

The State of Food Environment in Malaysia

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KHAZANAH RESEARCH INSTITUTE

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We carry out research on pressing issues of the nation and, based on that research, recommend policies to improve the well-being of Malaysians.

We do this through:

- rigorous impartial analysis founded on data;
- convening meetings and forums to illuminate understanding of the issues; and
- being advocates of the knowledge we acquire.

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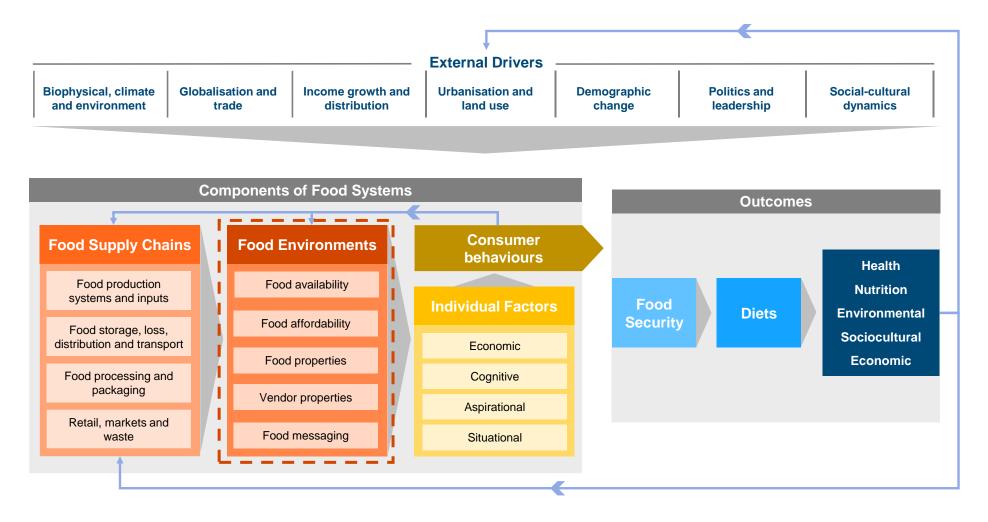
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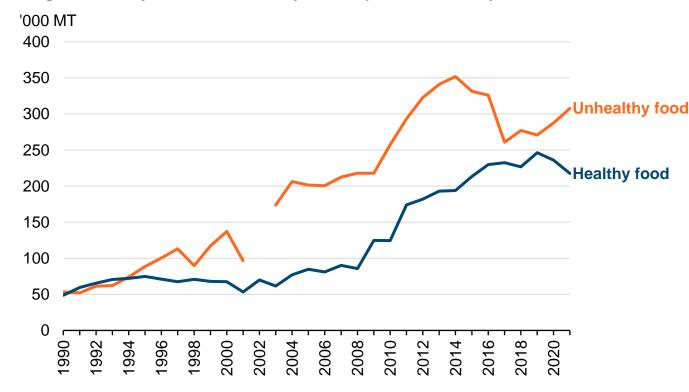
1. The State of Food Environment in Malaysia

The five dimensions of food environment



Energy-dense and high-fat, sugar or salt foods are increasingly available

Weight of healthy food and unhealthy food imported into Malaysia, 1990 – 2021



- Malaysia is increasingly reliance on food import for caloric and nutrient supply, which introduces challenges into our food environment.
- The weight of imported ultra-processed, energy-dense, and high-fat foods has been increasing at a compounded annual growth rate (CAGR) of 5.82% since 1990, higher than that of healthy food (CAGR = 4.94%).

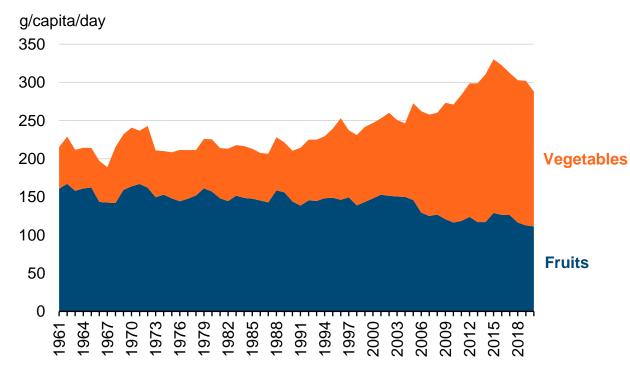
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Source: KRI calculations based on Friel et al. (2013), United Nations (2020), and Brewer et al. (2023)

Note: Healthy foods include fresh fruit and vegetables, pulses, nuts and seeds, and staple whole-grain cereals. Unhealthy foods comprise ultra-processed, energy-dense, and high-fat foods that are associated with elevated obesity and NCD risks. The list of food items is extracted from UN COMTRADE Database.

