

The background of the slide is a scenic landscape featuring a winding road in the foreground, leading towards a range of mountains. The mountains are partially obscured by a thick layer of white mist or fog, creating a sense of depth and mystery. The overall color palette is cool, with blues, greens, and grays dominating the scene.

D E S I G N



O D Y S S E Y

**Drive - Team Forming**  
*4 Oct 2017*

# Project Themes

- Refugees
- Sustainable Architecture
- Urban Farming
- Education
- Migrant Workers
- Environment & Ecology
- Eldercare
- Food Wastage
- Disaster Relief
- Energy in Developing Countries
- Persons with Disabilities
- Humanitarian

# MORE 500,000 ROHINGYAS IN BANGLADESH



Refugee Crisis





*By Lam Shushan*

# BIG HEARTS IN COX'S BAZAR

Refugee Crisis

NEWS | BANGLADESH 24 SEPTEMBER 2017

## UN: Rohingya in Bangladesh need 'massive' assistance

*UN says there are 'immense' challenges as Bangladesh needs assistance to feed and shelter 436,000 Rohingya.*



Rohingya refugees wait to receive aid in Cox's Bazar, Bangladesh [Showkat Shafi/Al Jazeera]

[Bangladesh](#) needs "massive international assistance" to feed and shelter the 436,000 [Rohingya](#) who have fled [Myanmar](#) in recent weeks, the head of the [UN refugee agency](#) said.

UN High Commissioner for Refugees Filippo Grandi said on Sunday there were "immense" challenges after visiting the overflowing camps around Cox's Bazar in southern Bangladesh.

"I was struck by the incredible magnitude of their needs. They need everything - they need food, they need clean water, they need shelter, they need proper healthcare," he told reporters.

# UN chief says desperate Rohingya refugees have 'absolutely nothing'



By **Laura Smith-Spark**, CNN

Updated 1211 GMT (2011 HKT) September 28, 2017



A perilous journey for Rohingya refugees 02:35

**(CNN)** — Rohingya refugees who have fled violence in Myanmar for shelter in neighboring Bangladesh are in desperate need of help, UN refugee chief Filippo Grandi said Wednesday, as he called on the Myanmar authorities to halt the violence.

Grandi, who returned Tuesday night from a trip to Bangladesh, said he had rarely seen people who had left their homes with so little.

"They have absolutely nothing," he said. "Evidently they had to flee from a very urgent situation, from very sudden violence -- so they need everything," he said.

News & buzz



Corker: 'I stand by' criticism of Trump



Former Australian P fight with Macklemore marriage...

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## Disaster Relief

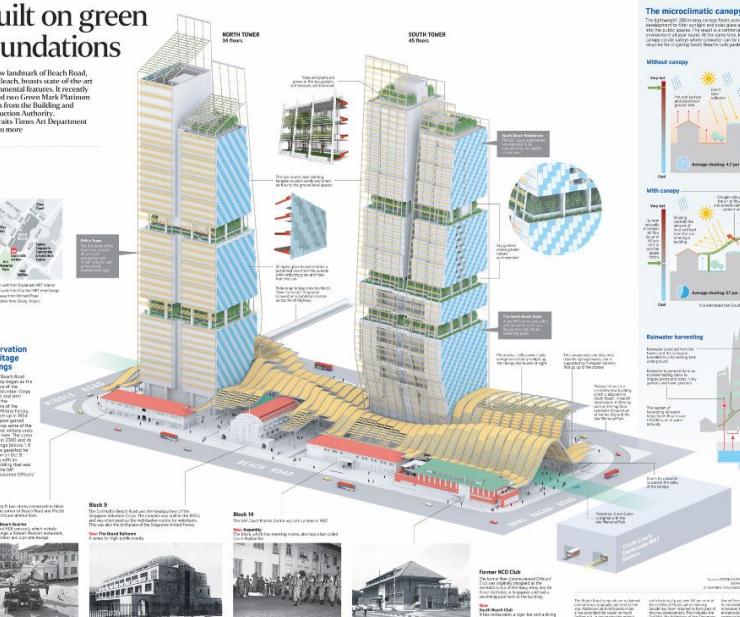
Paper Log Houses in Kobe, Shigeru Ban



unggol Eco Town



# Built on green foundations



Kyville @ Dawson



# Sustainable Architecture



Urban Farming



WE BREATHE WHAT WE BUY



**Environment and Ecology**

TOGETHER AS ONE, BRIGHTER FUTURE FOR ALL



INTERNATIONAL MIGRANTS DAY!

