TOILET SURVEY STUDY 2011

EXECUTIVE SUMMARY

From 11-29 December 2011, a class of 21 graduating students from the Ngee Ann Polytechnic's School of Business and Accountancy conducted a comprehensive toilet survey (refer to annex for the results) of 500 Singaporeans and PRs ranging from age 18-65. The survey covered 5 core sections as follows:

- A) Toilet happiness
- B) Facilities, design and maintenance of toilets
- C) User experience
- D) Awareness, education and enforcement
- E) User and cleaner behaviour

Based on the survey findings consolidated by the students, the Restroom Association (Singapore) or RAS is proposing a holistic approach to enhance the standard of the restroom environment as follows:

- 1. Mandatory rating scheme for toilets
- 2. Continued government intervention and enforcement
- 3. Specialised training of restroom attendants
- 4. Higher toilet design guidelines
- 5. Effective public awareness and engagement

SUMMARY OF FINDINGS

Overall

- 1. Most of the respondents were either very unhappy or unhappy with the cleanliness of coffee shops and hawker centres followed by bus interchanges, parks and MRT stations. Most felt that the rating of toilets should be made compulsory.
- 2. About half were very unhappy or unhappy with users' efforts while most remained neutral about owners' efforts and government intervention. The respondents were happiest about the effort of cleaners.
- 3. About half felt that users are most responsible for keeping the toilets happy followed by owners and cleaners.
- 4. With regard to the need for improvement, respondents ranked toilet cleanliness first followed by its maintenance and design.
- 5. Respondents felt that the main cause of dirty toilets was irresponsible users.
- 6. Respondents felt that it was most important that users took responsibility for maintaining toilet cleanliness.
- 7. There is also a need for owners and cleaners to step up efforts in keeping toilets clean.

Facilities

- 1. Generally, toilets in Singapore possess basic facilities and average levels of cleanliness.
- 2. Monitoring of the odour problem and the sensor automatic flushing system is needed.
- 3. Sanitary bins, urinals and toilet bowls are the least clean facilities.
- 4. Male toilets are dirtier than female toilets.
- 5. Public parks, pools and food establishments have dirty walls and doors.
- 6. MRT stations, bus interchanges and food establishments have dirty toilet bowls and urinals.
- 7. Schools and food establishments have dirty washbasins.
- 8. Public parks, swimming pools and schools have dirty sanitary bins.
- 9. Food establishments have the worst ventilation.
- 10. Many locations have dirty floorings.

Design

- 1. About half of the respondents responded that the cubicle door space was tight.
- 2. Correct positioning and adequate provision of hand dryers are needed because few would use the hand dryer frequently and most who did not use the hand dryer would use it if it is within reach.
- 3. Design preference:
 - Slide latch/turn knob door lock
 - Sit type toilet bowl
 - Drum roll toilet paper dispenser
 - Individual wash basin
 - Automatic tap and soap dispenser
 - Automatic hand dryer (female) vs Jet (male)
 - Full length mirror
 - Urinal with modesty board

Awareness, education and enforcement

- 1. Though educational posters did remind users to keep the toilets clean, less than half noticed the presence of posters.
- 2. Though about half felt that users should be responsible in enforcing cleaner toilets, few would consider even gently reminding those who dirty the toilet.
- 3. Some felt that enforcement would propel everyone to react faster.

User Behaviour

- 1. Generally, respondents are neutral with regard to toilet cleanliness.
- 2. The top three user behaviours were splashing water on the floor, not flushing after use* and litter in urinals and toilet bowls*
- 3. Only a third of the respondents would not visit an establishment selling good food if its toilets were the dirtiest.
- 4. Few would inform owners or cleaners to clean up dirty toilets.
- 5. Few would consider even gently reminding others who dirty the toilet.

*Attributed more to ineffective/malfunctioned automatic flushing system than poor user behaviour

RECOMMENDATIONS

1. Mandatory rating scheme for toilets

Locals were either very unhappy or unhappy with the cleanliness of coffee shops (Qn A2: 61.3%) and hawker centres (57.1%) followed by bus interchanges (43.5%), parks (40.3%) and MRT stations (32.4%). For a start, the government should consider a mandatory rating scheme for the coffee shops and hawker centres. Many (Qn D5: 82.8%) felt that a compulsory grading scheme for all public toilets is needed. The current Happy Toilet Programme (HTP) is a voluntary scheme.

2. Continued government intervention and enforcement

Though about half (*Qn D4: 40.6%*) felt that users should be responsible in enforcing cleaner toilets, few (*Qn E6: 18.2%*) would consider even <u>gently</u> reminding others who dirty the toilet. The government (*Qn D4: second highest at 33.8%*) should therefore continue its efforts to enforce cleaner toilets. Moreover, few (*Qn E3: 15.2%*) would inform errant owners or cleaners to clean up dirty toilets. Given that businesses at food establishments selling <u>good food</u> would not be much affected by their dirty toilets, errant owners will not see the need to clean up their toilets. (*Qn E2: 34.8%*).

3. Specialised training of restroom attendants

With regard to the need for improvement, respondents ranked toilet cleanliness (*Qn A5*: 84.6%) first followed by its maintenance (76.8%) and design (57.8%). Therefore, the cleanliness and maintenance of toilets have to be addressed. Take for instance, to resolve the odour problem (*Qn C3*: 47.61%) and functionality of the sensor automatic flushing system (*Qn E7*: second highest), owners should not only step up cleaning and inspection schedule but also hire cleaners who have undergone the toilet cleaning and inspection course. More attention should be focused on the regular cleaning of sanitary bins, urinals and toilet seats (*Qn C2*) as they are the least clean facilities.

4. Higher toilet design guidelines

Better designs will help provide a more pleasant experience for the users. Therefore, owners should look into the design preference (Qn B1- B9), cubicle door space (Qn C3: 43.6%) and positioning of the wash basins, soap dispensers, hand dryers (Qn B10: 23% vs B11: 70%) and litter bins. Provision of litter bins near urinals can resolve the problem of littering in urinals (Qn E7). More comprehensive guidelines on toilet designs and maintenance should be established for owners to adhere to. The guidelines in Japan can serve as a reference guide.

5. Effective public awareness and engagement

Apart from poster displays, other means of reaching out to the public are needed such as our existing education programmes for preschools, schools and the general public. If posters are to be displayed ($Qn\ D1: 48.6\%\ vs\ D2: 76.1\%$), they should be captivating and strategically displayed such as near the wash basins, urinals and cubicle areas. The public are generally not associating dirty toilets with food, safety and health ($Qn\ E2: 65.2\%$). Therefore, the content should adopt the deterrent approach such as fatal consequences of unhygienic practices. Materials can be targeted and focussed on the following user behaviours ($Qn\ E7$):

- a. Splashing of water on the floor
- b. Not flushing after use*
- c. Litter in toilet bowls or urinals*
- d. Littering on toilet floors
- e. Not washing hands after use
- f. Footprints on toilet seats

*Educational messages conveyed to the public should be to ensure toilet bowls and urinals are flushed before leaving.

Apart from awareness, means of engaging the public are also important. Since adopting the approach of users policing users (*Qn E6: 18.2%*) is not appropriate, engaging the public to take ownership should be promoted such as picking up litter in the toilet even if it is left behind by others.

