



**UNIVERSITI
MALAYA**

Faculty of Law

BUILDING A SUSTAINABLE FOOD FUTURE

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INTRODUCTION

This handbook explores strategies for building a sustainable food future by **addressing the entire food cycle**, from responsible production practices to mindful consumption habits.

The Objectives and Goals:

- To empower Public with the knowledge to **make informed choices** and **take meaningful action** towards building a sustainable food future.
- To provide **comprehensive understanding** of sustainable food production and consumption practices.



FOCUS AREA

This handbook explores **3 key areas** crucial for creating sustainable food systems:

- 1. Education**
- 2. Social Responsibility**
- 3. Artificial Intelligence (AI)**





EDUCATION

- By educating people about where their food comes from, how it is grown, and the environmental impact of food choices, we empower individuals to make informed decisions.
- **Individual Roles**
 - (1) Learning to choose healthier food options.
 - (2) Healthier consumption habits at home.
- **Corporate Roles**
 - (1) Offer recyclable or reusable packaging options.
 - (2) Engage with sustainable suppliers.
 - (3) Eliminate greenwashing.
- **Government Roles**
 - (1) Organize school feeding programs.
 - (2) Encourage school farming.

SOCIAL RESPONSIBILITY

- Social Responsibility is an ethical focus for individuals, companies, and government to take action that benefit the society in building sustainable food future.
- **Individual Social Responsibility**
 - (1) Take 6R's Actions: Refuse, Reduce, Reuse, Repurpose, Recycle and Rot.
- **Corporate Social Responsibility**
 - (1) Provide proper food labels for consumers.
 - (2) Extend food shelf life in a sustainable manner.
 - (3) Conduct a waste audit to determine an effective food waste management in the company.
 - (4) Organise the eco-conscious activity, such as cleaning beaches or planting trees.
- **Government's Role in Promoting Social Responsibility**
 - (1) Implement national policies and guidelines for sustainable production and consumption.



ARTIFICIAL INTELLIGENCE (AI)

- AI is transforming the food system from how it's grown to how we consume it.
- **Roles of Businesses on AI's Applications**
 - **Food Producers and Manufacturers**
 - (1) Implement AI-powered cameras to identify food defects.
 - (2) Utilize AI-powered forecasting to optimize production.
 - (3) Integrate AI for smart packaging.
 - **Retailers and Restaurants**
 - (1) Implement AI-powered inventory systems.
 - (2) Utilize AI to adjust pricing on near-expiry perishable foods.
 - **Food Delivery**
 - (1) Utilize AI to monitor deliveries by canceling orders.
 - (2) Offer discounted surplus food through app-based pick-up.
- **Roles of Government on AI's Applications**
 - (1) Offer incentives for AI investment and support research and development of responsible and ethical AI applications.
 - (2) Establish regulatory frameworks to address biases and ethical risks.



THANK YOU !



DID YOU KNOW ?

Potato chip bags are often non-recyclable as the bags are made up of multilayers of plastics, and factory plants are unable to separate the layers!

DID YOU KNOW ?

- The **luffa** can become an eco-friendly **vegetable sponge to wash dishes**.
- The **vegetable scraps** such as beet, carrot, celery, cabbage, garlic, lettuce, onion, and turnip **can be regrown**.

DID YOU KNOW ?

Malaysia has unveiled the **world's first AI-driven smart palm oil mill**. The AI system uses sensors, CCTV cameras, and data analysis to automate and optimize palm oil mill operations.

DID YOU KNOW ?

Malaysia is leveraging AI technologies such as **drones, AI-based irrigation systems**, and **machine vision** to enhance soil fertility, improve crop quality, and monitor livestock health.