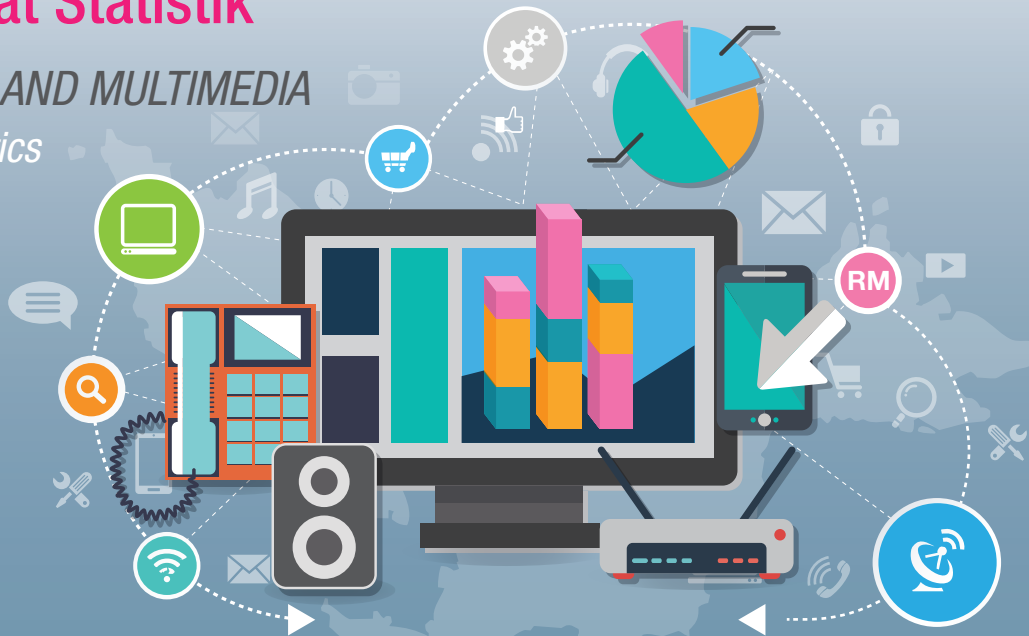


# KOMUNIKASI DAN MULTIMEDIA

## Buku Maklumat Statistik

*COMMUNICATIONS AND MULTIMEDIA*  
*Pocket Book of Statistics*

SEPARUH PERTAMA/  
FIRST HALF  
2016



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**Suruhanjaya Komunikasi dan Multimedia Malaysia**  
*Malaysian Communications and Multimedia Commission*

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MCMC Tower 1,  
Jalan IMPACT, Cyber 6  
63000 Cyberjaya, Selangor Darul Ehsan  
Tel: +603 8688 8000 Fax: +603 8688 1000  
Aduan MCMC: 1-800-188-030  
<http://www.mcmc.gov.my>

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# 10

## MATLAMAT DASAR KEBANGSAAN BAGI INDUSTRI KOMUNIKASI DAN MULTIMEDIA NATIONAL POLICY OBJECTIVES FOR THE COMMUNICATIONS AND MULTIMEDIA INDUSTRY

- 1** Menjadikan Malaysia sebagai pusat dan tumpuan utama dunia bagi perkhidmatan komunikasi dan perkhidmatan maklumat dan kandungan multimedia  
*To establish Malaysia as a major global centre and hub for communications and multimedia information and content services*
- 2** Menggalakkan pewujudan masyarakat madani yang dalamnya perkhidmatan berdasarkan maklumat akan menyediakan asas bagi peningkatan yang berterusan kepada mutu kerja dan hidup  
*To promote a civil society where information based services will provide the basis of continuing enhancements to quality of work and life*
- 3** Mencambahkan dan memupuk sumber maklumat dan perlambangan budaya tempatan yang membantu mengetengahkan identiti kebangsaan dan kepelbagaian dunia  
*To grow and nurture local information resources and cultural representation that facilitates the national identity and global diversity*
- 4** Mengawal selia bagi faedah jangka panjang pengguna akhir  
*To regulate for the long-term benefit of the end user*
- 5** Menggalakkan tahap keyakinan pengguna yang tinggi dalam penyampaian perkhidmatan daripada industri  
*To promote a high level of consumer confidence in service delivery from the industry*
- 6** Memastikan penyediaan perkhidmatan sama rata yang mampu dibayar melalui infrastruktur kebangsaan yang sentiasa ada  
*To ensure an equitable provision of affordable services over ubiquitous national infrastructure*
- 7** Mewujudkan suasana aplikasi yang giat bagi pengguna akhir  
*To create a robust application environment for end users*
- 8** Memudahkan pengagihan secara berkesan sumber seperti tenaga buruh mahir, modal, pengetahuan dan aset kebangsaan  
*To facilitate the efficient allocation of resources such as skilled labour, capital, knowledge and national assets*
- 9** Menggalakkan pembinaan keupayaan dan kecekapan dalam industri percantuman Malaysia  
*To promote the development of capabilities and skills within Malaysia's convergence industries*
- 10** Menjamin keselamatan maklumat dan kebolehpercayaan serta keutuhan rangkaian  
*To ensure information security and network reliability and integrity*

## Nota

Sekiranya sesuatu jadual tidak diikuti oleh nota tentang sumber data, maka seluruh data yang terkandung di dalamnya berpunca semata-mata daripada Suruhanjaya Komunikasi dan Multimedia Malaysia (MCMC).

Angka-angka awalan dicondongkan.

Angka-angka yang dipinda digariskan.

Angka yang terkandung dalam sesuatu jadual merujuk kepada penghujung tempoh. Sebagai contoh, kadar penembusan tahunan bagi sesuatu perkhidmatan dikira dengan menggunakan jumlah langganan dan anggaran jumlah penduduk pada hujung tahun. Ini adalah berbeza daripada amalan demografi Malaysia di mana jumlah penduduk pertengahan tahun dianggap sebagai jumlah penduduk tahunan. Sekiranya kedua-dua amalan ini hendaklah diselaraskan kepada norma demografi, maka kadar penembusan seperti pada penghujung Jun hendaklah digunakan.

Jumlah campuran mungkin berbeza kerana pembundaran.

## Notes

*Where a table is not accompanied by a source acknowledgement, that table carries data that emanated solely from the Malaysian Communications and Multimedia Commission (MCMC).*

*Preliminary figures are italicised.*

*Revised figures are underscored.*

*Figures presented in tables are as at the end of the period. Hence a penetration rate for a given year is calculated using the number of subscriptions and estimated population as at the end of the year. This is different from the Malaysian demographic practice of using the mid-year population as the population for that year. If the practices need to be synchronised to the demographic norm, then the penetration rates as at end June of that year must be used.*

*The added total may differ due to rounding.*

## Simbol dan Singkatan

...	Tidak diperolehi
Suku	Suku tahun
MCMC	Suruhanjaya Komunikasi dan Multimedia Malaysia
KKMM	Kementerian Komunikasi dan Multimedia Malaysia
DOSM	Jabatan Perangkaan Malaysia
ITU	International Communication Union

## *Symbols and Abbreviations*

...	<i>Not available</i>
<i>Qtr</i>	<i>Quarter</i>
<i>MCMC</i>	<i>Malaysian Communications and Multimedia Commission</i>
<i>KKMM</i>	<i>Ministry of Communications and Multimedia Malaysia</i>
<i>DOSM</i>	<i>Department of Statistics, Malaysia</i>
<i>ITU</i>	<i>International Telecommunication Union</i>



# KANDUNGAN

## CONTENTS

### **10 Matlamat Dasar Kebangsaan Bagi Industri Komunikasi dan Multimedia**

*10 National Policy Objectives for the Communications and Multimedia Industry*

I

### **Nota**

*Notes*

III

### **Simbol dan singkatan**

*Symbols and abbreviations*

IV

### **Snapshot 1H16**

*Snapshot 1H16*

X

## **PETUNJUK-PETUNJUK ASAS**

*BASIC INDICATORS*

### **1. Petunjuk-petunjuk asas Malaysia**

*Malaysia basic indicators*

2

### **2. Kadar penembusan sepintas lalu**

*Penetration rates at a glance*

4

### **3. Bilangan lesen**

*Number of licences*

6

## JALUR LEBAR DAN INTERNET

### BROADBAND AND INTERNET

#### 4. Kadar penembusan jalur lebar per 100 isi rumah mengikut negeri

*Broadband penetration rate per 100 households by state*

8

#### 5. Bilangan langganan jalur lebar

*Number of broadband subscriptions*

10

#### 6. Peratus pengguna Internet mengikut jantina

*Percentage of Internet users by gender*

11

#### 7. Peratus pengguna Internet mengikut kategori umur

*Percentage of internet users by age category*

12

#### 8. Peratusan capaian komputer isi rumah mengikut negeri

*Percentage of computer access by household by state*

13

#### 9. Langganan jalur lebar tetap per 100 penduduk, negara-negara ASEAN

*Fixed-broadband subscriptions per 100 inhabitants, ASEAN countries*

14

#### 10. Langganan jalur lebar tetap per 100 penduduk bagi 10 rakan dagang terbesar, Malaysia

*Fixed-broadband subscriptions per 100 inhabitants for 10 biggest trading partners, Malaysia*

16

## TELEFON SELULAR MUDAH ALIH

### MOBILE CELLULAR TELEPHONES

#### 11. Bilangan langganan telefon selular dan kadar penembusan

*Number of mobile cellular telephone subscriptions and penetration rate*

20



**12. Kadar penembusan telefon selular per 100 penduduk mengikut negeri**

*Mobile cellular telephone penetration rate per 100 inhabitants by state*

22

**13. Kemudahan nombor**

*Mobile number portability*

23

**14. Peratus pengguna telefon selular mengikut jantina**

*Percentage of mobile cellular telephone users by gender*

24

**15. Khidmat pesanan ringkas (SMS)**

*Short message services (SMS)*

25

**16. Langganan telefon selular per 100 penduduk, negara-negara ASEAN**

*Mobile-cellular telephone subscriptions per 100 inhabitants, ASEAN countries*

26

**17. Langganan telefon selular per 100 penduduk bagi 10 rakan dagang terbesar, Malaysia**

*Mobile-cellular telephone subscriptions per 100 inhabitants for 10 biggest trading partners, Malaysia*

28

**TELEFON TETAP**

*FIXED TELEPHONES*

**18. Bilangan langganan telefon tetap dan kadar penembusan**

*Number of fixed telephone subscriptions and penetration rate*

30

**19. Bilangan langganan talian ibu sawat terus dan kadar penembusan**

*Number of DEL subscriptions and penetration rate*

34

**20. Kadar penembusan talian ibu sawat terus per 100 isi rumah mengikut negeri**

*DEL penetration rate per 100 households by state*

35

**21. Langganan telefon tetap per 100 penduduk negara-negara ASEAN**

*Fixed telephone subscriptions per 100 inhabitants, ASEAN countries*

37

**22. Langganan telefon tetap per 100 penduduk bagi 10 rakan dagang terbesar, Malaysia**

*Fixed telephone subscriptions per 100 inhabitants for 10 biggest trading partners, Malaysia*