CONCLUSION

RAS will work with its identified key players to enhance the standard of the restroom environment as follows:

Government

- Mandatory rating scheme for toilets
- Continued government enforcement and intervention
- Specialised training of restroom attendants
- Higher toilet design guidelines

Owners especially coffee shops and hawker centres

- Specialised training of restroom attendants
- Higher toilet design guidelines
- Effective public awareness and engagement

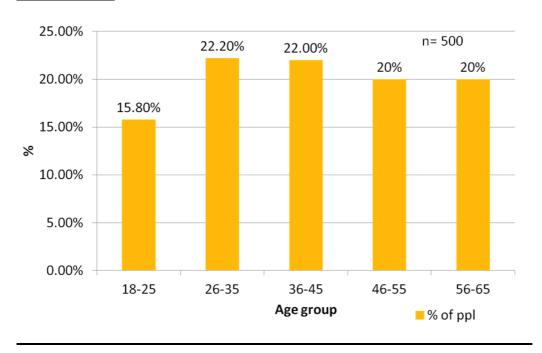
The Keep Singapore Beautiful Movement, Public Hygiene Council and Singapore Kindness Movement

Effective public awareness and engagement

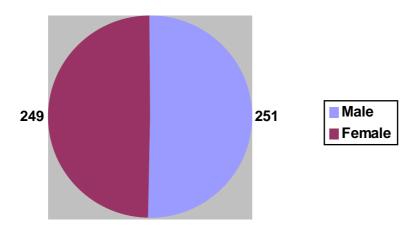
ANNEX

SURVEY RESULTS

AGE GROUP

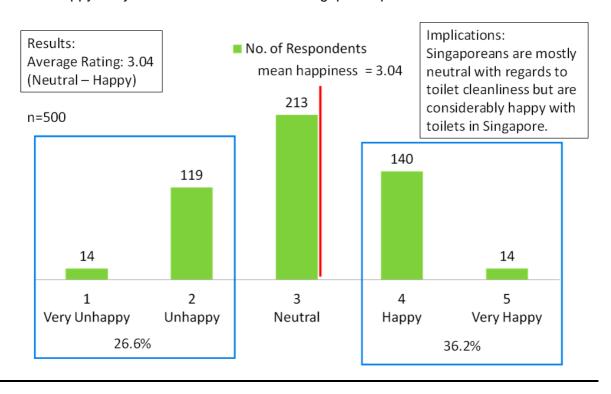


GENDER

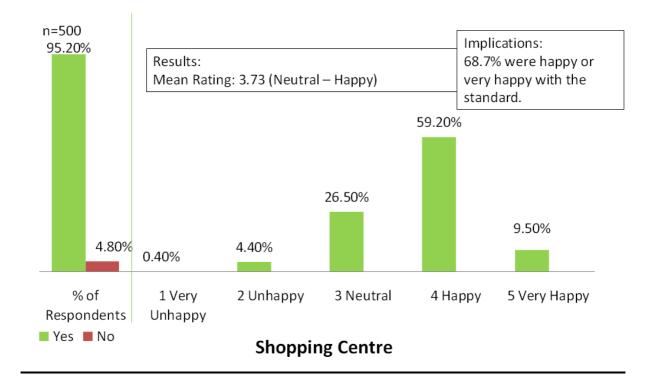


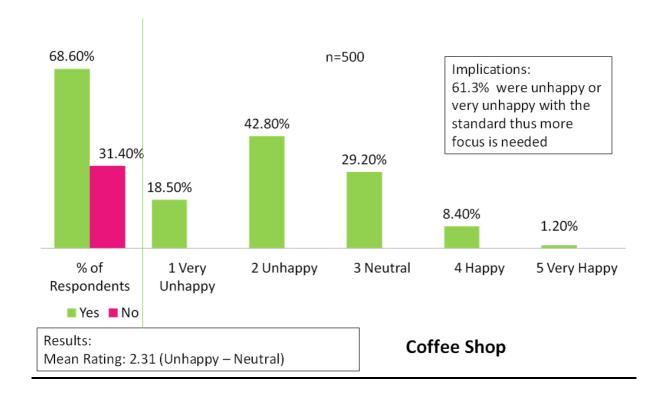
SECTION A: TOILET HAPPINESS

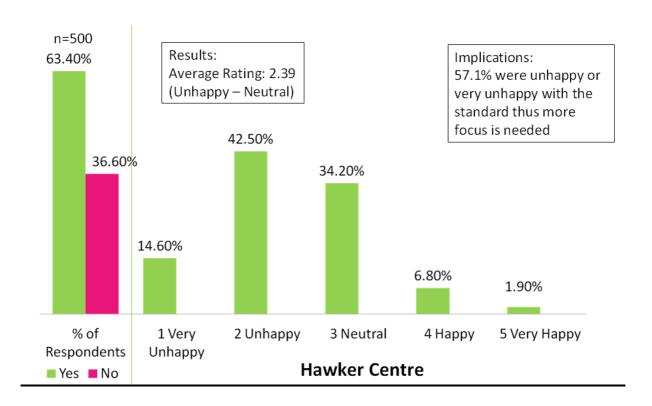
A1. How happy are you with the cleanliness of Singapore's public toilets

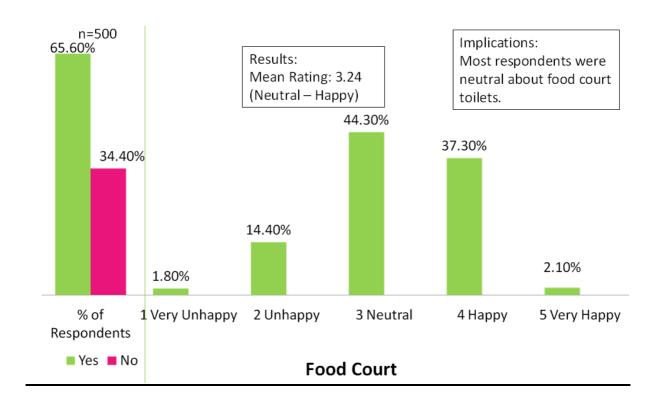


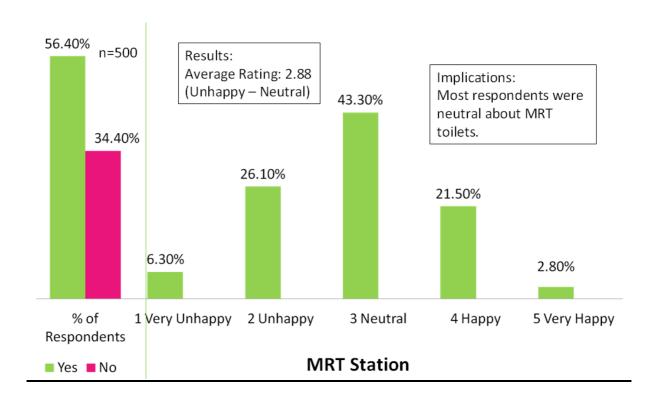
A2. In the last one month, which toilets have you visited? Please rate how happy are you with cleanliness of the toilets you have selected.

