



From the

CIO'S DESK

**"Forgiveness Does Not Change the Past.
It Does Enlarge the Future."**

Recent events – from snarled supply chains to sparring war in Ukraine - have encouraged me to write on anger. Some said that we live lives of simmering fury and boiling rage. As we get older, anger becomes a constant companion. Almost everything enrages us, from delayed deliveries to political bickering and geopolitical hostility. Inappropriate use of texting, either while driving or walking down the street, is included.

The anger of the human species is as horribly inevitable as death. And the only reason we are not that angry as kids is because we have no idea how the world and things should work. Some say that it is normal to get angry. Being angry is being human. Without feeling mightily hacked off, our forebears would never have crawled from the primordial swamp.

“ **Some say it is normal to get angry,
Being angry is being human**
But how often do James Bond's eye bulge with Fury? I'm sure none of us aspire to the anger explosions of the Hulk ”

But anger can also be repulsive. Anger will not be repulsive if it is righteous and if the fury is vented with an icy calm (p/s: I mean polite). I am sure none of us aspires to the anger explosions of Dr Banner when he transforms into the Hulk. The icons of hero mythology all operate at a far lower temperature. How often do James Bond's eyes bulge with fury? Never. The 007 agent slays the agents of smersh and spectre without losing his cool. Even Miranda Priestly in “Devil Wears Prada” (some ladies think she's an inspiration, but hardly a heroine) is capable of committing mass murder without raising her voice above a whisper.



Source: Euronews, 2022 & TIME, 2022

Editor's Note: фотографии, которые заставили меня плакать.

As the war in Ukraine rages on, households across the world face soaring food prices and the prospect of shortages. Russia and Ukraine are major exporters of barley, maize and sunflower oil. Both countries produce a third of the world's wheat. When it comes to wheat production, one cannot just turn on a tap. It is not oil. If farmers cannot get their fields sowed, there won't be any wheat this harvest time. That would result in a worldwide shortage of wheat, on top of a major price increase. Traditionally, the milling of wheat produces flour for human use and its by-products for animal feeds. Any disruption to harvesting and milling would have a catastrophic effect on global food security.

“ **Both Russia and Ukraine are major exporters of barley, maize and sunflower oil** **Any disruptions to harvesting and milling would have a catastrophic effect on** **Global Food Security** ”

One does not need to see recent eye-popping inflation report to know that prices are getting painfully high. We can see it every time we go to the supermarket. Rising prices stoke anger.



If you are a fan of Netflix like me, you might have noticed the addition of awkwardly named “Old Enough” (“Hajimete no Otsukai”), a Japanese programme that follows children as young as two being sent out by parents on their first errand. We see whether these young kids manage the round trip to the supermarket and remember all things they are supposed to buy. In one episode, a girl name Yuta complained about expensive dango rice dumplings!

I always remind myself that if I were to be angry, it must be righteous and not repulsive. I understand that lives are full of compromises and trade-offs. Instead of dwelling in anger and frustration, we should look at this as a chance to build our resilience. Given the rising food prices as a result of factors beyond our control, we see innovative start-ups challenge the way food is produced, distributed and consumed. It is a call to search for alternative protein sources as food and feed.

As we do our grocery shopping and preparation for Eid or Hari Raya, and in the spirit of reflection as well as celebration, Penjana Kapital and I seek forgiveness from our partners and readers: letting go of grudges, releasing of anger that may hold us back.



This Ramadan teaches us the ability to withstand adversity, turn challenges to celebration.

“ **Selamat Hari Raya, Maaf Zahir dan Batin** ”



The Rise of the
ALTERNATIVES
AGRITECH'S NEW HORIZON

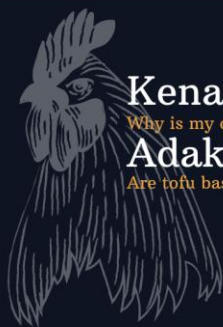


The Hungry Philosopher

Ramadan Kareem dear esteemed readers! Or by the time you read this, Selamat Hari Raya! (~~If we published on time that is, fingers crossed~~). For the benefit of our international readers (yes, the three of you), Ramadan is observed by Muslims worldwide as a month of fasting, prayer, reflection and community.

Half of Penjana Kapital's analysts participated in this observance, and my teammate, whom I shall refer to as "II" (Nicknamed: Pause Button) was one of them. Since joining the team, "II" the ~~overachiever~~ has consistently up the game and raised the bar for us analysts. Thus, in the spirit of gratitude, togetherness and teamwork, I made the decision to participate and share his daily struggle - 7pm onwards.

If there is one thing "II" likes more than raising the game, it will have to be lunch while watching football highlights. The month of Ramadan however, "II" tends to be especially quiet during lunch time. Thus, what transpired during our Kapitalist ideation surprised us. Perhaps it was the hunger, the breakaway from his routine, or fasting unleashed a hidden talent. As the analysts struggled to find alignment on the Kapitalist's theme, "II" silenced the crowd with the following quote.