39

**TV DAN RADIO**

*TV AND RADIO*

**23. Bilangan minit penyiaran, TV bebas ke udara**

*Number of broadcast minutes, free to air TV*

42

**24. Bilangan langganan TV berbayar dan kadar penembusan**

*Number of pay TV subscriptions and penetration rate*

43

**25. Peratusan capaian televisyen isi rumah mengikut negeri**

*Percentage of television access by household by state*

45

**26. Peratus isi rumah yang mempunyai kemudahan peralatan video/VCD/DVD mengikut negeri**

*Percentage of households with access to VCR/VCD/DVD by state*

46

**27. Peratusan capaian radio isi rumah mengikut negeri**

*Percentage of radio access by household by state*

47

**TANDATANGAN DIGITAL**

*DIGITAL SIGNATURE*

**28. Bilangan lesen pihak berkuasa pemerakuan**

*Number of certification authorities*

50

**29. Bilangan sijil yang dikeluarkan mengikut jenis**

*Number of certificates issued by type*

51

**KEDUDUKAN MALAYSIA DALAM INDEKS BERKAITAN ICT**

*MALAYSIA RANKING FOR ICT RELATED INDICES*

**30. Kedudukan Malaysia dalam indeks berkaitan ICT**

*Malaysia ranking for ICT related indices*

54

## SNAPSHOT 1H16

### SNAPSHOT 1H16

#### JALUR LEBAR BROADBAND



**Jumlah langganan jalur lebar (juta)**  
*Total broadband subscriptions (million)*

**29.8**



**Jumlah langganan jalur lebar isi rumah (juta)**  
*Total households broadband subscriptions (million)*

**5.8**



**Kadar penembusan jalur lebar per 100 isi rumah**  
*Broadband penetration rate per 100 households*

**76.7**



**Jumlah langganan jalur lebar tetap (juta)**  
*Total fixed broadband subscriptions (million)*

**2.7**



**Jumlah langganan jalur lebar mudah alih (juta)**  
*Total mobile broadband subscriptions (million)*

**27.1**

#### TELEFON TETAP FIXED TELEPHONES

**4.6**

**Jumlah langganan telefon tetap (juta)**  
*Total Fixed Line Subscriptions (million)*

**14.7**

**Kadar penembusan telefon tetap per 100 penduduk**  
*Fixed line penetration rate per 100 inhabitants*



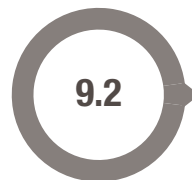
## TELEFON SELULAR MUDAH ALIH MOBILE-CELLULAR TELEPHONES



**Jumlah langganan telefon selular mudah alih (juta)**  
*Total mobile-cellular telephones subscriptions (million)*



**Kadar penembusan telefon selular mudah alih per 100 penduduk**  
*Mobile-cellular telephones penetration rate per 100 inhabitants*

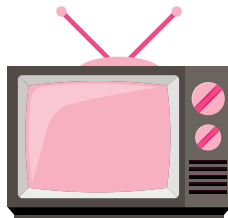


**Langganan pascabayar (juta)**  
*Postpaid subscriptions (million)*



**Langganan prabayar (juta)**  
*Prepaid subscriptions (million)*

## TV BERBAYAR PAY TV



**5.9**  
**Jumlah langganan TV berbayar (juta)**  
*Total pay TV subscriptions (million)*

**Kadar penembusan TV berbayar per 100 isi rumah**  
*Pay TV penetration rate per 100 households*

**76.2**



# PETUNJUK-PETUNJUK ASAS MALAYSIA

## *MALAYSIA BASIC INDICATORS*



# 1 PETUNJUK-PETUNJUK ASAS MALAYSIA

## MALAYSIA BASIC INDICATORS

Tahun Year	Suku Quarter	Penduduk Population	Isi rumah Households	KDNK GDP		Indeks Harga Pengguna (IHP) Consumer Price Index (CPI)
				Harga semasa Current prices	Harga malar Constant prices	
		(juta/million)	('000)	(RM billion/billion)	(RM billion/billion)	
<b>Nota/Notes</b>		a	b		c	d
<b>2015</b>	<b>1</b>	30.39	7,412	277.2	254.4	110.5
	<b>2</b>	30.49	7,435	<u>283.2</u>	<u>261.0</u>	111.4
	<b>3</b>	30.58	7,459	<u>292.6</u>	<u>269.4</u>	112.2
	<b>4</b>	30.68	7,483	<u>304.0</u>	<u>277.9</u>	112.8
<b>2016</b>	<b>1</b>	30.78	7,527	291.0	265.1	114.3
	<b>2</b>	30.88	7,551	298.5	271.3	114.4

Sumber / Source : DOSM, MCMC



**Nota penjelasan:**

*Explanatory notes:*

**a. Unjuran penduduk seperti pada penghujung tempoh berdasarkan Banci 2010**

*Population projections as at end of period, based on census 2010*

**b. Bilangan isi rumah diperolehi dengan membahagikan bilangan penduduk dengan purata saiz isi rumah**

*Number of households derived by dividing populations by average household size*

**Isi rumah ditakrifkan sebagai seorang atau sekumpulan orang yang bersaudara atau orang tidak bersaudara yang biasanya tinggal bersama dan membuat peruntukan yang sama untuk makanan dan keperluan hidup yang lain.**

*A household consists of related and/or unrelated persons who usually live together and make common provisions for food and other essentials of living.*

**c. Tahun asas adalah 2010**

*Base year is 2010*

**d. Tahun asas adalah 2010**

*Base year is 2010*

**IHP bagi sesuatu suku tahun merujuk kepada indeks purata dari 1 Januari hingga hujung suku tahun tersebut**

*The CPI reported against a quarter, refers to the average index for the period spanning 1st January to the end of that quarter*

## 2 KADAR PENEMBUSAN SEPINTAS LALU

### PENETRATION RATES AT A GLANCE

Tahun Year	Suku Quarter	Jalur lebar Broadband		Telefon selular Mobile-cellular telephone	Talian Ibusawat Terus DEL
		per 100 penduduk per 100 inhabitants	per 100 isi rumah per 100 households	per 100 penduduk per 100 inhabitants	per 100 isi rumah per 100 households
Nota/Notes		a	b	c	d
2015	1	77.6	70.4	145.7	28.6
	2	91.7	72.2	144.8	28.4
	3	99.7	72.5	143.6	28.2
	4	100.4	77.3	143.8	27.9
2016	1	100.4	78.7	143.4	27.5
	2	96.6	76.7	140.9	26.9

**Nota penjelasan:**

*Explanatory notes:*

- a. Kadar penembusan jalur lebar per 100 penduduk dari suku keempat 2014 dikira dengan membahagi jumlah langganan isi rumah dan langganan bukan isi rumah ditambah dengan langganan *pay per use* dengan jumlah penduduk dan didarab dengan 100. Langganan Wi-Fi awam tidak diambilkira.**

*The broadband penetration rate per 100 inhabitants from Q4 2014 is calculated by dividing the sum of household and non-household subscriptions added with pay per use subscriptions by the number of inhabitants and multiplying by 100. Public Wi-Fi subscriptions are not taken into account.*

- b. Kadar penembusan jalur lebar per 100 isi rumah bagi suku keempat 2015 telah disemak semula dengan membahagi jumlah langganan isi rumah dengan jumlah isi rumah dan didarab dengan 100.**

*The broadband penetration rate per 100 households for Q4 2015 is revised by dividing the number of household subscriptions by the number of households and multiplied by 100.*

- c. Kadar penembusan telefon selular dikira sebagai jumlah langganan dibahagi jumlah penduduk dan didarabkan dengan 100. Penembusan yang melebihi 100% boleh berpunca daripada pelanggan yang melanggan melebihi daripada satu langganan.**

*The penetration rate refers to the total subscriptions divided by the total population and multiplied by 100. A penetration rate over 100% can occur because of multiple subscriptions.*

- d. Kadar penembusan talian ibu sawat terus per 100 isi rumah dikira dengan membahagi jumlah langganan isi rumah dengan jumlah isi rumah dan didarab dengan 100.**

*The DEL penetration rate per 100 households is calculated by dividing the number of household subscriptions by the number of households and multiplying by 100.*

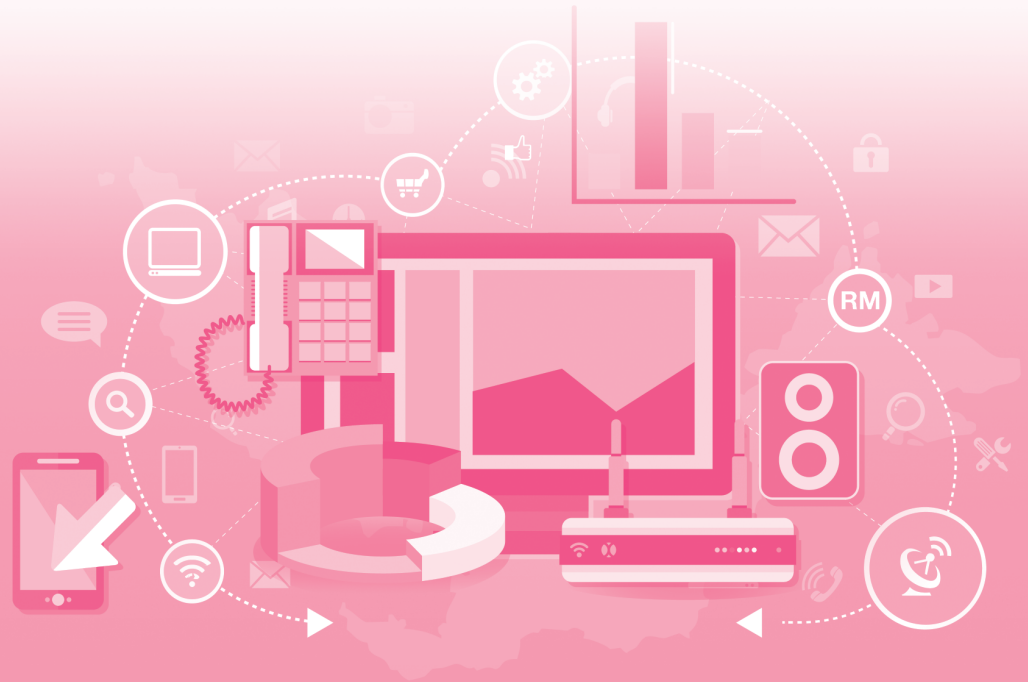
### 3 BILANGAN LESEN PADA 30 JUN 2016

NUMBER OF LICENCES AS AT 30 JUNE 2016

	Bilangan lesen No. of licences		
	Individu Individual	Kelas Class	Jumlah Total
<b>Penyedia Kemudahan Rangkaian</b> <i>Network Facilities Provider (NFP)</i>	168	13	181
<b>Penyedia Perkhidmatan Rangkaian</b> <i>Network Service Provider (NSP)</i>	157	13	170
<b>Penyedia Perkhidmatan Aplikasi</b> <i>Applications Service Provider (ASP)</i>		475	475
<b>Penyedia Perkhidmatan Aplikasi Kandungan</b> <i>Content Applications Service Provider (CASP)</i>	41	16	57
<b>Jumlah</b> <i>Total</i>	366	517	883

