





#### The earthly way to sustainability.



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# Marginalized families don't have access to food while food wastage is still rampant.



# We produce a lot of food.

In fact, we are producing more and more of them.

![](_page_2_Figure_2.jpeg)

![](_page_2_Picture_3.jpeg)

2016 2017 2018 2019 Source: The World Bank

# If only all those food end up in our stomachs.

Municipal Solid Waste (MSW) Composition (%) in ASEAN countries

![](_page_3_Figure_2.jpeg)

MSW in ASEAN is mostly comprised of **food or organic waste**.

Source: UN Environment Programme (UNEP)

# A lot of these food are wasted.

![](_page_4_Picture_1.jpeg)

## ~490 grams

of food wasted per day by the average Southeast Asian

Derived from calculations

![](_page_4_Picture_5.jpeg)

![](_page_4_Picture_6.jpeg)

**25%** of the global food waste comes from South and Southeast Asia

Source: Future Directions International (FDI)

![](_page_4_Picture_9.jpeg)

#### **26-36%** of food per capita in SEA is wasted each year

Source: Fifth State of the Environment Report

#### **1.6B tons** of food are wasted

globally each year

Source: Boston Consultant Group's (BCG)

# A lot of these food are wasted.

![](_page_5_Picture_1.jpeg)

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Source: Future Directions International (FDI)

![](_page_5_Picture_9.jpeg)

#### **26-36%** of food per capita in SEA is wasted each year

Source: Fifth State of the Environment Report

![](_page_5_Picture_12.jpeg)

Source: Boston Consultant Group's (BCG)

# We aren't very efficient with managing such waste, either.

**Technology Profile for MSW in ASEAN Countries** 

![](_page_6_Figure_2.jpeg)

Source: UN Environment Programme (UNEP)

Open dumping easily pollutes air and groundwater.

Source: UNEP

Methane, 21x more damaging to Earth than carbon dioxide, is produced by burning waste or decomposing them in landfills.

> ASEAN has **limited experience** in the most eco-friendly method: composting.

> > Source: UNEP

Source: The ASEAN Post

# Meanwhile, many are still starving.

## As expected, the pandemic made things worse.

![](_page_7_Figure_2.jpeg)

#### Global Hunger Index (GHI) of ASEAN\* in 2021

![](_page_7_Figure_4.jpeg)

#### compared to the previous year, 2019

Source: UNICEF

Indonesia and Myanmar have GHIs larger than the world average (17.90).

All ASEAN countries included in the figure are classified as **moderate** under the GHI severity scale.

![](_page_7_Picture_9.jpeg)

## Moreover, undernourishment is still prevalent.

![](_page_8_Picture_1.jpeg)

African Region

South-East Asia Region

Eastern Mediterranean Region

![](_page_8_Picture_6.jpeg)

Southeast Asia has the **second highest** prevalence of stunting and the highest prevalence of wasting.

Western Pacific Region

**Region of the Americas** 

European Region

![](_page_8_Picture_11.jpeg)

#### Prevalence of stunting and wasting in children under 5 y.o. (%) per region in 2020

Prevalence of stunting in children under 5 (%), 2020 Prevalence of wasting in children under 5 (%), 2020

![](_page_8_Figure_14.jpeg)

# Why can't people feed themselves?

## Food insecurity is the root problem.

>1B people	from Asia and the Pacific do not have adequate access to food in 2020 Source: UNICEF
<pre>\$150M people</pre>	compared to the previous year, 2019

Source: UNICEF

Nearly half of the populations of Cambodia (44.80%) and the Philippines (42.70%) experienced food insecurity in 2019.