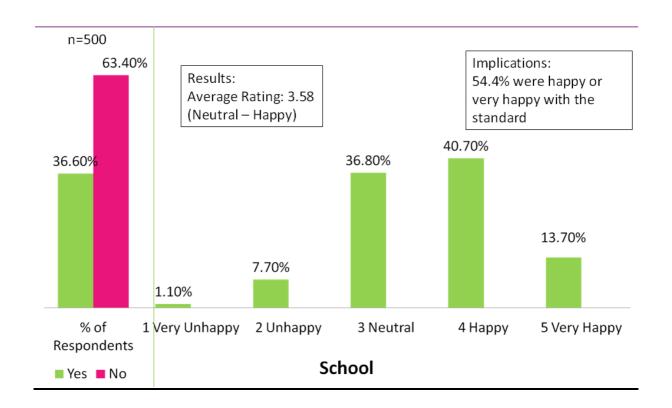


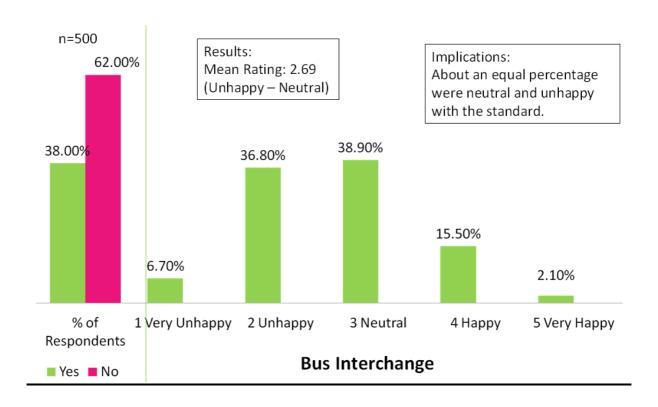


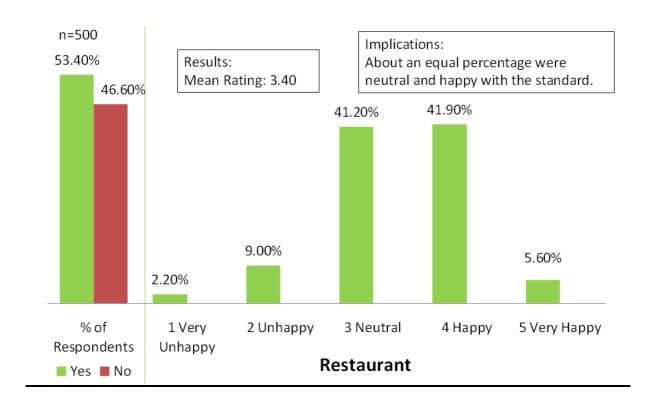


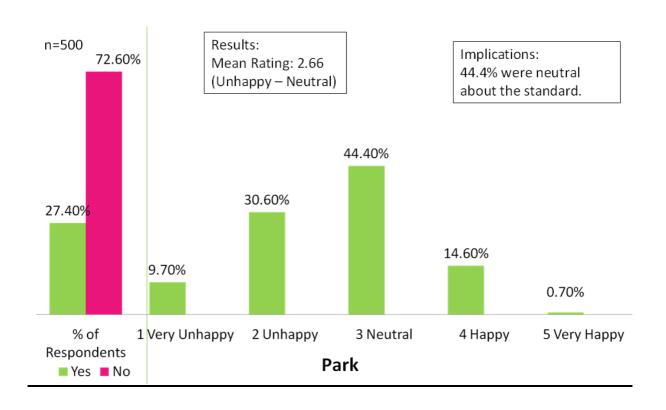


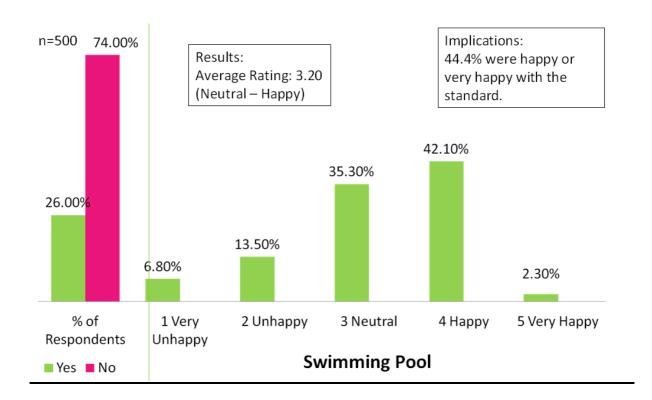


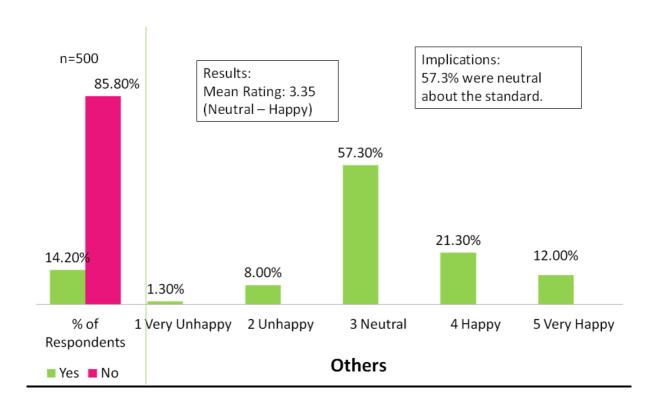




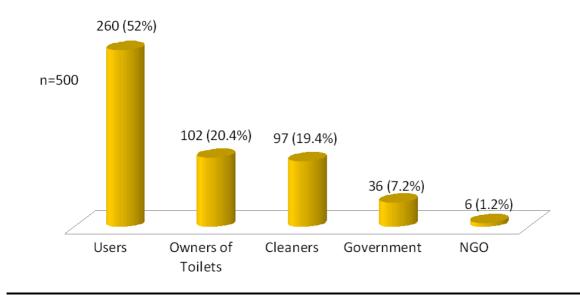




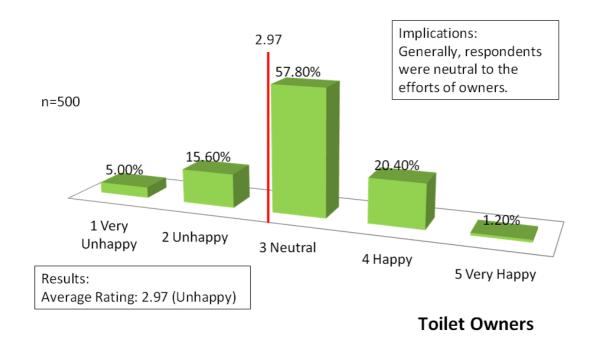


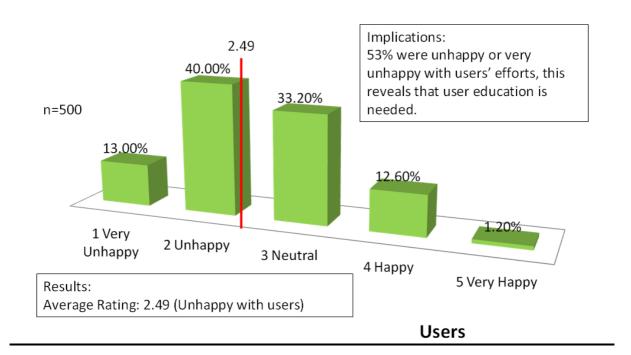


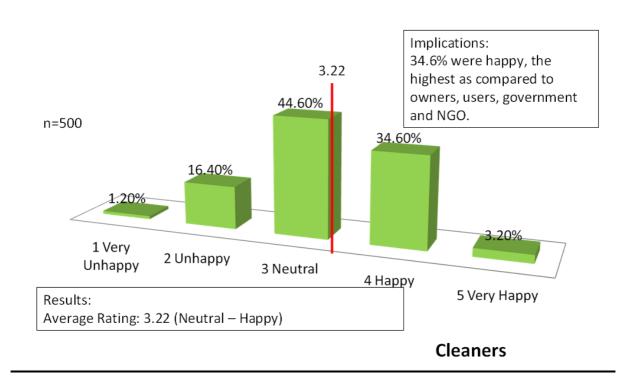
A3. Who do you think is responsible for keeping the toilets happy for you? Please rank in order of responsibility.

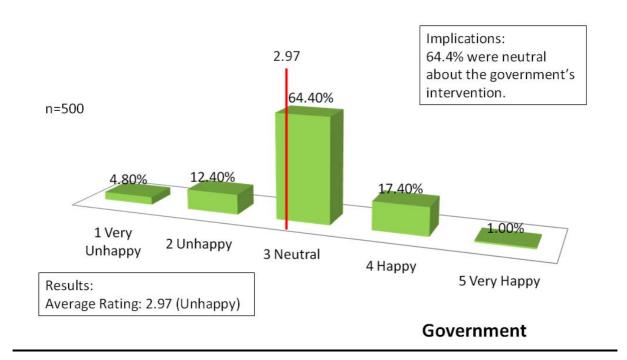


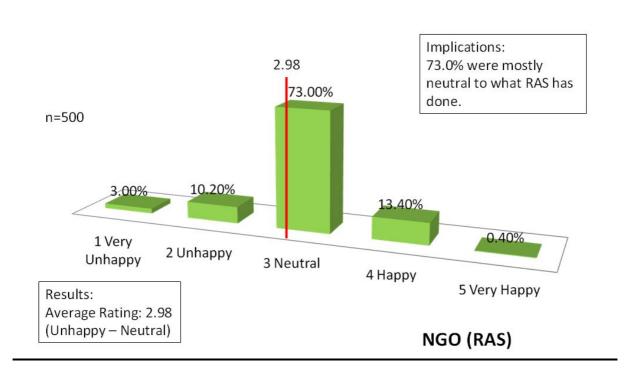
A4. How <u>happy</u> are you with their <u>efforts</u> in keeping the toilets happy for you?