Kenapa ayam aku mahal?

Why is my chicken expensive?

Adakah Tofu Chicken lagi mahal?

Are tofu based chicken more expensive?

ILYAS ISHAK, STAR ANALYST OF PENJANA KAPITAL
RAMADAN 2022



Note: II requested his photo removed. So, here's a silhouette of a muscle man

Some of us, awestruck while the others petrified - was that a cryptic message meant for us to decipher? Or has our star analyst gone *one fry short of a Happy Meal*?

Turns out, that was exactly what he meant. Chicken, or rather food prices have soared in recent years. It is especially apparent in a post-pandemic Malaysia, where many lost their livelihoods struggling to put food on the table - which begs the question.

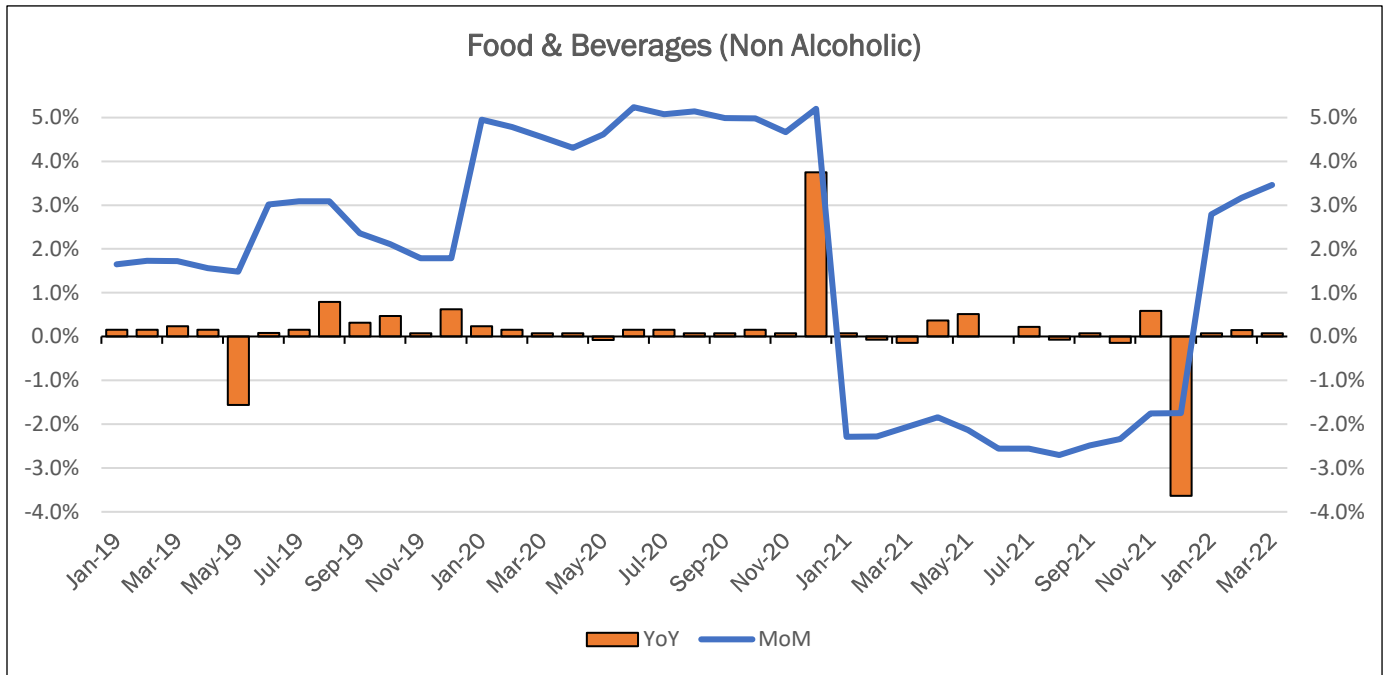
Why is Food so Expensive Now?

Recent months saw an uproar among Malaysians with regards to the rising cost of basic food items such as cooking oil, vegetables, and chicken. According to the Department of Statistics Malaysia ("DOSM"), Malaysia's inflation, as measured by consumer price index ("CPI") rose 2.2% year-on-year ("YoY"); mainly driven by the increase in food and non-alcoholic beverages basket of the index. The 4% increment of this basket was largely contributed by Food & Non-Alcoholic Beverages +3.5% YoY.

As much as it pains me to say this, our dear Pause Button or "II" is right on point.

The End of Covid-19?