# **JALUR LEBAR DAN INTERNET**

## *BROADBAND AND INTERNET*



#### 4 KADAR PENEMBUSAN JALUR LEBAR PER 100 ISI RUMAH MENGIKUT NEGERI

BROADBAND PENETRATION RATE PER 100 HOUSEHOLDS BY STATE

Negeri State	2015		2016	
	Suku 4 Quarter 4	Suku 1 Quarter 1	Suku 2 Quarter 2	
Nota/Notes	a			
Johor	80.6	97.8	87.2	
Kedah	57.5	57.0	54.2	
Kelantan	54.3	53.7	51.5	
Melaka	74.1	73.6	74.1	
Negeri Sembilan	73.0	74.2	74.8	
Pahang	60.9	60.0	59.9	
Perak	65.6	65.5	65.6	
Perlis	61.6	60.0	57.1	
Pulau Pinang	86.0	86.5	87.9	
Selangor	98.5	97.8	97.7	
Terengganu	63.9	61.6	57.8	
Sabah	48.3	45.4	43.2	
Sarawak	56.6	53.1	53.0	
WP Kuala Lumpur	99.9	99.9	99.9	
WP Labuan	51.7	49.9	61.5	
WP Putrajaya	61.3	63.7	61.7	
<b>Malaysia</b>	<b>77.3</b>	<b>78.7</b>	<b>76.7</b>	

**Nota penjelasan:**

*Explanatory notes:*

- a. Kadar penembusan jalur lebar per 100 isi rumah bagi suku keempat 2015 telah disemak semula dengan membahagi jumlah langganan isi rumah dengan jumlah isi rumah dan didarab dengan 100.

*The broadband penetration rate per 100 households for Q4 2015 is revised by dividing the number of households subscriptions by the number of households and multiplied by 100.*

KADAR PENEMBUSAN JALUR LEBAR PER 100 ISI RUMAH MENGIKUT NEGERI, SUKU KE 2, 2016  
BROADBAND PENETRATION RATE PER 100 HOUSEHOLDS BY STATE, 2ND QUARTER, 2016



## 5 BILANGAN LANGGANAN JALUR LEBAR

### NUMBER OF BROADBAND SUBSCRIPTIONS

Tahun Year	Suku Quarter	Tetap Fixed	Mudah alih Mobile	Jumlah Total
		(juta/million)		
Nota/Notes		a	b	
2016	1	2.7	28.2	30.9
	2	2.7	27.1	29.8

#### Nota penjelasan:

*Explanatory notes:*

**a. Termasuk ADSL, SDSL, VDSL, Satelit, FTTH, Fixed wireless, EV-DO, dan WiMAX tetap**

*Includes ADSL, SDSL, VDSL, Satellite, FTTH, Fixed wireless, EV-DO, and fixed WiMAX*

**b. Termasuk prabayar, pascabayar, Pay Per Use, dan WiMAX mudah alih**

*Includes prepaid, postpaid, Pay Per Use, and mobile WiMAX*

**Jumlah campuran mungkin berbeza kerana pembundaran.**

*The added total may differ due to rounding.*



## 6 PERATUS PENGGUNA INTERNET MENGIKUT JANTINA

### PERCENTAGE OF INTERNET USERS BY GENDER

Tahun Year	Lelaki Male	Perempuan Female
	(%)	
2014	58.3	41.7
2015	59.4	40.6

**Nota penjelasan:**

*Explanatory notes:*

Jadual 6 dan 7 adalah daripada Kajian Pengguna Internet yang dijalankan oleh MCMC bermula pada tahun 2012.

*Tables 6 and 7 are from Internet Users Surveys conducted by the MCMC beginning from 2012.*

## 7 PERATUS PENGGUNA INTERNET MENGIKUT KATEGORI UMUR

### PERCENTAGE OF INTERNET USERS BY AGE CATEGORY

Kategori umur <i>Age category</i>	2014 (%)	2015 (%)
<b>Bawah 15</b> ( <i>Below 15</i> )	1.6	0.9
<b>15-19</b>	13.9	14.6
<b>20-24</b>	24.2	22.0
<b>25-29</b>	19.3	16.2
<b>30-34</b>	13.1	14.0
<b>35-39</b>	8.7	10.6
<b>40-44</b>	7.3	7.6
<b>45-49</b>	4.6	5.7
<b>50 dan ke atas</b> ( <i>50 and above</i> )	7.3	8.5

#### Nota penjelasan:

*Explanatory notes:*

**Sila rujuk nota bagi Jadual 6**

*Please see note by Table 6*

## 8 PERATURAN CAPAIAN KOMPUTER ISI RUMAH MENGIKUT NEGERI

### PERCENTAGE OF COMPUTER ACCESS BY HOUSEHOLD BY STATE

Negeri State	2015 (%)
Johor	68.7
Kedah	51.1
Kelantan	50.3
Melaka	71.9
Negeri Sembilan	57.1
Pahang	59.4
Perak	57.8
Perlis	69.2
Pulau Pinang	71.4
Sabah	60.1
Sarawak	61.4
Selangor	82.5
Terengganu	62.6
WP Kuala Lumpur	80.9
WP Labuan	83.5
WP Putrajaya	98.8
<b>Malaysia</b>	<b>67.6</b>

Sumber / Source :

Laporan Penyiasatan Penggunaan dan Capaian ICT oleh Individu dan Isi Rumah 2015, DOSM  
 ICT Use and Access by Individuals and Households Survey Report 2015, DOSM

## 9 LANGGANAN JALUR LEBAR TETAP PER 100 PENDUDUK, NEGARA-NEGARA ASEAN

### FIXED-BROADBAND SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES

Tahun Year	Singapura Singapore	Malaysia	Thailand	Viet Nam	Brunei Darussalam
Nota/Notes		a			
2014	26.7	<u>10.1</u>	8.1	6.5	7.2
2015	26.5	10.1	9.2	8.1	8.0

Tahun Year	Filipina Philippines	Indonesia	Kemboja Cambodia	Lao P.D.R.	Myanmar
Nota/Notes					
2014	2.9	1.2	0.4	0.2	0.3
2015	3.4	1.1	0.5	0.5	0.4

Sumber / Source : MCMC, ITU

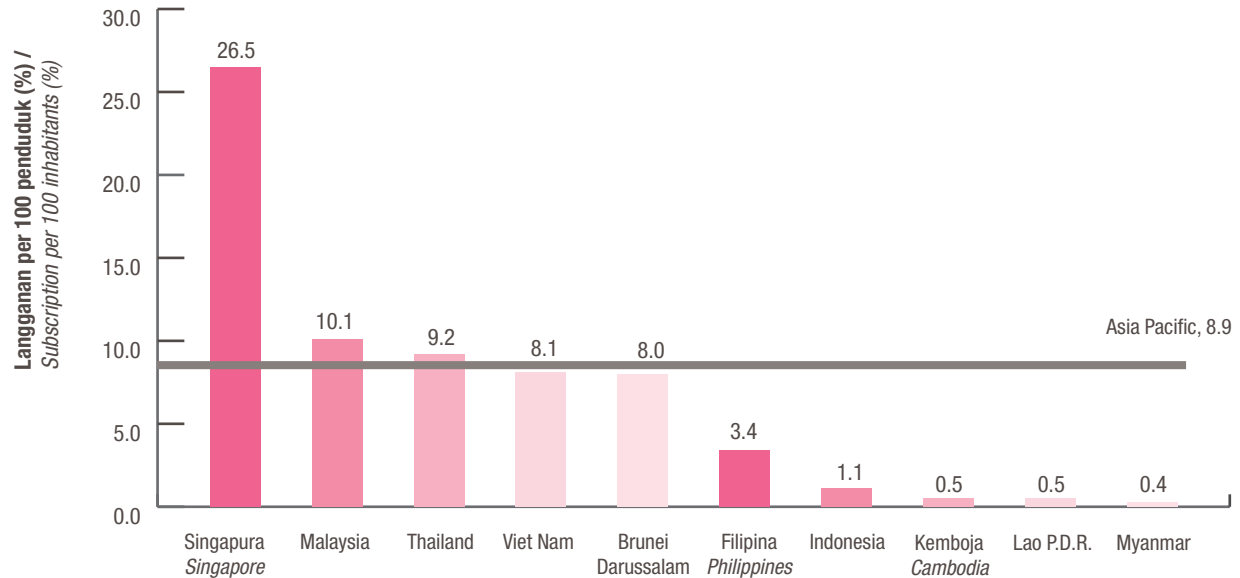
#### Nota penjelasan:

*Explanatory notes:*

- a. Angka mungkin berbeza dengan pengiraan ITU disebabkan semakan semula oleh MCMC dan perbezaan bilangan penduduk yang digunakan

*Figure may differ from ITU calculation due to the revision made by MCMC and difference in the number of population used*

LANGGANAN JALUR LEBAR TETAP PER 100 PENDUDUK, NEGARA-NEGARA ASEAN, 2015  
FIXED-BROADBAND SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES, 2015



**10 LANGGANAN JALUR LEBAR TETAP PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA**  
**FIXED-BROADBAND SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA**

Tahun Year	Korea Selatan South Korea	Hong Kong SAR	AS USA	Jepun Japan	Singapura Singapore	Taiwan
Nota/Notes						
2014	38.8	31.4	<u>30.3</u>	<u>29.8</u>	26.7	31.9
2015	40.3	31.9	31.5	30.5	26.5	24.3

Tahun Year	China	Malaysia	Thailand	India	Indonesia
Nota/Notes		a			
2014	14.4	<u>10.1</u>	8.1	1.2	1.2
2015	18.6	10.1	9.2	1.3	1.1

