

Statistical Capacity Building (StatCaB) Programme  
Statistical, Economic and Social Research and Training Centre for  
Islamic Countries (SESRIC)

Statistics Course on Methodologies and Best International  
Practices for Conducting  
Household Expenditure Survey

~ *HIES Methodology* ~

8-10 APRIL 2019 | BANDAR SERI BEGAWAN, BRUNEI DARUSSALAM



Jabatan Perangkaan  
MALAYSIA



ISI 2019  
Kuala Lumpur  
18 - 23 AUGUST 2019



@StatsMalaysia



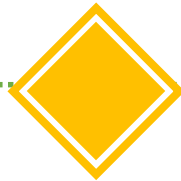
[www.dosm.gov.my](http://www.dosm.gov.my)

# KRONOLOGI PENYEDIAAN SAIZ SAMPEL



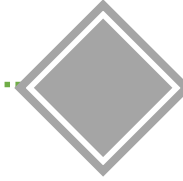
**17 Mei 2018**

Permohonan rekabentuk pensampelan bagi HIS dan HES 2019 daripada BPHPP



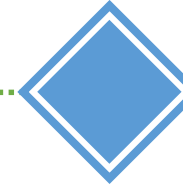
**3 Julai 2018**

Anggaran saiz sampel bagi HIS dan HES 2019 telah dihantar kepada HIES Unit . Berdasarkan dua rekabentuk pensampelan iaitu *precision* dikawal di peringkat daerah pentadbiran serta daerah pentadbiran & strata