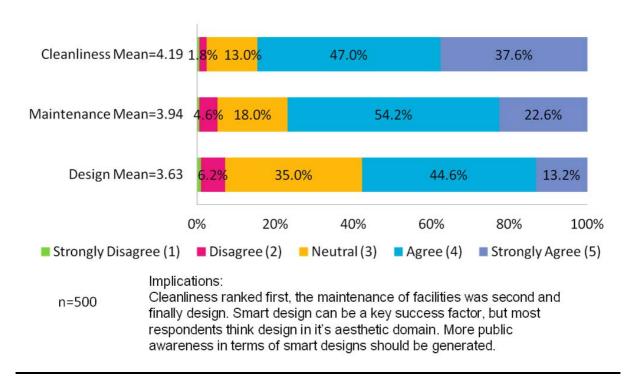








A5. "Singapore's toilets have a need for improvement." To what extent do you agree with this statement in the follow areas?

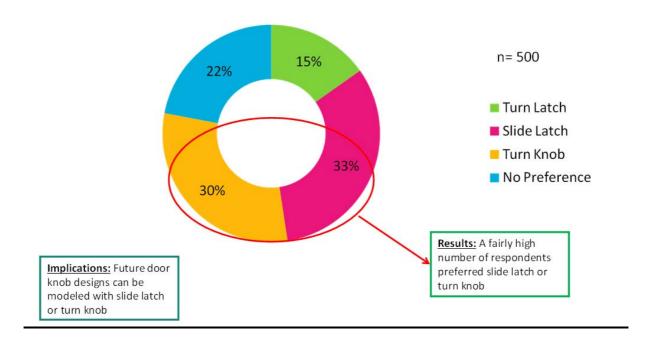


SECTION B: IMPORTANCE OF FACILITIES, DESIGN & MAINTENANCE OF TOILETS

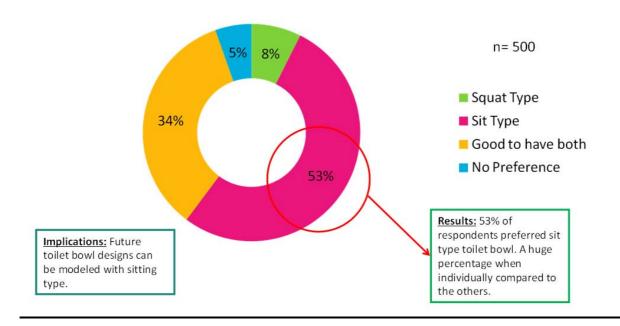
B1. Which door knob design do you prefer?

Turn Latch

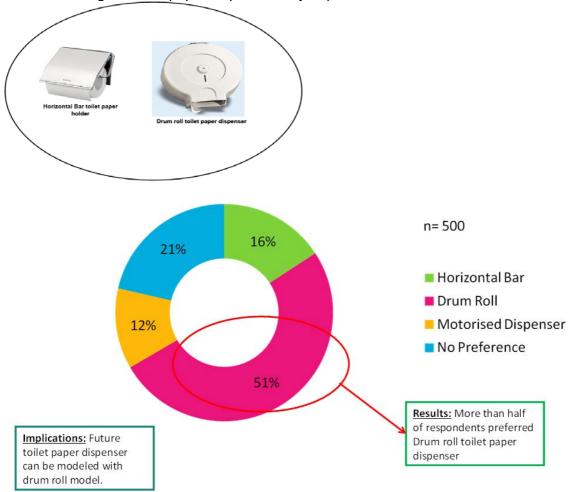
Turn Knob



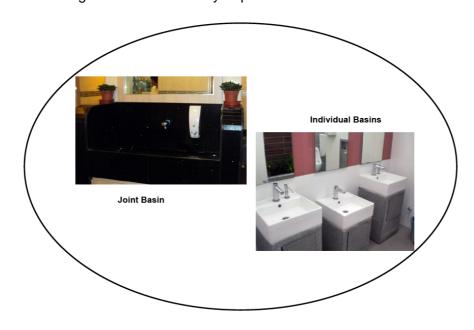
B2. Which design of toilet bowl do you prefer?

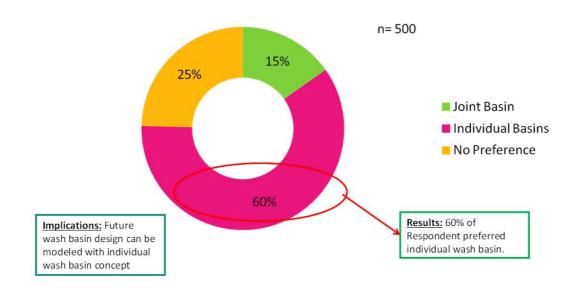


B3. Which design of toilet paper dispenser do you prefer?

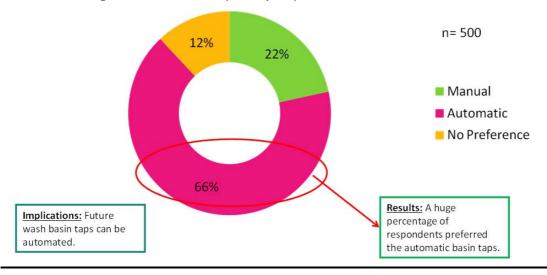


B4. Which design of wash basin do you prefer?

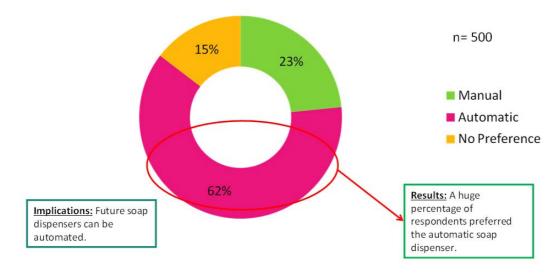




B5. Which design of wash basin taps do you prefer?

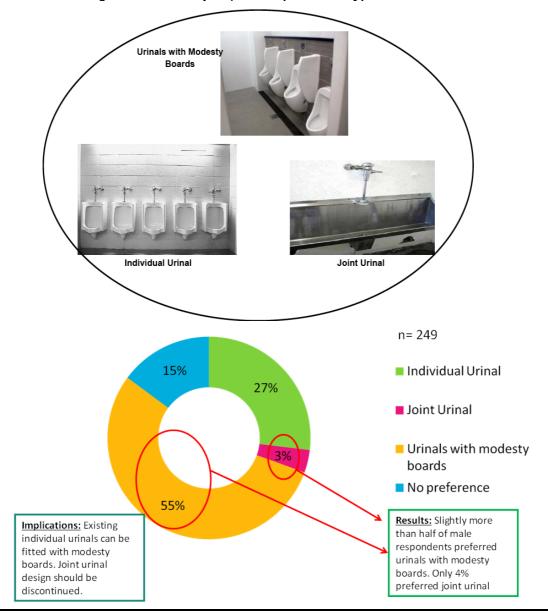


B6. Which design of soap dispenser do you prefer?



Page 18 of 44

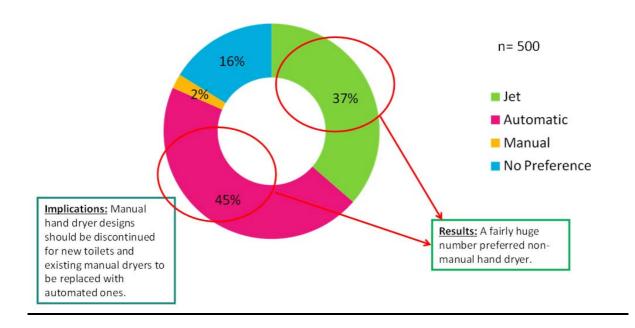
B7. Which design of urinals do you prefer? (Males only)



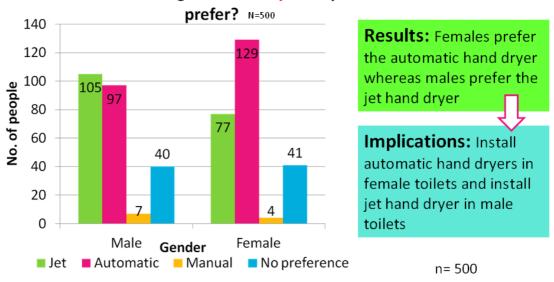
B8. Which design of hand dryer do you prefer?