Supply of fruits and vegetables insufficient for the population to meet dietary recommendations



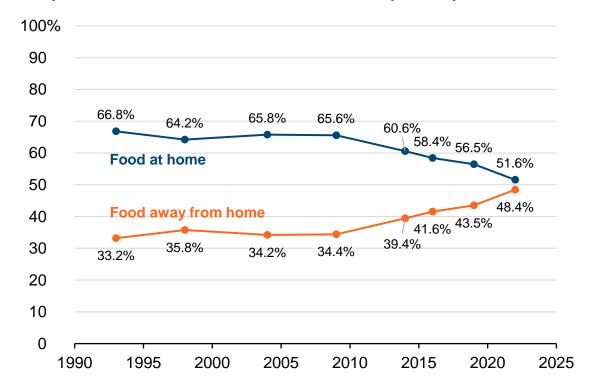
Supply of fruits and vegetables in Malaysia, 1961 – 2020

 In 2020, the supply of fruits and vegetables in Malaysia was 111.4 g/capita/day and 176.6g/capita/day, respectively.

- Malaysian Dietary Guidelines (MDG) 2020
 recommends consuming at least two servings
 of fruits and three servings of vegetables.
 The WHO's guidance is to eat at least 400g or
 five portions of fruits and vegetables daily.
 - Globally, the supply of fruits and vegetables is also 22% short of the total population's nutritional recommendations.

Food Availability

Food away from home has become an essential part of the Malaysian diet



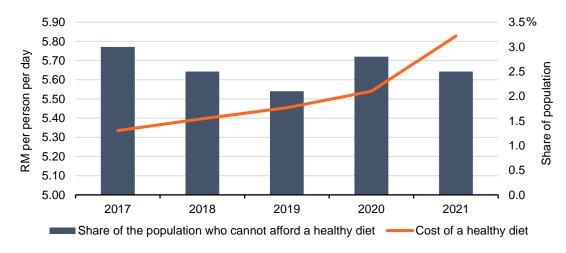
Composition of household nominal food consumption expenditure, 1993 – 2022

- Malaysian households also experience a transition in consumption expenditure patterns as the national food supply shifted towards a more energydense, high-fat and high-sugar diet.
- Rapid urbanisation prompts the shift from food at home (FAH) consumption to greater spending on food away from home (FAFH).
- In 2022, FAFH constituted 48% of the total food consumption expenditure among Malaysian households—the highest share of FAFH since 1993.

Cost of a healthy diet has been rising, with fruits being the most expensive food component

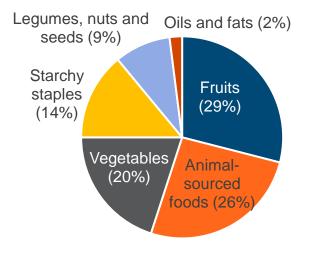
From 2017 to 2021, the cost of a healthy diet has climbed by ۰ 9.2%, estimating to cost RM5.83 in 2021. There has been little progress in reducing the number of people who cannot afford a healthy diet in Malaysia.

Cost of a healthy diet and the number of people who cannot afford a healthy diet in Malaysia, 2017 - 2021



While fruits, vegetables, and animal-sourced foods • are nutritious, they are also more expensive. This does not include the hidden costs of healthy home-cooked meals, such as time and energy costs.

Cost shares of food groups in a healthy diet in Malaysia, 2017



Food Properties

Growing consumption of food away from home poses public health concerns

FAFH includes food items obtained from:



 Commercial formal food service establishments (e.g. restaurants and cafés)



 Commercial informal food service establishments (e.g. street vendors)



Non-commercial institutions (e.g. canteens and schools)

However, FAFH consumption is generally associated with:

- Higher energy, fat and sodium intake
- Poorer diet quality
- Higher intake of SSBs
- Higher intake of fast food

Modernisation of food retail contributes to increased availability of processed foods

The **share of processed food distributed through modern retail channels** (convenience stores, supermarkets and hypermarkets) in Malaysia **increased by 3-fold** from 1999 to 2013 (10% to 30%).