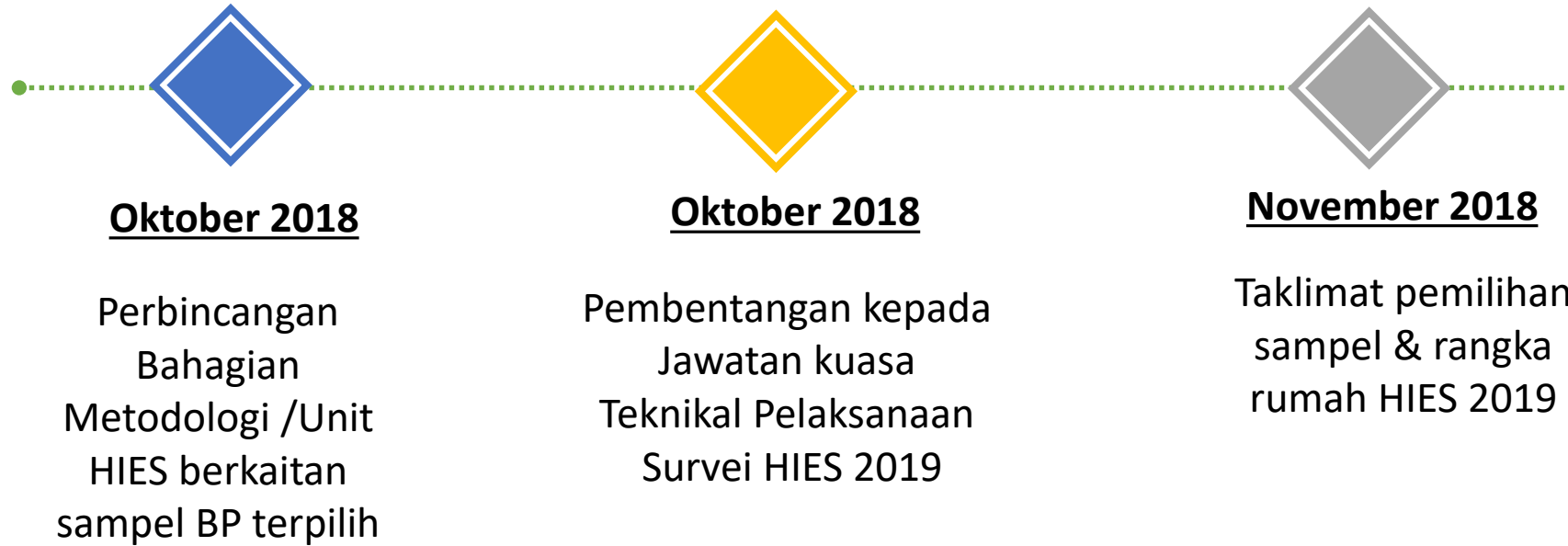
**Julai 2018**

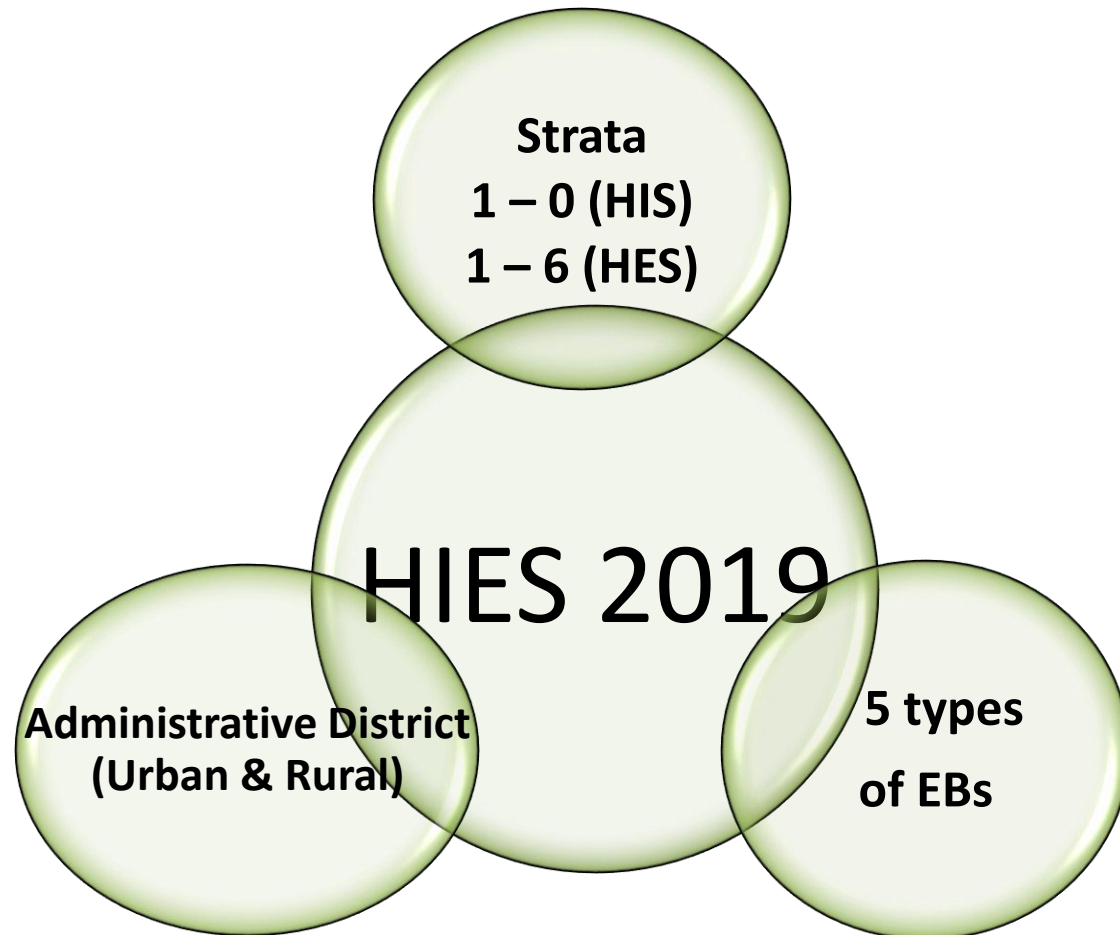
Perbincangan BMP/BPHPP bagi penetapan saiz sampel. Rekabentuk pensampelan yang dipilih adalah pensampelan rawak berstrata sehingga ke peringkat Negeri > DP > bandar/ luar bandar. Saiz sampel ditentukan dengan mengambil kira RSE 2016 dan saiz sampel 2016