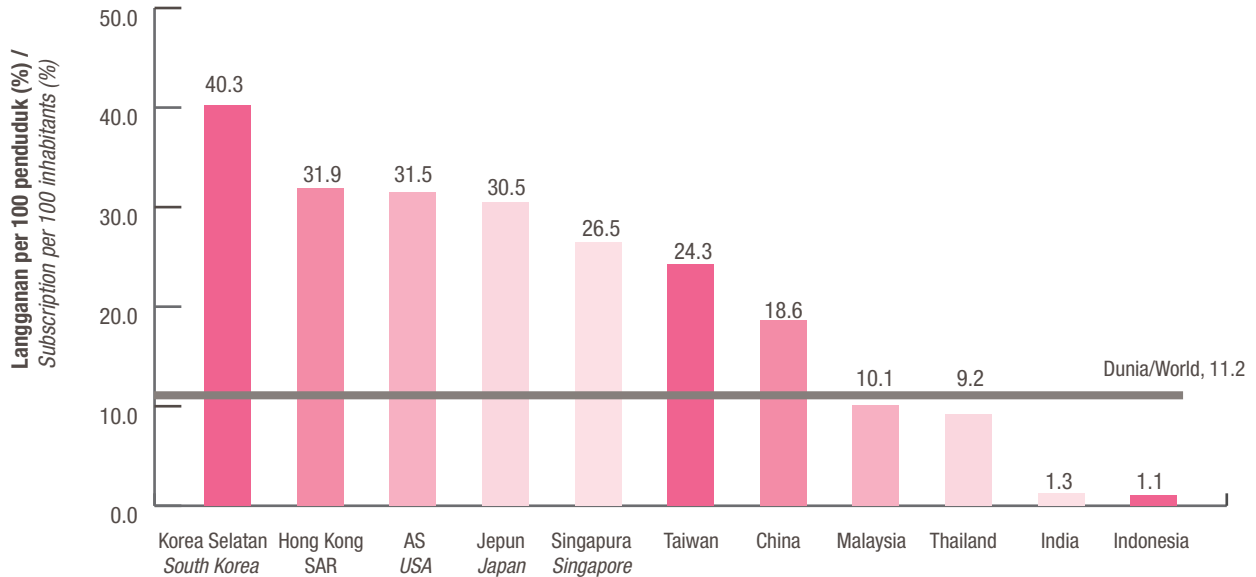
Sumber / Source : MCMC, ITU

**Nota penjelasan:**  
*Explanatory notes:*

- a. Angka mungkin berbeza dengan pengiraan ITU disebabkan oleh perbezaan bilangan penduduk yang digunakan  
 Figure may differ from ITU calculation due to the difference in the number of population used

LANGGANAN JALUR LEBAR TETAP PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA, 2015

FIXED-BROADBAND SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA, 2015

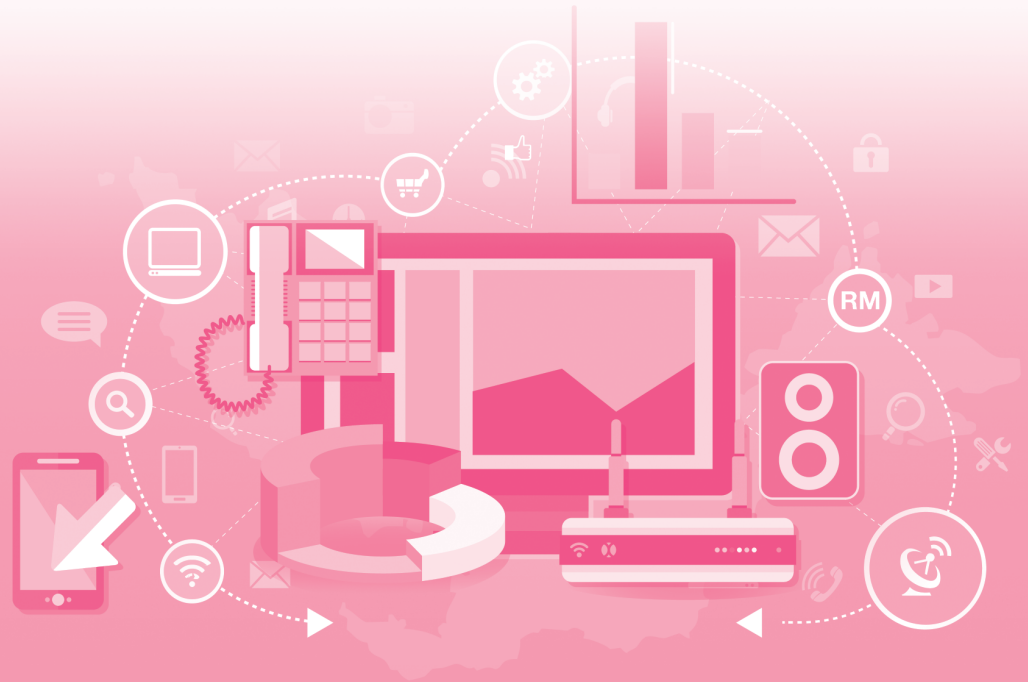






# TELEFON SELULAR MUDAH ALIH

## *MOBILE CELLULAR TELEPHONES*



## 11 BILANGAN LANGGANAN TELEFON SELULAR DAN KADAR PENEMBUSAN

### NUMBER OF MOBILE CELLULAR TELEPHONE SUBSCRIPTIONS AND PENETRATION RATE

Tahun Year	Suku Quarter	Pascabayar Postpaid	Prabayar Prepaid	Jumlah Total	Kadar penembusan per 100 penduduk Penetration rate per 100 inhabitants
		('000)			
2015	1	8,258	36,022	44,280	145.7
	2	8,387	35,765	44,152	144.8
	3	8,449	35,479	43,929	143.6
	4	8,740	35,364	44,104	143.8
2016	1	8,902	35,247	44,149	143.4
	2	9,175	34,337	43,512	140.9

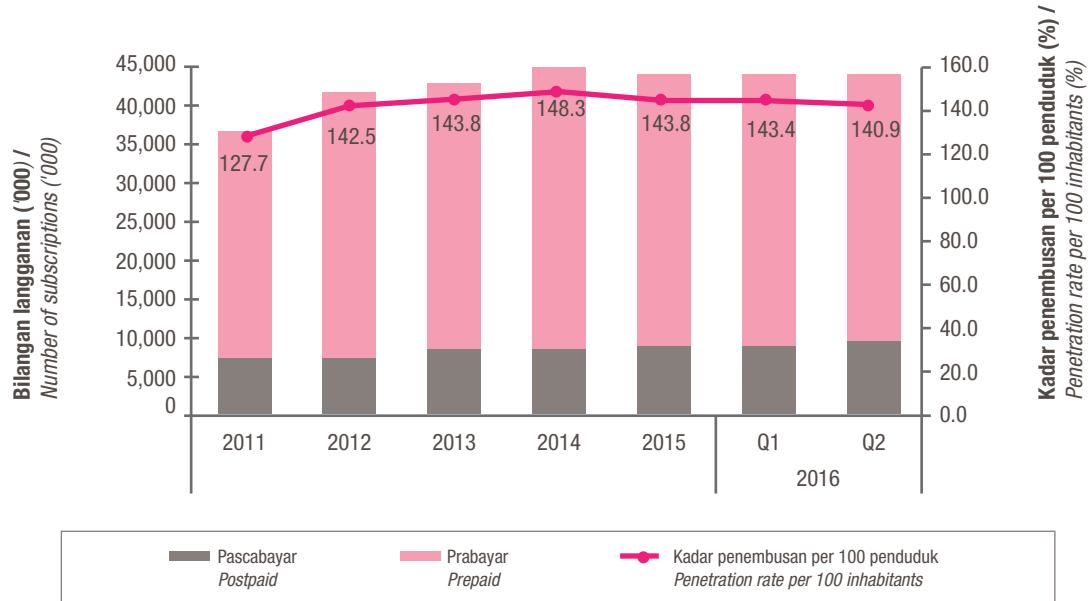
#### Nota penjelasan:

*Explanatory notes:*

Kadar penembusan telefon selular dikira sebagai jumlah langganan dan dibahagi jumlah penduduk dan didarabkan dengan 100. Penembusan yang melebihi 100% boleh berpunca daripada pelanggan yang melanggan melebihi daripada satu langganan.

*The penetration rate refers to the total subscriptions divided by the total population and multiplied by 100. A penetration rate is over 100% can occur because of multiple subscriptions.*

**BILANGAN LANGGANAN TELEFON SELULAR DAN KADAR PENEMBUSAN**  
**NUMBER OF MOBILE CELLULAR TELEPHONE SUBSCRIPTIONS AND PENETRATION RATE**



## 12 KADAR PENEMBUSAN TELEFON SELULAR PER 100 PENDUDUK MENGIKUT NEGERI

### MOBILE CELLULAR TELEPHONE PENETRATION RATE PER 100 INHABITANTS BY STATE

Negeri State	2014	2015
Johor	156.7	129.6
Kedah	121.9	142.0
Kelantan	117.5	159.6
Melaka	159.2	140.0
Negeri Sembilan	153.3	141.6
Pahang	148.3	160.9
Perak	149.2	120.9
Perlis	103.7	143.0
Pulau Pinang	143.8	146.8
Selangor	156.1	157.2
Terengganu	156.5	165.5
Sabah	107.4	130.2
Sarawak	113.0	123.5
WP Kuala Lumpur	220.8	205.0
WP Labuan	171.2	133.8
WP Putrajaya	191.3	210.0

#### Nota penjelasan:

*Explanatory notes:*

**Jadual 12 dan 14 adalah daripada Kajian Pengguna Telefon Bimbit yang dijalankan oleh MCMC pada setiap tahun.**

*Table 12 and 14 are from the Hand Phone Users Surveys conducted by the MCMC annually.*

### 13 KEMUDAHALIHAN NOMBOR MOBILE NUMBER PORTABILITY

Tahun Year	Suku Quarter	Permintaan pengalihan nombor Number of porting request	Pengalihan nombor yang berjaya Successful porting
		('000)	
2015	1	506.7	347.4
	2	613.6	360.7
	3	671.4	323.2
	4	787.6	389.0
2016	1	789.9	420.7
	2	860.1	458.2

**14 PERATUS PENGGUNA TELEFON SELULAR MENGIKUT JANTINA***PERCENTAGE OF CELLULAR TELEPHONE USERS BY GENDER*

<b>Tahun Year</b>	<b>Lelaki Male</b>	<b>Perempuan Female</b>
	(%)	
<b>2014</b>	56.9	43.1
<b>2015</b>	56.9	43.1

**Nota penjelasan:***Explanatory notes:***Sila rujuk nota bagi Jadual 12***Please see note by Table 12*

## 15 KHIDMAT PESANAN RINGKAS (SMS) SHORT MESSAGE SERVICES

Tahun Year	Suku Quarter	Jumlah Total	Per langganan Per subscription
		(juta/million)	
Nota/Notes		a	
2015	1	7,768.3	175
	2	6,855.3	155
	3	6,032.3	137
	4	5,200.9	118
2016	1	4,503.8	102
	2	3,934.7	90

**Nota penjelasan:**

*Explanatory notes:*

**a. Angka menunjukkan bilangan SMS dihantar dalam tempoh rujukan.**

*Figure refers to the number of SMSes sent within the period.*

## 16 LANGGANAN TELEFON SELULAR PER 100 PENDUDUK, NEGARA-NEGARA ASEAN

### MOBILE-CELLULAR SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES

Tahun Year	Singapura Singapore	Malaysia	Kemboja Cambodia	Indonesia	Viet Nam
Nota/Notes		a			
2014	146.9	148.3	132.7	128.8	147.1
2015	146.1	143.8	133.0	132.4	130.6

