

# Let's review again

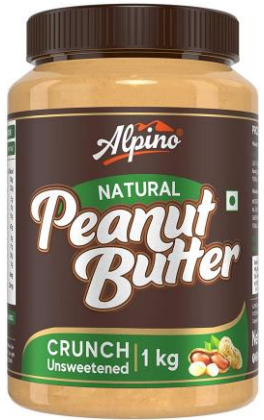
- the right (權力) to food
- A foodbank is a non-profit organization that collects and distributes **food** to hunger-relief(飢餓救濟) charities.
- SDGs 2: Zero hunger
- Food should be **safe**, **sufficient** and **affordable** for all.  
充足的 負擔的起的

# Food Bank Concept Map



# What do foodbanks need?

Foodbanks need \_\_\_\_\_.



peanut butter



canned fruit



tissue/  
toilet paper



pasta



# Foodbank Packages

我們可以捐哪種物資給食物銀行呢？



1. meat



2. tinned



3. tissue/toilet paper



4. cookies.



5. toothbrush



6. cereals and juice

# Do we have foodbank in Taiwan?



# Today's Vocabulary

- agriculture 農業
- security 安全的
- drought 乾旱
- malnutrition 營養不良
- waste 浪費





FOOD AND AGRICULTURE  
ORGANIZATION  
OF THE UNITED NATIONS

# What's FAO?

- Food and Agriculture Organization of the United Nations
- 聯合國糧食及農業組織(1945~)
- Purpose (目的)
  - (1) achieve **food security** (食品安全) for all
  - (2) make sure that people have regular access to enough high-quality(高品質) food to lead healthy lives.
- 實現所有人的糧食安全，確保人們能夠定期獲得充足的食物

# three kinds of malnutrition

營養不良的人口佔全世界1/3



## Malnutrition

- Affects 1 in 3 people all over the world
- Comes in different shapes and sizes



### Stunting

A person too short for his age

發育遲緩



### Wasting

A person too thin for his height



### Obesity

A person who's overweight



# Go to FAO youtube channel



Food and Agriculture Organization of the United Nations

11.3萬 位訂閱者

訂閱

首頁

影片

播放清單

社群

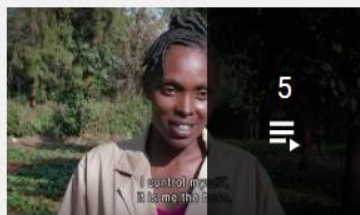
頻道

簡介



已建立的播放清單

≡ 排序依據



Rural youth agribusiness success stories from Kenya

今天更新

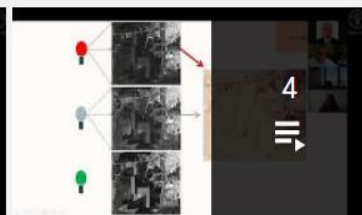
查看完整播放清單



İklim Esnekliği ile Ekosistem Yönetimini Geliştirerek Gıda...

3 天前更新

查看完整播放清單



Integrated Land-use Plan (ILUP) for Food Security by Enhancin...

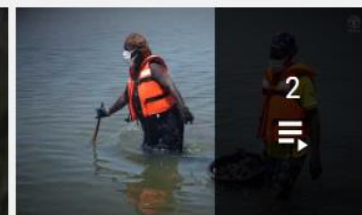
3 天前更新

查看完整播放清單



Voices of Diversity Series- International Treaty

查看完整播放清單



FAO Fisheries Division Project: The Coastal Fisheries Initiativ...

查看完整播放清單



# Let's see a video! (FAO)

predicting crises is the future of aid



# What do you see in the video?

- Floods in Bangladesh (孟加拉).
- Locusts in East Africa.
- Severe(嚴重的) winter in Mongolia.
- protect farmers.
- FAO is predicting(預測) disasters(災難)
- drought-resistant (抗旱) seeds
- pest (害蟲) control
- new technology

除了Zero Hunger，FAO也  
針對了SDGs 第5、6、12  
、14、15提供了具體改善  
方式

# Tracking progress on food and agriculture-related SDG indicators 2020

A report on the indicators under FAO custodianship



# Path to Zero Hunger by 2030

## PATH TO ZERO HUNGER BY 2030



In September 2015, the 193 UN Member States commit to 17 SDGs, including

**ZERO HUNGER BY 2030**



BY THE YEAR 2030  
WORLD POPULATION  
IS PROJECTED TO GROW  
TO AROUND



8.3 billion

ABOUT 800 MILLION PEOPLE  
GO HUNGRY TODAY



Promote nutrition policies, including dietary education, and shift to consumption and production approaches that promote biodiversity and long-term health benefits.