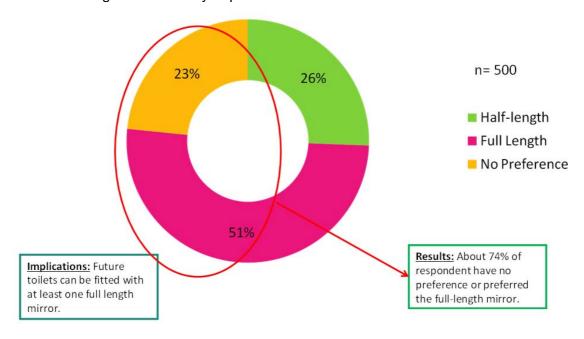
Page 19 of 44



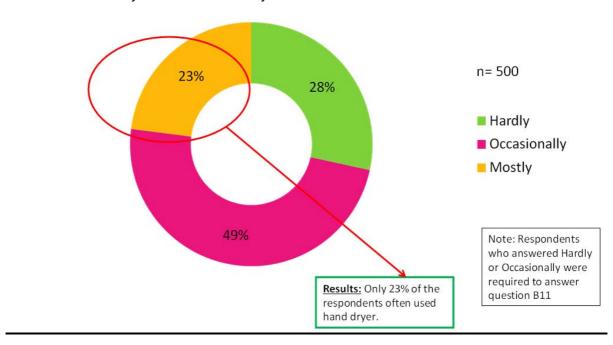
B8. Which design of hand dryer do you



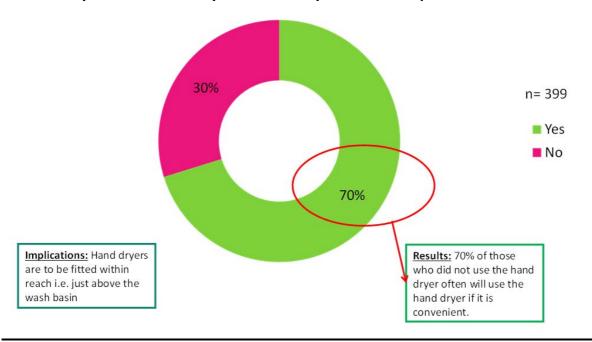
B9. Which design of mirror do you prefer?



B10. How often do you use the hand dryer?

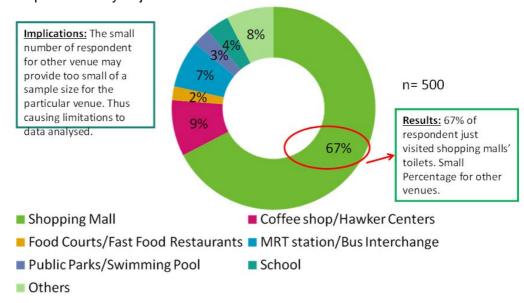


B11. Would you use the hand dryer if it is within your reach? i.e. just above the wash basin

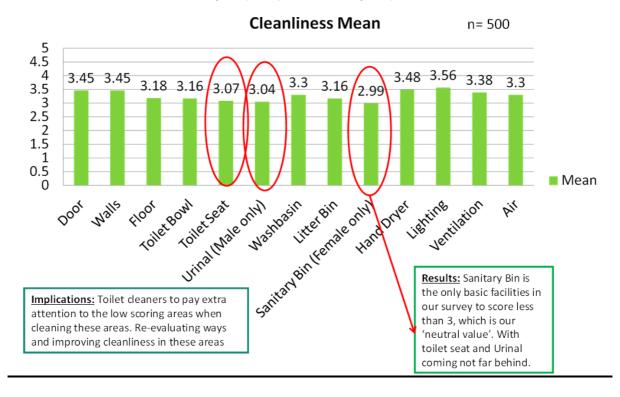


SECTION C: USER EXPERIENCE OF PUBLIC TOILETS

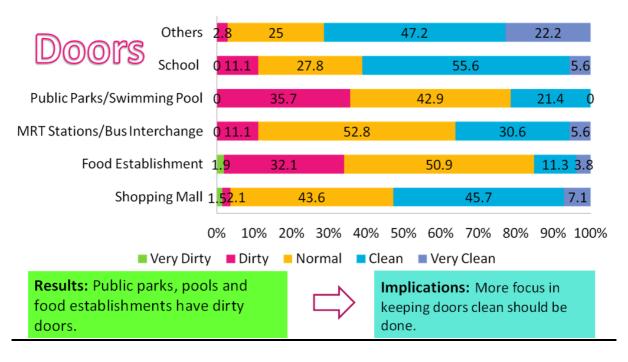




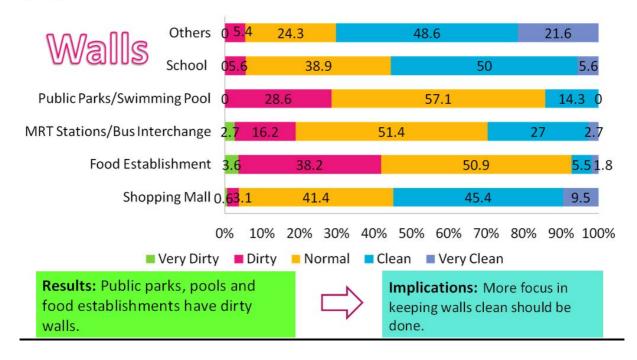
C2. With reference to the toilet that you have just visited, how <u>would</u> you rate its <u>cleanliness</u>? On a scale of 1 to 5, with 1 being very dirty and 5 being very clean.



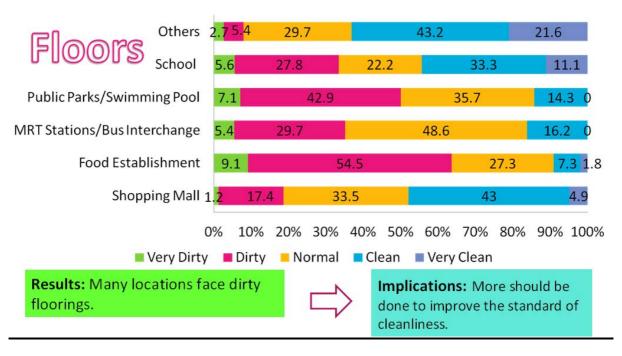


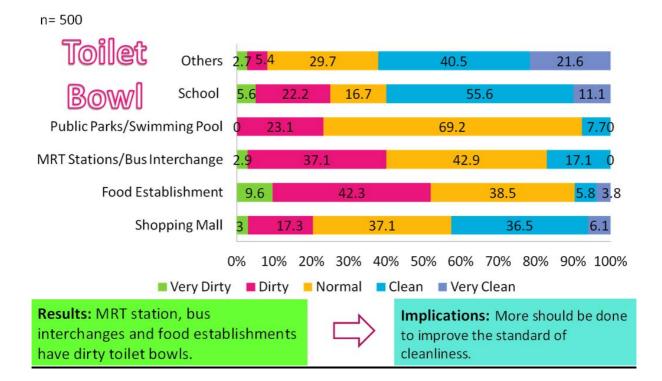


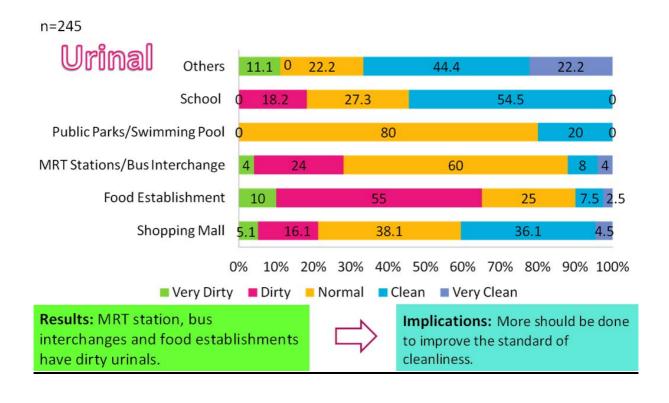
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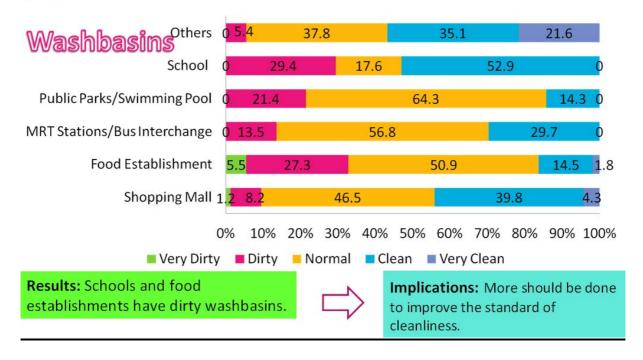
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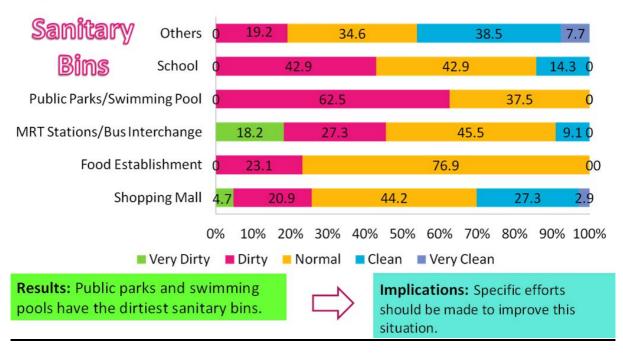