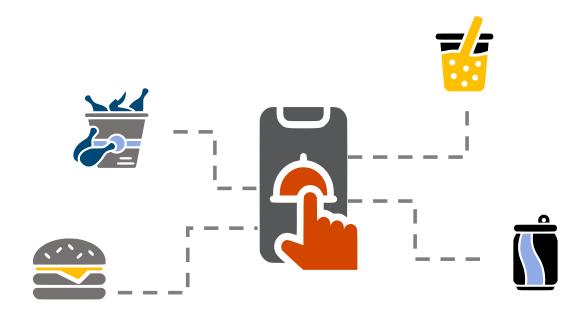
The sales growth of ultra-processed, sweetened beverages (e.g. soft drinks, ready-to-drink coffee, tea and Asian specialty drinks) remains strong in Malaysia.



- While some modern food retailers offer a wide range of fresh produce, they tend to be dominated by processed, dry and packaged foods.
- Modern food retail, especially multinational food retail chains, offer great price competitiveness, making them an increasingly favourable choice for consumers to shop.
- They also serve as a key channel for **food marketing and promotion**:
 - Charlton et al. (2015) showed that supermarket circulars contained a ratio of two unhealthy foods to every healthy food promoted.

Source: Baker and Friel (2016), Baker et al. (2020) Image source: Freepik.com Khazanah Research Institute

Online food deliveries expand access to food, including unhealthy ones



- Fast food and sugary drinks are consistently reported ٠ as among the top food categories searched or most popular food ordered on GrabFood from 2021 to 2023.
- Sweetened or carbonated drinks are frequently • ordered as teatime and supper snacks.
- The strategy of offering combo sets or add-ons, ٠ typically drinks and desserts may encourage overconsumption.
- The convenience of ordering food online and having it delivered to the doorstep may also promote a sedentary lifestyle.



Unhealthy street foods are commonly available

Street food is a major source of food for people in developing countries – adults generally consume 13% to 50% and children consume 12% to 40% of energy from street food.

- Street food in Malaysia typically consists of snacks, main meals and desserts.
 - Snacks: fried processed meat products, keropok lekor, satay, curry puff
 - Main meals: fried noodles, fried rice, nasi lemak
 - Desserts: kuih muih, cakes and pastries, banana fritters
- **Deep frying** is the most common cooking method, followed by steaming and pan-frying.
- Many street food options were reported to be high in sodium, sugar and fat.
- They are also very **accessible**, given the **proximity** to neighbourhoods, public transports and workplaces.

Trends towards unhealthy eating further reinforced by social media

Trending Food in Malaysia -



The Most Customers Korean Spicy Buldak...

🛞 travelicio... ♡ 627.7K



RM5 Viral Indomie at

Viral Maggi Goreng In Tasik Titiwangsa! 📍 In... Setiawangsa 🐸 📍 ... bestfoodmy ♡ 28.1K

Viral Maggi Goreng in

Setiawangsa

😬 bestfood... 🗢 53.3K



Vietnam roll KUAH KARIII??? #vsr #foodi... foodhunte... ♡ 4589



Saved & Shared for your next trip 🕅 му... 🕅 vanishaoct... ♡ 4065



Viral Thai Snow Bun in

KL* 9 @yonocafee...

estfoodmy ♡ 75.4K



Cuba makanan viral dekat KL 😚

frhnani.j ♡ 100.7K



RM180 Viral Fix Chocolate Dubai! 10/1...



Tak dinafikan, cheese leleh ini antara satu...



Trying out these 5 viral things to eat in Bukit ...



\$0.42 Traditional Malaysian Cake му...



6 JUN 24: Nak 10 suap kena beli 10 bungkus...



Harga murah giler! Rasa pun sedap. U guys ras...



Viral Milk Bun at Pasar Seni 9 @thebakestry...