As we move forward towards a more relaxed Covid-19 SOP in May, let us reflect and look back on how the pandemic has changed our every aspect of our lives. For instance, e-wallets are more prevalent in our lives now; people hardly carry stacks of cash around anymore. Whilst many lives were tragically lost, many good came out of this pandemic too. One of the silver lining is *heightened sense of awareness towards healthy diet which inadvertently led to the need to do groceries and consumers' sensitivity towards food prices.*



Source: DOSM, e-Statistik 2022; More information in Appendix 1.0

1Q2022: Uproar as Food Prices Soar

Since the advent of 2021, food & non-alcoholic beverages have been making headlines, rising at an alarming rate especially in recent months. DOSM in its March 2022 CPI¹ report states that this is especially the case in 1Q2022 where prices of vegetables, meat and fish soared rapidly on the back of supply shortage, weather factor and rising animal feed prices. The upward pressure on food prices is further exacerbated by global prices of fertilisers and pesticides, which was and still is affected by the conflict between Ukraine and Russia.

Main Group	Weightage	Feb 2022	Mar 2022
Food & Non-Alcoholic Beverages	29.5	+3.7	+4.0
Housing, Water, Electricity, Gas & Other Fuels	23.8	+0.8	+0.9
Transport	14.6	+3.9	+2.6
Others	32.1	9.9	10.2

Main Group	Percentage Change	
	Mar 2022 / Feb 2021	Mar 2022 / Mar 2021
Food & Non-Alcoholic Beverages	0.3	4.0
Food	0.3	4.2
Food at home	0.1	4.3
Rice bread & other cereals	0.3	2.2
Meat	0.4	7.6
Fish & seafood	0.1	4.1
Milk, cheese & eggs	0.5	7.0
Oils & fats	0.2	3.4
Fruits	-0.2	1.5
Vegetables	-0.5	5.1
Sugar, jam, honey, chocolate & confectionery	0.0	2.0
Food products n.e.c	0.5	3.0
Food away from home	0.5	4.0
Coffee, tea, cocoa & non-alcoholic beverages	0.4	1.0

A deeper dive into Food & Non-Alcoholic Beverages unveiled (1) Meat; +7.6% YoY (2) Milk, Cheese & Eggs; +7.0% YoY and (3) Vegetables +5.0% YoY as the top three subgroups with the highest inflation. All of which are staples in our multi-ethnic society.

Source: DOSM, CPI March 2022

With the rising of food prices, consumers are feeling the pinch and feel the need to stretch their money. However, there is only so much penny pinching that one can do when there are structural issues that need to be overcome. *Our hungry philosopher will still be rambling about prices of chicken.*

1. CPI – Consumer Price Index measures the weighted average prices of basket of goods and services. Typically associated with cost of living.

Alternative Food Source?

With a title like “The rise of the Alternatives” one would expect this month’s theme to be all about alternative protein, meat and et-cetera. Dear readers, I would like to introduce you to the term “non-sequitur” - talking about alternative meat would be too obvious, and we’ve already discussed it extensively in our FoodTech themed January issue. Of which the following were cited as key challenges faced by alternative meat producers.

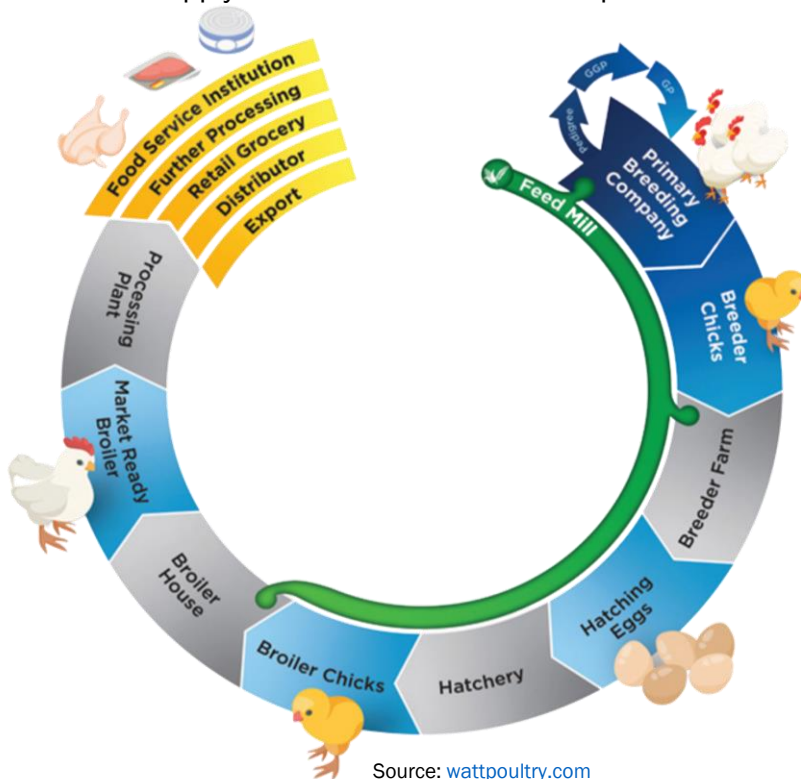
Taste	-	Alternative meat must be able to replicate the smell and taste of traditional meat.
Texture	-	Alternative meat must look and feel the same as their traditional counterparts.
Price	-	Alternative meat must be competitively priced compared to traditional meat before it can create significant demand.
Trust	-	Consumers must take comfort in knowing that alternative meat is safe to consume.