# invisible hands

Migrant workers are an *invisible force* in Singapore's society and they are often just another indistinguishable face that we pass by on the streets. How often do we notice these faces, much less the hands that lay the individual bricks that build our homes, the hands that plunge into dustbins and toilet bowls to keep our country clean, the hands that handle dangerous equipment everyday contributing to the continuous improvement of our city? This project aims to uncover the faces behind the invisible hands that contribute tirelessly to our country. It aims to grant these migrant workers the well-deserved recognition and thanks for giving us our houses, our streets, and everything we call home.

Rachael Ng  
Josephine Tan

SG 50



# Migrant Workers





1.  
CREATE A COHERENT  
CARE BRAND



2.  
GUIDE PEOPLE  
THROUGHOUT THEIR CARE  
JOURNEY



3.  
INTRODUCE EARLIER  
TOUCHPOINTS TO CARE  
ECOSYSTEM



4.  
MAKE VOLUNTEERING VISIBLE  
AND ATTRACTIVE



5.  
DIGNIFY EMOTIONAL  
MOMENTS IN THE JOURNEY



6.  
KEEP NORMALITIES  
OF LIFE



7.  
FACILITATE  
PERSONALIZATION OF CARE  
(LANGUAGE, FOOD, ETC)



8.  
DIRECT COMMUNICATION  
CHANNELS AMONGST  
STAKEHOLDERS



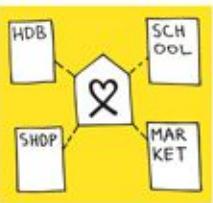
9.  
EMPOWER PATIENTS WITH  
A SENSE OF CONTROL



10.  
RECOGNISE THE PERSON  
BEHIND THE PATIENT



11.  
DON'T SEPARATE THE SICK  
FROM THE HEALTHY



12.  
BUILD NEIGHBOURHOOD  
CARE COMMUNITIES



13.  
PROVIDE  
ACCESSIBLE CARE



14.  
FOCUS ON THE LITTLE  
PLEASURES OF LIFE



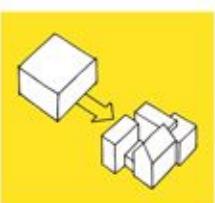
15.  
FOSTER A CULTURE OF  
LEARNING IN CARE TEAMS



16.  
INTIMATE,  
HUMAN-SCALE SERVICE



17.  
SPACES  
ADAPT TO USER



18.  
AVOID THE  
INSTITUTIONAL



19.  
MAKE  
SOCIALISING EASY



20.  
SUPPORT EFFORTLESS  
WITHDRAWAL TO PRIVACY



21.  
OPEN SERVICES TO  
WIDER PUBLIC



22.  
DESIGN WITH  
FAMILY IN MIND



23.  
INTEGRATE  
NATURE IN CARE



24.  
CREATE A SAFE  
ENVIRONMENT TO EXPRESS  
FEELINGS

**Healthcare**



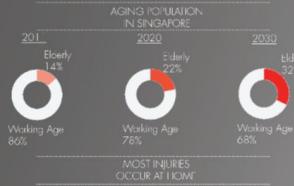
# Showers for Elderly to Live Independently

## Vision

We want to make the toilet, easier and safer to use, for the less mobile elderly.

Showering, the most dangerous yet least fulfilling activity the elderly must engage in, can be transformed into an activity that they no longer dread and risk their safety for in everyday life.

## Problem



## Design Process



## Steps



# Elderly

Lifetime



Easy to Install

## Mechanism



## PRECEDENTS

### OUTINGS

A change in environment helps to provide stimulation of their senses that is beneficial to the patient. However, this does not occur often due to the lack of manpower.

### OCCUPATIONAL THERAPY

During our interview with an occupational therapist, one of the methods she used with her patients was showing her patients laminated cards with photos of antique objects to reminisce the past. However, these do not stir the memories that are unique to the elderly.

## PROBLEM STATEMENT

HOW MIGHT WE IMPROVE THE QUALITY OF LIFE FOR DEMENTIA PATIENTS?

IN 2020

PROJECTED ELDERLY POPULATION ABOVE 65 YEARS OLD IS 590,000

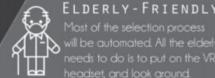
NEED FOR MENTAL HEALTH CARE INCREASES TO 53,000 ELDERLY

## VIRTUAL REALITY

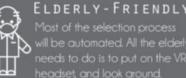
While it is commonly used for entertainment and gaming purposes, we feel that this can be further expanded to the social sector, especially for the elderly. This is because virtual reality is actually very easy to use. Thus, there is potential for VR to come in, where footages of patients' hometowns, old neighbourhoods can be shown and less manpower will be required.