![](_page_9_Picture_7.jpeg)

**Prevalence of moderate or severe food insecurity in the** population (%) in ASEAN countries in 2019

Source: The World Bank

# **Because food price keeps increasing.**

## Food price is a huge problem for many families.

FAO Food Price Index (FPI) from January 2000 to August 2022

![](_page_10_Figure_3.jpeg)

![](_page_10_Picture_4.jpeg)

Source: FAO

![](_page_10_Picture_8.jpeg)

![](_page_11_Picture_0.jpeg)

# But what if we could eat food and upcycle all the waste sustainably?

![](_page_12_Picture_0.jpeg)

# The Earthleigh Plan The earthly way to sustainability.

![](_page_12_Picture_2.jpeg)

**LEARN MORE** 

![](_page_13_Picture_0.jpeg)

![](_page_13_Picture_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_13_Picture_3.jpeg)

![](_page_13_Picture_4.jpeg)

#### Impact

![](_page_13_Figure_6.jpeg)

![](_page_14_Picture_0.jpeg)

## **The Earthleigh Compound**

Visit Earthleigh in ACNH! DA-9805-9941-6666

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

![](_page_16_Picture_2.jpeg)

## Teaches the community about the basics of urban gardening

- Cultivates crops for the local community to share
- Allows green space for peace and relaxation

![](_page_17_Picture_0.jpeg)

![](_page_17_Picture_1.jpeg)

![](_page_18_Picture_0.jpeg)

![](_page_18_Picture_1.jpeg)

![](_page_19_Picture_0.jpeg)

![](_page_19_Picture_1.jpeg)

![](_page_20_Picture_0.jpeg)

![](_page_20_Picture_1.jpeg)

## Rapid Harvests 7 - 40 days

Cress (7d) Lettuce (21d) Scallion (21d) Radish (25d) Spinach (30d) Turnip (30d) Arugula (30d) Beet (35d) Zucchini (40d) Brocolli (40d)

![](_page_20_Picture_5.jpeg)

## Regular Crops 50 - 90 days

Carrot (50d) Cucumber (50d) Okra (50d) Pea (55d) Corn (70d) Tomato (70d) Eggplant (75d) Watermelon (80d) Pumpkin (85d) Potato (90d)

![](_page_20_Picture_9.jpeg)

## **Resident Trees** 1 - 8 years

Peach (3y) Tangerine (4y) Guava (4y) Mango (8y) Durian (8y)

Banana (1y) Papaya (1y) Moringa (1y) Apple (3y) Lemon (3y)

# **Vermiculture Hub** Phase 2 of the Earthleigh Plan.

![](_page_21_Picture_1.jpeg)

## Provides an avenue for processing leftover food

- Yields vermicasts used as fertilizer for local crops
- Supplies excess worms that can be fed to poultry

![](_page_22_Picture_0.jpeg)

![](_page_22_Picture_1.jpeg)

![](_page_22_Picture_2.jpeg)

- Voracious eaters!
- For leftover foods
- Used as poultry feed
- Produces vermicast

![](_page_22_Picture_7.jpeg)

- Slimy friends!
- For inedible organic wastes
- Helps soil aeration
- Produces vermicast

## Earthworm

![](_page_23_Picture_0.jpeg)

![](_page_23_Figure_1.jpeg)

again.

![](_page_24_Picture_0.jpeg)

![](_page_24_Figure_1.jpeg)

Weekly food wastage of the average ASEAN person

![](_page_24_Picture_4.jpeg)

![](_page_24_Picture_5.jpeg)

# **Vermiculture Hub** Fertilizer vs. Compost vs. Vermicast

## Fertilizer

- Manufactured for plant productivity
- Chemically synthesized
- Instantly available
- Waterways leaching
- Sufficient in nutrients

![](_page_25_Picture_7.jpeg)

## Compost

- Aerobic degradation of livestock dung
- Naturally produced
- Takes time to process
- Might smell bad
- Sufficient in nutrients

# Vermicast is the **best choice** for crop production!

![](_page_25_Picture_15.jpeg)

- Castings by worms from organic wastes
- Naturally produced
- Faster to process
- Environment-friendly
- Richer in macronutrients

# **Vermiculture Hub** Fertilizer vs. Compost vs. Vermicast

![](_page_26_Picture_1.jpeg)

## Fertilizer

- Manufactured for plant productivity
- Chemically synthesized
- Instantly available
- Waterways leaching
- Sufficient in nutrients

![](_page_26_Picture_8.jpeg)

## Compost

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# Vermicast is the **best choice** for crop production!

