



KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA

DOSM DATATHON 2026

DISCOVER DOSM: OpenDOSM



8 Ogos 2026 (Selasa)



4.00 PM



Jabatan Perangkaan Malaysia

Kandungan Pembentangan

01 **Kronologi**

02 **Ke Arah Rakyat
Berpacukan Data**

03 **Faedah**

04 **Ciri-ciri**

05 **Katalog Data**

06 **Papan Pemuka
(*Dashboard*)**

07 **Platform Sumber
Terbuka**

08 **Sambutan Publik**

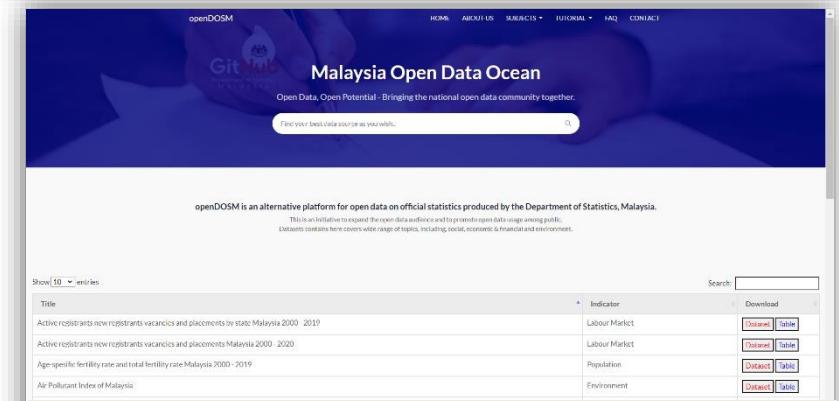
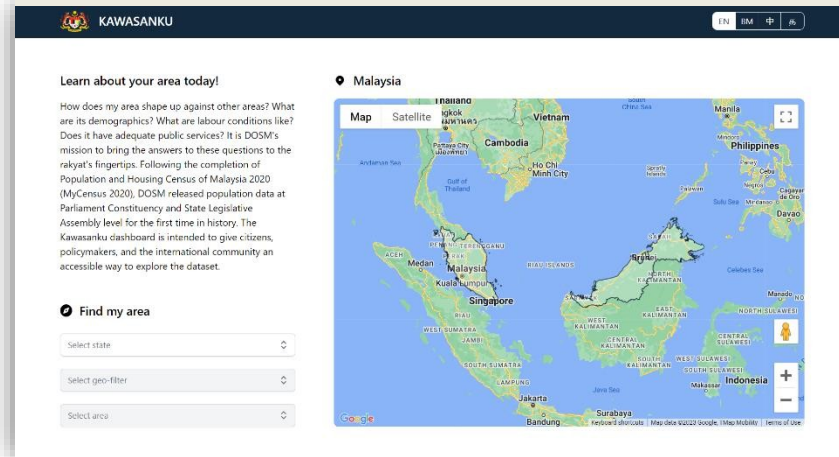
Inisiatif Data Terbuka DOSM bermula sejak 2012 melalui *Malaysia Informative Data Centre* (MysIDC).

Platform data terbuka terkini **OpenDOSM** menawarkan modenisasi bagi pengaksesan kepada data terbuka.



MysIDC: Dibangunkan dan boleh diakses sejak **2012**

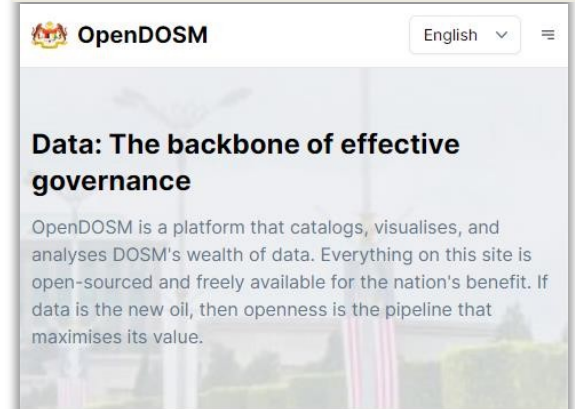
KAWASANKU: Platform data terbuka generasi baharu yang memaparkan statistik populasi dilancarkan pada **2022**



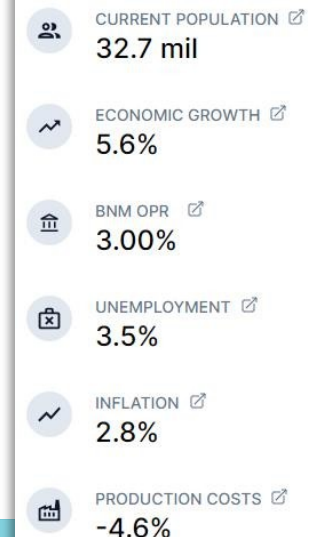
Open data melalui GitHub yang tersedia pada **2021** merupakan versi pertama **OpenDOSM** yang di inisiatifkan pada **2022**

2

OpenDOSM NextGen: Dibuka kepada publik pada Januari **2023**



Malaysia at a Glance



4

3

Ke Arah Rakyat Berpacukan Data

Di sebalik penciptaan platform ini, terdapat satu pengharapan agar ianya dapat menjadi **penghubung bagi merapatkan jurang pengetahuan** antara Kerajaan dan publik dalam memastikan setiap individu mempunyai akses kepada maklumat yang sama. Selain itu, platform ini dibangunkan untuk memenuhi **revolusi perkongsian data** dan **memperkasa publik dengan data** bagi membentuk budaya **“berpacukan data”** di kalangan rakyat Malaysia.

Delighting
in **DATA**

A treasure trove of data is now at everyone's fingertips, allowing anyone to gain deeper insight into the country.

Platform ini menyediakan akses mudah kepada semua jenis pengguna, dengan fungsi dan ciri moden. Pengguna tidak perlu lagi menyusun, membersihkan dan menyelaraskan set data daripada pelbagai sumber dan platform.

 **OpenDOSM**

English ▼



Data: The backbone of effective governance

OpenDOSM is a platform that catalogs, visualises, and analyses Malaysia's wealth of data. Everything on this site is open-sourced and freely available for the nation's benefit. If data is the new oil, then openness is the pipeline that maximises its value.