Setting aside Taste, Texture, Trust, we focus our crosshair on “Price”. While the idea of alternative meat is novel, we cannot deny the fact that plant based or any alternative meat for that matter are ridiculously expensive. Plus, its Hari Raya weekend, I do not think my parents will forgive me ever for serving them plant-based meat especially during holiday season. This begs the question, are there any other solutions to the food shortage / inflation issues?

Yes.

When life gives you expensive chickens

As food prices increase, lies an opportunity for entrepreneurs who can solve the supply chain issues. For example, the chicken and eggs shortage. In order to provide chicken and eggs at a reasonable price, the entire supply chain would need to be improved.



Even though, importing chicken can be a short-term solution, prices are still expensive as the transport cost still is sizeable. Not unlike the current situation vis-à-vis freight containers shortages and import/exports, there could be potential hiccups along the way. (Joe.C is a firm believer of Murphy’s Law).

Potential Solutions For The Rising Food Prices

When it comes to agriculture, traditional is still the name of the game, The industry is filled with players who prefer animals over machines when it comes to farming. As an animal lover myself, It is of my humble opinion to let these cows have some rest. That, and the obvious fact that the industry is ripe for disruption.

“ **The industry is ripe for disruption** ”

One of the ways to curb shortage and ensure food security is through adoption of Agritech solutions. So far, we have seen Agritech start-ups focusing on digitalising the farming process – be it through the use of softwares such as *Fefifo* or hardwares such as drones by *Aerodyne*. There are also new biotech solutions to increase the quality and quantity of the produce such as *Qarbotech* and *GK Aqua* or creating alternative food sources such as *Nanka*, *BioLoop* and *Life Origin*.

Note: Some of the startups mentioned are not part of our portfolio.

The logo for Fefifo features the word "Fefifo" in a bold, serif font. The letter "F" is significantly larger and is contained within a teal square. The remaining letters "efifo" are in a smaller, black serif font.

{ A New Beginning
for Agriculture }



Sustainable Farming

The logo for bioloop features the word "bioloop" in a lowercase, green, sans-serif font. The letter "o" is stylized as a continuous loop.The logo for nanka features the word "nanka" in a bold, lowercase, black, sans-serif font. The letter "a" is yellow. Below the word is the tagline "Meat Substitute? Meet Jackfruit." in a smaller, black, sans-serif font.

We have yet to see entrepreneurs and start-ups tackling the supply chain side of things which involves the B2B segment. How can we use frontier technologies such as blockchain to increase efficiencies within the supply chain? What about the mobility sector? Is there a solution directly addressing the transport woes of the wholesalers and retailers in the market? Solutions to these problems have the potential to bring about new unicorns and ultimately bring impact towards the existing food crisis – be it expensive food or lack of food.



Penjana Kapital presents

START-UP OF THE MONTH

By: Natasha Zaini



growthwell

Key to Unlocking Alternative Protein – Price Parity

“I want to eat healthy but so expensive lor..”

“Walauey so expensive this ingredient”

“Why so mahal wan?”

Time and time again we have heard the above response when we asked consumers about their take on healthy eating, specifically on consumption of alternative protein. The concept of “it does not taste nice” has long left the boat and people are more concern about food cost. A research house in alternative meat mentioned that more than half of its consumer surveyed (53%) said price is the limiting factor when it comes to purchasing plant-based alternatives.

However, it may not be long before we reach price parity on alternative protein (some say within 5-7 years). This fact is not surprising as we have seen many alternative protein companies popping up and large ones such as *Beyond Meat*, *Impossible Foods* and *Oatly* are driving some of this growth. Their partnerships with restaurants and fast-food chains as well as global manufacturers are making vegan options more accessible to the masses. Additionally, these collaborations are challenging the stereotypes around plant-based food.

