Fostering Recycling Awareness in **Inpatient Wards**

Opportunity showcased:



Engage everyone across all levels of the system

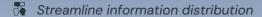
Sustainability awareness engagement can take many forms and exist through different touchpoints.

For this to be effective, a comprehensive approach is needed so stakeholders can engage with critical content in a variety of ways, and thus be more receptive to sustainable messaging.

In this project, the NUS team devised a package of solutions to drive recycling awareness amongst nursing staff.

Other opportunities shown:

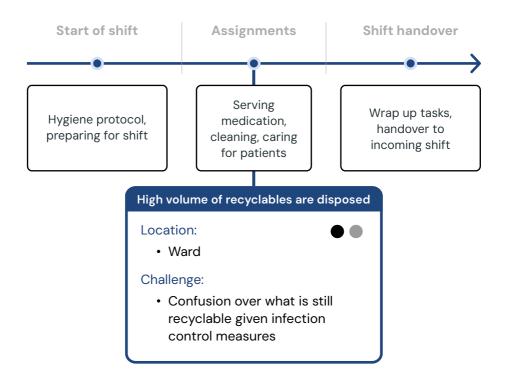
2 Seamless integration into workflow



PROJECT CONTEXT

A large proportion of waste generated in wards is conventionally considered recyclable (e.g., plastic/paper packaging). However, strict infection control measures coupled with a lack of recycling motivation drives nurses to dispose of these items after use.

CURRENT WORKFLOW AND CHALLENGES



Stakeholders involved

- Nurses
- Housekeepers

EVERYDAY ACTION STEPS

ACTIVITIES DONE BY TEAM INSIGHTS IDENTIFIED

High volume of plastic recyclables generated

Take a look around

Observed wards, hospital bin centre

Difference in type of recyclables collected at ward level, and what is accepted downstream

Talk to people



Interviewed nurses, housekeepers, recycling vendor

Held a co-creation

workshop with

nursing staff

Lack of alignment on what types of waste are recyclable

Brainstorm together



Build quickly

Gather feedback

Designed and tested solutions

Design Challenge

How might we engage ward staff holistically to impart greater knowledge of recyclables and recycling practices?

Design Solution

The team focused on a three-pronged approach to foster a culture of recycling awareness within the hospital.



Their initiative aims to reduce waste generated from discarded recyclables, and increase recycling rates within wards.

Design Solution 01

Conversational Card Set

A conversational card set to be used during meetings, trainings, and co-creation sessions to spark discussions on sustainable practices.



Consider this!

Can you Engage everyone across all levels of the system?

Different people within the same department can have different levels of understanding on protocol, standard operating procedures, and sustainability practices.

It is important to engage all parties to ensure a shared, unified level of sustainability understanding across teams. The design solutions found in this feature aim to address that through a holistic range of sustainability engagement channels.

Problem Addressed

The card set bridges gaps in understanding of waste management practice in wards, and resolves conflicting opinions on what can be recycled.

How?

Each card's face contains a type of waste commonly found in wards, and a discussion prompt on the other side.

These cards aim to spark discussions that re-examine current practices around sustainability and ward waste, and thus provide an opportunity to improve and align recycling literacy.





Consider this!

Can you **Seamlessly**integrate your solution
into existing workflows*?

*Refer to pg. 20 to know more.

Design Solution 02

Satellite Recycling Bins

Satellite recycling bins with clear recycling instructions are attached to recyclable waste generation hotspots such as PPE (Personal Protective Equipment) booths and medicine trolleys, making recycling convenient and accessible.

PROBLEM ADDRESSED

Recycling bins are now conveniently located around the ward, and nurses no longer have to detour to recycle items.

OUTCOME

More types and larger volumes of recyclables are being collected from the wards, while prominent labelling of recyclable categories ensures a lower contamination rate.







Consider this!

Can you Streamline information distribution*?

*Refer to pg. 46 to know more.

Design Solution 03

Tuesdays with Tong

Utilising internal digital messaging/newsletter systems to effectively share bite-sized content on sustainability topics.

PROBLEM ADDRESSED

Sustainability information is delivered in a targeted manner, compared to the current visual clutter of sustainability related posters on ward walls which are usually left ignored.



OUTCOME

Consistent, easily understandable tidbits of information that aim to present sustainable actions in a more accessible way, thus nudging greener actions.



Testing

Ward environment: 2 week testing period

Bridging sustainable knowledge gaps

Conversational Card Set



"Easy to use & fun tool! Can be used during meetings." > Sister Mariam

Potential to increase recycling literacy and spark discussions on building sustainable habits.

Increase in ward recycling rate

Satellite Recycling Bins

Before: 5g After: 37g

INCREASE IN WARD **RECYCLING RATE/SHIFT**

7.4x

The satellite bins expanded the range of what was recyclable. This resulted in a significant increase of 340g recyclables collected over a period of 9 shifts compared to an initial, negligible amount (<5g).













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Yu Yan is a design student that is passionate about integrating human experience with technology. Beyond the design realm, Yu Yan finds joy in exploring the humanities and fulfilment in orchestra music playing.

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Jia Ying is an industrial designer who fearlessly embraces being an amateur, approaching every experience with fresh eyes. With an inclination towards people-centric design, she enjoys delving into users' stories. As her skills evolve, she is eager to explore the realm of user experience. She also finds joy in photography.

WINA NASHITA RAKANA ADISETYA

Wina is a dynamic & resourceful designer, who pushes material boundaries with innovation. Wina's designs reflect practicality, simplicity and thoughtfulness, all underpinned by a desire to leave a meaningful, positive impact. Her design philosophy emphasises the journey and creative process, valuing them just as much as the final outcomes.