SDGs 2 3



Establish social protection systems to improve food access, such as school food and cash transfers. Without nourishment, humans cannot learn, or lead healthy and productive lives.

SDGs 1 2 3 4 8 10



DEMAND FOR FOOD  
WILL GROW



Increase investment in agriculture. Build market infrastructure and improve public goods to help raise productivity and rural incomes.

SDGs 1 2 9 10



Sustainably manage forests, oceans, water, land and soil – and promote an ecosystem approach to extract greater agricultural yield with fewer inputs.

SDGs 2 10 13 14 15

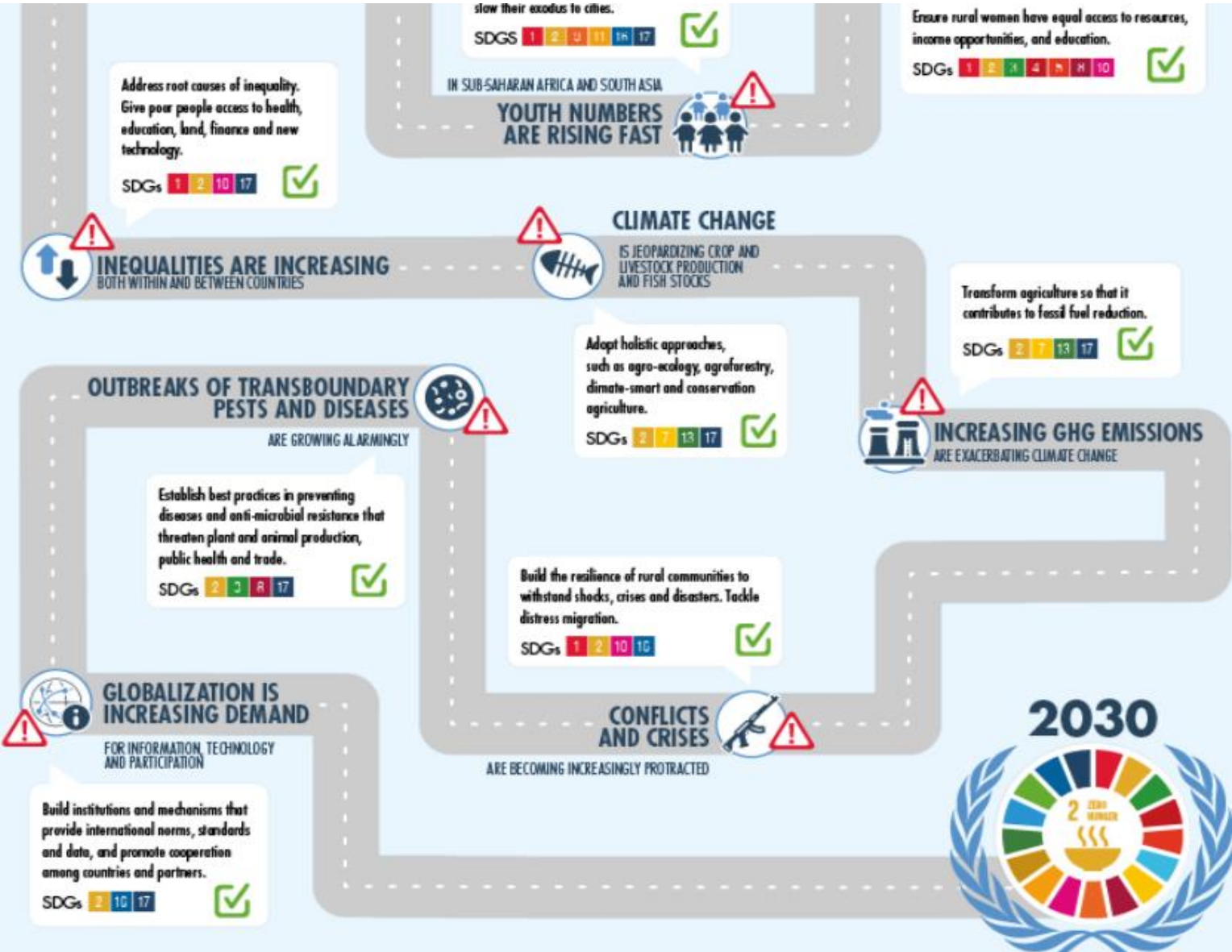


RISING FOOD DEMAND IS  
INCREASING COMPETITION FOR  
NATURAL RESOURCES



ALMOST

# Path to Zero Hunger by 2030



Except for the FAO, What else do you know about the agriculture organization?