1) Saintis Data / Penyelidik

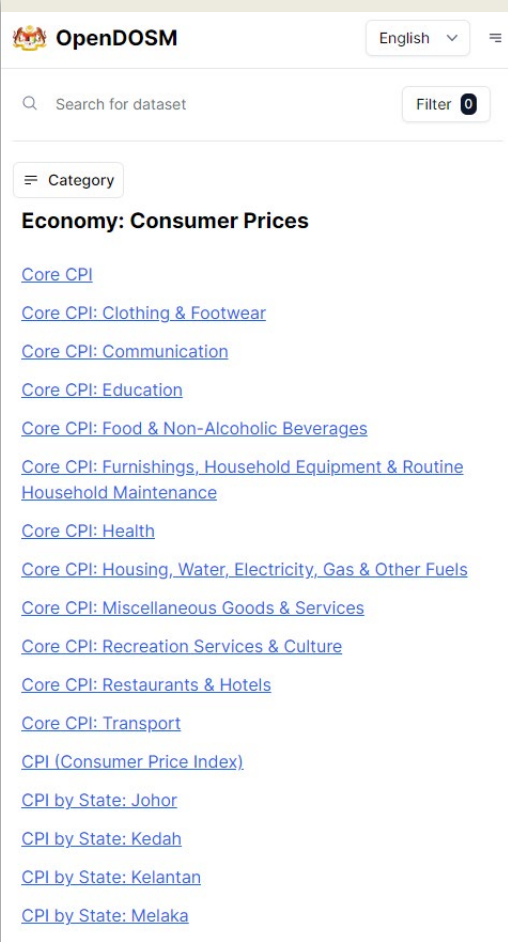
2) Jurnal Data

3) Pelajar

4) Publik

OpenDOSM membolehkan pengguna memanfaatkan semua sumber yang ada secara kolektif dalam menjana pengetahuan baharu.

Set data dikatalog mengikut subjek



OpenDOSM English Filter 0

Search for dataset

Category

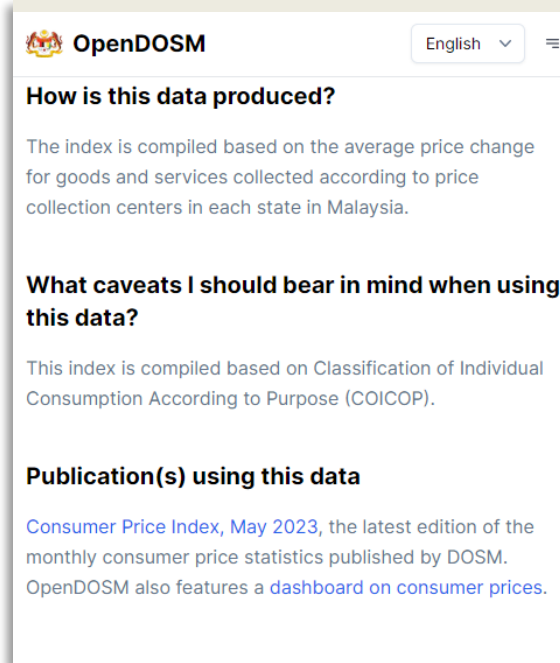
Economy: Consumer Prices

- [Core CPI](#)
- [Core CPI: Clothing & Footwear](#)
- [Core CPI: Communication](#)
- [Core CPI: Education](#)
- [Core CPI: Food & Non-Alcoholic Beverages](#)
- [Core CPI: Furnishings, Household Equipment & Routine Household Maintenance](#)
- [Core CPI: Health](#)
- [Core CPI: Housing, Water, Electricity, Gas & Other Fuels](#)
- [Core CPI: Miscellaneous Goods & Services](#)
- [Core CPI: Recreation Services & Culture](#)
- [Core CPI: Restaurants & Hotels](#)
- [Core CPI: Transport](#)
- [CPI \(Consumer Price Index\)](#)
- [CPI by State: Johor](#)
- [CPI by State: Kedah](#)
- [CPI by State: Kelantan](#)
- [CPI by State: Melaka](#)

Set data terpilih dipaparkan dalam carta



Keterangan dan limitasi data disediakan



OpenDOSM English

How is this data produced?

The index is compiled based on the average price change for goods and services collected according to price collection centers in each state in Malaysia.

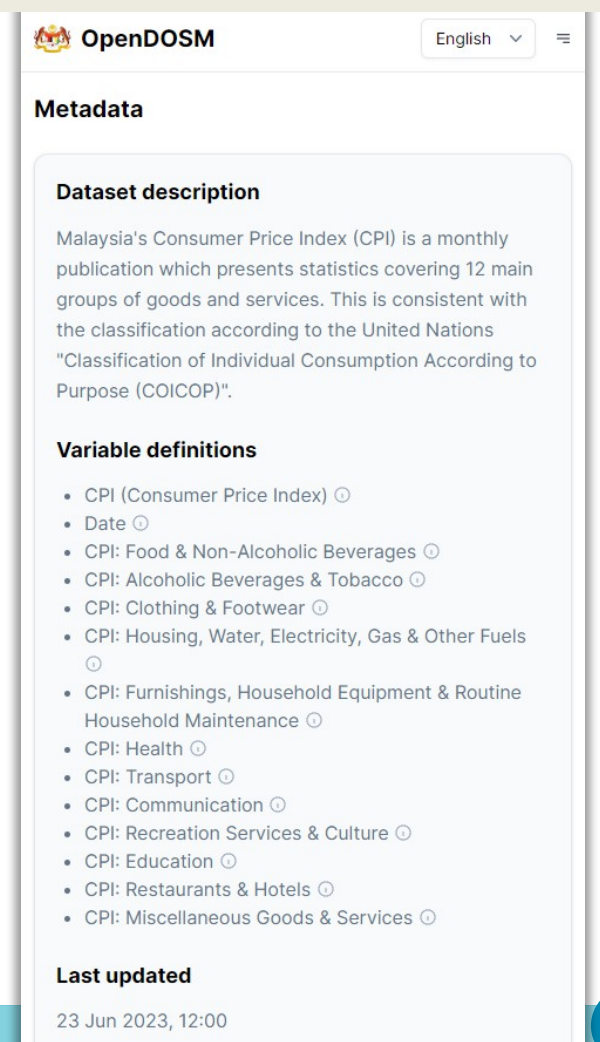
What caveats I should bear in mind when using this data?

This index is compiled based on Classification of Individual Consumption According to Purpose (COICOP).

