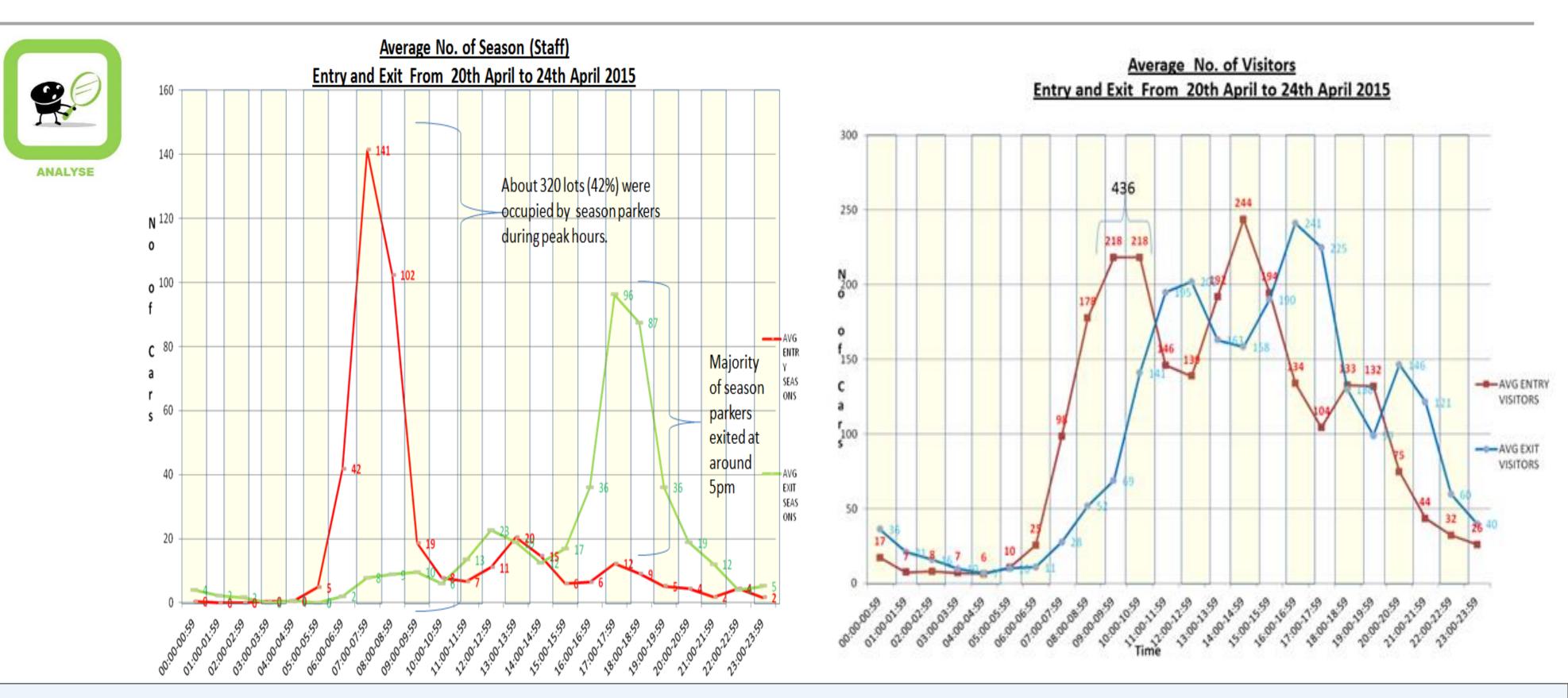
Improving Visitors Experience in Finding Parking Lots at KKH Basement Car Park



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NTRODUCTION

KKH Carpark Management Section (CM) is responsible to ensures that we meet the visitors' parking needs by having smooth operations of the carpark. CM also manage a team of valets who help to solve the parking problems faced by visitors. CM also manage staff season parking. The allocation of car parks is done in a transparent and equitable manner.



BACKGROUND

KKH carpark have seen an increase in the number of user since its opening in 1997. This is due to an increases in the services provided and increasing population. CM have introduce valet services in order to manage and reduce car park congestion. However notwithstanding the excellent services by the valet the traffic congestion condition have not seen an improvements.