**Julai - Ogos 2018**

Pembentangan anggaran saiz sampel kepada pihak pengurusan bagi kelulusan



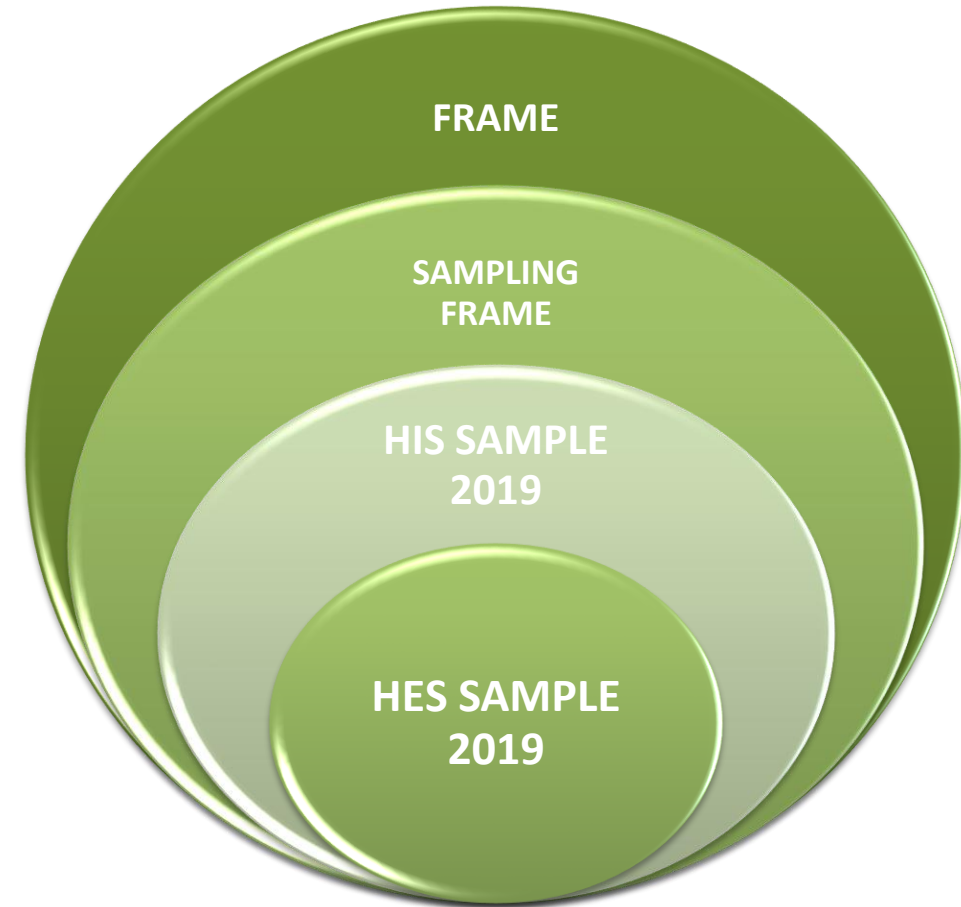


**Peninsular Malaysia: Strata 1-4**  
**Sabah & Sarawak : Strata 1-0 (HIS)**  
**: Strata 1-6 (HES)**

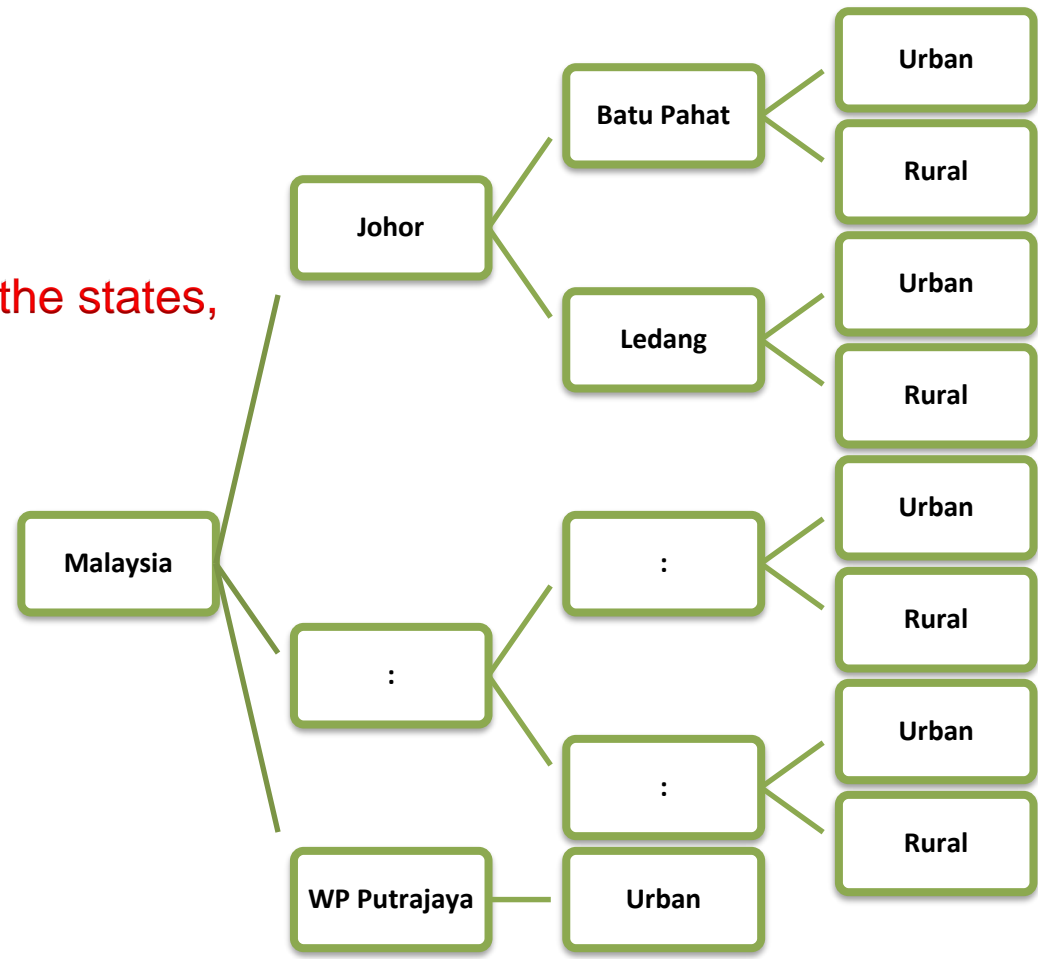
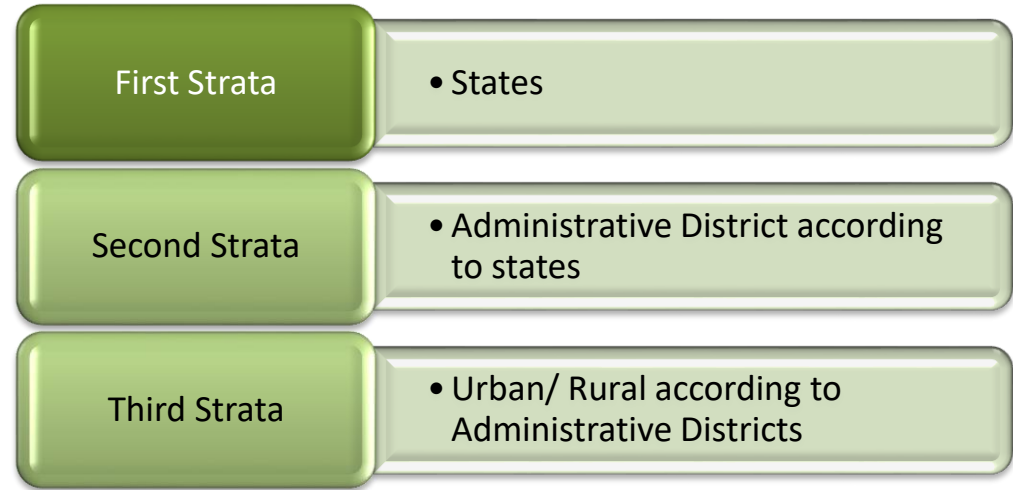
- ✓ **Normal EBs**
- ✓ **Mixed EBs**
- ✓ **Squatter EBs**
- ✓ **Condominium EBs**
- ✓ **Island EBs**

