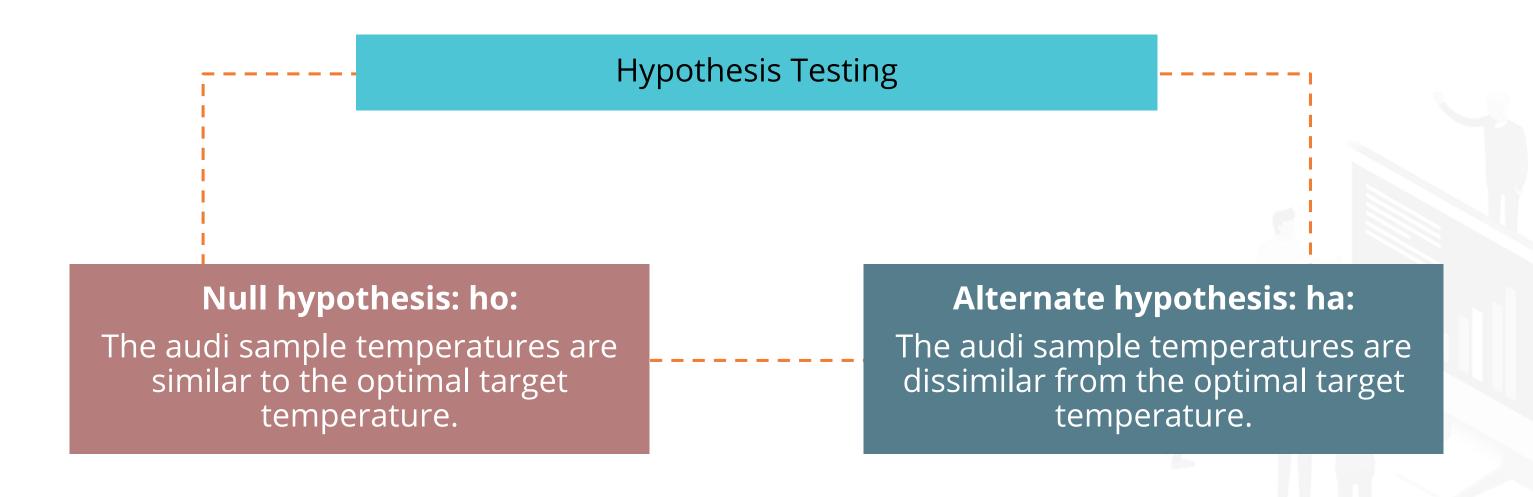


RMT Audi Temperature Optimality Analysis

Audi temperature sample in degrees post maintenance	Audi optimal target temperature in degrees
23	24
24	24
23	24
25	24
26	24
23	24
26	24
24	24
23	24
26	24
23	24
24	24
25	24
26	24
26	24
25	24
23	24
26	24
25	24
25	24