# GENIE



## FEATURES



### ELDERLY-FRIENDLY

Most of the selection process will be automated. All the elderly needs to do is put on the VR headset, and look around.



### MEDICALLY APPROVED

The footage filmed are carefully selected to be included in the therapy and vetted by the therapist before it reaches the patients.



### INTERACTION

Weekly updates of content serves to create new common topics after every session.



### CUSTOMISABLE

The content can be designed according to the patient's preferences, and mental conditions.

## BUSINESS MODEL



## FUTURE EXTENSION

PALLIATIVE CARE  
Granting the wishes of terminally ill patients

## GENERAL ELDERLY POPULATION

For those with physical constraints but still hope to travel

# Wheelpower

## Universal Design

The Wheelpower is capable of adapting to almost any wheelchair.

## Rotatable Handle

Wheelchair user can pilot the system independently from the front.

## Safe Braking System

Responsive braking with a speed limit of 7KM.

## In-built Platform

Comes with a seat to allow your loved ones to ride along comfortably.



Elegant Design



User-Friendly



Easy to Assemble

## Motorised Platform Designed for Connection

Being on a wheelchair can make it very difficult for the disabled to connect with others as they are unable to keep pace with the people around them. With the Wheelpower, a motorised platform designed to attach to a manual wheelchair, one can finally carry his loved one out for a trip together.



# Tremor Liberum

A Design Odyssey Journey

A Project By:

Loh Zheng Yi

Teo Kai Xiang

Grace Ong

Mentored By:

Dr Dawn Koh & Wen Hua



## Assistive Technology

Product Design by Teo Kai Xiang  
Poster Artwork and Design by Grace Ong

# Ugly Food

## Fruit Cycle

(SINGAPORE)



## Company Mission

TO SAVE UGLY FOOD WHILE PROVIDING NUTRITIOUS FOOD AT AFFORDABLE PRICES

83%

OF SINGAPOREANS ONLY BUY FRESH-LOOKING FRUITS AND VEGETABLES



1 BUS OF UGLY FRUITS ARE THROWN AWAY IN SINGAPORE DAILY

## Solution

ONE MAN'S TRASH IS ANOTHER'S TREASURE

TURN THE UGLY FRUITS INTO A PRODUCT WHEREBY PEOPLE WOULD BUY



**Ugly Fruits**

A FRESH START

## The Process

1. TAKE IN ORDERS
2. COLLECT FRUITS
3. BREW THE TEA
4. DELIVER TO COLLECTION POINTS

## Marketing

THROUGH SOCIAL MEDIA CAMPAIGNS

- <https://www.facebook.com/uglyfoodco/>
- <https://www.instagram.com/uglyfoodco/>

## Customers

WORKING ADULTS  
SCHOOL STUDENTS  
ONLINE CUSTOMERS

## Operations

SUPPLIERS:  
FRUIT STALLS E.G 1. TAMPINES STREET 44

COLLECTION FREQUENCY:

2 - 3 DAYS

SHELF-LIFE OF AVERAGE FRUIT:

1 WEEK (STORED IN FRIDGE)

TRANSPORTATION:

FREE DELIVERY

## Expansion



## Our Tea Team

YE OPI SHAN | DIRECTOR  
SUTD-SMU DUAL DEGREE UNDERGRADUATE (2018)

AUGUSTINE TAN | HEAD OF MARKETING  
SUTD UNDERGRADUATE (2019)

BAI XUEFEI | HEAD OF OPERATIONS  
SUTD ESD UNDERGRADUATE (2019)

ARD LEE | CONSULTANT CHEF  
FOSS COACH | CONSULTANT

FOO LIN GENG | HEAD OF FINANCE  
SUTD ESD UNDERGRADUATE (2019)

# e-ways

## WHAT WE DO



E-ways aim to create a suite of product that encourages the re-use of old electronic devices in creative and fun ways



Singapore has the **No.1** smartphone adoption rate in the world in 2014



**1.4 billion** smartphone units sales to end users in 2015



**90.3%** of people unaware of smartphone recycling programs



## WHY WE DO IT?

E-Waste is a burgeoning problem not only in Singapore but also abroad. People in Singapore are also more likely to change their phones every 2 years due to Telco mobile plans hence we focus on smartphones

## WHAT WE OFFER:

Our first product, the silent guardian is a casing that uses old smartphones as CCTVs. This product has many use cases such as monitoring home and businesses, while alleviating the problem of e-waste at the same time



## OTHER TEAM MEM

# Electronic Waste



Zhng My Crib



**Read more about these projects at:**  
**[http://idc.sutd.edu.sg/programmes/  
design-odyssey](http://idc.sutd.edu.sg/programmes/design-odyssey)**

# Propose Your Own Projects

- We encourage you to propose and build upon current projects you are working on
  - Club activities
  - UROP
  - Startup ideas
  - External competitions like Create4Good, Social Venture Challenge etc.