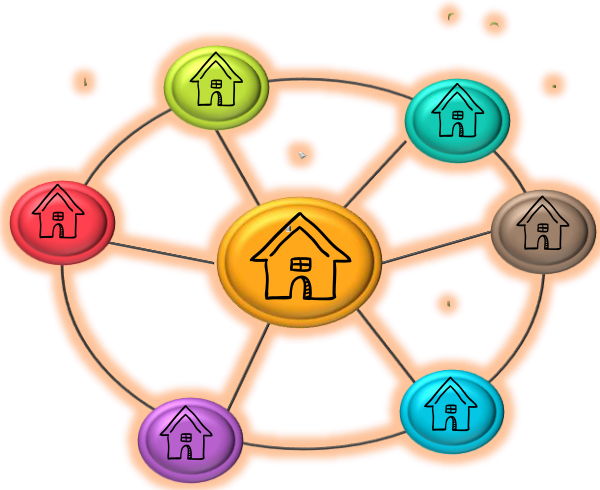
- ✓ The EBs and strata number were from Census 2010
- ✓ Frame = 84,165 EBs (as at 9<sup>th</sup> July 2018);  
Sampling Frame = 78,014 EBs  
\*each EBs estimate = 80-120 LQ / 600 individuals
- ✓ Area was classified into 4 strata:

i.	Metropolitan	}	Urban
ii.	Urban large		
iii.	Urban small	}	Rural
iv.	Rural		



- ✓ Adopting two stage stratified sampling design.
- ✓ The first sampling stage was EBs.
- ✓ The second sampling stage was LQs.
- ✓ EBs were independently selected according to the states, ADs and urban/ rurals.





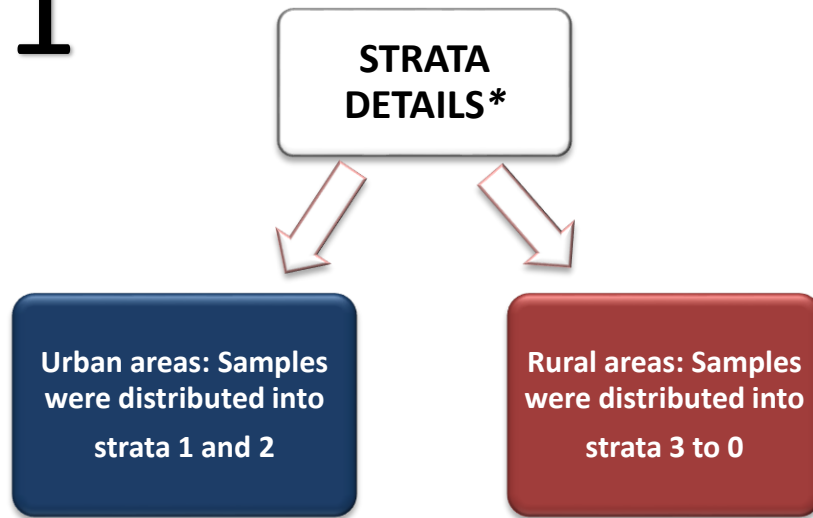
## Estimated selected BP's sample size:

- HIS : 11,519
- HIES : 7,430

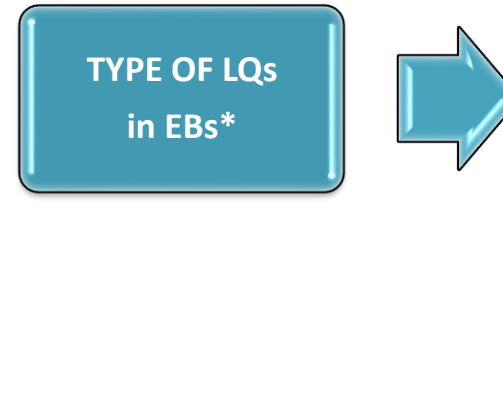
- ✓ The calculation of sample size was based on;
  - Population: Total HH 2018 (7.86 million)
  - VOI: Mean Income (HIS 2016)  
Mean Expenditure (HES 2016)
  - Design Effect Value (actual HIS/HES 2016)
  - Respond rate (actual HIS/HES 2016)
  - Precision: 5.0%-10.0% *RSE* dan  $z=95\%$  at the State level, Administrative District and urban & rural strata
- ✓ Kriteria jenis TK turut diambil kira dalam pemilihan sampel