Tahun Year	Thailand	Filipina Philippines	Brunei Darussalam	Myanmar	Lao P.D.R.
Nota/Notes					
2014	144.4	111.2	<u>106.8</u>	54.0	67.0
2015	125.8	118.1	108.1	76.7	53.1

Sumber / Source : MCMC, ITU

#### Nota penjelasan:

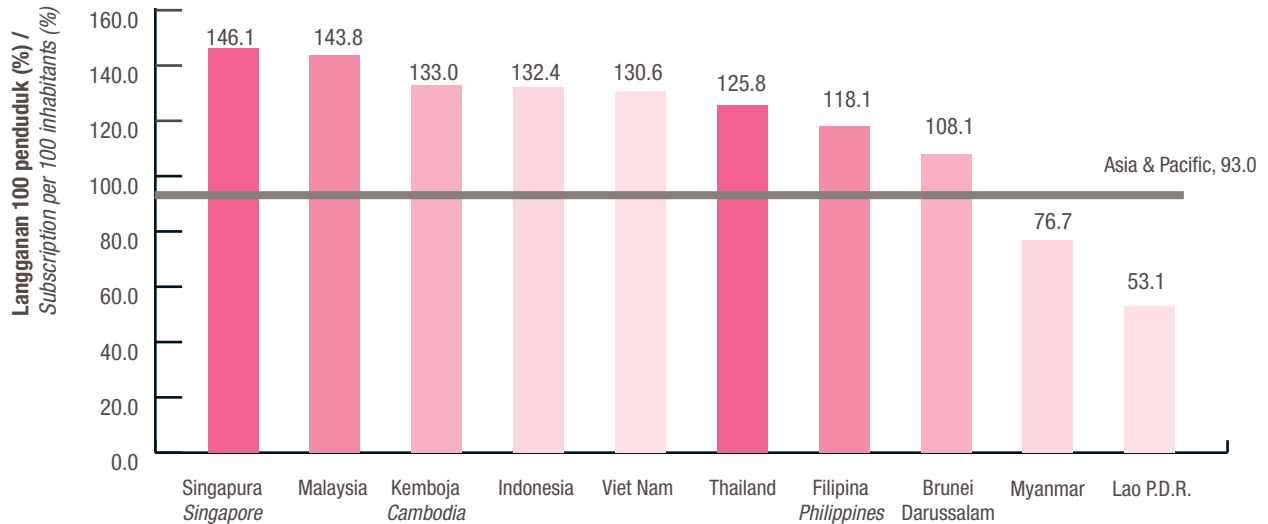
*Explanatory notes:*

- a. Angka mungkin berbeza dengan pengiraan ITU disebabkan oleh perbezaan bilangan penduduk yang digunakan

*Figure may differ from ITU calculation due to the difference in the number of population used*



LANGGANAN TELEFON SELULAR PER 100 PENDUDUK, NEGARA-NEGARA ASEAN, 2015  
MOBILE-CELLULAR TELEPHONES SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES, 2015



**17 LANGGANAN TELEFON SELULAR PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA**  
*MOBILE-CELLULAR SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA*

Tahun Year	Hong Kong SAR	Singapura Singapore	Malaysia	Indonesia	Taiwan	Thailand
<b>Nota/Notes</b>			<b>a</b>			
<b>2014</b>	233.6	146.9	148.3	128.8	130.2	144.4
<b>2015</b>	228.8	146.1	143.8	132.4	127.3	125.8

Tahun Year	Jepun Japan	Korea Selatan South Korea	AS USA	China	India
<b>Nota/Notes</b>					
<b>2014</b>	120.2	<u>115.7</u>	110.2	92.3	74.5
<b>2015</b>	125.1	118.5	117.6	93.2	78.8

**Sumber / Source :** MCMC, ITU

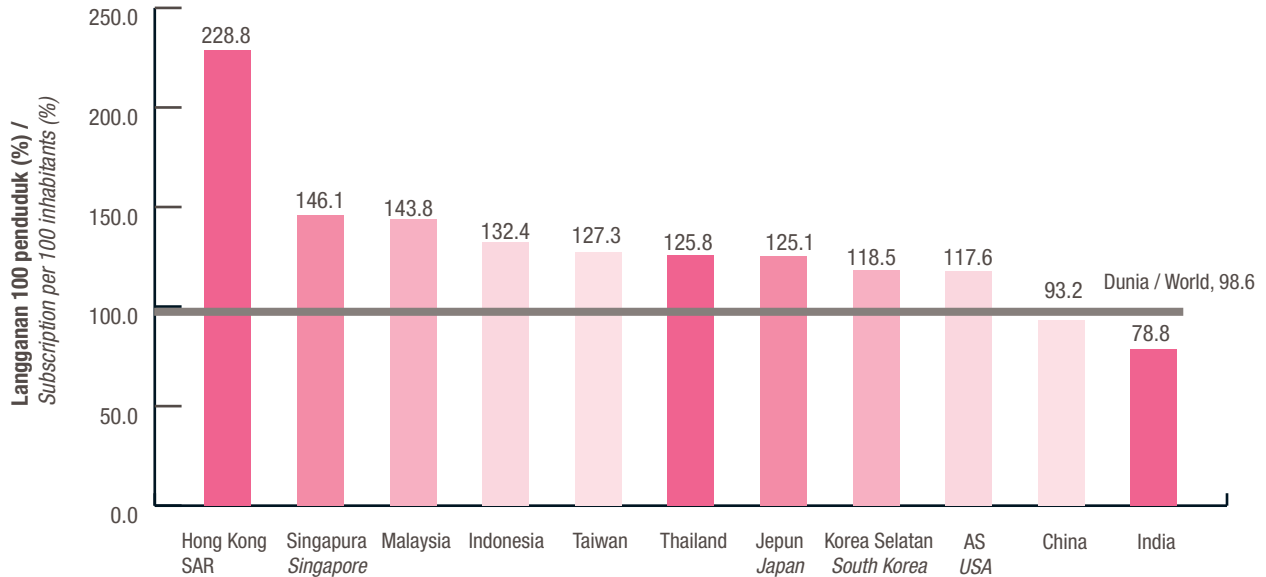
**Nota penjelasan:**

*Explanatory notes:*

- a. Angka mungkin berbeza dengan pengiraan ITU disebabkan oleh perbezaan bilangan penduduk yang digunakan**

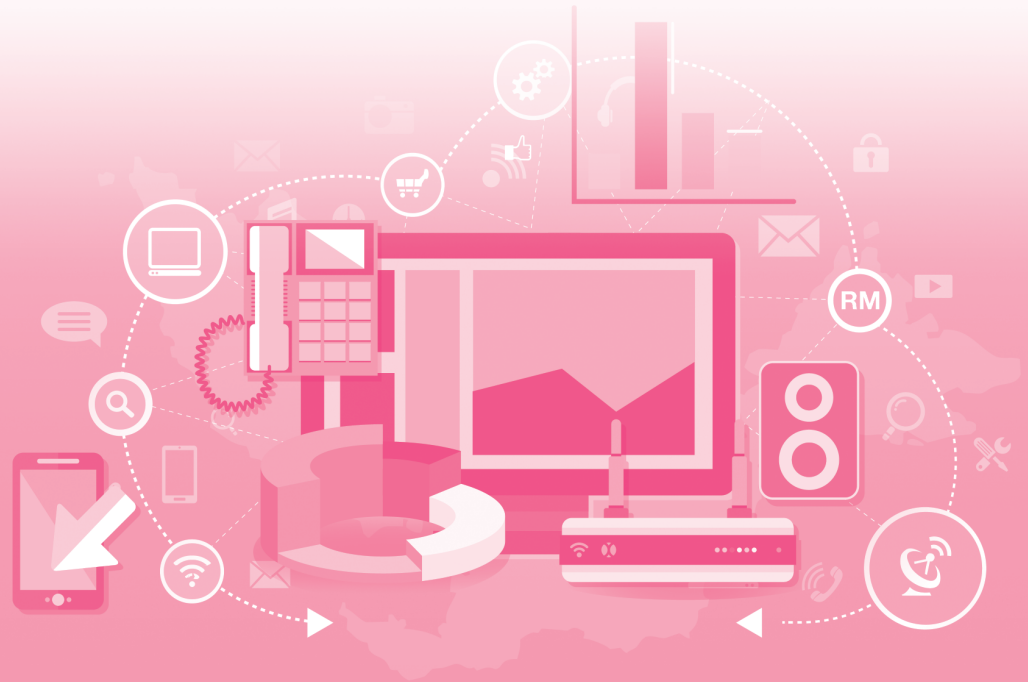
*Figure may differ from ITU calculation due to the difference in the number of population used*

LANGGANAN TELEFON SELULAR PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA, 2015  
MOBILE-CELLULAR SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA, 2015





# **TELEFON TETAP** *FIXED TELEPHONES*



## 18 BILANGAN LANGGANAN TELEFON TETAP DAN KADAR PENEMBUSAN

### NUMBER OF FIXED TELEPHONE SUBSCRIPTIONS AND PENETRATION RATE

Tahun Year	Suku Quarter	Jumlah langganan Total Subscriptions	Kadar penembusan per 100 penduduk Penetration rate per 100 inhabitants
		('000)	
Nota/Notes		a	
2013	4	4,535.8	15.2
2014	4	4,406.5	14.5
2015	4	4,489.2	14.6
2016	1	4,483.5	14.6
	2	4,550.9	14.7