Publication(s) using this data

[Consumer Price Index, May 2023](#), the latest edition of the monthly consumer price statistics published by DOSM. OpenDOSM also features a [dashboard on consumer prices](#).

Metadata yang komprehensif juga disediakan



OpenDOSM English

Metadata

Dataset description

Malaysia's Consumer Price Index (CPI) is a monthly publication which presents statistics covering 12 main groups of goods and services. This is consistent with the classification according to the United Nations "Classification of Individual Consumption According to Purpose (COICOP)".

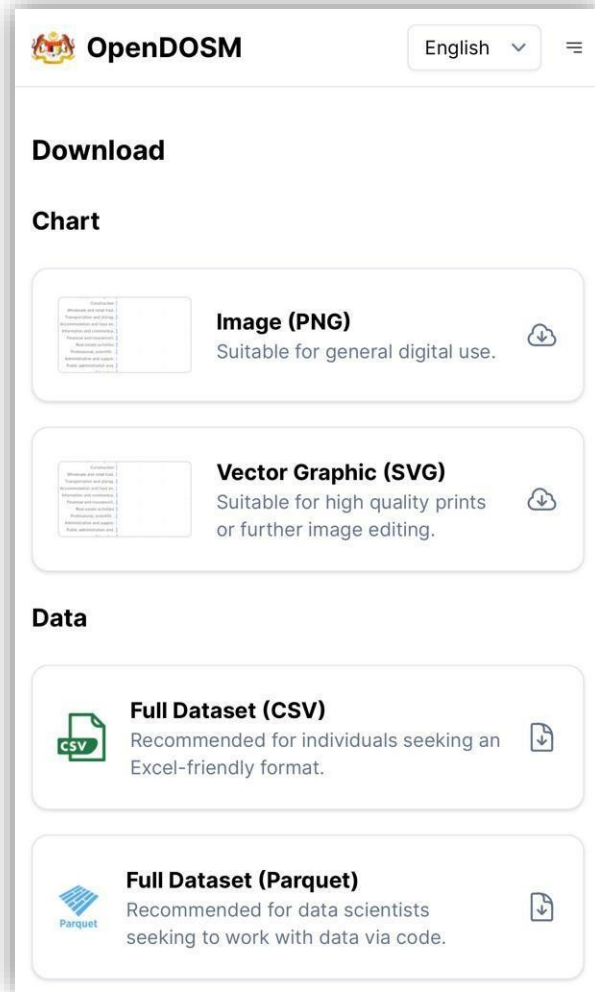
Variable definitions

- CPI (Consumer Price Index) ⓘ
- Date ⓘ
- CPI: Food & Non-Alcoholic Beverages ⓘ
- CPI: Alcoholic Beverages & Tobacco ⓘ
- CPI: Clothing & Footwear ⓘ
- CPI: Housing, Water, Electricity, Gas & Other Fuels ⓘ
- CPI: Furnishings, Household Equipment & Routine Household Maintenance ⓘ
- CPI: Health ⓘ
- CPI: Transport ⓘ
- CPI: Communication ⓘ
- CPI: Recreation Services & Culture ⓘ
- CPI: Education ⓘ
- CPI: Restaurants & Hotels ⓘ
- CPI: Miscellaneous Goods & Services ⓘ

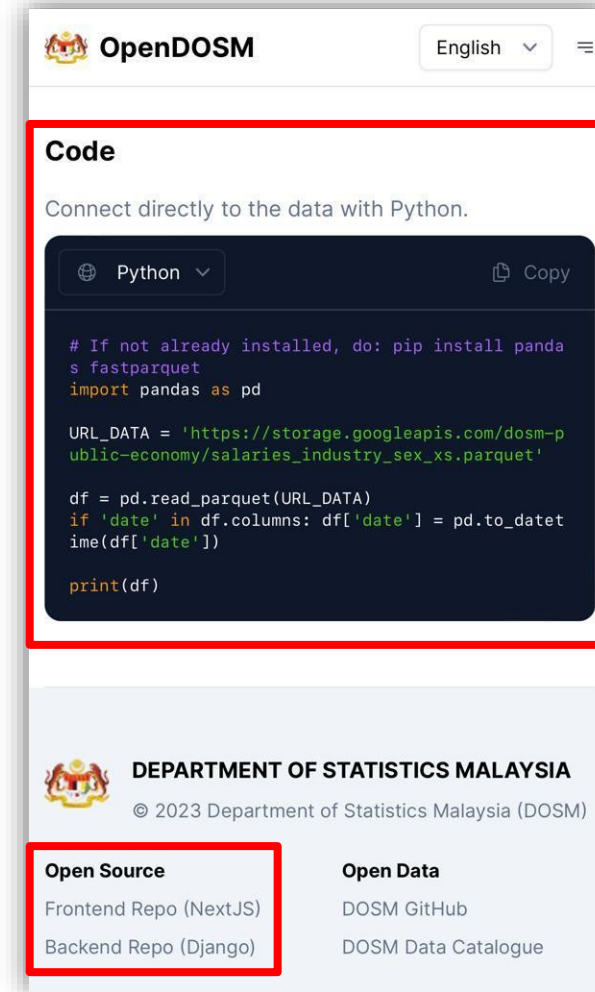
Last updated

23 Jun 2023, 12:00

Ciri-ciri (sambungan)