RMT Audi Temperature

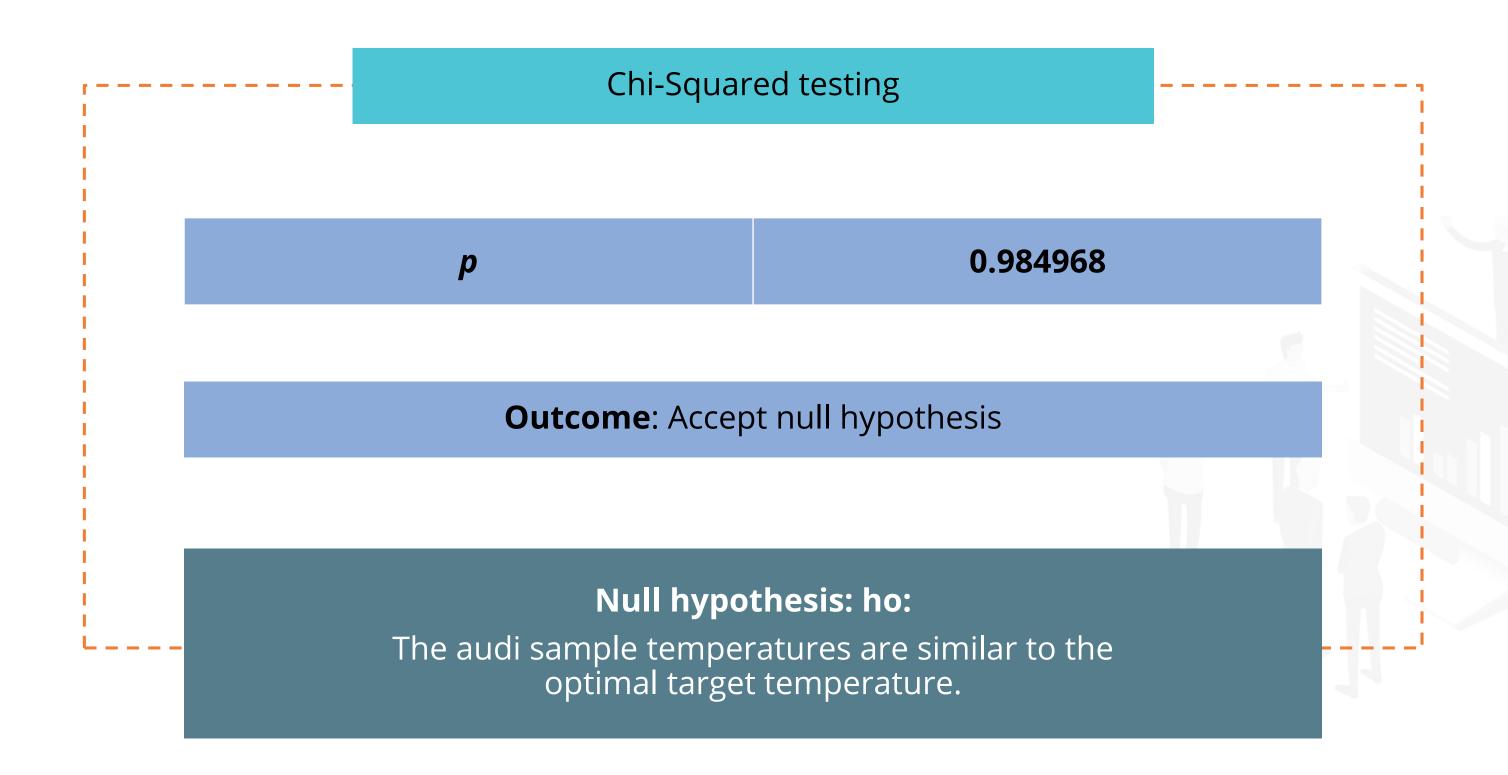


RMT Audi Temperature Optimality Analysis

Chi Squared Testing

Data1	Data2	Total	Chi-sq	8.161719	Total expected	Chi-sq expected
19	24	43	р	0.984968	20.49182	22.50818
16	24	40			19.06216	20.93784
27	24	51			24.30425	26.69575
16	24	40			19.06216	20.93784
28	24	52			24.78081	27.21919
23	24	47			22.39804	24.60196
21	24	45			21.44493	23.55507
17	24	41			19.53871	21.46129
20	24	44			20.96838	23.03162
22	24	46			21.92148	24.07852
25	24	49			23.35115	25.64885
17	24	41			19.53871	21.46129
29	24	53			25.25736	27.74264
25	24	49			23.35115	25.64885
22	24	46			21.92148	24.07852
19	24	43			20.49182	22.50818
17	24	41			19.53871	21.46129
26	24	50			23.8277	26.1723
21	24	45			21.44493	23.55507
27	24	51			24.30425	26.69575
437	480	917				

RMT Audi Temperature Optimality Analysis (Contd.)