A Firm Believer in Alternative Protein Since 1989

growthwell

Backed by:



CREDEV
CREATING FOR PEOPLE

TEMASEK



Retail, wholesale distribution & export presence:



Southeast Asia:

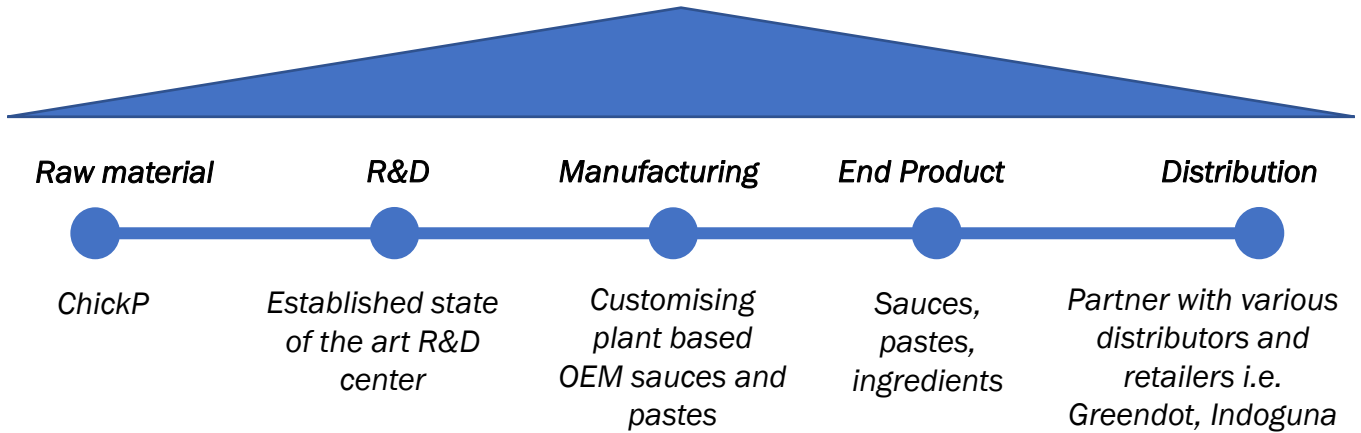
- Thailand
- Malaysia
- Singapore
- Indonesia

Australia

Growthwell Ecosystem

Since its establishment in 1989, Growthwell Group has been the trusted one-stop meat-free solutions provider for F&B business and organisations around the world. With their vision to feed 100 million lives with sustainable and nutritious plant-based choices, they have paved their journey within Southeast Asia region as the leading manufacturer of plant-based alternatives for meat and seafood since 1989 in the region.

The ability of Growthwell to tap into the plant protein market by leveraging its supply chain capabilities, manufacturing know-how and extensive distribution network to scale its growth is one of the few factors that leads to the success of the company. Of course, all of this is backed by a very hardworking management team who work tirelessly to educate the consumers on the benefit of plant-based protein.



The Growthwell Brand

CHICKP

Revolutionary chickpea protein isolate that is 90% protein, perfect manufacturing alternative to meat and dairy.



Delicious next generation Asian easy-to-cook and ready-to-eat dishes, all powerfully plant based.



100% egg-free plant-based sauces and ingredients made with soy, mushroom and konnyaku.



High quality since 1989, vegetarian range includes best-selling mutton alternative made with mushroom.

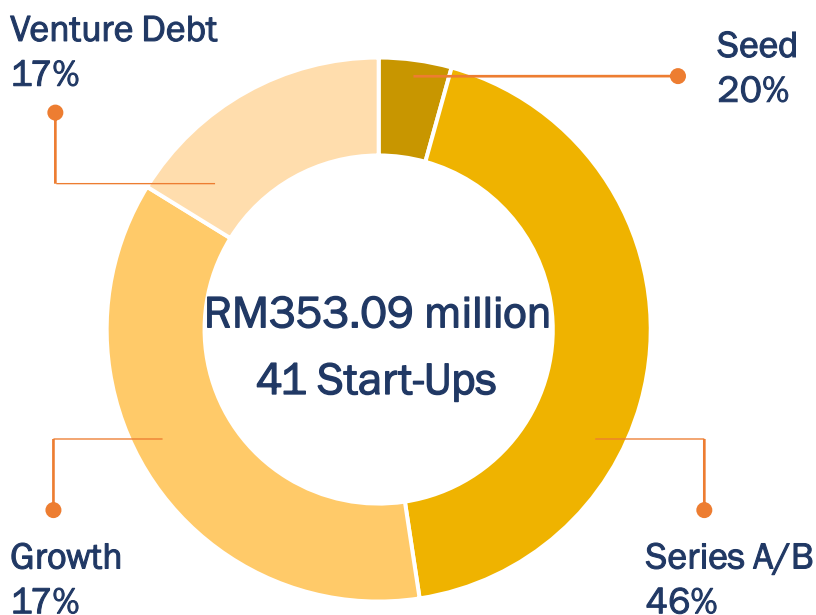


Newly launched in early 2022, it is a new plant-based brand to offer alternatives to conventional chicken and fish products.