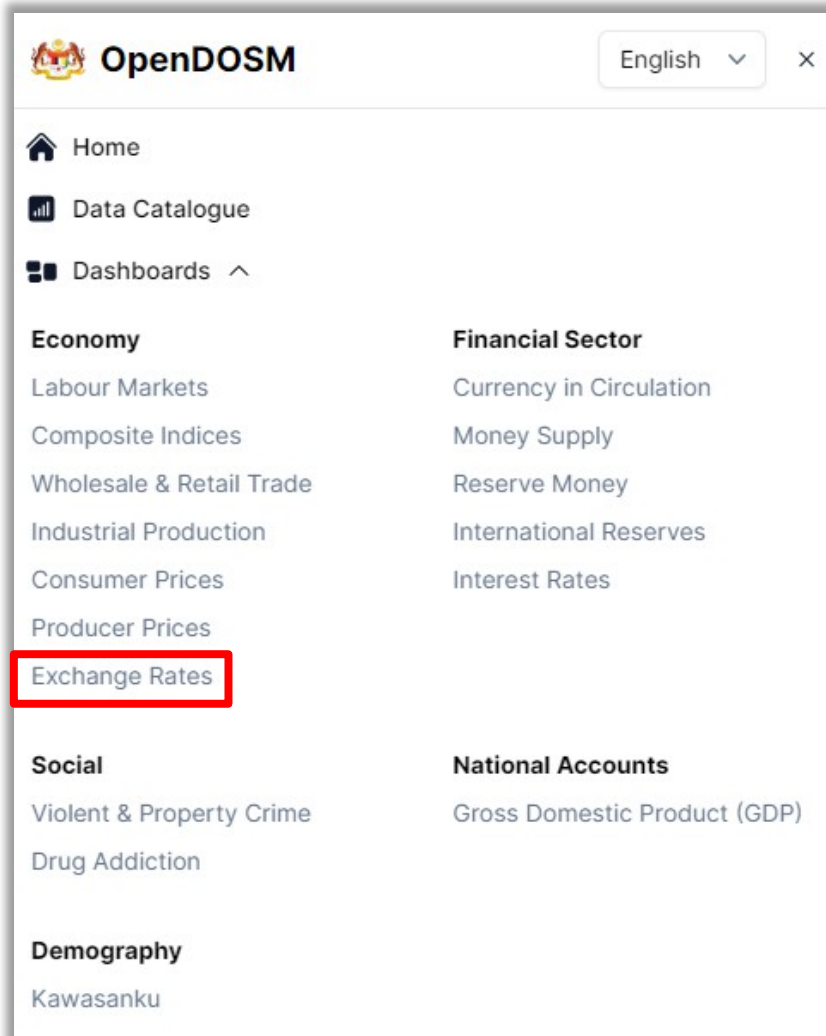
- Empat (4) format**
set data/carta yang boleh
dimuat turun:
- Carta dalam PNG
 - Carta dalam SVG (imej boleh diedit)
 - Set data dalam CSV
 - Set data dalam parquet (untuk set data yang besar)



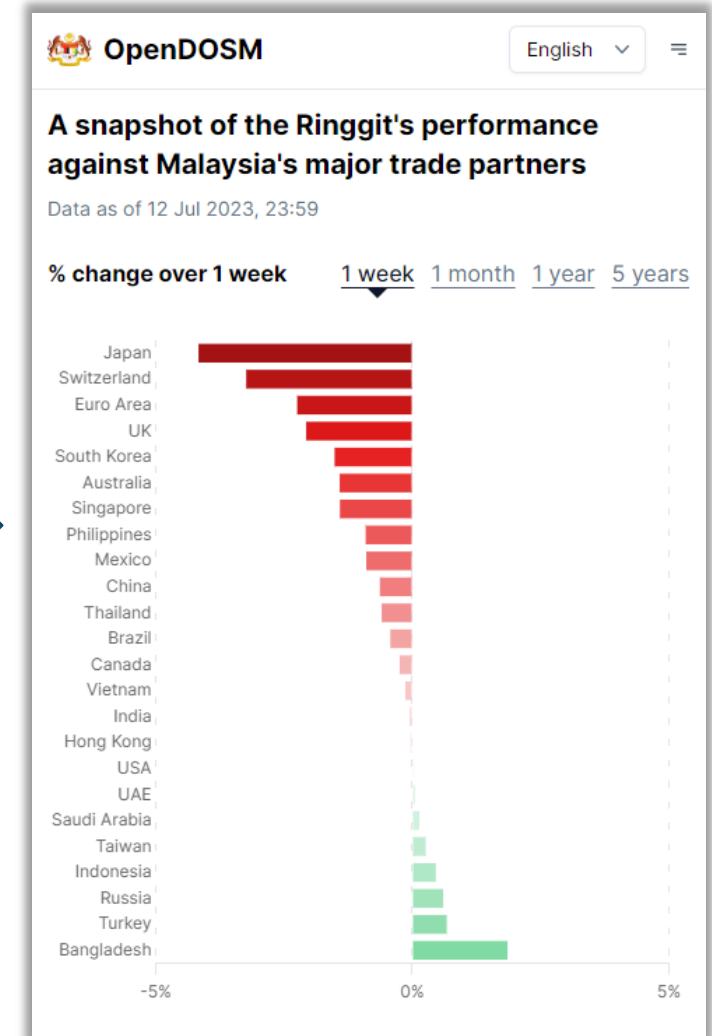
Skrip Python untuk
penyambungan
data

Kod *Frontend & backend* untuk
pembangun web
dikongsi melalui
GitHub

Ciri-ciri (sambungan)



**Papan Pemuka
(Dashboard):**
Set data diringkaskan dan
dipaparkan dalam visualisasi
yang mudah difahami



 **OpenDOSM** [Home](#) [Data Catalogue](#) [Dashboards](#) English

Data Catalogue

Your one-stop interface to browse a wealth of open data. This page does not just catalogue the data published by DOSM. It aims to grow in depth and breadth every single day, providing richer and more varied data from all Malaysian data providers, both public and private.

↗ 257 data series, and counting

Category

Economy

- Commodity Prices
- Consumer Prices
- Economic Indicators
- Exchange Rates
- Industrial Production
- Labour Force
- Merchandise Exports & Imports (METS)
- National Accounts
- PriceCatcher
- Producer Prices
- Salaries & Wages
- Wholesale and Retail Trade

Healthcare

- COVID-19

Period ▼

Geographic ▼

Begin: Select ▼

End: Select ▼

Data Source ▼

Economy: Commodity Prices

[Diesel Price](#)

[RON95 Petrol P](#)

Economy: Consumer Prices

[Core CPI](#)

[Core CPI: Clothing & Footwear](#)

[Core CPI: Communication](#)

[Core CPI: Education](#)

[Core CPI: Food & Non-Alcoholic Beverages](#)

[Core CPI: Furnishings, Household Equipment &](#)

[CPI by State: Johor](#)

[CPI by State: Kedah](#)

[CPI by State: Kelantan](#)

[CPI by State: Melaka](#)

[CPI by State: Negeri Sembilan](#)

[CPI by State: Pahang](#)

[Price](#)

[CPI by State: W.P. Putrajaya](#)

[CPI: Alcoholic Beverages & Tobacco](#)

[CPI: Clothing & Footwear](#)

[CPI: Communication](#)

[CPI: Education](#)

[CPI: Food & Non-Alcoholic Beverages](#)