除了FAO以外，你還知道有哪些機構是可以幫忙的？



世界糧食計畫署



聯合國兒童基金會  
The United Nations Children's Fund



AgTech [行政院農業委員會農業科技專案計畫服務網](#)



樂施會

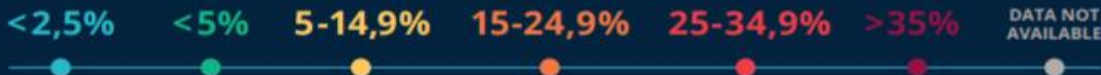
# 2020 Hunger Map



## Hunger Map 2020

**CHRONIC HUNGER**

If current trends continue, the number of hungry people will reach 840 million by 2030



Chronic hunger is defined as the condition in which an individual's habitual food consumption is insufficient to provide the amount of energy required to maintain a normal active healthy life. The indicator is reported as the prevalence of undernourishment (PoU), which is an estimate of the percentage of individuals in the total population that live on a constant or insufficient amount of food to meet their minimum energy requirements. To reduce the influence of seasonal variations, national estimates are reported as a three-year moving average. Sources: FAO, UNICEF, WHO, and WFP. The data of food security and nutrition in the world: 2020. Transforming food systems for better health and nutrition. Rome, Italy: Food and Agriculture Organization of the United Nations; 2020. <https://www.fao.org/state-of-food-security-nutrition/en>

© World Food Programme 2020



# food loss vs. food waste

## 糧食損失

## 食物浪費

- 食物從產地到餐桌每個環節都存在浪費
- **Food loss: earlier in the food chain**
- 種植、採收後、加工、配送階段，在製成成品前食物數量、品質及價值的減損
- **Food waste: at the end of the food chain**

### Food System



# Food Loss

# Food Waste



On Farms



During Storage



During Transport



In Restaurants



In Households



In Stores

Now, It's

Your turn

# Food waste or food loss

1.		leftover 'ugly' produce in farm fields	food waste
2.		_____ during harvest because of a drought or storm.	food loss
3.		food expires before sale at the supermarket	food waste
4.		Crops spoiled by bugs from inadequate storage	food loss
5.		Food thrown away at school or restaurant.	food waste

# 4 Rs of food waste

1. **Reduce** food waste



2. **Re-use** food within the human chain  
(donate food)



3. **Recycle** and **Recover**  
(composting 堆肥 or energy production)



biogas 生物燃氣



biomass energy 生質能源

# Food Waste-How is it recycled



wasted food has a big impact on climate

▶ ⏸ 🔊 0:02 / 1:20



# Packaging and Labels

想想看為什麼我們吃的食物要有標示？

- convenience and distribution
- security reason
- Nutritional information
- easy marketing/pricing
- listing of allergens (列出過敏源)
- listing of ingredients (列出成份)



Healthy eating starts with knowing the facts about what you are putting in your mouth.

# Packaging and Labels

## Nutrition Facts

Serv. Size 1 Bottle

Amount Per Serving

**Calories 200**

% Daily Value

**Total Fat** 0g **0%**

**Sodium** 65mg **3%**

**Total Carb.** 55g **20%**

Total Sugars 55g

Incl. 55g Added Sugars **110%**

**Protein** 0g

Not a significant source of sat. fat, *trans* fat, cholest., fiber, vit. D, calcium, iron and potas.

*Coca-Cola*

NUTRITION



serving size  
「一份」的量

Per Serving, % Daily Value  
「一份」裡面營養成分的含量

carbohydrate





SOME PEOPLE HAVE **SO MUCH FOOD** THEY THROW PART OF IT AWAY, WHILE OTHERS HAVE **TOO LITTLE**, OR TOO MUCH OF ONLY ONE SORT OF FOOD...



EATING ONLY ONE SORT OF FOOD CAUSES ALL KINDS OF WEAKNESSES

HERE'S WHAT WE CAN DO ABOUT IT!