# 1-min Pitch

I am \_\_\_\_\_, a \_\_\_\_\_.

My/Our idea is to \_\_\_\_\_.

in order to benefit \_\_\_\_\_.

I am good at \_\_\_\_\_. It would be

great to have a \_\_\_\_\_ in my team.

**Mingle  
Chat  
Form Teams**

# **PROJECTOR SCREEN**

**ELDERLY**

**ENVIRONMENT**

**HEALTHCARE**

**?**

**EDUCATION**

**?**

**DISASTER RELIEF**

**?**

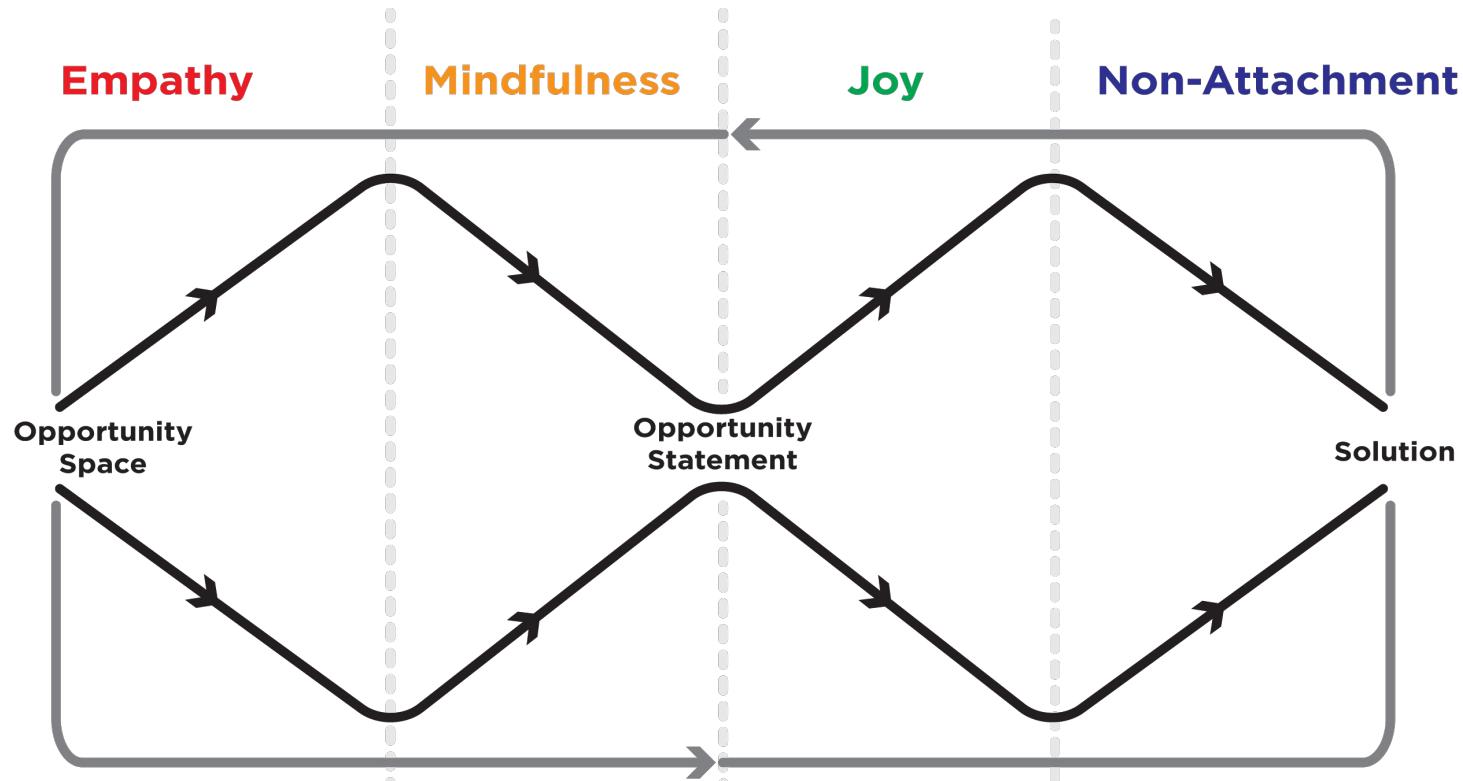
# **Project Compilation**

**All of the projects will be compiled at**

**<https://goo.gl/SoAGg2>**

# Timeline





## Discover

Identify & understand opportunities & needs collaboratively through co-creation with stakeholders