# SELECTION OF EBs

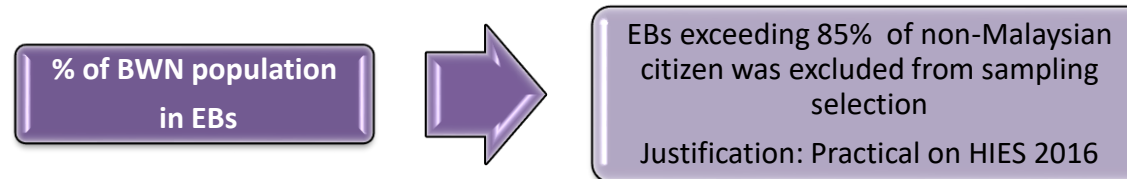
1



2



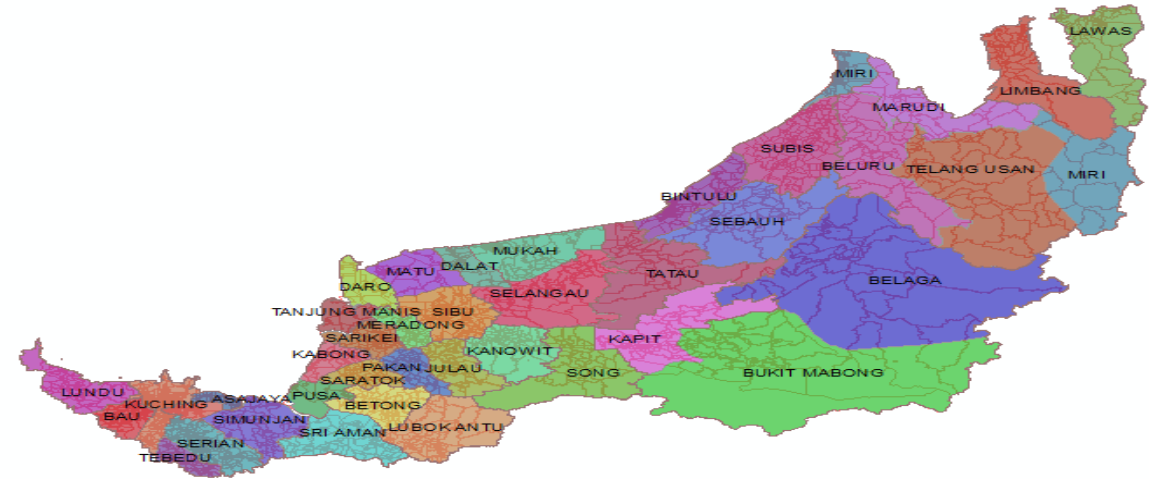
3



\*Sample size by district and strata was distributed according to strata details and type of LQs in EBs

# JUMLAH DAERAH PENTADBIRAN (DP)

Negeri	Jumlah Daerah		
	2010	Tambahan	2019
Johor	10		10
Kedah	12		12
Kelantan	10	1	11
Melaka	3		3
N.Sembilan	7		7
Pahang	11		11
Perak	10	2	12
Perlis	1		1
Pulau Pinang	5		5
Sabah	25	2	26
Sarawak	31	9	40
Selangor	9		9
Terengganu	7	1	8
WP K.Lumpur	1		1
WP Labuan	1		1
WP Putrajaya	1		1
<b>JUMLAH</b>	<b>144</b>	<b>15</b>	<b>159</b>



- Perak ( Bagan Datuk dan Muallim),
- Terengganu (Kuala Nerus)
- Kelantan (Jajahan Kecil Loging)
- Sarawak (Pusa, Kabong, Tg.Manis, Sebauh, Bkt. Mabong, Beluru, Subis, Telang Usan & Tebedu),
- Sabah (Telupid, **Kalabakan**)