#### Nota penjelasan:

*Explanatory notes:*

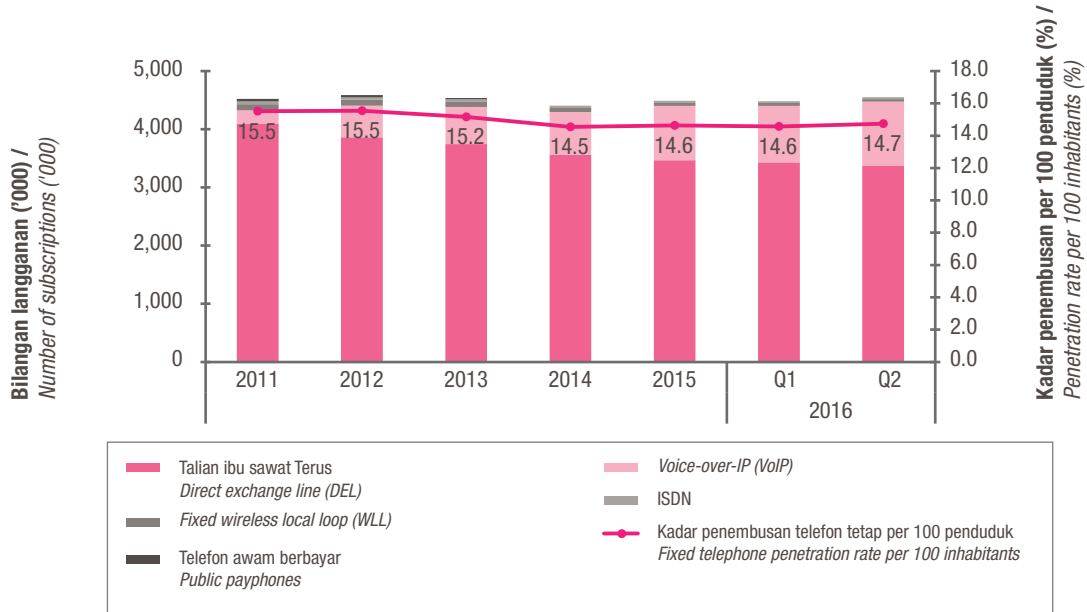
**Kadar penembusan telefon tetap dikira sebagai jumlah langganan dan dibahagi jumlah penduduk dan didarabkan dengan 100.**

*The fixed telephone penetration rate refers to the total subscriptions divided by the total population and multiplied by 100.*

**a. Termasuk DEL, VoIP, Fixed wireless local loop (WLL), ISDN dan telefon berbayar awam**

*Includes DEL, VoIP, Fixed wireless local loop (WLL), ISDN and public payphones*

**BILANGAN LANGGANAN TELEFON TETAP DAN KADAR PENEMBUSAN**  
**NUMBER OF FIXED TELEPHONE SUBSCRIPTIONS AND PENETRATION RATE**



## 19 BILANGAN LANGGANAN TALIAN IBU SAWAT TERUS DAN KADAR PENEMBUSAN

### NUMBER OF DEL SUBSCRIPTIONS AND PENETRATION RATE

Tahun Year	Suku Quarter	Isi rumah Households		Bukan isi rumah Non households	Jumlah langganan Total subscriptions	Kadar penembusan Penetration rate
		Bilangan langganan Number of subscriptions	Kadar penembusan Penetration rate	Bilangan langganan Number of subscriptions		
		('000)	per 100 isi rumah per 100 households	('000)	('000)	per 100 penduduk per 100 inhabitants
2015	1	2,122	28.6	1,417	3,540	11.6
	2	2,109	28.4	1,400	3,509	11.5
	3	2,100	28.2	1,393	3,493	11.4
	4	2,089	27.9	1,377	3,466	11.3
2016	1	2,067	27.5	1,362	3,430	11.1
	2	2,033	26.9	1,346	3,379	10.8

#### Nota penjelasan:

*Explanatory notes:*

**Sambungan Talian Ibu sawat Terus merujuk kepada talian tetap yang menyambungkan peralatan pelanggan terus ke ibu sawat.**

*Direct Exchange Line (DEL) connects a customer's equipment to the Public Switched Telephone Network (PSTN) and has a dedicated port on a telephone exchange.*

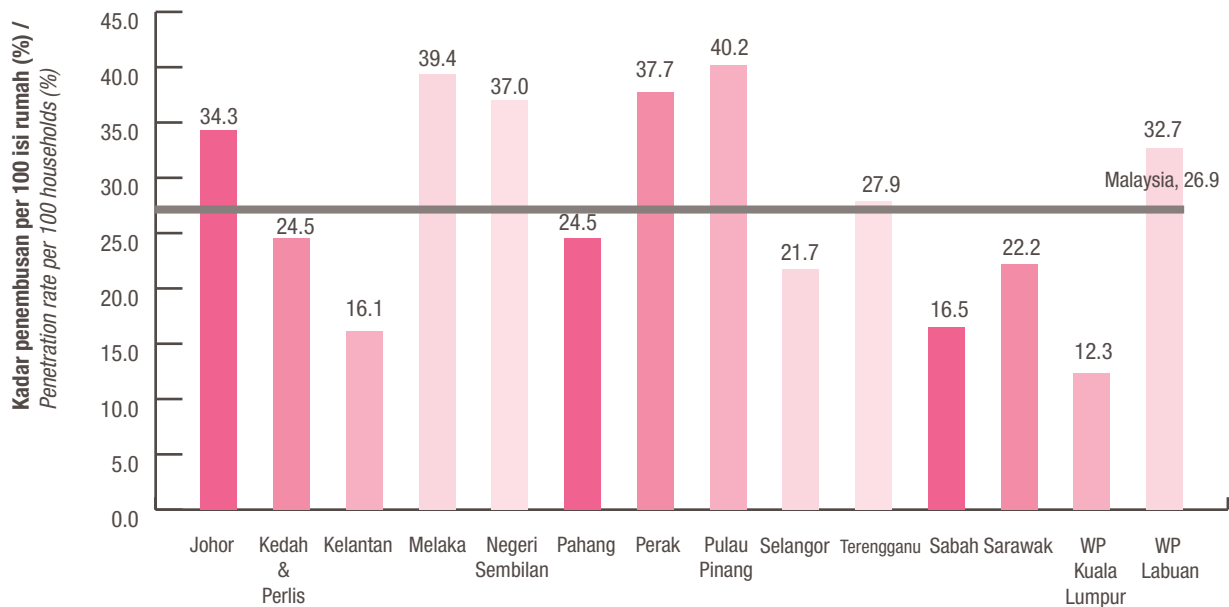


## 20 KADAR PENEMBUSAN TALIAN IBU SAWAT TERUS PER 100 ISI RUMAH MENGIKUT NEGERI

*DEL PENETRATION RATE PER 100 HOUSEHOLDS BY STATE*

Negeri State	2016	
	Suku 1 Quarter 1	Suku 2 Quarter 2
Johor	34.9	34.3
Kedah & Perlis	24.9	24.5
Kelantan	16.2	16.1
Melaka	40.1	39.4
Negeri Sembilan	38.2	37.0
Pahang	24.8	24.5
Perak	38.1	37.7
Pulau Pinang	40.9	40.2
Selangor	22.5	21.7
Terengganu	28.0	27.9
Sabah	16.8	16.5
Sarawak	22.6	22.2
WP Kuala Lumpur	12.6	12.3
WP Labuan	33.3	32.7
<b>Malaysia</b>	<b>27.5</b>	<b>26.9</b>

**KADAR PENEMBUSAN TALIAN IBU SAWAT TERUS PER 100 ISI RUMAH MENGIKUT NEGERI, SUKU KE 2, 2016**  
*DEL PENETRATION RATE PER 100 HOUSEHOLDS BY STATE, 2ND QUARTER, 2016*



## 21 LANGGANAN TELEFON TETAP PER 100 PENDUDUK, NEGARA-NEGARA ASEAN

### FIXED TELEPHONE SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES

Tahun Year	Singapura Singapore	Malaysia	Lao P.D.R.	Brunei Darussalam	Indonesia
Nota/Notes		a			
2014	36.2	14.6	13.4	11.4	10.4
2015	36.0	14.6	13.7	9.0	8.8

Tahun Year	Thailand	Viet Nam	Filipina Philippines	Kemboja Cambodia	Myanmar
Nota/Notes					
2014	8.5	6.0	3.1	2.3	1.0
2015	7.9	6.3	3.0	1.6	1.0

Sumber / Source : MCMC, ITU

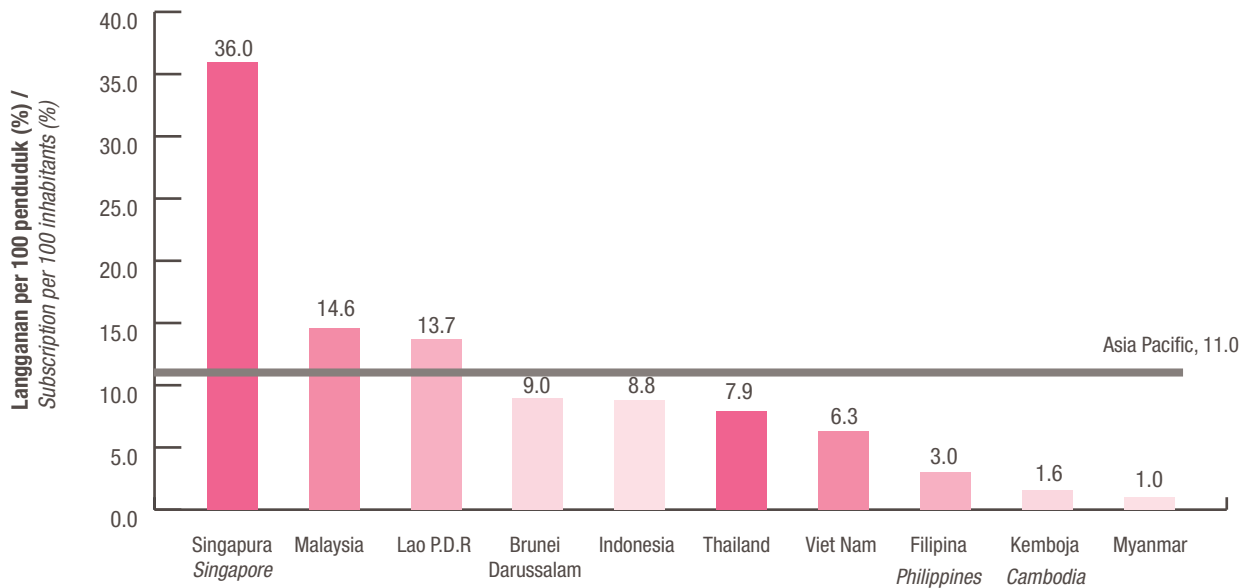
**Nota penjelasan:**

*Explanatory notes:*

a. Angka mungkin berbeza dengan pengiraan ITU disebabkan oleh perbezaan bilangan penduduk yang digunakan

*Figure may differ from ITU calculation due to the difference in the number of population used*

LANGGANAN TELEFON TETAP PER 100 PENDUDUK, NEGARA-NEGARA ASEAN, 2015  
 FIXED TELEPHONE SUBSCRIPTIONS PER 100 INHABITANTS, ASEAN COUNTRIES, 2015



## 22 LANGGANAN TELEFON TETAP PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA

FIXED TELEPHONE SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA

Tahun Year	Taiwan	Hong Kong SAR	Korea Selatan South Korea	Jepun Japan	AS USA	Singapura Singapore
<b>Nota/Notes</b>						
<b>2014</b>	60.2	60.9	59.5	50.1	39.8	36.2
<b>2015</b>	59.7	59.2	58.1	50.2	37.5	36.0

Tahun Year	China	Malaysia	Indonesia	Thailand	India
<b>Nota/Notes</b>		a			
<b>2014</b>	17.9	<u>14.6</u>	10.4	8.5	2.1
<b>2015</b>	16.5	14.6	8.8	7.9	2.0