☐ Daily

☐ Weekly

☐ Monthly

☐ Quarterly

☐ Yearly

☐ State

☐ District

☐ Parliament

☐ DUN

☐ National

1982

1983

1984

1985

1986

1987

☐ Customs (RMCD)

☐ DOSM

☐ KKM

☐ KPDNKS

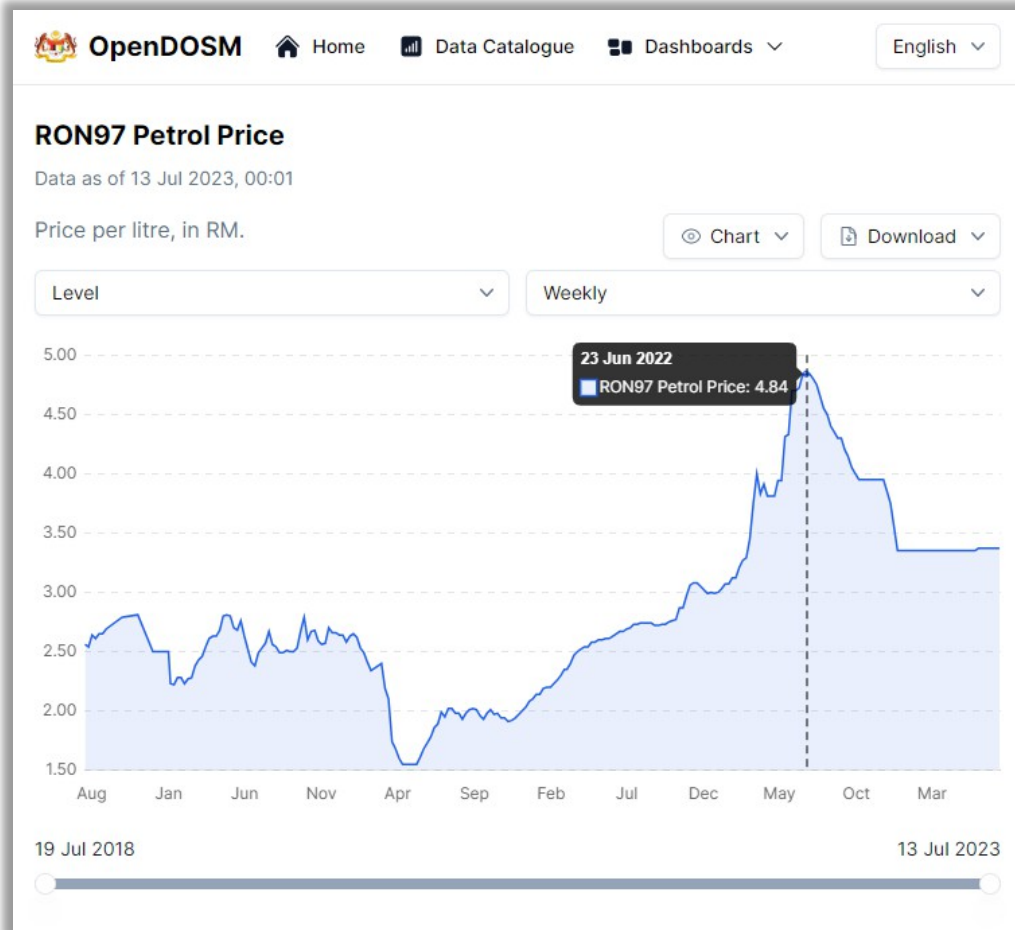
☐ MOF

Filter: Memperhalus pemilihan data

Katalog Data (sambungan)

Maklumat utama:

Membantu dalam mendapatkan pemahaman asas berkaitan data



OpenDOSM Home Data Catalogue Dashboards English

How is this data produced?

This dataset presents the weekly retail price of RON95 petrol, RON97 petrol, and diesel in Malaysia. Since April 2017, the retail price of fuel in Malaysia has been set on a weekly basis (except for a short period at the end of 2018 where it was announced monthly) using the Automatic Pricing Mechanism (APM). Prior to that, it changed at a monthly (or longer) frequency. The APM is designed to allow the government to monitor the effects of changes in global crude oil prices and adjust retail fuel prices to ensure the continued welfare of the rakyat.

What caveats I should bear in mind when using this data?

Beginning 3 March 2021, the announcement of fuel prices was changed from Fridays to Wednesdays. Furthermore, because petrol and diesel prices are controlled by the government, they were not affected in the same way as non-price controlled items by the zero-rating of GST on 1 June 2018, and the subsequent implementation of SST 1 September 2018.

Publication(s) using this data

[MoF's weekly press statement](#) on the retail price of petroleum products.

Katalog Data (sambungan)

Metadata: Membantu dalam memahami struktur, ciri-ciri dan konteks data

Dataset description

The data displayed above is part of the principal labour force statistics released monthly by DOSM.

Variable definitions

In the chart above:

Name in Dataset	Variable	Data type	Definition
Cattle: Export Beef Cattle RM	exports_rm	Integer	The number of exports beef cattle in RM (Million).

In the entire dataset:

Name in Dataset	Variable	Data type	Definition
Cattle: Population	population	Integer	The number of cattle in Malaysia.

**Sekali penetapan import data
(One-time setup):**

Anda boleh mendapatkan data terkini yang tersedia di platform hanya dengan satu penetapan *import data* menggunakan skrip Python yang disediakan

URLs to dataset

- https://storage.googleapis.com/economy-public/hiesba_2019_parlimen.csv
- https://storage.googleapis.com/economy-public/hiesba_2019_parlimen.parquet

Download

Chart



Image (PNG)

Suitable for general digital use.



Vector Graphic (SVG)

Suitable for high quality prints or further editing of dataset.



Data



Full Dataset (CSV)

Recommended for individuals seeking an Excel-friendly format.



Full Dataset (Parquet)

Recommended for data scientists seeking to work with data via code.