METHODOLOGY



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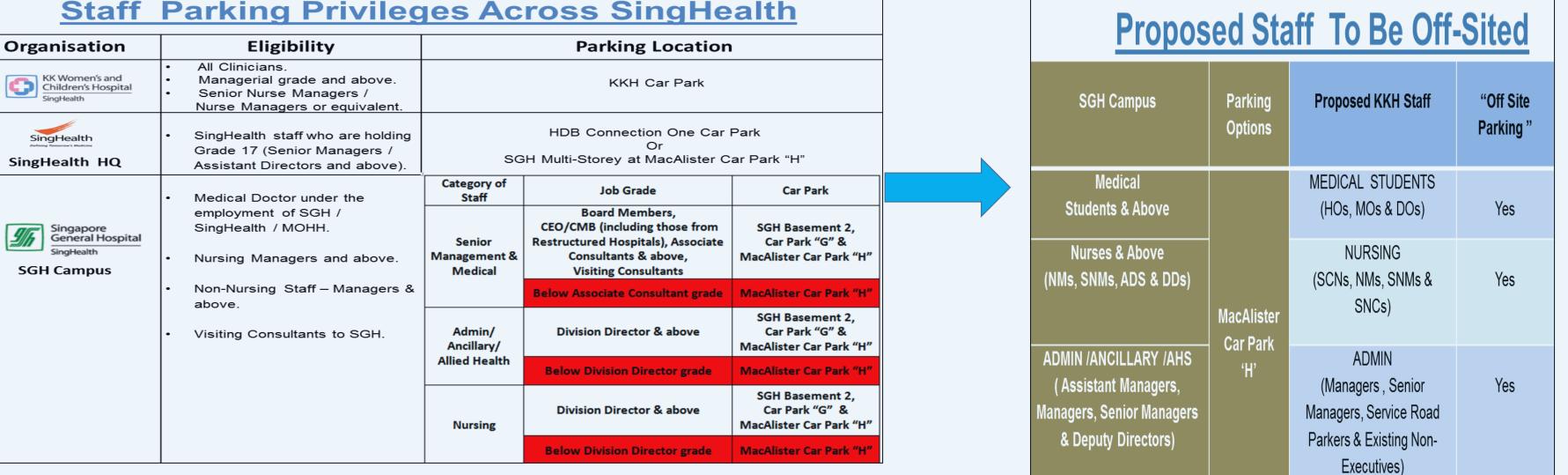
DMAIC is a highly effective, data-driven, five-step approach to business that is one of the many useful components of the Six Sigma toolkit. The main goal of DMAIC is to eliminate defects and improving quality-related business metrics.

Singapore Healthcare Management 2016

The Solution Selection Matrix

∩	Criteria Solutions		Acceptability	Low Cost	Effectiveness	Sustainability	Total Rating	Rank
	Building A New Car Park	1	1	1	1	2	6	5
IMPROVE	Having Valet parking Offsite	1	1	2	2	2	8	4
	Limiting Patients and Visitors Parking	1	1	з	2	2	9	з
	Limiting Staff Parking	1	1	4	2	2	10	2
	Offsite Car Parking for Staff	4	з	з	4	3	17	
					3]	4	
Rating Scale Strongly Disagree			Disagree		Agree		Strongly Agree	
<u>Benchmark</u>								
Staff Parking Privileges Across SingHealth					Proposed Staff To Be Off-Sited			

Organisation	Eligibility	Parking Location		
KK Women's and Children's Hospital SingHealth	 All Clinicians. Managerial grade and above. Senior Nurse Managers / 	KKH Car Park		