Key Highlights

As of 26 April 2022

Investments Approved

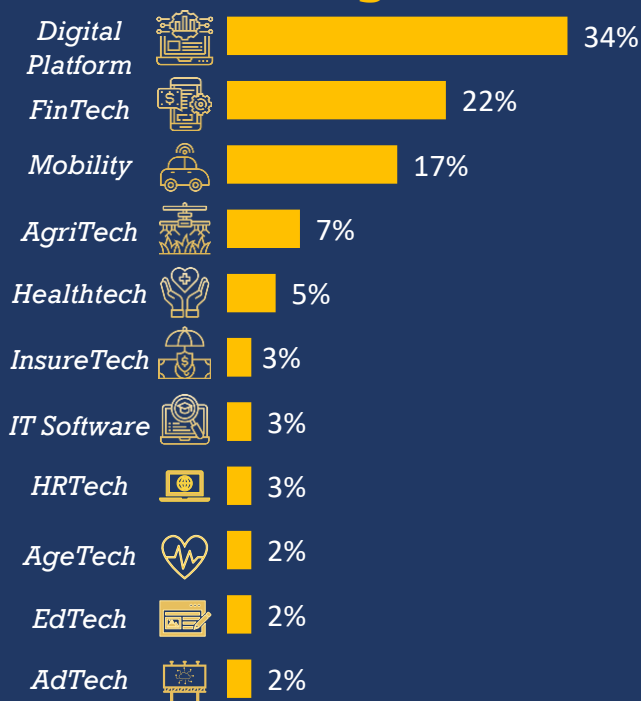


Fund Snapshot



Note: Investee stage are based on number of approved investment (41)

Investee Segments



Note: Investee segments are based on number of approved investment (41)

DPN's Start-Ups



Note: Listed start-ups are based on publicly announced data.

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Appendix 1.0: Malaysia Consumer Price Index = Subgroup, Expenditure Class

Jadual 20 - Indeks Harga Pengguna (2010=100), Nombor Indeks Kumpulan Utama, Subkumpulan Utama, Kelas Perbelanjaan dan Perubahan Peratus, Malaysia

Table 20 - Consumer Price Index (2010=100), Index Numbers for Main Group, Subgroup, Expenditure Class and Percentage Change, Malaysia

I. Nombor Indeks Kumpulan Utama, Subkumpulan dan Kelas Perbelanjaan :	MAC	FEB	MAC
<i>Index Numbers for Main Group, Subgroup and Expenditure Class :</i>	2021	2022	2022
II. Perubahan Peratus :	MAC	- FEB	MAC - MAC
<i>Percentage Change :</i>	2022	2022	2022 2021