Food Messaging

Unhealthy food advertising tends to target children, while adolescents are vulnerable to digital marketing



The existing body of evidence shows that:

- Foods advertised on **TV and YouTube** are primarily **non-core or unhealthy foods**.
- Unhealthy food advertising rate is significantly higher during school holidays and children's peak viewing time.
- **Promotional characters** like cartoons or celebrities were commonly used in the advertisement of unhealthy food.
- The most commonly advertised unhealthy foods include **SSBs**, pastries and cakes, snacks, fast food and ice cream.



The rapid spread of digital food marketing alongside the lack of regulations is a serious concern.

- Digital food marketing has proven more persuasive than generic and conventional marketing and more significant in influencing food choices.
- Adolescents and young adults may be at a greater risk to being negatively influenced by digital unhealthy food marketing, given that these groups of individuals made up a high share of social media users.

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2. Food Environment Policies and Initiatives

Policies addressing various aspects of food environment in Malaysia

Food availability

- Self-sufficiency ratio (SSR)
- Guidelines on the Prohibition of Sales of Foods Outside School Perimeters
- Healthy Meal Provision during Meetings
- Guide for Healthy School Canteen Management

Food affordability

- SSB tax
- Excise duty on premix preparations
- Payung Rahmah initiatives (e.g. Menu Rahmah and Jualan Rahmah)
- Food-related income support for the poor

Food and vendor properties

- Healthier Choice Logo
- Healthy Cafeteria
- Healthy Catering Training
- Food Regulations 1985

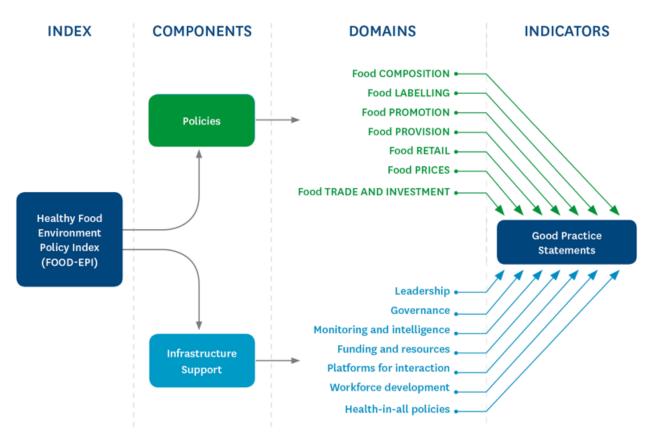
- Food composition standards
- Malaysian Dietary Guidelines
- Recommended Nutrient
 Intakes for Malaysia

Food messaging

- Healthier Choice Logo
- Fast Food Advertising
 Guidelines
- Responsible Advertising to Children's Initiative (the Malaysian Pledge)
- Provision of nutrition information at fast food restaurants
- Code of Ethics for the Marketing of Infant Food and Related Products

Tool to assess food environment policies

Food Environment Policy Index (Food-EPI) developed by the International Network for Food Obesity /NCDs Research, Monitoring and Action Support (INFORMAS) serves as an **index to monitor food environment policy implementation**.



- Ng et al. (2018) showed that the implementation of nearly two-thirds of the Food-EPI indicators was low (mean % of implementation of 26-50%)
- The rest are rated as medium (51-75% of implementation)
- Malaysia's performance was average, neither commendable nor poor, compared to international best practices
- Lowest rated indicators are
 - Restrictions of unhealthy food promotion in children's settings and through broadcast media
 - Food composition targets or standards for out-ofhome meals

Opportunities and Gaps

Data and research on:

- Food away from home consumption (e.g. sources, types of food, consumer characteristics, locality, sociocultural drivers and nutritional implications)
- Healthy and unhealthy food cost and affordability
- 'Hidden' cost of healthy home-cooked food (e.g. time cost)
- Impact of **retail modernisation** on consumer food choices and adherence to dietary guidelines
- Spatial access to food and the impact on food choices
- Influences of **online food deliveries** on food consumption patterns
- Digital food environment



3. The Way Forward

System wide improvements in the food environment are needed



- Strengthen existing food environment policies to respond to inequalities in food choices (e.g. by income, education level, health literary, ethnicity) and consider making them mandatory
- Undertake a more comprehensive package of food environment policies to more adequately respond to shifts in the food environment and consumption patterns



Unhealthy but not by Choice: Food Environment and Nutrition Inequalities



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