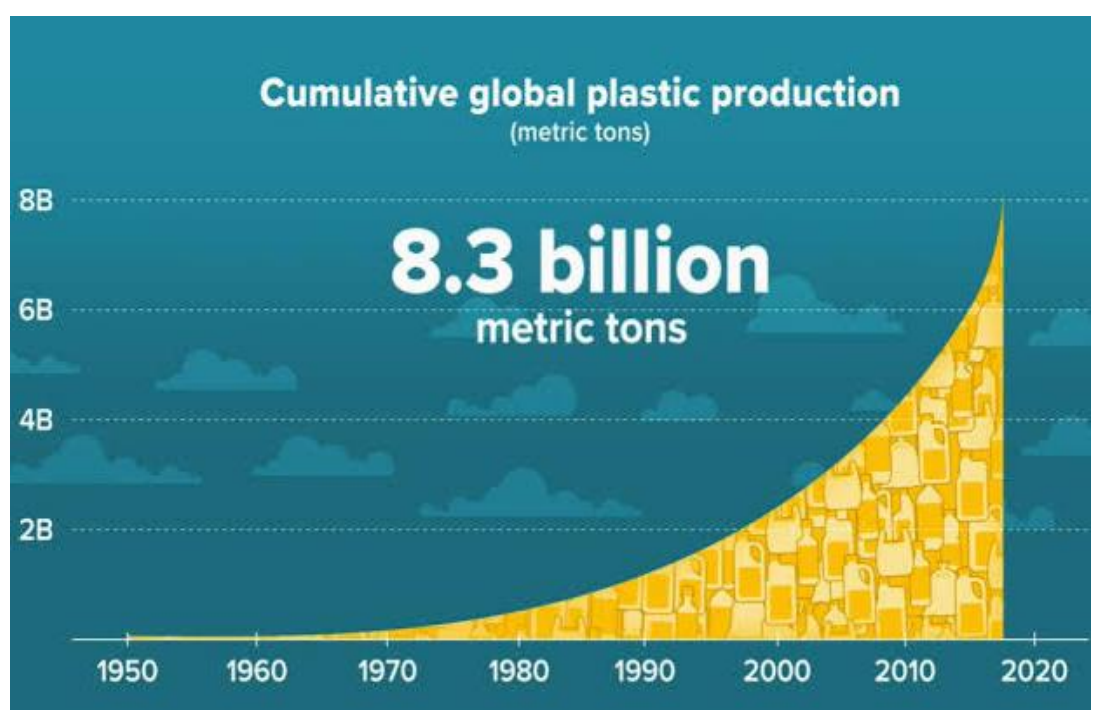


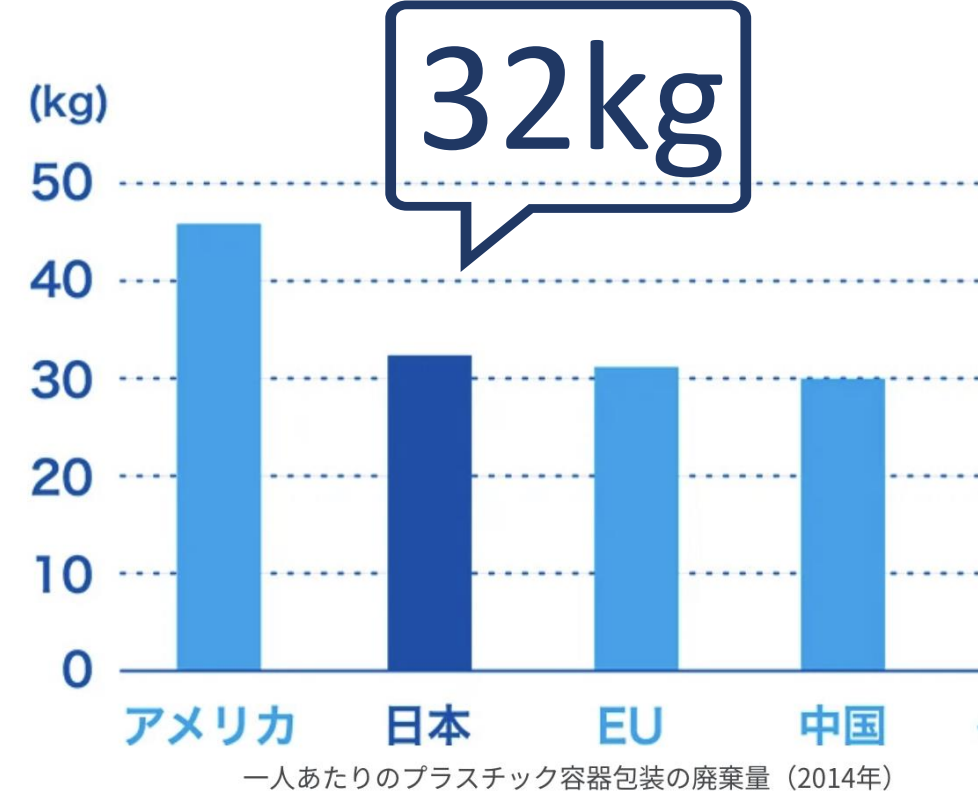
# Seaweed Based Food Packaging

## A Powerful Way to Save Marine Environments

### Background:



Global plastic production from 1950 to 2015



The amount of plastic containers and packaging waste per person is **Second Highest in**

When micro plastics accumulate in the body, it may cause **serious health problems**

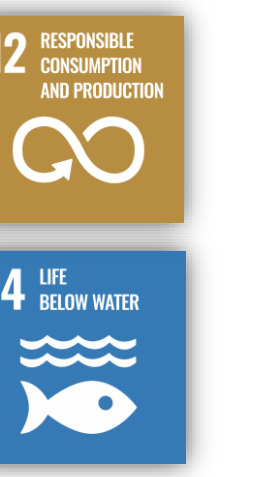


### Takatsuki High School



### ? Research Question:

How can we reduce plastic to save the **Marine environment** ?  
Actions to achieve SDGs goals no.12 and 14



### My Fieldwork in Palau:



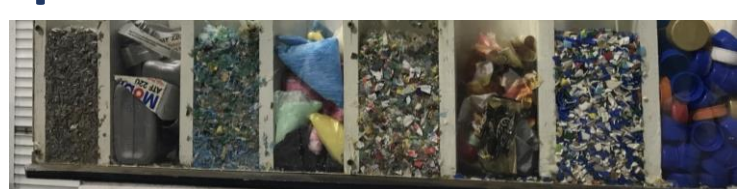
To keep the ocean clean, we take environmental fee from foreign visitors!

#### National Redemption Center In Koror

Count Trash & Separate from cans



Segregate plastic



Break plastic into pieces



Turn Plastic into Oil

Used for Electricity and Gasoline!