Kumpulan Utama, Subkumpulan dan Kelas Perbelanjaan	Wajaran Weights	Nombor Indeks Index Numbers			Perubahan Peratus Percentage Change		Main Group, Subgroup and Expenditure Class
		MAC 2021	FEB 2022	MAC 2022	MAC 2022 / FEB 2022	MAC 2022 / MAC 2021	
* Jumlah	100.0	122.9	125.2	125.6	0.3	2.2	* Total
01 Makanan & Minuman Bukan Alkohol	29.5	136.1	141.2	141.6	0.3	4.0	01 Food & Non-Alcoholic Beverages
001 Makanan di luar rumah	11.5	143.9	148.9	149.7	0.5	4.0	001 Food away from home
0011 Makanan di luar rumah	11.5	143.9	148.9	149.7	0.5	4.0	0011 Food away from home
011 Beras, roti & bijirin lain	3.5	112.0	114.2	114.5	0.3	2.2	011 Rice bread & other cereals
0111 Beras	1.1	105.9	106.2	106.0	-0.2	0.1	0111 Rice
0112 Tepung & bijirin lain	0.4	103.5	104.8	105.4	0.6	1.8	0112 Flour & other cereals grains
0113 Biskut	0.5	122.5	124.2	124.8	0.5	1.9	0113 Biscuits
0114 Roti & kuih	1.2	121.2	125.6	125.8	0.2	3.8	0114 Bread & bakery products
0115 Keluaran lain yang dibuat daripada bijirin	0.3	107.1	109.6	110.6	0.9	3.3	0115 Other products made from cereal grains
012 Daging	2.5	127.2	136.4	136.9	0.4	7.6	012 Meat
0121 Daging segar	1.9	127.8	138.3	138.6	0.2	8.5	0121 Fresh meat
0122 Daging beku	0.2	124.1	130.6	131.5	0.7	6.0	0122 Frozen meat
0123 Daging yang diproses	0.4	127.2	132.5	133.2	0.5	4.7	0123 Processed meat
013 Ikan & makanan laut	4.0	156.4	162.7	162.8	0.1	4.1	013 Fish & seafood
0131 Ikan segar	2.3	150.1	157.0	157.3	0.2	4.8	0131 Fresh fish
0132 Makanan laut segar	1.2	184.1	190.5	190.1	-0.2	3.3	0132 Fresh seafood
0133 Ikan & makanan laut yang diproses	0.5	134.4	137.8	138.5	0.5	3.1	0133 Processed fish & seafood
014 Susu, keju & telur	1.5	124.4	132.5	133.1	0.5	7.0	014 Milk, cheese & eggs
0141 Susu segar & dibancuh semula	0.2	123.8	126.4	128.2	1.4	3.6	0141 Fresh & reconstituted milk
0142 Susu cair / pekat	0.2	114.7	124.1	125.0	0.7	9.0	0142 Evaporated / condensed milk
0143 Susu tepung & keluaran susu lain	0.7	132.9	136.0	136.4	0.3	2.6	0143 Milk powder & other dairy products
0144 Telur	0.4	114.1	133.2	133.6	0.3	17.1	0144 Eggs
015 Minyak & lemak	0.6	122.2	126.1	126.4	0.2	3.4	015 Oil & fats
0151 Mentega, minyak & lemak binatang yang disediakan	0.0	123.2	126.5	126.9	0.3	3.0	0151 Butter, fats & prepared animal oils
0152 Minyak	0.5	122.1	126.4	126.7	0.2	3.8	0152 Oils
0153 Marjerin, mentega kacang & lain-lain	0.1	126.4	128.1	128.9	0.6	2.0	0153 Margarine, peanut butter, etc.
016 Buah-buahan	1.2	135.8	138.1	137.8	-0.2	1.5	016 Fruits
0161 Buah-buahan segar	0.9	129.2	131.7	131.1	-0.5	1.5	0161 Fresh fruits
0162 Buah-buahan yang diproses	0.1	144.9	146.8	147.1	0.2	1.5	0162 Preserved fruits
0163 Kelapa & kacang	0.2	162.3	164.4	165.0	0.4	1.7	0163 Coconut & nuts
017 Sayur-sayuran	2.1	141.4	149.3	148.6	-0.5	5.1	017 Vegetables
0171 Sayur-sayuran segar	1.8	143.6	152.1	151.1	-0.7	5.2	0171 Fresh vegetables
0172 Sayur-sayuran yang dikering / jeruk	0.1	123.7	124.7	125.7	0.8	1.6	0172 Preserved vegetables
0173 Ubi kentang & ubi lain	0.2	131.8	139.7	140.0	0.2	6.2	0173 Potatoes & other tubers
018 Gula, jem, madu, coklat & manisan	0.6	134.3	137.0	137.0	0.0	2.0	018 Sugar, jam, honey, chocolate & confectionery
0181 Gula	0.2	154.3	154.9	154.9	0.0	0.4	0181 Sugar
0182 Coklat, gula-gula & aiskrim	0.3	113.3	117.0	116.7	-0.3	3.0	0182 Chocolate, sweets & ice cream
0183 Jem, madu & lain-lain	0.1	124.0	126.1	126.6	0.4	2.1	0183 Jam, honey, etc.
019 Keluaran makanan t.t.t.l.	1.0	137.9	141.3	142.0	0.5	3.0	019 Food products n.e.c
0191 Rempah-rempah	0.5	148.4	152.2	153.2	0.7	3.2	0191 Spices
0192 Makanan lain	0.5	128.5	131.4	131.9	0.4	2.6	0192 Other foods
010 Kopi, teh, koko & minuman bukan alkohol	1.1	113.2	113.9	114.3	0.4	1.0	010 Coffee, tea, cocoa & non-alcoholic beverages
0101 Kopi	0.2	114.0	115.4	115.7	0.3	1.5	0101 Coffee
0102 Teh, koko & lain-lain	0.4	115.2	116.2	116.4	0.2	1.0	0102 Tea, cocoa, etc.

Source: DOSM, 2021

Appendix 1.0: Malaysia Consumer Price Index = Subgroup, Expenditure Class (Con't)

