

#GreenHacks: Design Innovation Workshop #3

Session details: 20 April 2024, 9.30am – 5.00pm, 1 Rochester Park, #02-01 Rochester Commons, Singapore 139212

S/N	Notes/Questions	Follow-ups
1	#PanelCatchup: Welcome and Alignment	
1.1	David Tay (NYC) thanked all panel members for their hard work and commitment throughout the youth panels process thus far. He reminded everyone that they are part of a special initiative and acknowledged the feedback from panel members. He reassured everyone that NYC and MCCY would continue to provide the support required as we work together in the upcoming months.	
2	#PanelBreakout: Setting the context	
2.1	<u>Focusing on problem statement</u> Khairul (Verian) provided a walkthrough on what to consider for the problem statement. He also emphasised key points of the problem statement that the panel members should focus on. A panel member highlighted the importance of broadening their perspective when formulating solutions or ideas for the problem statement. They referenced additional research indicating a lack of public awareness about recycling and a lack of public willingness to recycle correctly.	
3	#PanelBreakout: Developing Statements to Test using Behavioural Insights as a Guide for Questionnaire Building	
3.1	<u>Presentation of ideas</u> Khairul had the panel gather in their sub-committees to discuss the ideas they came up with in the previous activity, focusing on problem statements. Khairul had a representative from each group share with the whole panel what they discussed. Group 1 shared that they reached a general consensus about how Singaporeans are not accustomed to recycling because there are not enough people or incentives to recycle. They	

	<p>also noted a lack of proper infrastructure for recycling. Regarding education, they felt there was not enough information or knowledge among Singaporeans to recycle properly.</p> <p>Group 2 articulated concerns regarding the underlying behavioural assumptions associated with recycling practices, highlighting the need for a nuanced understanding of human behaviour in sustainable initiatives. They also questioned the efficacy and impact of current recycling solutions, emphasising the importance of continuous improvement and innovation in this area.</p> <p>Group 3 delved into the multifaceted policy landscape surrounding recycling, emphasising the pivotal role of well-crafted policies in driving meaningful change. They underscored the significance of clear and informative labelling in enhancing consumer participation and awareness in recycling programmes. They also gave a brief rundown of the challenges of recycling.</p>	
3.2	<p><u>Second order questions to explore identified problem</u> Khairul probed the panel on what additional questions they had to answer to better understand the identified problem.</p> <p>Group 1 shared questions such as driving factors to encourage everyone to recycle and finding a balance with what they are advocating without aggravating them. They also want to find out more about the root causes of people who do not want to recycle. The group raised questions such as (i) if people will put in effort even if it is inconvenient for them to recycle; (ii) what are some of the driving factors to encourage people to recycle and; (iii) what are the biggest drawbacks of recycling at an institutional level. They were also questioned further by Khairul on thinking of the individual costs of recycling.</p> <p>Group 2 delved into the specific processes of recycling, particularly focusing on understanding the comprehensive recycling system in malls. Their observations led them to conclude that these systems exhibited greater efficacy compared to conventional waste segregation infrastructure, primarily due to the implementation of advanced surveillance mechanisms. Furthermore, they posed probing questions regarding the criteria used by waste processors to classify waste as 'contaminated,' as well as inquired about the potential mixing of initially segregated waste streams during</p>	

	<p>the processing phase.</p> <p>Meanwhile, the research team, represented by Group 3, engaged in an exchange of ideas with the panel, gaining insights into the nuances of previous inquiries. Their forthcoming research endeavours included a comprehensive study to determine which specific types of plastics are most suitable for recycling, coupled with an assessment of public comprehension regarding the differentiation of plastic materials. They also planned to investigate the proliferation of recycling labels and assess Singapore's readiness for waste levies, emphasising the importance of accountability in recycling practices and contemplating the responsible entities for waste management. Additionally, they considered the idea of introducing structured environmental education within Singapore's educational system, advocating for mandatory environmental classes to instil eco-conscious behaviours from a young age. They also aimed to identify plastics with high recyclability rates, contributing to a more sustainable recycling framework.</p>	
4	#PanelBreakout: Writing the Survey Questions (Part 1)	
4.1	<p><u>Formulating survey questions</u></p> <p>Khairul provided some insights as well as guidance on how the panel should structure their survey questions. Khairul suggested delving into various aspects that shaped behaviour and decision-making regarding recycling.</p>	
5	#PanelBreakout: Writing the Survey Questions (Part 2)	
5.1	<p><u>Crafting type of questionnaire</u></p> <p>Khairul initiated an in-depth discussion on the various types of questions essential for crafting a comprehensive and effective questionnaire.</p> <p>MJ (Lead) raised a query regarding the inclusion of neutral options in the questionnaire. Khairul explained that while it's permissible to exclude neutral options, it's not a mandatory requirement.</p>	
5.2	<p><u>Strategic framing of questions</u></p> <p>Lee Kiang (Lead) emphasised the importance of structuring questions in a manner that prompted actionable and accurate responses. This insight highlighted the need for strategic</p>	