## END MALNUTRITION

IMPROVE EDUCATION AND SOCIAL PROGRAMS FOR MOTHERS, CHILDREN AND THE ELDERLY

## SUPPORT SMALL FARMERS ESPECIALLY WOMEN AND INDIGENOUS PEOPLE



## PREVENT/MANAGE NATURAL DISASTERS

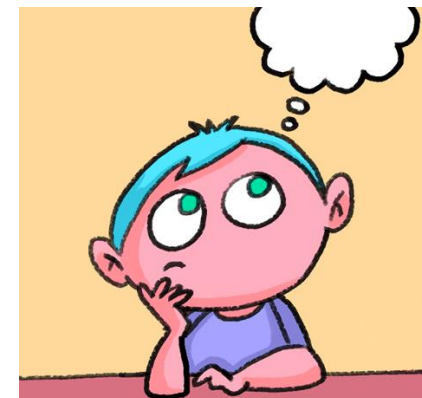


## PROTECT VARIETY OF CROPS AND FARM ANIMALS



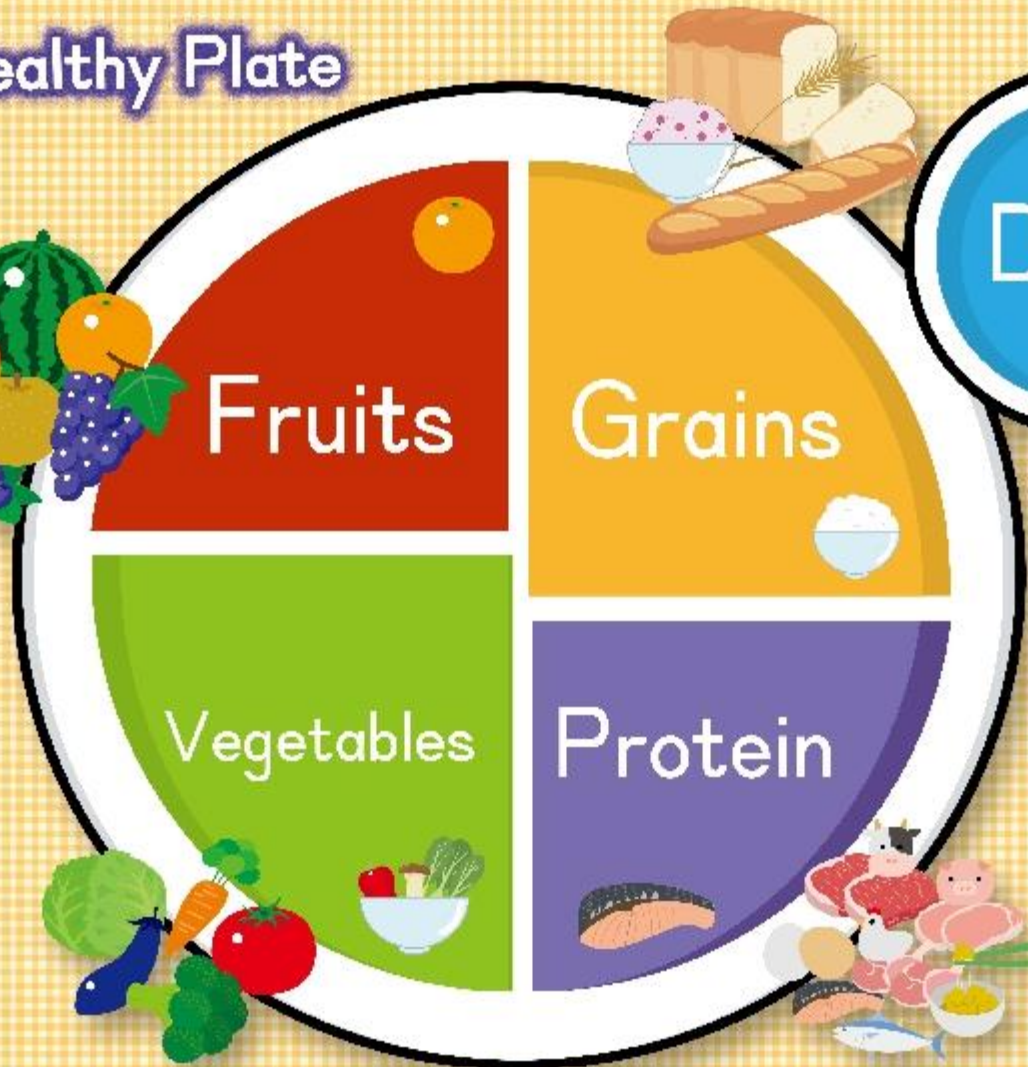
COMICS  
UNITING  
NATIONS

1. end malnutrition
2. support small farmers
3. prevent/manage natural disasters
4. protect variety