Code

Connect directly to the data using various programming languages

Python

Copy

```
# Note: Don't forget to activate your venv
# If not already installed, do: pip install pandas tabulate

import pandas as pd
import json
from tabulate import tabulate
import pydosm

URL_DATA = 'https://storage.googleapis.com/economy-public/hiesba_2019_parlimen.parquet'
URL_METADATA = 'https://storage.googleapis.com/economy-public/hiesba_2019_parlimen_metadata.json'

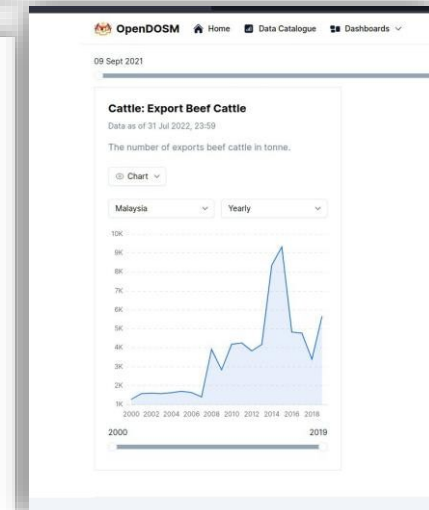
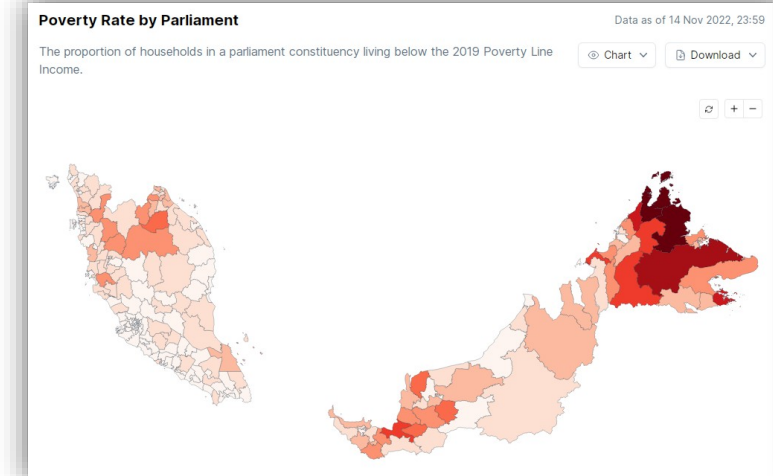
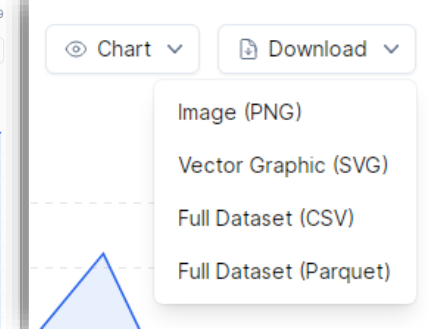
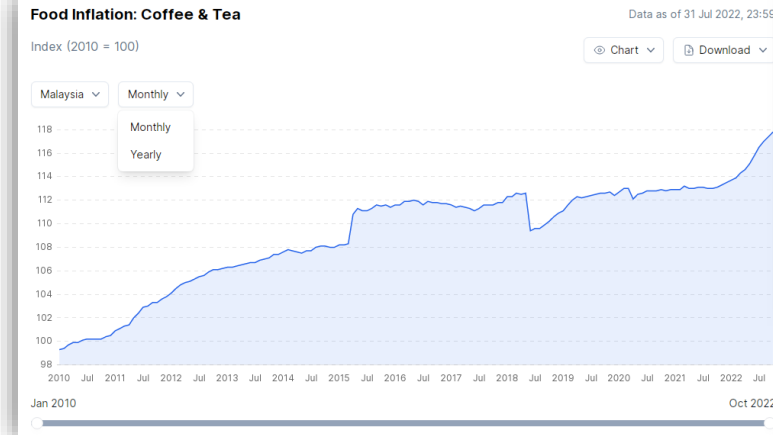
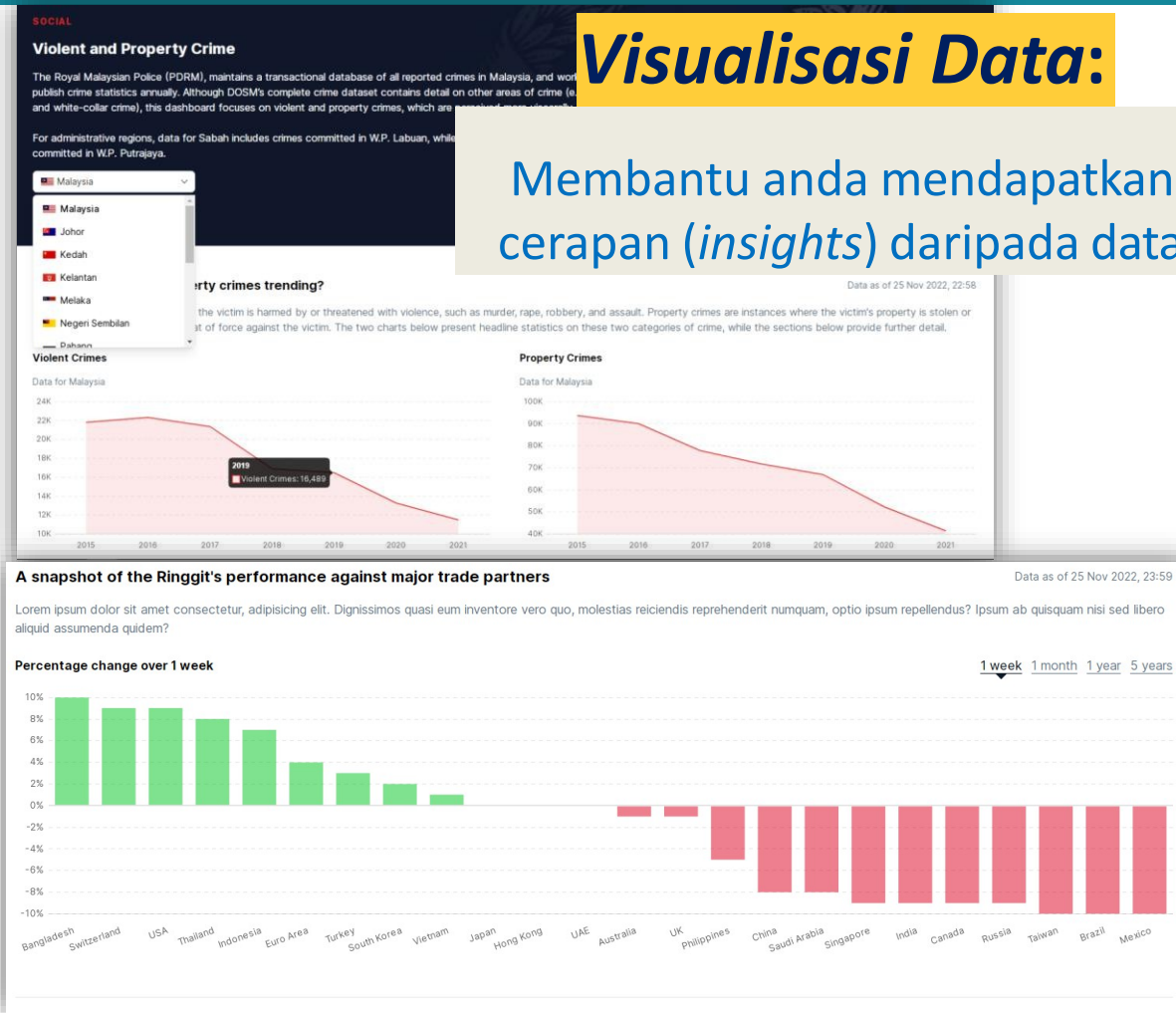
df_meta = json.loads(URL_METADATA)
df = pd.read_parquet(URL_DATA)

print(df_meta)
```