![](_page_26_Picture_16.jpeg)

## Vermicast

- Castings by worms from organic wastes
- Naturally produced
- Faster to process
- Environment-friendly
- Richer in macronutrients

![](_page_27_Picture_0.jpeg)

![](_page_27_Figure_1.jpeg)

![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

![](_page_28_Picture_2.jpeg)

#### Impact

![](_page_28_Figure_4.jpeg)

Phase 3 of the Earthleigh Plan.

![](_page_29_Picture_2.jpeg)

![](_page_30_Picture_0.jpeg)

Hey, do you have spinach seeds? I could trade some cabbage sprouts for it!

![](_page_30_Picture_2.jpeg)

Sure thing! Ta it as well!

![](_page_30_Picture_4.jpeg)

People within the community and beyond could reach out with each other to foster camaraderie!

![](_page_30_Picture_6.jpeg)

![](_page_30_Picture_7.jpeg)

Sure thing! Take some vermicasts with

![](_page_30_Picture_9.jpeg)

# Eartheigh Mobile **ONLINE FEATURES**

Because of your continuous support of Earthleigh, these startup kits are available to you!

![](_page_31_Picture_2.jpeg)

![](_page_31_Picture_3.jpeg)

![](_page_31_Picture_4.jpeg)

If people dispose their food wastes through Earthleigh, they could be legible for items that could help them start their own urban gardening!

![](_page_31_Picture_6.jpeg)

![](_page_31_Picture_7.jpeg)

![](_page_31_Picture_9.jpeg)

![](_page_31_Picture_10.jpeg)

## >10 mobile phones

per 10 people in ASEAN in 2019 (except for Laos at 6.08 per 10 people)

Source: ASEAN Secretariat

![](_page_32_Picture_5.jpeg)

![](_page_32_Picture_6.jpeg)

#### 

<5 people per 10 people in Indonesia (4.77), Cambodia (4.05), Myanmar (3.31), and Laos (2.55) have access to the internet in 2019.

Source: ASEAN Secretariat

Ergo, the Earthleigh supplementary app will prioritize its **offline features** over its online features.

![](_page_33_Picture_6.jpeg)

![](_page_34_Picture_1.jpeg)

## **OFFLINE FEATURES**

![](_page_34_Picture_3.jpeg)

## Lettuce

**Fast Growth:** 21d **High in:** Vitamin B9, C, Fiber, and Iron *click for more details* 

![](_page_34_Picture_6.jpeg)

![](_page_34_Picture_7.jpeg)

Average Growth: 55d High in: Vitamin A, B9, C, K, Potassium, Magnesium, Iron, and Zinc *click for more details* 

![](_page_34_Picture_9.jpeg)

 $\langle \bullet \bullet \bullet \bullet \bullet \bullet \bullet \rangle$ 

![](_page_34_Picture_10.jpeg)

## Corn

Average Growth: 70d High in: Vitamin B1, B9, C, Fiber, Phosphorus, and Magnesium click for more details

## Papaya

**Slow Growth:** 1y **High in:** Vitamin A, B1, B5, B9, Copper, and Magnesium *click for more details* 

![](_page_35_Picture_1.jpeg)

**OFFLINE FEATURES** 

![](_page_35_Picture_3.jpeg)

## Crop rotation is important to cycle the nutrients in the soil properly!

![](_page_35_Picture_5.jpeg)

![](_page_35_Picture_6.jpeg)

#### PLANNER FOR PLANTING

![](_page_36_Picture_1.jpeg)

## OFFLINE FEATURES

![](_page_36_Figure_3.jpeg)

![](_page_36_Picture_4.jpeg)

Your beet will wilt in 3 days! Don't forget to water them by then!