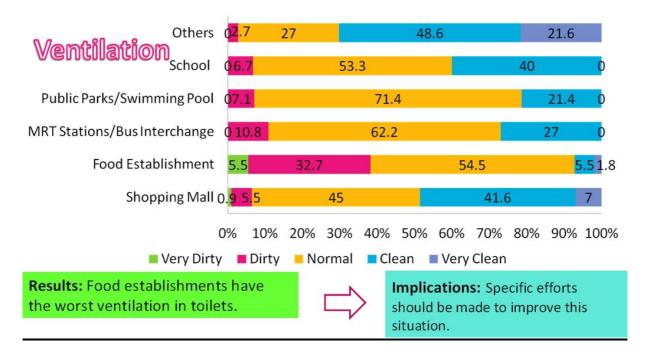
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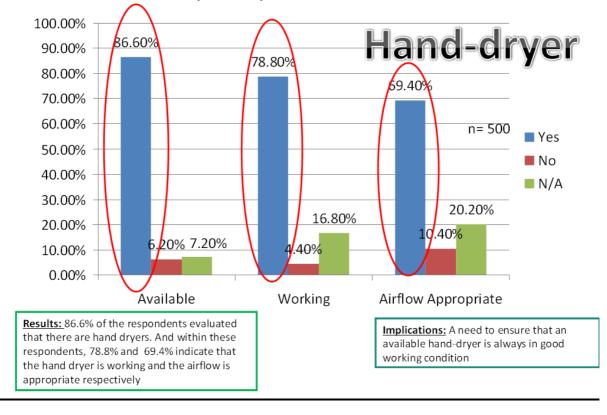
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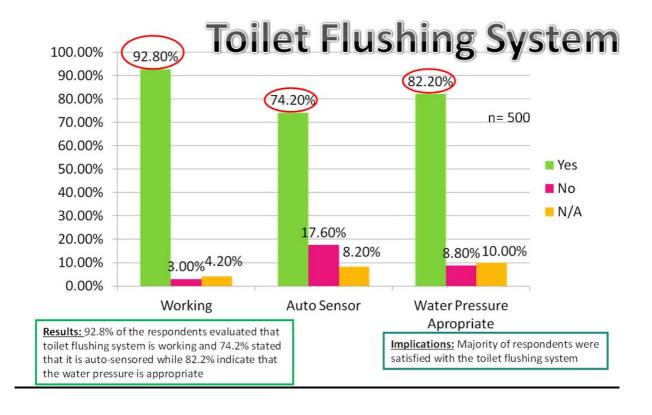


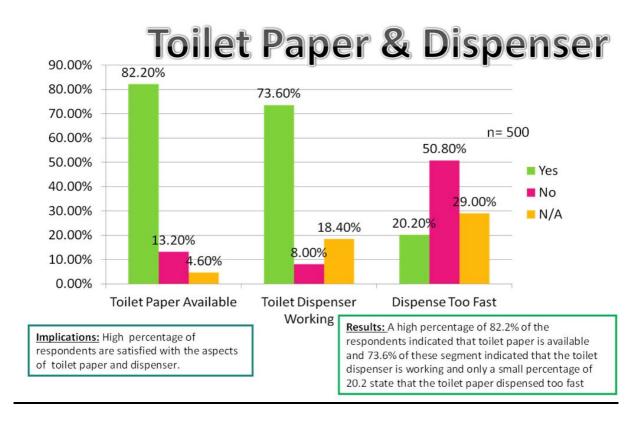
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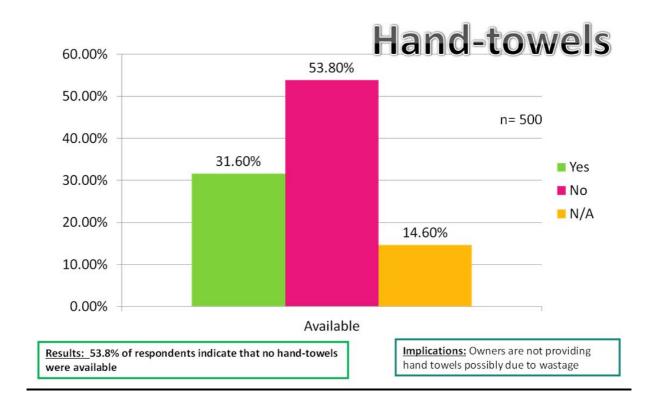


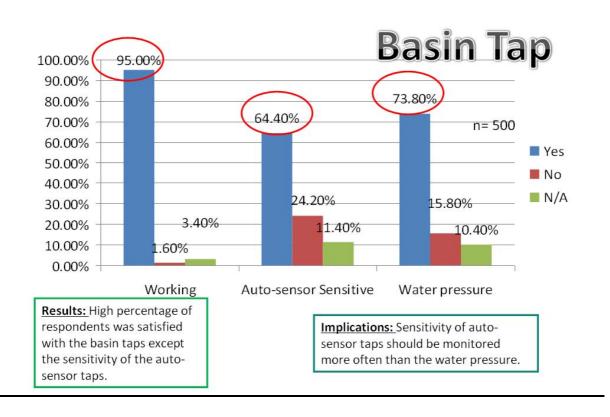
C3. With reference to the toilet you have just visited, evaluate its facilities:



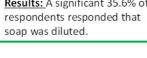




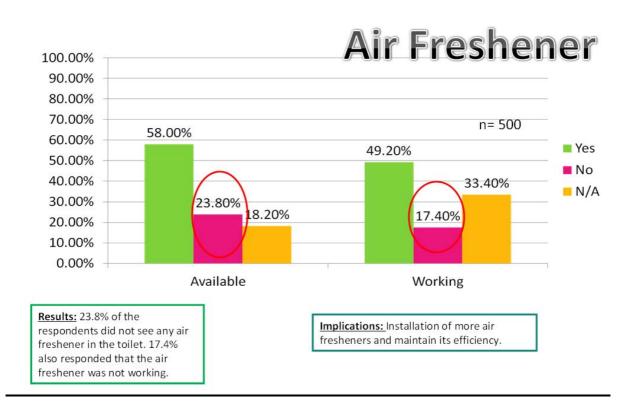


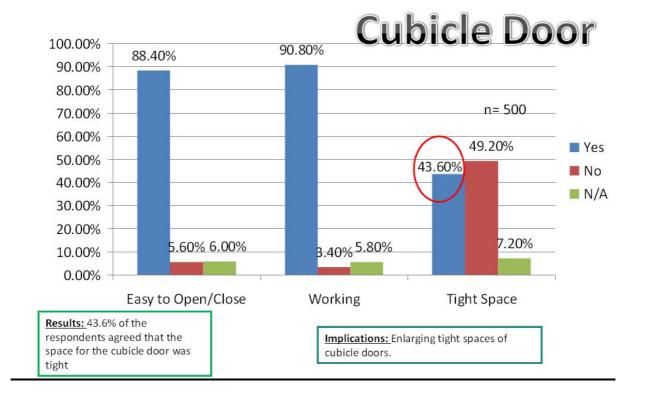


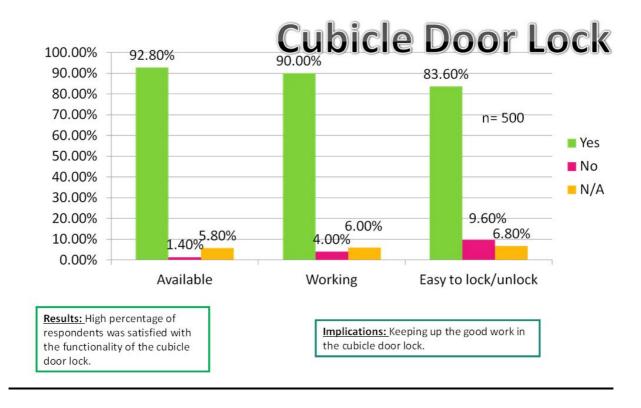




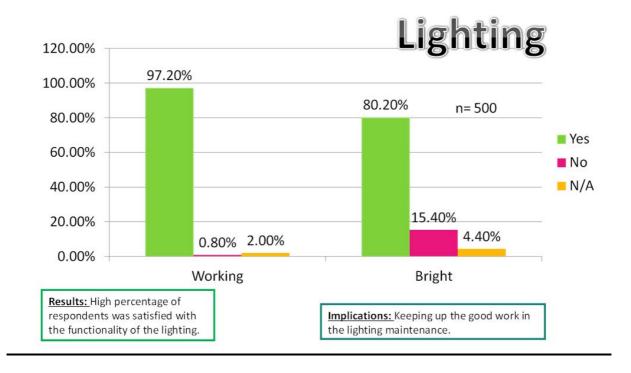
<u>Implications:</u> Monitoring the quality of soap is required.



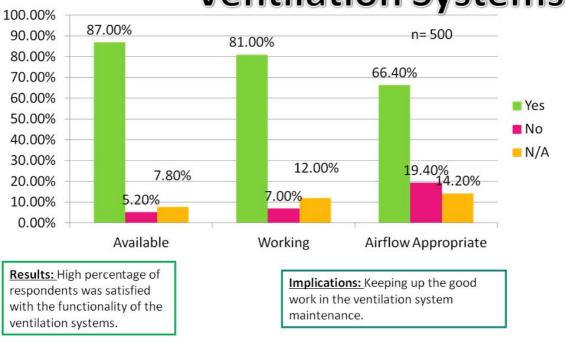


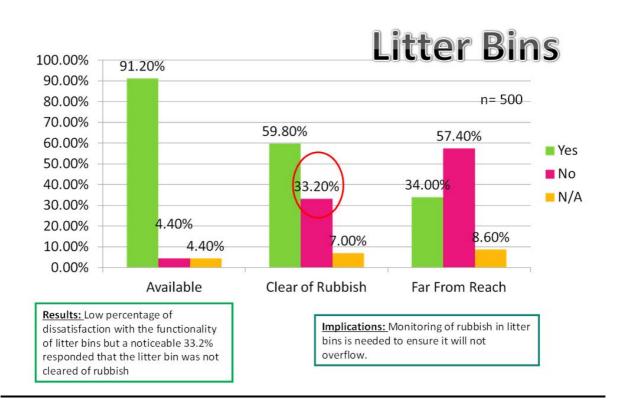


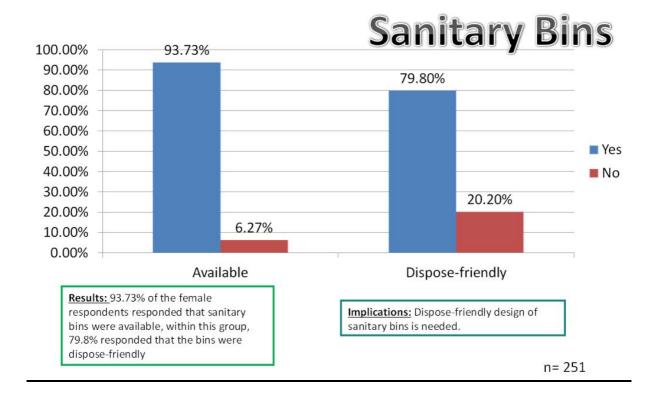
Cubicle Door Hook 80.00% 75.00% 70.60% 70.00% 63.60% 60.00% n= 500 50.00% Yes 40.00% No 30.00% 23.80% 22.60% N/A 10.80% 14.20% 20.00% 12.60% 6.80% 10.00% 0.00% Easy To Hook Available Working Clothing/Items Results: High percentage of respondents was satisfied with Implications: Keeping up the good work in the functionality of the Cubicle the cubicle door hook Door Hook.

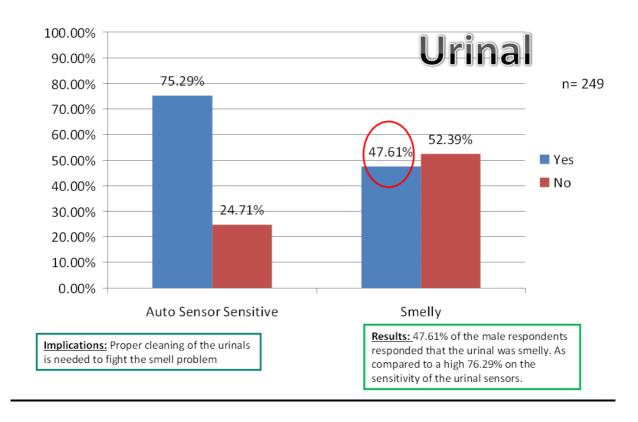


Ventilation Systems



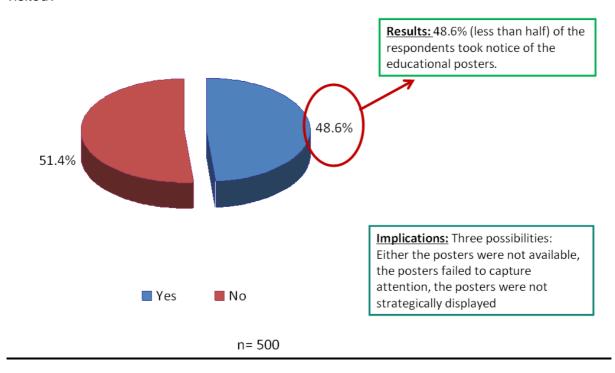




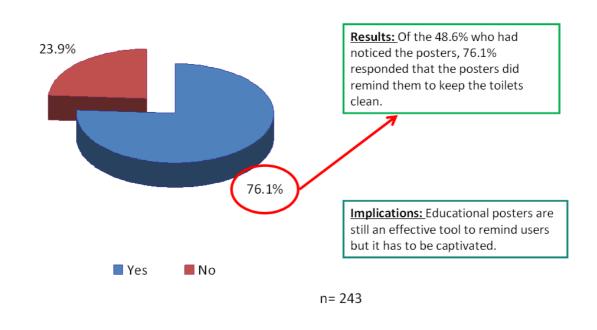


SECTION D: AWARENESS, EDUCATION & ENFORCEMENT

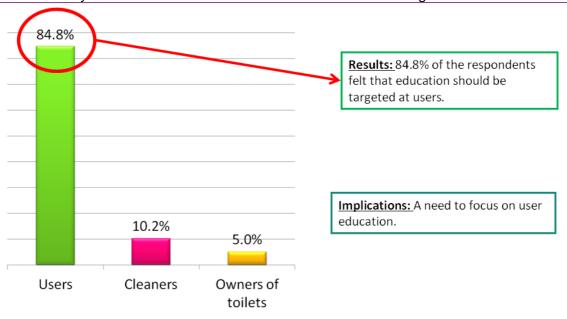
D1. Did you notice any posters asking you to keep the toilet clean inside this toilet you just visited?



D2. Did the educational posters remind you to keep the toilets clean?

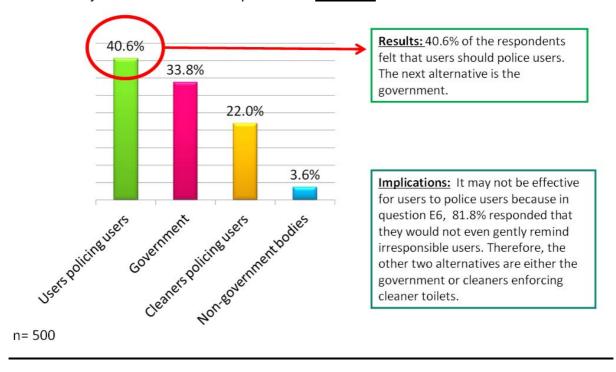


D3. To whom do you think the education of clean toilets should be targeted?