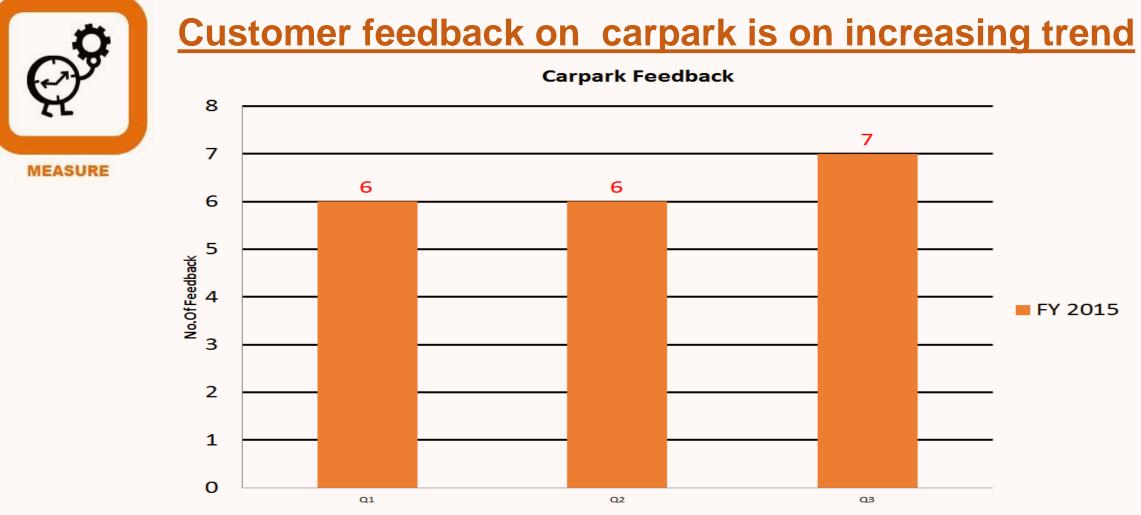
SIPOC is a high-level picture of the process that depicts how the

Define: To reduce congestion in KKH basement car park

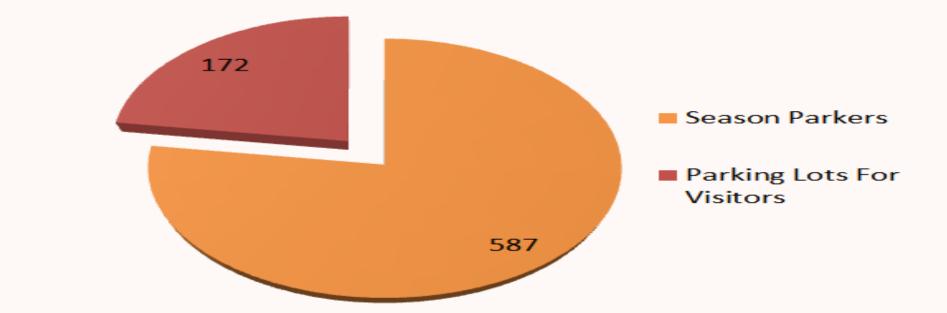
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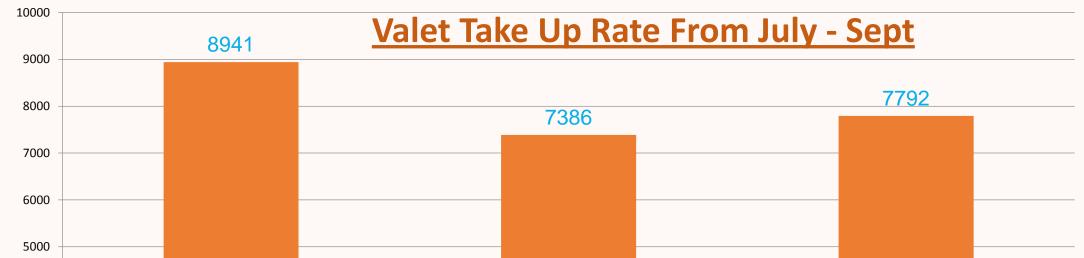


	Supplier	Inputs	Process	Outputs	Customers	
		Carpark Application Form	Received Application Form Check Application Form		Eligible Staff , Doctor on Attachment	
			Asssigned Parking Priviliges	Parking Priviliges,		
			Asssigned Duration of Parking Priviliges	Valet , Entry & Exit		
	Carpark Management		Informed User on their application			
			status			
		CEPAS Enabled Card			Patients	
			Gantry Accepted	Entry & Exit	Tenants	
				Valet	Visitors	



In KKH, we have 560 car parks lots. Out of the maximum capacity of 756 cars "parkable" we have 587 (78%) seasons holders. **Parking Lots By Allocation**





Implementation

After the data had analysed. We analysed the roots cause by using fish-bone diagram .One solutions were selected to reduce congestion at the car park.