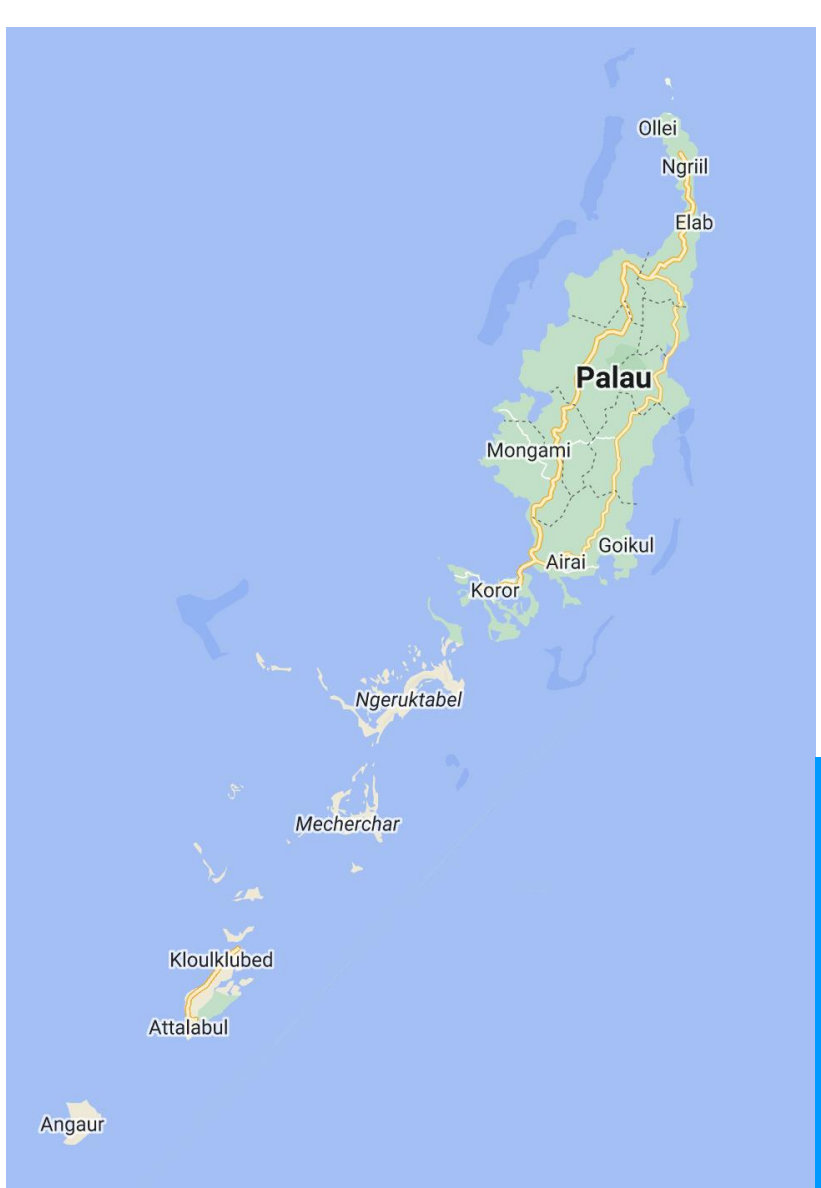


#### Seaweed in Palau

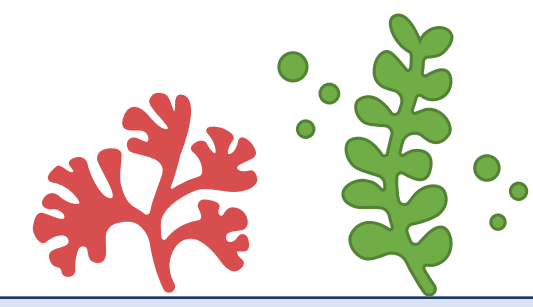
In Japan, some of the seaweed is edible.  
In Palau, it is not.  
→ Large amount left!



In some parts of Palau, people use leaves as plates when they serve food!  
This can be thrown away anywhere, even into the ocean!



### Seaweed based FOOD packaging!



Why food packaging?

Japanese people often eat seaweed (ex.miso soup, Nori,etc)

We wouldn't be reluctant to eat something that was wrapped in seaweed!

### Seaweed!

**Biodegradable**

Plant based: ×  
Dissolves in water: ○

**Biomass**

Plant based: ○  
Dissolves in water: ×



### ★ Strong Points:

- It is safe to put in your mouth!
- When animals swallow it, it will not cause any harm!
- It dissolves in water!



→ It will **NOT** become micro plastics!

### ★ Weak Points:

Since it breaks down easily, it is not suitable for putting pointy or sharp things in, and for a long time

### My Solution :

● To use seaweed packaging for food effectively, we should ...  
**Use seaweed packaging for food at fast food restaurants as the first place and hand out flyers for customers!**

Many young people go to fast food restaurants frequently  
→ They will become interested in what seaweed packaging is

● My Final Goal is...

I want to people all over the world to use seaweed packaging in their daily lives and

**Save the Marine Environment**



### References:

- <https://note.com/postock/n/n95c673d4b6e7>
- <https://www.greenpeace.org/japan/campaigns/story/2023/06/01/63221/>
- <https://mundoazul.org/microplastics-in-fish-and-fishmeal/>
- <https://biopac.id/>
- 『スープの地球』著:ミヒル・ロスカム・アヒング 訳:藤原幸一