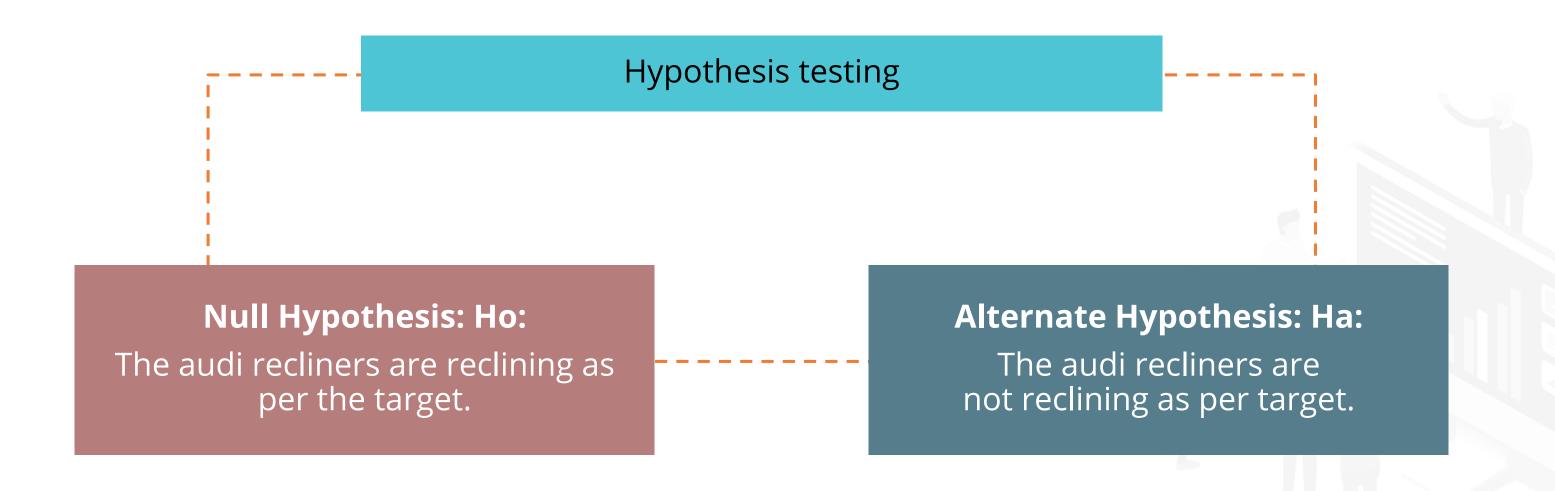


RMT Audi Recliner Tilt Goodness Analysis

Audi Recliner Seats Maximum Tilt In Degrees After Maintenance	Audi Recliner Seats Maximum Target Tilt In Degrees
128	130
129	130
128	130
130	130
130	130
128	130
132	130
133	130
127	130
128	130
130	130
131	130
127	130
128	130
128	130
132	130
127	130
130	130
129	130
131	130