# Every Plate Tells A Story

Make Healthy Plate



Dairy



# Every Plate Tells A Story

1. Who **grew** or **helped produce** my food?
2. How **far** did my food **travel** to get to me?
3. What **values** are **embedded** in?
4. Am I making a **healthy choice**?
5. How **much** food am I **wasting**?



# Every Plate Tells A Story



0:08 / 2:05

A set of standard video player controls including a play button, a next button, a volume icon, a progress bar, a toggle switch, a full screen button, a settings gear, a share icon, and a close button.

# WHAT'S ON MY PLATE?

## STOP AND THINK ABOUT THE GLOBAL GOALS



HOW FAR DID MY FOOD TRAVEL TO GET TO ME?



WHO GREW OR HELPED PRODUCE MY FOOD?



# What's on my plate?



WHAT WAS MY FOOD PACKAGED IN?



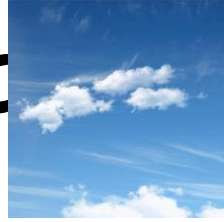
AM I MAKING HEALTHY CHOICES?



HOW MUCH FOOD AM I WASTING?



# We create the storybook together!



Pakistan



Taiwan



# 文賢國小 Our Storybook Project



**HUNGER LAND**



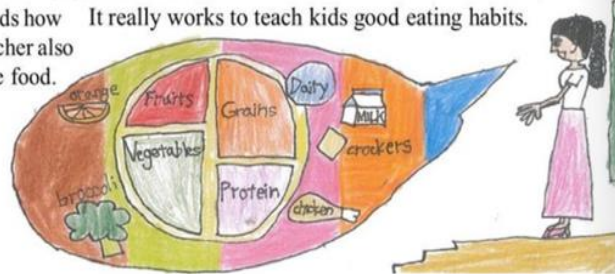
# food bank/ have a balance diet/ organic farm (有機耕作) through organic cultivation

The American provides people of the hunger land with three strategies which has already implemented by the US government for several years.

First, establish **FOOD BANK** in each community and then set up FoodSharing site help share their leftovers.



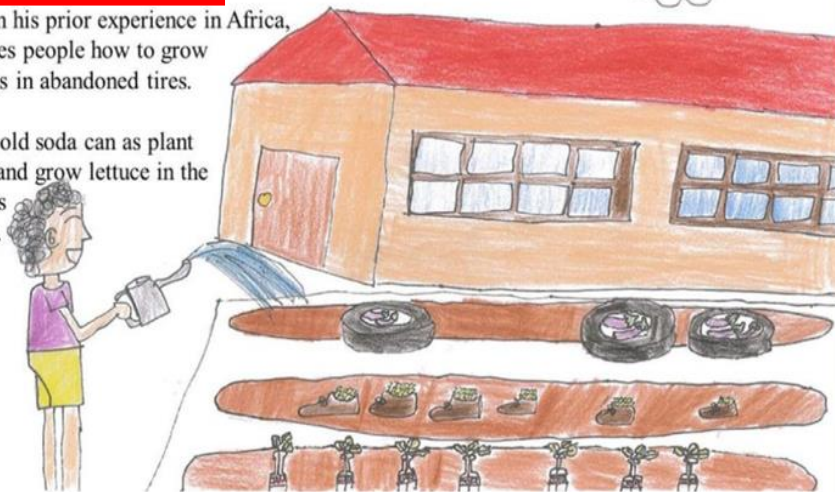
Second, teachers must teach kids how to **have a balance diet**. The teacher also need to teach them not to waste food.



African suggest that people in the hunger land should make their own **organic** farm through organic cultivation.

Based on his prior experience in Africa, he teaches people how to grow eggplants in abandoned tires.

He uses old soda can as plant holders and grow lettuce in the old shoes or boots.





# FAO / biomass energy (生質能源轉換)

Taiwanese introduces **Food and Agriculture Organization (FAO)** to the hunger land. People who comes from FAO teach local people how to use farm tools.