Papan Pemuka (*Dashboard*)

Visualisasi Data:

Membantu anda mendapatkan cerapan (*insights*) daripada data



Terokai corak dan *outliers* yang menarik:

Teroka yang tersembunyi dalam baris dan lajur data

Papan Pemuka (*Dashboard*) KAWASANKU

 OpenDOSM

Malay ▼

Paparan *snapshot* KAWASANKU (Web view)

Pilihan 4 Bahasa:
- Bahasa Inggeris
- Bahasa Melayu

KAWASANKU

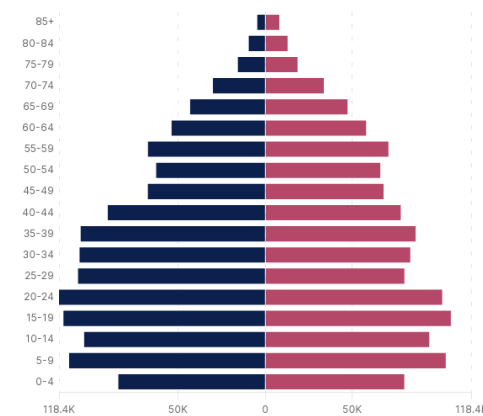
Kenali kawasan anda!

Adakah kawasanku lebih baik berbanding kawasan lain? Apakah ciri-ciri demografinya? Bagaimanakah keadaan tenaga buruhnya? Adakah kemudahan awam mencukupi?

DOSM mempunyai misi untuk memastikan jawapan kepada persoalan sebegini di hujung jari rakyat. Menerusi kejayaan Banci Penduduk dan Perumahan Malaysia 2020 (MyCensus 2020), DOSM buat pertama kali dalam sejarah menerbitkan data populasi penduduk di peringkat Parlimen dan Dewan Undangan Negeri (DUN). Dashboard Kawasanku bertujuan untuk membolehkan rakyat, penggubal dasar dan komuniti antarabangsa menerokai set data tersebut.

Apakah ciri-ciri populasi di Perak?

Taburan umur & jantina



Jantina

Lelaki	52.1%
Perempuan	47.9%

Status Perkahwinan

Berkahwin	55.6%
Tidak berkahwin	36.3%
Balu/Duda	6.4%
Berceraf/Berpisah	1.8%

Kumpulan umur

Umur bekerja	67.9%
Umur muda	23.2%
Umur tua	8.9%

Agama

Muslim	57.9%
Buddha	24.2%
Hindu	9.7%
Tiada agama	4%
Kristian	3%
Lain-lain	1.3%

Kaum

Bumiputera	60.9%
Cina	27.2%
India	11.5%
Lain-lain	0.5%

Kewarganegaraan

Warganegara	94.7%
Bukan warganegara	5.3%

Pilihan *skop* kawasan pengguna

 Cari kawasanku

 Kosongkan pilihan

Kedah

DUN

N.32 Kuala Ketil

Perbandingan kawasan pilihan

Sorotan: Pilih maksimum 3

● N.32 Kuala Ketil, KDH ● N.15 Anak Bukit, KDH × ● N.20 Sungai Limau, KDH ×

Geografi

Keluasan

Ketinggian maksimum

Indeks Kekasaran Rupa Bumi

% permukaan diliputi air

% permukaan diliputi hutan

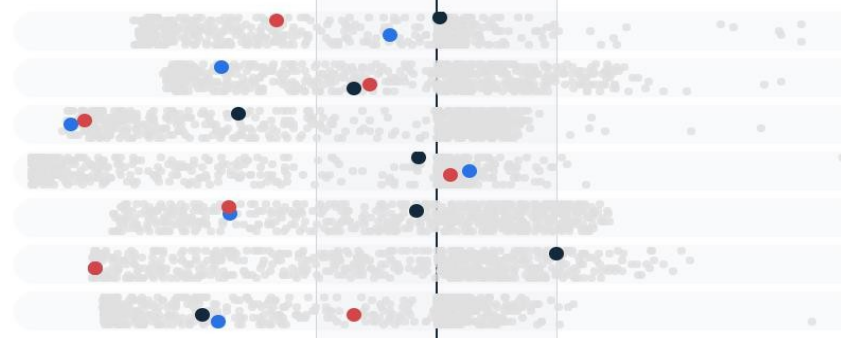
Penyahhutan antara 2000 hingga 2021

Keamatan lampu pada waktu malam

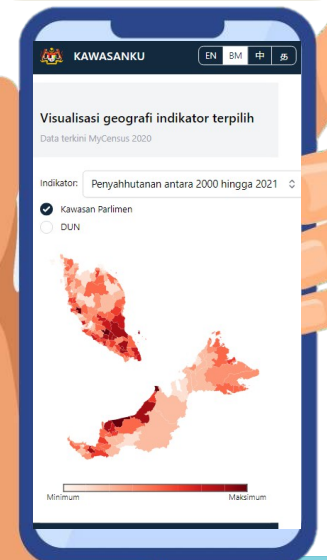
◀ Kurang daripada penengah

Median antara DUN

▶ Melebihi penengah



Paparan
Mobile view







**Department of Statistics
Malaysia**
dosm-malaysia

Follow

93 followers · 0 following

Putrajaya, Malaysia
<https://open.dosm.gov.my/>
@StatsMalaysia

Overview Repositories **6** Projects Packages Stars

Find a repository... Type Language Sort

aksara-data Public

4 stars MIT License Updated 2 hours ago

aksara-front Public

data open-data next-js tailwindcss next-js-website

TypeScript 32 stars 7 forks MIT License Updated 16 hours ago

aksara-back Public

python data django backend open-data

Python 22 stars 2 forks MIT License Updated 20 hours ago

aksara-data-staging Public

MIT License Updated 3 days ago

OpenDOSM dan Open-source:

Menggalakkan pembangunan pelbagai aplikasi

Sambutan Publik

Adam Firouz @AdamFirouz · 2d
Amazing stuff by @StatsMalaysia.
OpenDOSM is a huge step forward to helping us all better understand key trends in various matters in Malaysia (plus on how data is collected & its caveats).