	<p>question design to ensure the questionnaire's effectiveness in gathering meaningful data.</p> <p>Building on this discussion, Khairul advised panel members to consider incorporating prioritisation within question options. The approach aims to elicit more precise and informative responses from participants, enhancing the overall quality of data collected.</p> <p>In response to a query about further analysing observable behaviours related to drivers, Khairul emphasised the importance of clearly defining the target audience within the questionnaire framework. A strategic focus ensures that questions are tailored to gather relevant insights from the intended demographic.</p>	
5.3	<p><u>Delegation of subcommittees' contributions</u></p> <p>Khairul underscored the need for alignment between the questionnaires' focus and the panel's overarching objectives. Encouraging the development of up to 20 targeted questions, he tasked groups with specific assignments to facilitate a comprehensive and structured approach to data collection.</p> <p>Following these discussions, Khairul allocated tasks to each group, outlining clear responsibilities and timelines. The groups then reconvened in an hour to collectively review, analyse, and synthesise their findings, fostering collaboration and ensuring a thorough examination of collected data.</p>	
6	Update on what's next by Verian	
6.1	<p><u>Closing</u></p> <p>Khairul briefed the panel on the upcoming timeline and key deliverables.</p> <p>The next workshop would be on 18th May and would focus on ideating solutions. During the upcoming session, #GreenHacks will initiate work on a 2-page policy memo and a 10-slide deck for the Youth Policy Forum. From 20th May to 7th June, the panel would refine solutions and proceed with planning implementation. Khairul also mentioned that the #GreenHacks panel would conduct public engagements from 7th to 21st June.</p> <p>Currently, the panel's priority would be on the survey questions with Milieu. The panel would be required to submit the survey questions by 29th April to Milieu. Before that, all</p>	<p>Panel to note</p> <p>Panel to follow-up</p>

	<p>members should send their feedback on survey questions to Ilyna (Member) for vetting on 25th April prior to sending to Milieu.</p> <p>The survey team presented a draft of survey questions, including demographic queries, targeting the general population (up to 65 years old). They also planned to inquire about preferred locations for recycling bins, awareness of the separation and cleanliness of recyclables, as well as challenges faced when sorting recyclables at home. The survey team requested inputs from other members to further refine the questions and asked for additional comments on various survey questions.</p> <p>Preston (Lead) gave a quick run-through with the panel members on the updated problem statement, where the panel gave their various critiques and confirmed the problem statement.</p>	
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Attendance:

MCCY	Ms Amaranta Lim (Assistant Director, Youth Division) Mr Aaron Tan (Assistant Manager, Youth Division)
NYC	Ms Nurhaya (Senior Manager, Youth Leadership) Ms Pang Xin Yuan (Manager, Youth Leadership) Mr Bryann (Intern, Youth Leadership)
Verian	Mr Khairul Mohd Khair (Senior Consultant)
Advisors	Ms Farah Sanwari
Leads	Ms Kong Man Jing Ms Ng Lee Kiang Mr Preston Wong
Members	Ms Stacy Loo Shi Ting Mr Neo Yi Chong Isaac Mr Tan Bo Yan Mr Darius Ng Wei Quan Mr Goh Jun Hui Mr Tay Zhe Qian Ms Ng Sze Xuan Ms Liu Xinyi Ms Dana Cheng Mr Dharma Halyn Deun Ms Tan Ziyin Ilyna

	<p>Mr Muhammad Firdaus Bin Kordi Ms Salwa Sanallah Khan Mr Muhamad Tassri Mubarak Mr Jason Lam Mr Aidan Ng (Huang Qirui) Mr Tan Han Feng, Chester Matthias Mr Morier Adam Mr Muhammad Hilmi bin Abu Bakar</p>
<p>Absent with apologies</p>	<p><u>Advisors:</u> Ms Melissa Low</p> <p><u>Leads:</u> Ms Kimberly Quek</p> <p><u>Members:</u> Ms Ling Jia Shin Ms Sivaniswary Manoharan Mr Fong Jun Yi Mr Daryl Lee Jia Jun Ms Soh Yan Xi Ms Hannah Batrisyia Binte Hamdi Hidayat Ms Srivarshni Kasirajan Ms Leandra Richard R Mr Sheik Abdul Hafidz Bin Sheik A Hamid Ms Cassandra Yip</p>