FAO provides not only organic pesticide to local people so that the plants can grow healthy, but also high-tech irrigation systems to reduce water evaporation and keep crops fresh. Digital agriculture technologies can make agricultural markets more efficient.



Pakistani suggests people in the Hunger Land start to use **'biomass energy'**.

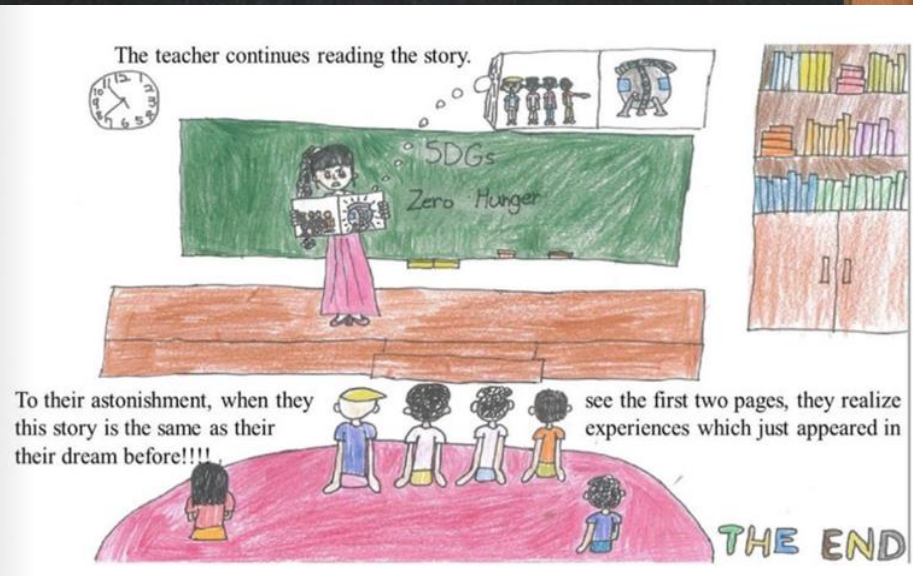
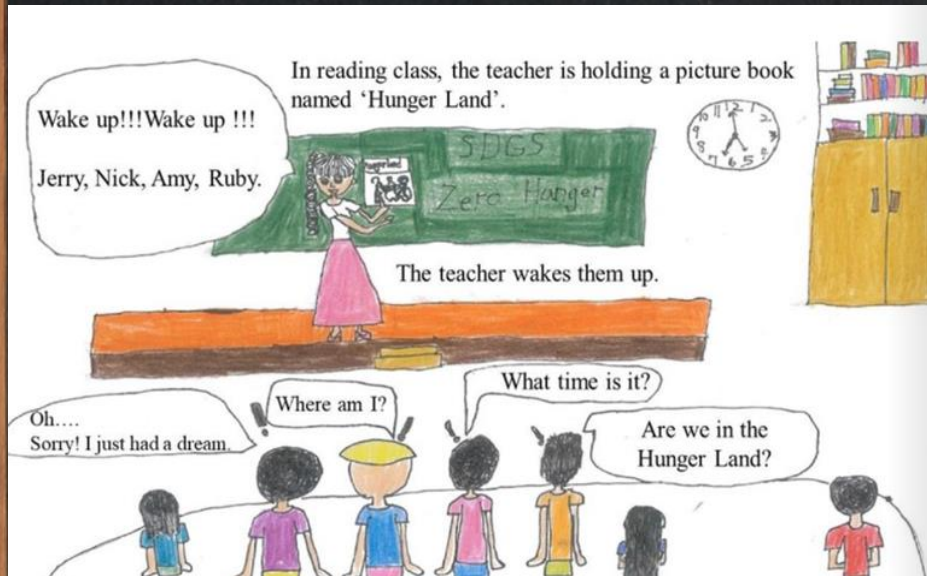
Biomass energy is produced by living or once-living organisms. It can be burned to create heat, converted into electricity or processed into biofuel.

It's necessary to build a 'biomass power plant' in the Hunger Land to create heat and electricity.





# A surprising ending



# 不同國家的人吃什麼？

時代週刊最新組圖 《飢餓的星球》



圖片引用自時代雜誌，為保護著作權，請自行上網引用於教學  
<https://time.com/8515/what-the-world-eats-hungry-planet/>