Looking forward for more with optimism!

IDEAS Malaysia @IDEAS... · 14h
Replying to @IDEASMalaysia
#OpenDOSM also allows a higher level of participation from the public in public policy research and more fact-based discourse. People will have greater demand for transparency in the future, so this launch is also good as a sample for the other ministries and agencies.

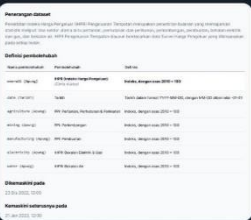
IDEAS Malaysia @IDEAS... · 14h
IDEAS supports **#OpenDOSM**, which helps public oversight of government policies as it enables greater transparency and accessibility. It can also push forward more meaningful, data-driven discussions to help shape better policies.

Malay Mail @malaymail · 4d
Stats Dept launches open data portal OpenDOSM, aims to spur good policies dlvr.it/Sglt4r

Sang Rupawan @Thaza_Kun · 4d
Replying to @Thaza_Kun
Pertama sekali, laman openDOSM ini menghala ke dua jenis pengguna:
1) Pengguna biasa
2) Pengguna data

Hal ini jelas apabila data yang ada disediakan dalam dua bentuk: paparan dan set data.

Sang Rupawan @Thaza_Kun · 4d
Yang aku paling tabik ialah bahagian metadata ini. Ada orang yang jenis lepas bagi CSV terus blah kononnya nama lajur boleh terangkan maksud data itu. Dengan adanya metadata ini, nama-nama lajur itu tidaklah mudah disalah tafsir.



Category	Source	Frequency	Last Updated
Demographic	2018 Census	Annual	2018-12-31
Economic	2018 GDP	Quarterly	2018-12-31
Education	2018 Education	Annual	2018-12-31
Health	2018 Health	Annual	2018-12-31
Environment	2018 Environment	Annual	2018-12-31
Transport	2018 Transport	Annual	2018-12-31
Urbanization	2018 Urbanization	Annual	2018-12-31
Other	2018 Other	Annual	2018-12-31

Tech TRP @tech_trp · 3d
“Without data, you’re just another person with an opinion.” - Edwards Deming, Statistician.



techtrp.com
Gov't Launches Open Source Data Portal, OpenDOSM To Help People...

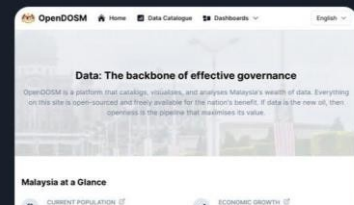
Sang Rupawan @Thaza_Kun · 4d
Jujurnya, aku sedikit kagum melihat kerajaan Malaysia sudah mula terbuka dengan gagasan sumber terbuka. Bukan sahaja katalog data ini yang dibuka kepada orang ramai, tetapi laman web itu pun dibuka untuk sumbangan orang ramai.

Ini kod bahagian hadapannya:

dosm-malaysia/aksara-front

ER **Ekonomi Rakyat** @EkonomiR... · 2d
Platform data terbuka **OpenDOSM** oleh Jabatan Perangkaan Malaysia (DOSM) rata-rata mendapat reaksi positif ketika ini

Penyelidik Khazanah Research Institute (KRI), Adam Firouz menyifatkan portal itu sbg langkah tepat bg membantu masyarakat umum memahami corak data di Malaysia



PremierFaiz @faizrushan_ · 2d
Satu benda aku puji pasal website **OpenDOSM NextGen** ni ialah pantas dibangunkan dan dilancarkan. Kalau gomen2 sbilm ni mau masuk tender juta2 dulu nak buat 'sistem pendigitalan data' katanya.

Oliver @oiwoods · 4d
'**OpenDOSM** is a platform that catalogs, visualises, and analyses Malaysia's wealth of data. Everything on this site is open-sourced and freely available for the nation's benefit. If data is the new oil, then openness is the pipeline that maximises its value.'

mujahid.dev @mujahid... · 4d
y launched!

Fairoza Amira @DrFairoza · 4d
Impressed with the new DOSM dashboards open.dosm.gov.my! Kudos to the team 🎉

But would be very nice if they can have gender-based data as I am really looking into this dataset while doing lots of research under Women in AI. Some figures need more clarity too!

everything, ode, is made

_earth @_earth · 3d
Replying to @_earth
Anyway, OpenDOSM is much easier to use versus eStatistik

Data organized better
Retrieval is easier

Just need to familiarize with the site
789 1 11

MechaLann :: ラン @akusegan · 3d
Replying to @_earth
Dosm said this platform will go through iterations of improvements. It's normal for any digital platform.

Sanbron Liong @sanbronliang · 1d
1/ A Govt website that looks pretty and (hopefully) useful to the public? open.dosm.gov.my #opendata

In this thread I'll reveal the 4 key #design elements that went into creating #OpenDOSM NextGen by @StatsMalaysia

OpenDOSM

Adam Firouz @AdamFirouz · 2d
Replying to @AdamFirouz
Maybe in the future, DOSM could iust have **OpenDOSM**, eStatistik & StatsDW (or even just the first t the potential for **OpenDOSM** is great and we're only seeing the beginning. Hopefully it'll also be the first platforms to get data fr new publications without delay.

Nabil Erysyad @NabilErysyad · 1d
Havent the chance to explore **openDosm** yet but loving what i'm seeing so far. But i do hope @StatsMalaysia would start pushing for Public Transport ridership, fleet and GTFS data to be made public.

Open  SM

*Imbas kod QR
atau layari*

<https://open.dosm.gov.my/>

TERIMA KASIH