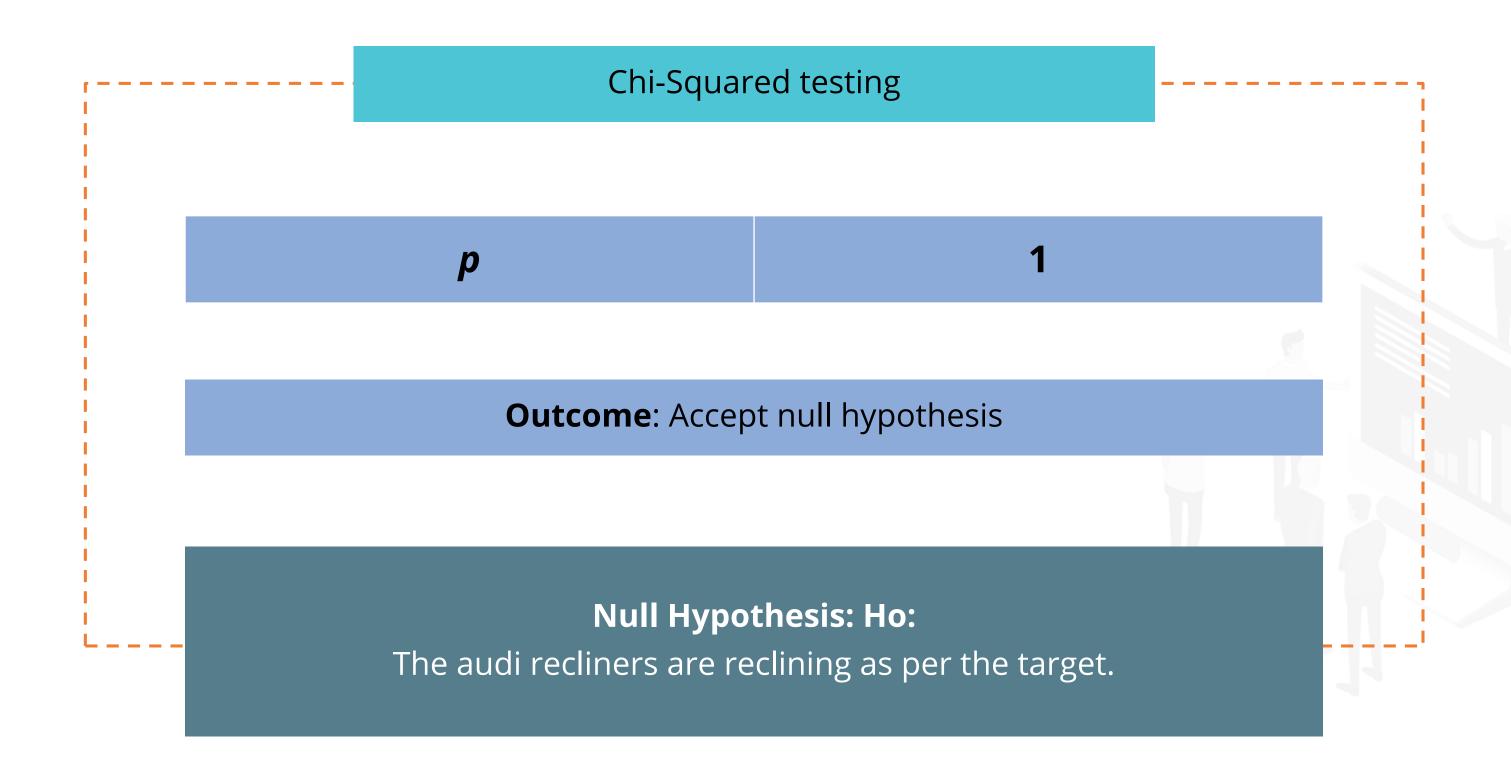
RMT Audi Recliner Tilt



Chi-Squared testing

Data1	Data2	Total	Chi-Sq	0.240506394	Total Expected	Chi-Sq Expected
128	130	258	р	1	128.6517547	129.3482453
129	130	259			129.1504049	129.8495951
128	130	258			128.6517547	129.3482453
130	130	260			129.6490551	130.3509449
130	130	260			129.6490551	130.3509449
128	130	258			128.6517547	129.3482453
132	130	262			130.6463556	131.3536444
133	130	263			131.1450058	131.8549942
127	130	257			128.1531045	128.8468955
128	130	258			128.6517547	129.3482453
130	130	260			129.6490551	130.3509449
131	130	261			130.1477054	130.8522946
127	130	257			128.1531045	128.8468955
128	130	258			128.6517547	129.3482453
128	130	258			128.6517547	129.3482453
132	130	262			130.6463556	131.3536444
127	130	257			128.1531045	128.8468955
130	130	260			129.6490551	130.3509449
129	130	259			129.1504049	129.8495951
131	130	261			130.1477054	130.8522946
2586	2600	5186				

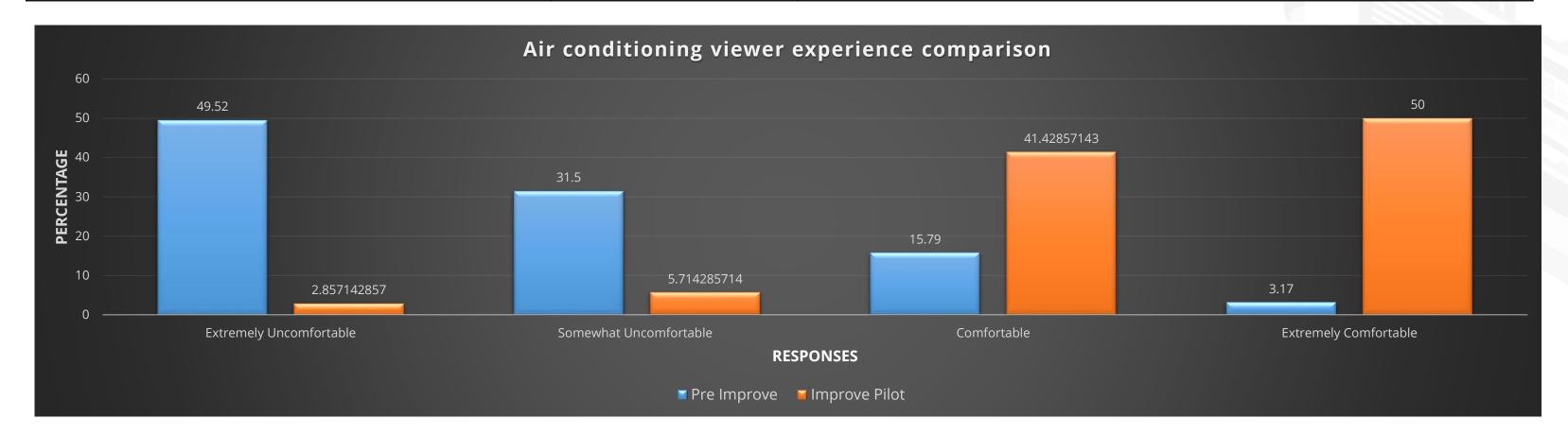




RMT Audi Temperature Viewer Experience

Response frequencies towards AC				
Extremely uncomfortable Somewhat uncomfortable		Comfortable	Extremely comfortable	
2	4	29	35	