## Define

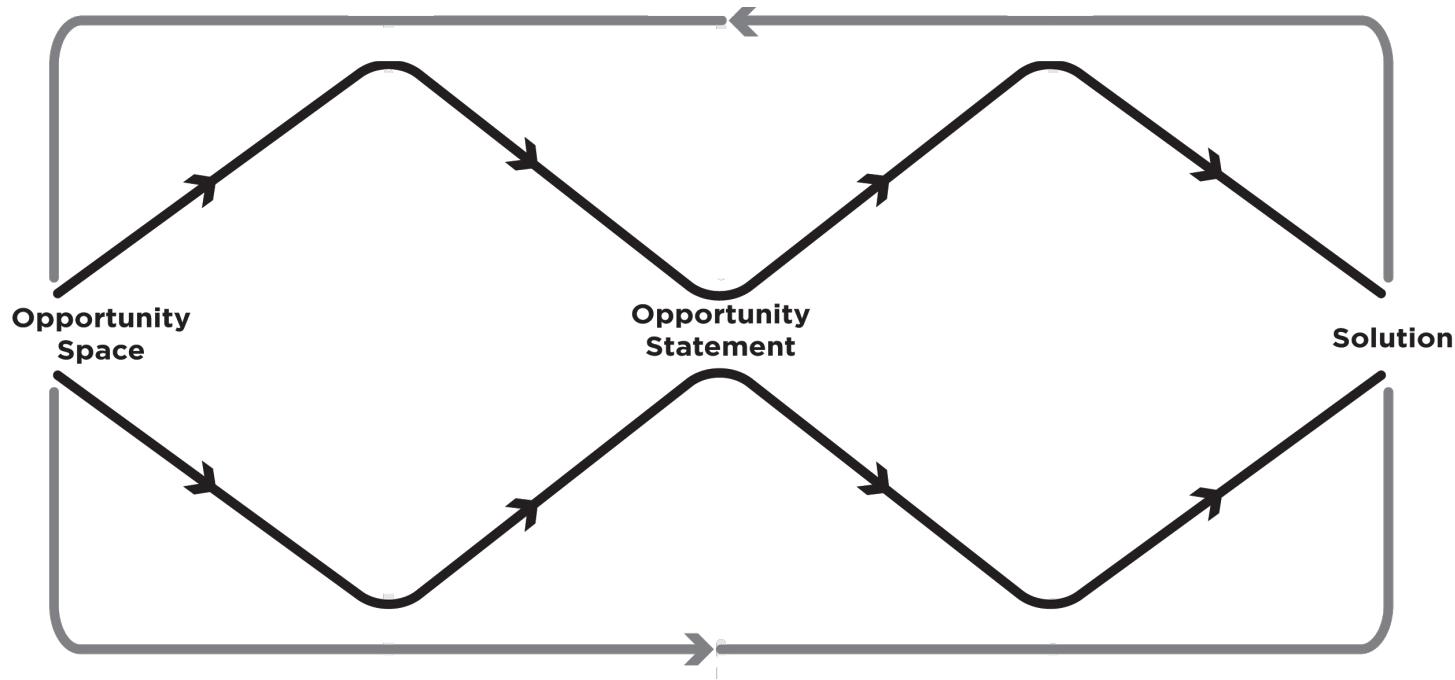
Interpret & reframe needs and map them into activities, functions & representations

## Develop

Ideate and model concepts based on identified opportunities

## Deliver

Iteratively prototype & test concepts & models with users



**The Process is Cyclical**



# Need Help?

- Set up a meeting with Codomo
- To reach us text Jia Xuan: 81272049 or Aditya: 81687608
- Email us at [jiaxuan@codomo.com.sg](mailto:jiaxuan@codomo.com.sg) or [aditya@codomo.com.sg](mailto:aditya@codomo.com.sg)
- Cohort Classroom 16, 2.607

## Exco Contacts

Jonathan - 9232 0085

Andrew - 9001 0972

Shruthi - 8421 4224

Thanh - 8617 8715

Albert - 8316 4710

Ariel - 8161 6643

# Mentors

- Reach out to the pool of **mentors** made available for you to contact.
- Look for **faculty** and **professors** with area expertise
- Your progress is determined by **you**, follow up with mentors if you need help



# Questions?

# **Feedback**

**<https://goo.gl/NNPZYM>**