Sumber / Source : MCMC, ITU

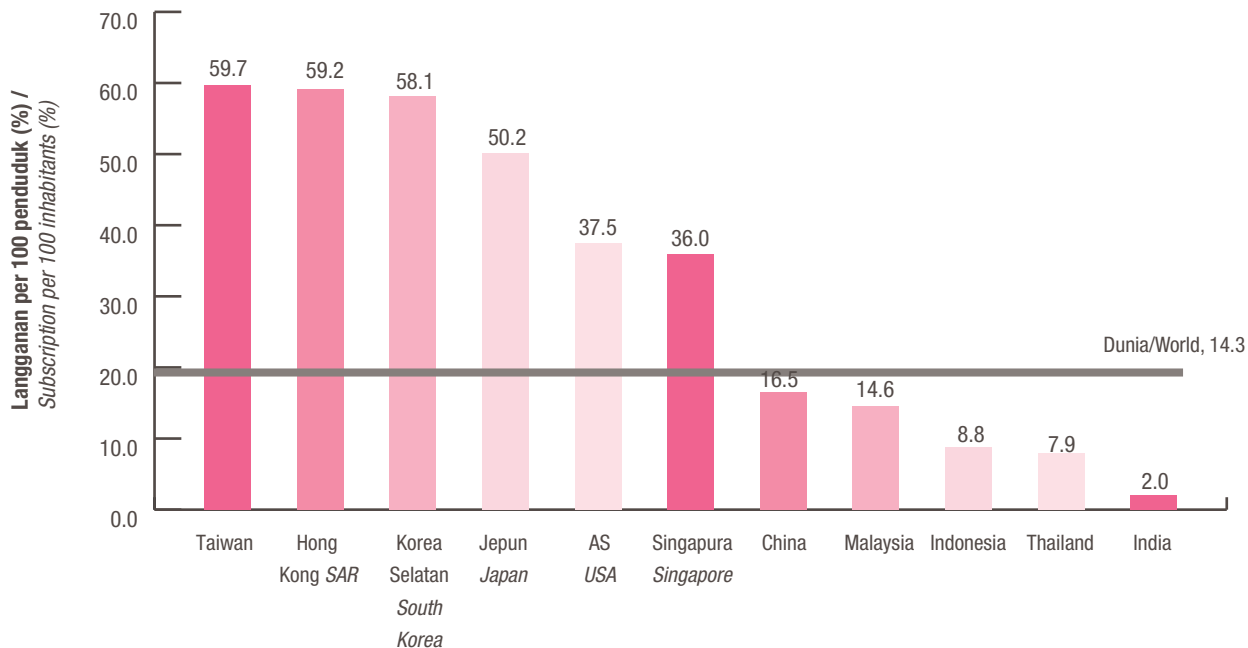
### Nota penjelasan:

Explanatory notes:

a. Angka mungkin berbeza dengan pengiraan ITU disebabkan oleh perbezaan bilangan penduduk yang digunakan

Figure may differ from ITU calculation due to the difference in the number of population used

**LANGGANAN TELEFON TETAP PER 100 PENDUDUK BAGI 10 RAKAN DAGANG TERBESAR, MALAYSIA, 2015**  
**FIXED TELEPHONE SUBSCRIPTIONS PER 100 INHABITANTS FOR 10 BIGGEST TRADING PARTNERS, MALAYSIA, 2015**



# TV DAN RADIO

## *TV AND RADIO*



## 23 BILANGAN MINIT PENYIARAN, TV BEBAS KE UDARA

NUMBER OF BROADCAST MINUTES, FREE TO AIR TV

Tahun Year	Suku Quarter	Stesen TV TV station							
		TV1	TV2	TV3	NTV7	8TV	TV9	TV Alhijrah	Jumlah Total
2015	1	130,933	130,636	107,519	94,263	101,133	98,487	101,068	764,039
	2	132,000	131,554	113,235	94,764	101,480	105,746	105,856	784,635
	3	134,031	133,762	117,555	96,232	102,795	110,784	106,588	801,747
	4	130,333	128,984	123,732	95,505	102,213	102,144	89,466	772,377
2016	1	132,086	131,736	130,677	95,699	101,530	98,774	100,752	791,254
	2	132,261	130,780	130,749	96,657	104,899	105,688	110,913	811,947

Sumber / Source : Nielsen Television Audience Measurement (TAM)



## 24 BILANGAN LANGGANAN TV BERBAYAR DAN KADAR PENEMBUSAN

### NUMBER OF PAY TV SUBSCRIPTIONS AND PENETRATION RATE

Tahun Year	Suku Quarter	Bilangan langganan Number of subscriptions			Kadar penembusan per 100 isi rumah Penetration rate per 100 households
		Isi rumah Households	Bukan isi rumah Non households	Jumlah Total	
		('000)			
2015	1	5,169	154	5,323	69.7
	2	5,221	159	5,379	70.2
	3	5,325	160	5,484	71.4
	4	5,485	167	5,652	73.3
2016	1	5,678	171	5,849	75.4
	2	5,754	176	5,929	76.2

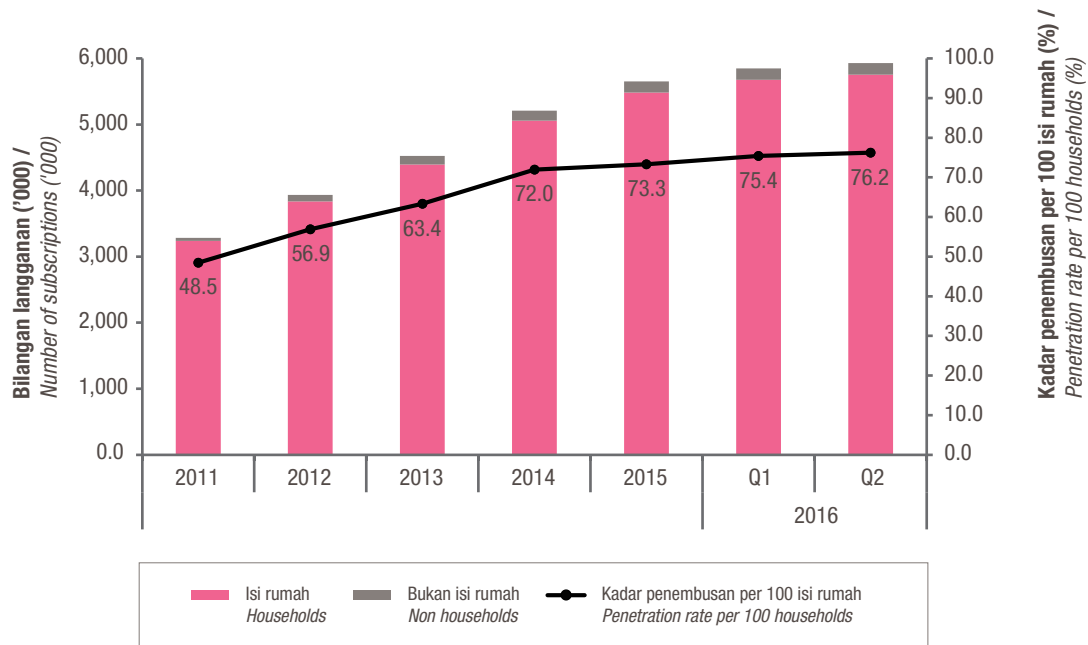
**Nota penjelasan:**

*Explanatory notes:*

**Televisyen berbayar termasuk IPTV**

*Pay TV is inclusive of IPTV*

**BILANGAN LANGGANAN TV BERBAYAR DAN KADAR PENEMBUSAN**  
**NUMBER OF PAY TV SUBSCRIPTIONS AND PENETRATION RATE**



## 25 PERATUSAN CAPAIAN TELEVISYEN ISI RUMAH MENGIKUT NEGERI

### PERCENTAGE OF TELEVISION ACCESS BY HOUSEHOLD BY STATE

Negeri State	2015 (%)
Johor	99.2
Kedah	98.5
Kelantan	97.9
Melaka	98.9
Negeri Sembilan	99.4
Pahang	98.4
Perak	99.0
Perlis	98.9
Pulau Pinang	99.0
Sabah	95.3
Sarawak	97.2
Selangor	98.9
Terengganu	98.0
WP Kuala Lumpur	99.8
WP Labuan	97.5
WP Putrajaya	100.0
<b>Malaysia</b>	<b>98.4</b>

**Sumber:**

Source:

Laporan Penyiataan Penggunaan dan Capaian ICT oleh Individu dan Isi Rumah 2015, DOSM

ICT Use and Access by Individuals and Households Survey Report 2015, DOSM

**26 PERATUS ISI RUMAH YANG MEMPUNYAI KEMUDAHAN PERALATAN VIDEO/VCD/DVD MENGIKUT NEGERI**  
*PERCENTAGE OF HOUSEHOLDS WITH ACCESS TO VCR/VCD/DVD BY STATE*

<b>Negeri State</b>	<b>2012 (%)</b>	<b>2014 (%)</b>
Johor	74.3	73.6
Kedah	58.2	53.8
Kelantan	44.0	39.9
Melaka	69.9	65.8
Negeri Sembilan	51.0	55.5
Pahang	61.5	57.2
Perak	62.4	65.9
Perlis	46.8	51.4
Pulau Pinang	72.0	74.6
Selangor	70.7	58.3
Terengganu	42.4	44.0
Sabah	62.0	59.7
Sarawak	71.8	77.3
WP Kuala Lumpur	75.3	74.1
WP Labuan	65.2	65.4
WP Putrajaya	62.6	64.4
<b>Malaysia</b>	<b>65.4</b>	<b>63.0</b>

**Sumber:***Source:*

**Laporan Penyiasatan Pendapatan Isi Rumah dan Kemudahan Asas, DOSM**  
*Household Income And Basic Amenities Survey Report, DOSM*

## 27 PERATURAN CAPAIAN RADIO ISI RUMAH MENGIKUT NEGERI

### PERCENTAGE OF RADIO ACCESS BY HOUSEHOLD BY STATE

Negeri State	2015 (%)
Johor	91.9
Kedah	93.6
Kelantan	90.3
Melaka	90.6
Negeri Sembilan	96.4
Pahang	91.3
Perak	90.1
Perlis	94.9
Pulau Pinang	88.4
Sabah	81.5
Sarawak	90.0
Selangor	95.4
Terengganu	96.9
WP Kuala Lumpur	99.0
WP Labuan	88.1
WP Putrajaya	100.0
<b>Malaysia</b>	<b>92.1</b>