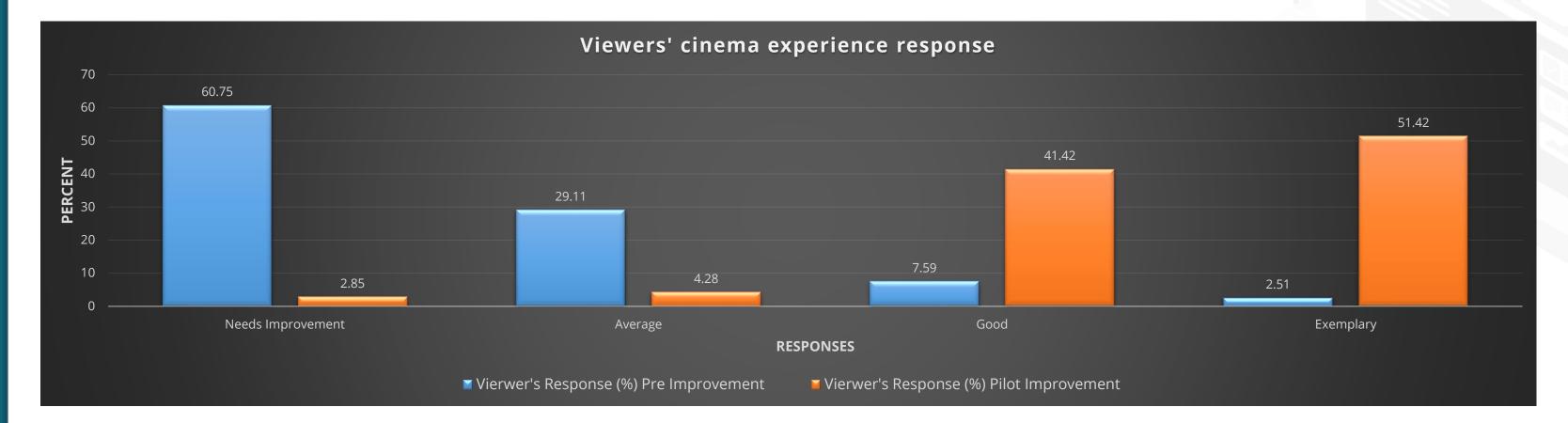
Responses	Pre-improve	Improve pilot
Extremely uncomfortable	49.52%	2.857142857%
Somewhat uncomfortable	31.50%	5.714285714%
Comfortable	15.79%	41.42857143%
Extremely comfortable	3.17%	50%



RMT Viewer Cinema Experience

Viewers' Cinema Experience Responses In Pilot Phase			
Needs Improvement	Average	Good	Exemplary
2	3	29	36

Responses	Needs Improvement	Average	Good	Exemplary
Viewer's Response (%) Pre-Improvement	60.75%	29.11%	7.59%	2.51%
Viewer's Response (%) Pilot Improvement	2.85%	4.28%	41.42%	51.42%



PEOPLE AND PROCESS

Control Phase

Implementation at Large

BMR and RSVO auditoriums maintenance

	Audi and recliner repair/maintenance		Air conditioning repair/maintenance	
BMR	Audi 1	Week 1	Audi 1	Week 3
	Audi 2	Week 2	Audi 2	Week 4
RSVO	Audi 1	Week 1	Audi 1	Week 3
	Audi 2	Week 2	Audi 2	Week 4
	Audi 3	Week 3	Audi 3	Week 5

Implementation at Large (Contd.)

BMR and RSVO lobby and toilets maintenance and staff recruitment and training

	Facilities		Recruitment and training	
DIAD	Lobby	Week 1	Recruitment and training	Phase 1
BMR	Toilets	Week 2	Recruitment and training	Phase 2
DCVO	Lobby	Week 1	Recruitment and training	Phase 1
RSVO	Toilets	Week 2	Recruitment and training	Phase 2

Summary

You should now be able to:

- Understand the Rexon Movie Theatre(RMT) project background
- Analyze the various factors that led to the customers being unhappy with the cinema experience at RMT
- Infer how the pilot run at Audi 1 helped improve the overall customer experience