# TABURAN BP TERPILIH HIS 2019 BAGI NEGERI SABAH

1 inch = 31.69 miles



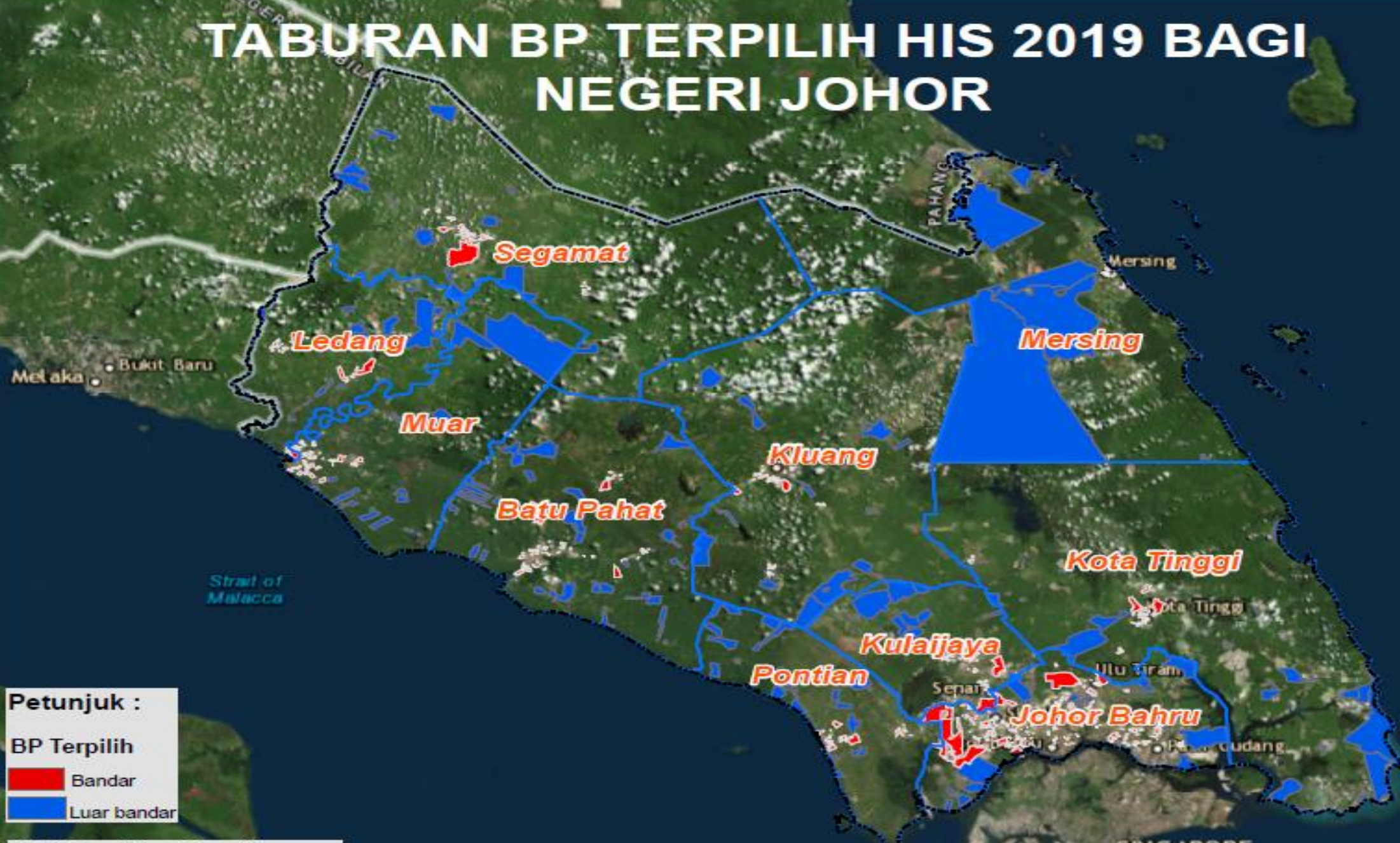
**Petunjuk :**  
BP Terpilih  
Bandar  
Luar bandar

0 10 20 40 60 80  
Kilometers

Map data by OpenStreetMap contributors, and the GIS user community. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

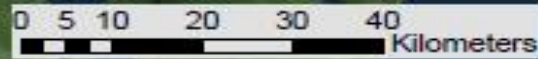
# TABURAN BP TERPILIH HIS 2019 BAGI NEGERI JOHOR