![](_page_36_Picture_6.jpeg)

#### Watering Reminder!

Your beet are wilting! Water them now and give them some care!

![](_page_36_Picture_9.jpeg)

![](_page_36_Picture_10.jpeg)

![](_page_36_Picture_11.jpeg)

![](_page_36_Picture_12.jpeg)

![](_page_36_Picture_13.jpeg)

#### WATERING REMINDERS

![](_page_36_Picture_15.jpeg)

Your beet will be ready for harvesting in 3 days! Get ready by then!

#### Harvesting Reminder!

Your beet are ready to be harvested! Go get them now!

![](_page_37_Picture_0.jpeg)

![](_page_37_Picture_1.jpeg)

![](_page_37_Picture_2.jpeg)

![](_page_37_Picture_3.jpeg)

![](_page_37_Picture_4.jpeg)

![](_page_38_Picture_0.jpeg)

![](_page_38_Picture_1.jpeg)

![](_page_38_Picture_2.jpeg)

**Farms** 

Local Government

## and will only be possible with these stakeholders.

![](_page_38_Picture_7.jpeg)

#### **ASEAN & SAP**

## Food price is on a tightrope. Aside from the pandemic, other current events are causing food prices to be volatile.

![](_page_39_Picture_2.jpeg)

Source: FAO

![](_page_40_Picture_0.jpeg)

People cannot afford food and get hungry.

![](_page_40_Picture_2.jpeg)

![](_page_40_Picture_3.jpeg)

People struggle with jobs.

![](_page_40_Picture_5.jpeg)

![](_page_40_Picture_6.jpeg)

People stay and suffer in poverty.

![](_page_41_Picture_0.jpeg)

![](_page_41_Picture_1.jpeg)

![](_page_41_Picture_2.jpeg)

Healthy people can help the community grow further.

Create a positive feedback loop of sustainability!

The community will become resilient and self-sustaining.

![](_page_41_Picture_6.jpeg)

## The problem with starvation will be eased.

![](_page_41_Picture_8.jpeg)

![](_page_41_Picture_9.jpeg)

Leftovers can be made as fertilizers to help grow more food.

## 

![](_page_42_Picture_1.jpeg)

#### **AEC B.8**

Sustainable Economic Development (41 - vi)

#### AEC C.5

Food, Agriculture, and Forestry (57 - i, iii, viii)

![](_page_42_Picture_6.jpeg)

#### ASCC B.2

**Equitable Access for All (iii)** 

#### ASCC D.5

Enhanced and Optimised Financing Systems, Food, Water, Energy Availability, and other Social Safety Nets in Times of Crises by making Resources more Available, Accessible, Affordable, and Sustainable (i, iv)

## And finally, the following **SDG targets**

![](_page_43_Figure_1.jpeg)

11.6

TARGET

capita environmental

11.7 PROVIDE ACCESS TO SAFE AND INCLUSIVE GREEN AND PUBLIC SPACES

By 2030, provide universal access to safe, inclusive and accessible, green and public **spaces**, in particular for women and children, older persons and persons with disabilities.

# Let's start Earthleigh.

the character the

![](_page_44_Picture_2.jpeg)

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![](_page_45_Picture_14.jpeg)

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![](_page_46_Picture_22.jpeg)

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- Most graphics used were provided by Canva.
- Mockup of the Earthleigh Compound was provided by Gardena.
- Logos were provided by Google Images.
- Graphs and Figures were provided by SAP.
- Assets from Animal Crossing: New Horizons were taken from https://www.animal-crossing.com/new-horizons/
- Footages of the Earthleigh Compound were created from the game Animal Crossing: New Horizons published by Nintendo.