Kumpulan Utama, Subkumpulan dan Kelas Perbelanjaan	Wajaran Weights	Nombor Indeks Index Numbers			Perubahan Peratus Percentage Change		Main Group, Subgroup and Expenditure Class
		MAC 2021	FEB 2022	MAC 2022	MAC 2022 / FEB 2022	MAC 2022 / MAC 2021	
0103 Air mineral, minuman ringan, jus buah & jus sayuran	0.5	111.0	111.3	111.8	0.4	0.7	0103 Mineral water, soft drinks, fruit & vegetable juices
02 Minuman Alkohol & Tembakau	2.4	169.0	169.5	169.8	0.2	0.5	02 Alcoholic Beverages & Tobacco
021 Minuman keras / alkohol	0.6	111.6	112.8	113.5	0.6	1.7	021 Alcoholic beverages
0211 Arak & minuman keras	0.1	111.9	113.0	113.2	0.2	1.2	0211 Spirits & liquors
0212 Wain	0.1	117.7	119.0	119.0	0.0	1.1	0212 Wines
0213 Bir	0.4	110.3	111.5	112.5	0.9	2.0	0213 Beer
022 Tembakau	1.8	183.7	183.7	183.7	0.0	0.0	022 Tobacco
0221 Rokok, cerut, & lain-lain	1.8	183.7	183.7	183.7	0.0	0.0	0221 Cigarettes, cigars, etc.
03 Pakaian & Kasut	3.2	93.3	93.1	93.0	-0.1	-0.3	03 Clothing & Footwear
031 Pakaian	2.6	95.9	95.8	95.8	0.0	-0.1	031 Clothing
0311 Material pakaian	0.1	98.2	98.4	98.4	0.0	0.2	0311 Clothing materials
0312 Pakaian	2.2	94.3	94.0	93.9	-0.1	-0.4	0312 Garments
0313 Lain-lain jenis pakaian & aksesori pakaian	0.2	95.9	95.8	95.8	0.0	-0.1	0313 Other articles of clothing & clothing accessories
0314 Mencuci, membaiki & menyewa pakaian	0.1	134.0	137.4	137.6	0.1	2.7	0314 Cleaning, repair & hire clothes
032 Kasut	0.6	81.8	81.5	81.3	-0.2	-0.6	032 Footwear
0321 Kasut & kasut lain	0.6	81.8	81.5	81.3	-0.2	-0.6	0321 Shoes & other footwear
04 Perumahan, Air, Elektrik, Gas & Bahan Api Lain	23.8	121.6	122.6	122.7	0.1	0.9	04 Housing, Water, Electricity, Gas & Other Fuels
041 Sewa sebenar untuk rumah	18.1	127.4	128.4	128.4	0.0	0.8	041 Actual rental for housing
0411 Sewa sebenar yang dibayar oleh penyewa	18.1	127.4	128.4	128.4	0.0	0.8	0411 Actual rental paid by tenants
043 Penyelenggaraan & pembaikan rumah kediaman	1.3	127.5	132.0	132.7	0.5	4.1	043 Maintenance & repair of dwelling
0431 Bahan-bahan untuk pembaikan rumah kediaman	0.4	125.3	138.5	140.5	1.4	12.1	0431 Materials for maintenance & repair of the dwelling
0432 Bayaran perkhidmatan untuk pembaikan rumah	0.9	131.8	132.5	132.6	0.1	0.6	0432 Services for the maintenance & repair of the dwelling
044 Bekalan air & pelbagai perkhidmatan berkaitan dengan rumah kediaman	1.2	104.9	104.9	104.9	0.0	0.0	044 Water supply & miscellaneous services relating to the dwelling
0441 Bekalan air	0.9	101.2	101.2	101.2	0.0	0.0	0441 Water supply
0443 Pembentungan	0.1	98.2	98.2	98.2	0.0	0.0	0443 Sewage collection
0444 Lain-lain perkhidmatan yang berkaitan dengan rumah	0.2	130.5	130.5	130.5	0.0	0.0	0444 Other services relating to the dwelling
045 Elektrik, gas & bahan api	3.2	98.0	98.0	98.0	0.0	0.0	045 Electricity, gas & other fuels
0451 Elektrik	2.7	96.4	96.4	96.4	0.0	0.0	0451 Electricity
0452 Gas	0.5	107.3	107.3	107.3	0.0	0.0	0452 Gas
05 Hiasan, Perkakasan & Penyelenggaraan Isi Rumah	4.1	118.0	121.0	121.5	0.4	3.0	05 Furnishings, Household Equipment & Routine Household Maintenance
051 Perabot, hiasan, permaidani & penutup lantai	1.2	119.0	127.6	128.4	0.6	7.9	051 Furniture & furnishing, carpets & other floor covering
0511 Perabot & hiasan rumah	1.0	122.3	132.5	133.5	0.8	9.2	0511 Furniture & furnishings
0512 Permaidani & penutup lantai lain	0.2	99.7	100.2	100.3	0.1	0.6	0512 Carpets & other floor coverings
052 Kain untuk hiasan rumah	0.2	91.9	92.1	92.4	0.3	0.5	052 Household textiles
0520 Kain hiasan rumah	0.2	91.9	92.1	92.4	0.3	0.5	0520 Household textiles
053 Perkakas isi rumah	0.7	106.8	108.5	108.8	0.3	1.9	053 Household appliances
0531 Alat-alat memasak	0.1	102.9	104.7	105.4	0.7	2.4	0531 Cooking appliances
0532 Penghawa dingin	0.1	102.1	105.3	105.6	0.3	3.4	0532 Air-conditioning
0533 Mesin pencuci	0.1	104.3	104.8	104.8	0.0	0.5	0533 Washing machines

Source: DOSM, 2021

Other Items from the report are not included here.

 For full list of Malaysia CPI Subgroups and Expenditure Class, visit [DOSM's eStatistik](https://www.dosm.gov.my)

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