1 inch = 15.5 miles



**Petunjuk :**

- Bandar
- Luar bandar



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# TABURAN BP TERPILIH HIS 2019 BAGI NEGERI PAHANG

1 inch = 22.57 miles



**Petunjuk :**  
BP Terpilih  
 Bandar  
 Luar bandar

0 5 10 20 30 40  
Kilometers

*Cameron Highland*

*Lipis*

*Jerantut*

*Raub*

*Kuantan*

*Temerloh*

*Maran*

*Bentong*

*Pekan*

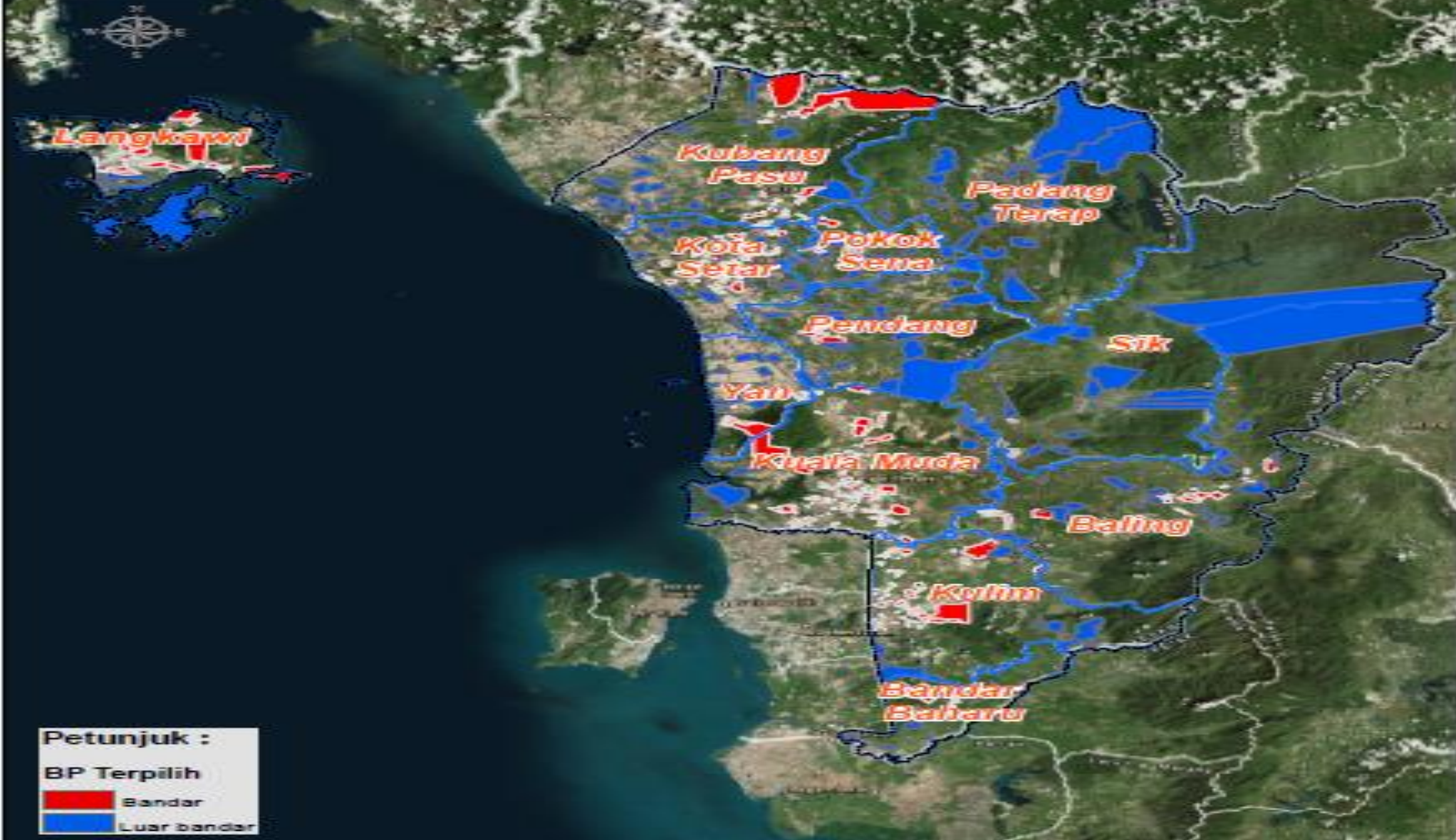
*Bera*

*Rompin*

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# TABURAN BP TERPILIH HIS 2019 BAGI NEGERI KEDAH

1 Inch = 13.02 miles



# EBS SUBSTRATA





# Welcoming 62<sup>nd</sup> ISI WORLD STATISTICS CONGRESS 2019



18 - 23 AUGUST 2019 ■ KUALA LUMPUR



# TERIMA KASIH

KE ARAH

# BANCI PENDUDUK DAN PERUMAHAN MALAYSIA 2020



Data Anda Masa Depan Kita