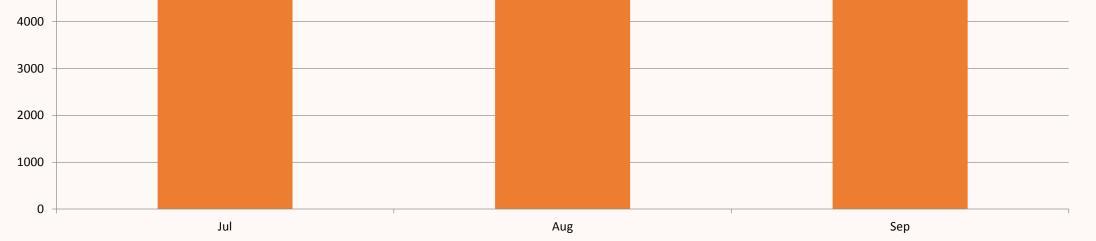
- 1. Seek approval from Senior management
- 2. Department Head to communicate to affected staff
- 3. Personalised letters, contained map, direction and FAQ were given to affected staff
- 4. Appoint contact person to answer queries
- 5. Conduct tours to the off side to familiarise staff with the new location

Result

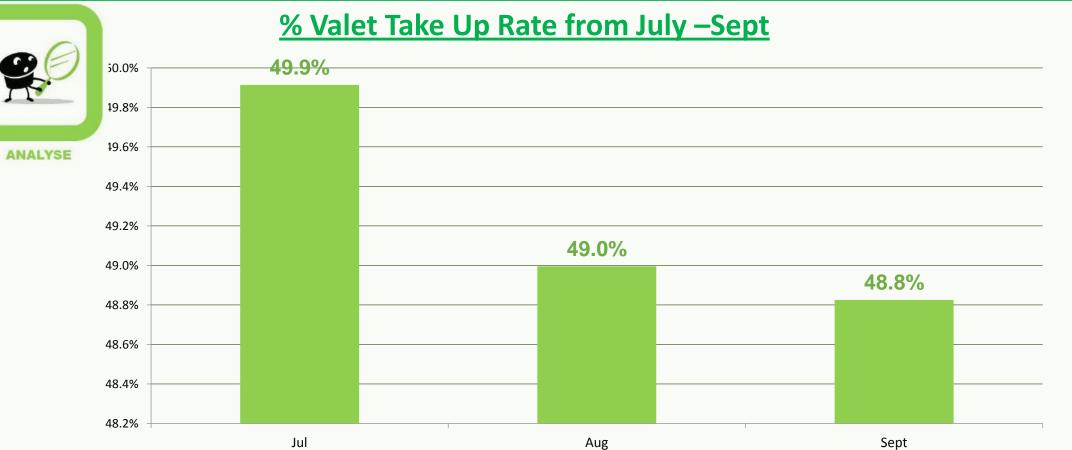
The number of season holder parking lots at KKH drops to 40%.

Feedback received from the last 2 quarters averaging 1.5

The valet take up rate from the last 3 months averaging 43%. A reduction cost for out sourced valet manpower. As the usage of valet services decreased we are able to reduce the number of valet from 8 to 3 person manning the counter. This is a saving of \$425 per day . A saving of \$20,400 per year .



The number of visitors and staff using the valet services is consistently on the high side averaging 8040 take up from July to September.





P&P was revised to include new process flow

E-mail blast was send to department secretaries every month to remind to submit any new applicant 2 weeks in advance.

- Weekly staff update on the car park occupancy.
- 4) Presently working on e-form.

Conclusion

Significant process improvements have been achieved from this project, overall:

Streamlined Car Park applications – Improved the turnaround efficiency and reduced time

Time-saving-Visitors don't have to circle the car park to find parking lots

Cost-saving- Significant costs saved through reduction in the cost of valet staff

Improved Teamwork and Communication -Better collaboration and relationship with stakeholders, showcasing strong focus on KKH's core values.

The valet services performance index was peg at 20%. Based on the data the valet have serves an average 49% of the car park user. The valet service is operating more than double their performance index