![](_page_47_Picture_9.jpeg)

## **Addendum 1** Vermicast Details

Vermicast can give agricultural soil increased moisture retention, better nutrient holding capacity, and superior soil structure.

Vermicast can result in soil with **lower** pathogen levels.

Vermicast can result in soil **free of toxic** waste.

- Earthworms ingest a lot of heavy metals in their body
- Earthworms can also break down
- complex chemicals to non-toxic forms

Vermicast tends to be **higher in** phosphorus and potassium content.

Vermicast tends to be **higher in nitrates** (plant-available form of nitrogen).

Earthworms release about 0.01 g nitrate on the soil when they die Earthworm excretions can also enrich nitrate content of the soil

Phosphorus (P), potassium (K), and nitrogen (N) are **primary macronutrients** that allow plant growth.

![](_page_49_Figure_0.jpeg)

Source: Ong et al., 2018

![](_page_49_Picture_2.jpeg)

Source: Gov't of Tamil, Nadu

## **Gallery 1** Welcome to Earthleigh!

![](_page_50_Picture_1.jpeg)

#### Warm Welcome!

![](_page_50_Picture_3.jpeg)

#### **Earthleigh Overview 1**

![](_page_50_Picture_5.jpeg)

#### The Earthleigh Staff

![](_page_50_Picture_10.jpeg)

#### **Earthleigh Overview 2**

## **Gallery 2** The Community Garden

![](_page_51_Picture_1.jpeg)

#### Harvesting Crops

![](_page_51_Picture_3.jpeg)

#### **Caring for Saplings**

![](_page_51_Picture_5.jpeg)

![](_page_51_Picture_8.jpeg)

#### **Sowing Seeds**

#### **Residents' Backyards**

![](_page_52_Picture_0.jpeg)

![](_page_52_Picture_1.jpeg)

#### **Spoiled Crops**

![](_page_52_Picture_3.jpeg)

#### Feeding the Worms

![](_page_52_Picture_5.jpeg)

![](_page_52_Picture_6.jpeg)

#### Wasted Food

#### **Vermiculture Hub Interior**

![](_page_53_Picture_0.jpeg)

![](_page_53_Picture_1.jpeg)

#### **Relaxing with Food**

![](_page_53_Picture_3.jpeg)

#### **Food Preparation**

![](_page_53_Picture_5.jpeg)

![](_page_53_Picture_7.jpeg)

#### **Resting After a Day's Work**

#### **Evening Meal**

## **Gallery 5 Compound Construction**

![](_page_54_Picture_1.jpeg)

#### **Plot Development**

![](_page_54_Picture_3.jpeg)

![](_page_54_Picture_4.jpeg)

#### **Unloading Shipments**

11:39 рм September 10 Sat.

![](_page_54_Picture_8.jpeg)

#### Night's Work

#### **Relocation of Wildlife**

![](_page_55_Picture_0.jpeg)

![](_page_55_Picture_1.jpeg)

#### **Researching the Community**

![](_page_55_Picture_3.jpeg)

![](_page_55_Picture_4.jpeg)

#### Local Greenhouse

![](_page_55_Picture_7.jpeg)

#### House Visits

#### **Use of Vermicast**

## **Gallery 8 Earthleigh's Impact**

![](_page_56_Picture_1.jpeg)

#### Healthy Sprouts

![](_page_56_Picture_3.jpeg)

#### **Relaxed Residents**

![](_page_56_Picture_5.jpeg)

![](_page_56_Picture_7.jpeg)

#### **Bountiful Harvests**

#### **Food Supply Secured**

## **Gallery 9** Visit Earthleigh!

![](_page_57_Picture_1.jpeg)

With your Nintendo Switch, visit Earthleigh through Animal **Crossing: New Horizons with the Dream Address above!** 

![](_page_57_Picture_3.jpeg)

# DA-9805-9941-6666