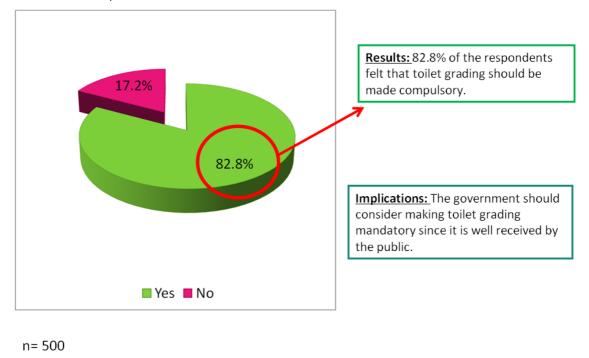


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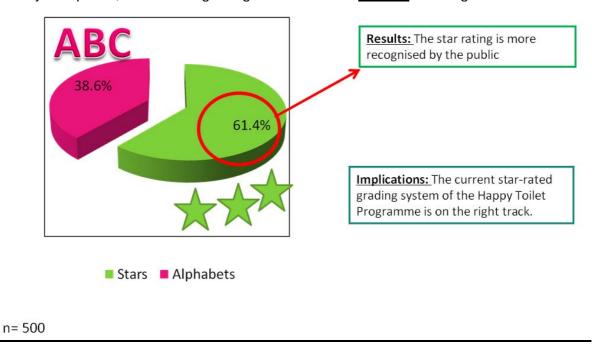
D4. Who do you think should be responsible in enforcing cleaner toilets?



D5. Should there be <u>compulsory</u> grading scheme for all public toilets? For example rating public toilets with 3, 4 or 5-Stars.



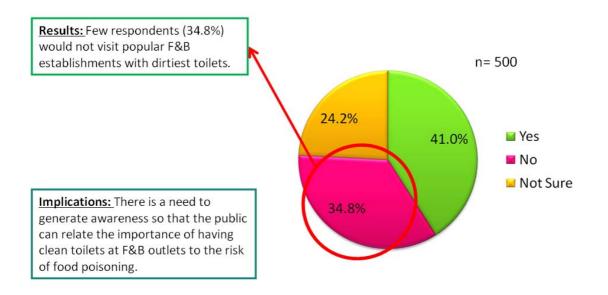
D7. In your opinion, which toilet grading schemes is the easiest to distinguish its cleanliness?



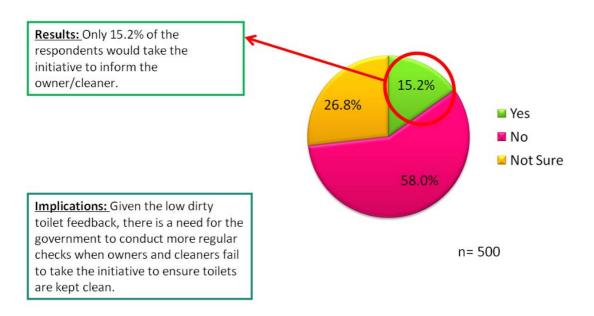
SECTION E: USERS & CLEANER BEHAVIOUR



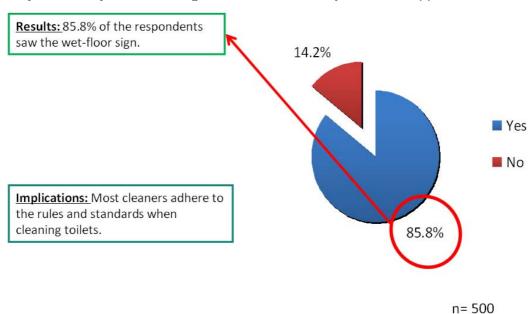
E2. If a food establishment (for example a coffee shop or restaurant) serves <u>very good food</u>, but its toilet has been rated as <u>the dirtiest</u> in Singapore, would you still buy food from this food establishment?



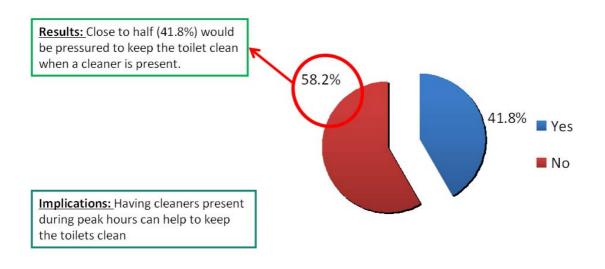
E3. If you have visited a dirty toilet, would you inform the owner or the cleaner to clean up?



E4. Do you see any "wet floor" sign when the floor has just been mopped?

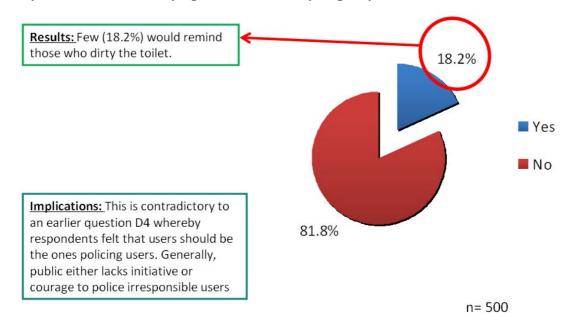


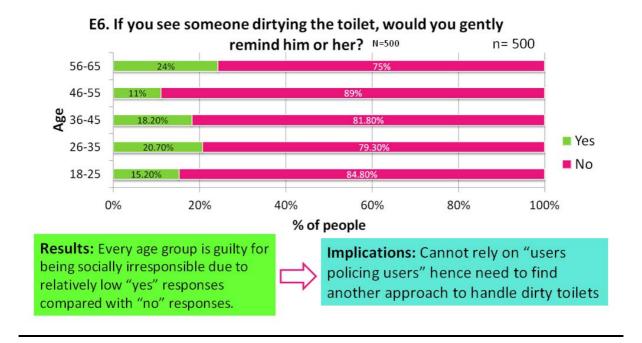
E5. Do you feel pressured to keep the toilet as clean as possible when the cleaner is in the toilet?



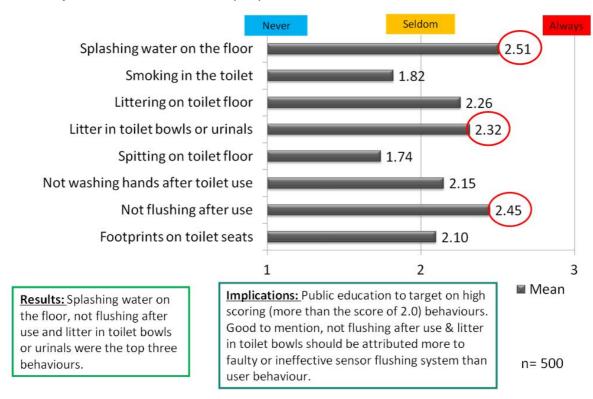
n= 500

E6. If you see someone dirtying the toilet, would you gently remind him or her?

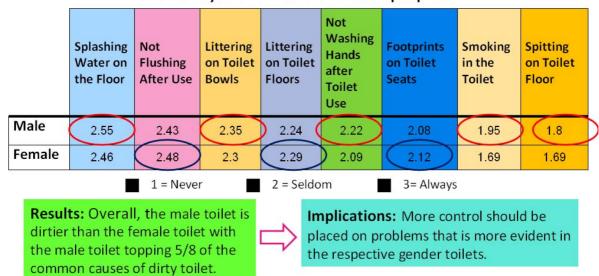




E7. Have you ever heard of or seen people...



E7. Have you ever heard of or seen people... n=500



F. Any other feedback or improvements on Public Toilets in Singapore?



n = 77

Design



Taps sensitivity/pressure



Air ventilation



Provide adequate toilet paper & soap



Consistent quality

n = 77

Business Owners



Provide channels for feedback to proprietor



Proprietor/in-charge should be more responsible



Reward system for proprietor/in-charge

n = 77

Cleaners



Cleaners always on standby



Financial incentive to cleaners/Tips



Cleaners checking on a higher frequency

n = 77

Enforcement



Law to penalize users and proprietors



Shaming dirty toilets on websites

n = 77