**Sumber:**

*Source:*

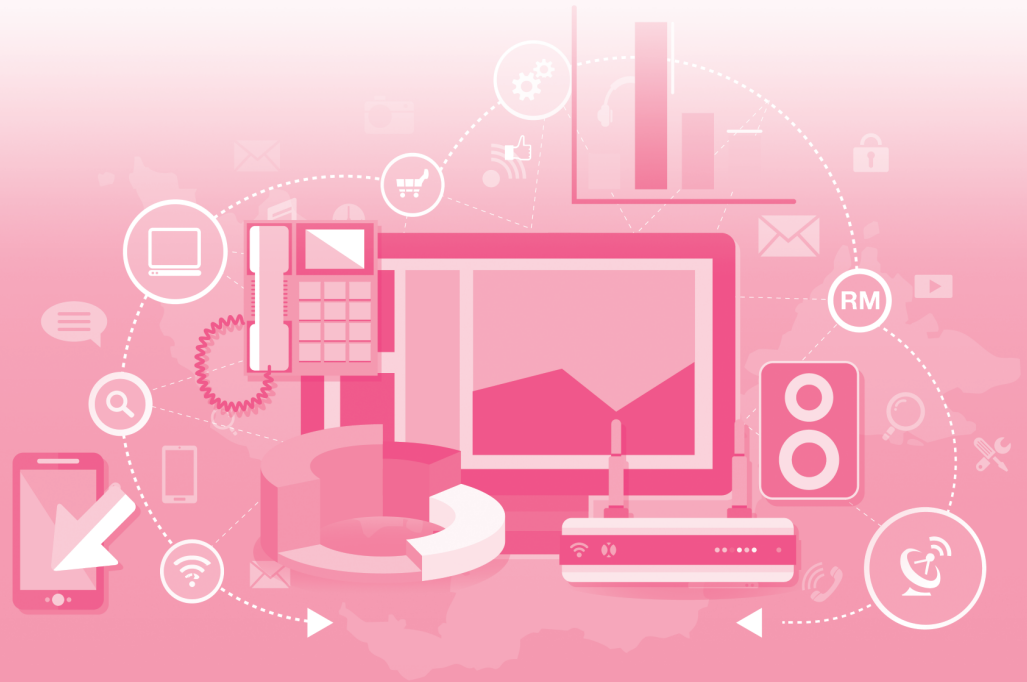
**Laporan Penyiasatan Penggunaan dan Capaian ICT oleh Individu dan Isi Rumah 2015, DOSM**

*ICT Use and Access by Individuals and Households Survey Report 2015, DOSM*



# TANDATANGAN DIGITAL

## *DIGITAL SIGNATURE*



**28 BILANGAN LESEN PIHAK BERKUASA PEMERAKUAN***NUMBER OF CERTIFICATION AUTHORITIES*

<b>Tahun</b> <i>Year</i>	<b>Suku</b> <i>Quarter</i>	<b>Bilangan lesen</b> <i>Number of licenses</i>
<b>2015</b>	<b>1</b>	3
	<b>2</b>	3
	<b>3</b>	3
	<b>4</b>	3
<b>2016</b>	<b>1</b>	3
	<b>2</b>	3

**Nota penjelasan:***Explanatory notes:***Merujuk kepada Pihak Berkuasa Pemerakuan yang dilesenkan di bawah Akta Tandatangan Digital 1997.***Refers to Certification Authorities licenced under the Digital Signature Act 1997.*



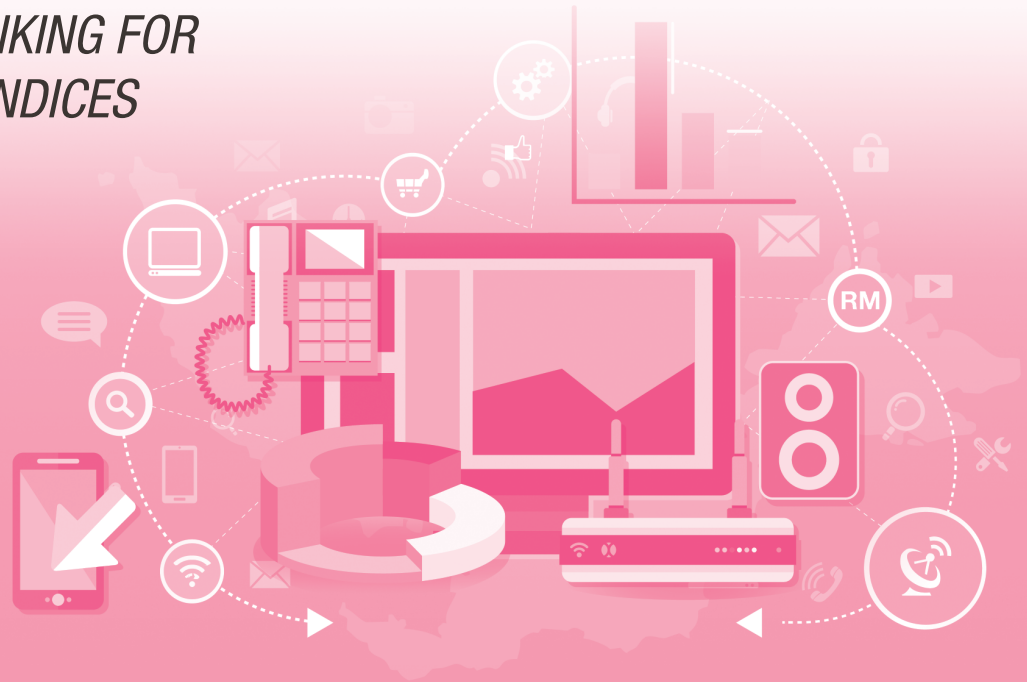
## 29 BILANGAN SIJIL YANG DIKELUARKAN MENGIKUT JENIS

### NUMBER OF CERTIFICATES ISSUED BY TYPE

Tahun Year	Suku Quarter	Pegguna Domestik Domestic holder			Pegguna Luar Negara Foreign holders	Jumlah Total
		Individu Individual	Organisasi Organisation		Organisasi Organisation	
			Korporat Corporate	Kerajaan Government	Korporat Corporate	
		('000)				
2015	1	10.1	<u>225.1</u>	<u>7,377.4</u>	1.1	<u>7,613.7</u>
	2	10.2	<u>228.7</u>	<u>7,984.3</u>	1.1	<u>8,224.2</u>
	3	10.2	231.3	<u>8,095.1</u>	1.1	<u>8,337.7</u>
	4	10.2	<u>234.7</u>	<u>8,146.8</u>	1.1	<u>8,392.8</u>
2016	1	10.2	239.4	8,408.2	1.1	8,658.9
	2	10.2	244.0	9,062.8	1.1	9,318.1



**KEDUDUKAN MALAYSIA  
DALAM INDEKS BERKAITAN ICT**  
*MALAYSIA RANKING FOR  
ICT RELATED INDICES*



## 30 KEDUDUKAN MALAYSIA DALAM INDEKS BERKAITAN ICT

### MALAYSIA RANKING FOR ICT RELATED INDICES

Tahun Year	ICT Development Index	E–Government Development Index (EGDI)	Networked Readiness Index (NRI)
<b>Nota / Notes</b>	a	b	c
<b>2015</b>	66	...	32
<b>2016</b>	61	60	31

#### Nota penjelasan:

#### Explanatory notes:

- a. **ICT Development Index (IDI):** Indeks ini mengukur tahap kemajuan ICT. Ia juga mengukur jurang digital global dan mengkaji bagaimana jurang ini berkembang pada tahun-tahun kebelakangan ini. Indeks ini diterbitkan oleh International Telecommunication Union.

*ICT Development Index (IDI): This index captures the level of advancement of ICTs. It also measures the global digital divide and examines how it has developed in recent years. This index is produced by the International Telecommunications Union.*

- b. **E–Government Development Index (EGDI):** The E-Government Development Index menilai pembangunan E-Kerajaan negara-negara anggota Pertubuhan Bangsa-Bangsa Bersatu. Salah satu komponen EGDI adalah Telecommunication Infrastructure Index (TII) di mana Malaysia berada di kedudukan ke 70 pada tahun 2016. Indeks ini diterbitkan oleh UN Public Administration Network setiap dua tahun.

*E–Government Development Index (EGDI): The E-Government Development Index presents the state of E-Government Development of the United Nations Member States. One of the component in EGDI is Telecommunication Infrastructure Index (TII), in which Malaysia ranks 70 in 2016. This index is published by the UN Public Administration Network every two years.*

- c. **Networked Readiness Index (NRI)**: NRI mengukur keupayaan negara mengeksploitasikan peluang-peluang yang disediakan oleh ICT. Indeks ini telah disusun untuk 139 ekonomi oleh World Economic Forum.

*Networked Readiness Index (NRI): NRI measures the propensity for countries to exploit the opportunities offered by ICT. The index has been compiled for 139 economies by World Economic Forum.*

## UNTUK STATISTIK-STATISTIK LAIN

### FOR MORE STATISTICS

#### LAMAN SESAWANG

##### WEBSITE

**Laman sesawang MCMC mengandungi ekstrak statistik-statistik yang berkaitan dengan industri komunikasi & multimedia dan pos & kurier. Statistik-statistik ini dikemaskinikan pada setiap suku/setengah tahun.**

*The MCMC website contains extracts of statistics pertaining to the communications & multimedia and postal & courier industry. This is updated quarterly/half yearly*

**Laman sesawang MCMC adalah [www.mcmc.gov.my](http://www.mcmc.gov.my)**

*The MCMC website is at [www.mcmc.gov.my](http://www.mcmc.gov.my)*

#### PENERBITAN STATISTIK YANG LAIN

##### OTHER STATISTICAL PUBLICATIONS

- 1. Perkhidmatan Pos & Kurier: Buku Maklumat Statistik (ISSN: 2231-9913)**  
*Postal & Courier Services: Pocket Book of Statistics (ISSN: 2231-9913)*
- 2. Kajian Pengguna Telefon Bimbit Tahunan (ISSN: 1823-2523)**  
*Yearly Hand Phone User Survey (ISSN: 1823-2523)*
- 3. Kajian Pengguna Internet Tahunan (ISSN: 1823-2523)**  
*Yearly Internet User Survey (ISSN: 1823-2523)*

**JABATAN STATISTIK**  
*STATISTICS DEPARTMENT*

**HUBUNGI**  
*CONTACTS*

**Sila hubungi Jabatan Statistik MCMC sekiranya anda mempunyai pertanyaan yang berkaitan dengan statistik-statistik yang disiarkan oleh MCMC di alamat e-mel berikut:**

*Please contact the Statistics Department MCMC if you have any queries regarding the statistics published by MCMC at following email address:*

**[statistics@cmc.gov.my](mailto:statistics@cmc.gov.my)**











**Suruhanjaya Komunikasi dan Multimedia Malaysia**  
*Malaysian Communications and Multimedia Commission*

MCMC Tower 1, Jalan IMPACT, Cyber 6  
63000 Cyberjaya, Selangor Darul Ehsan, Malaysia  
Tel: +603 8688 8000 Fax: +603 8688 1000  
Website : [www.mcmc.gov.my](http://www.mcmc.gov.my)



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